

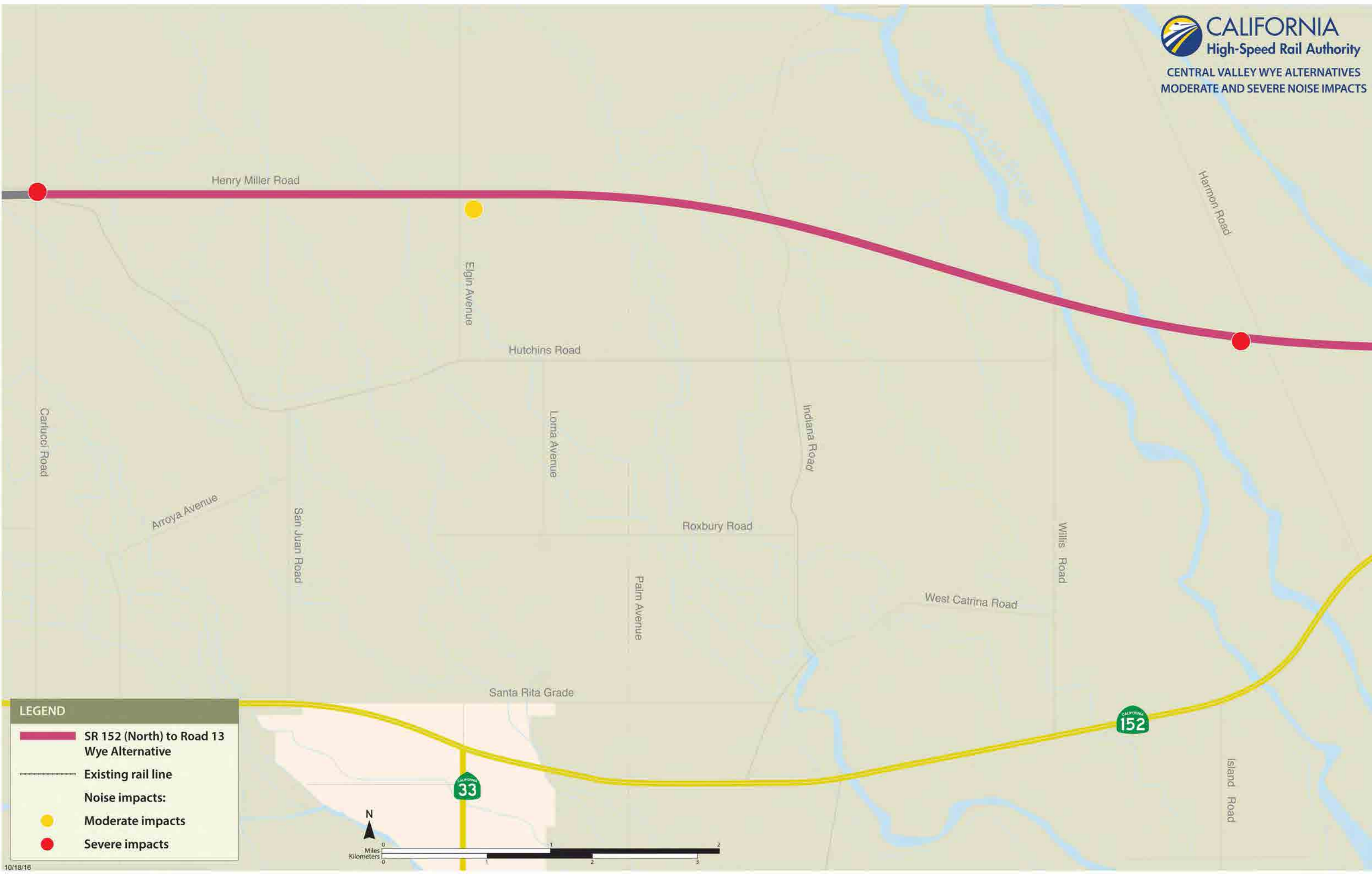
APPENDIX C: NOISE AND VIBRATION MEASUREMENT SITES AND NOISE IMPACTS

DRAFT



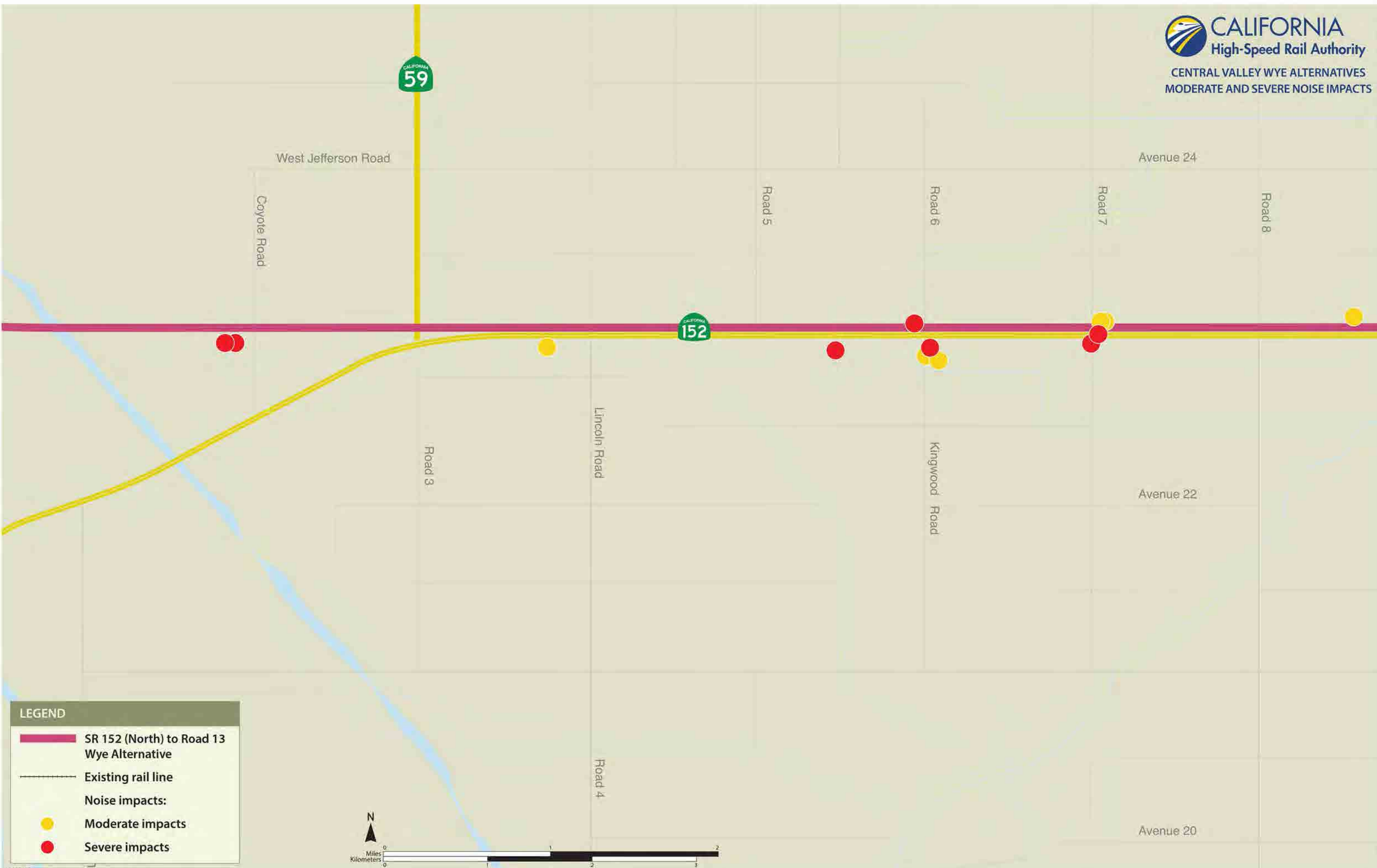
LEGEND

- SR 152 (North) to Road 13 Wye Alternative
- Existing rail line
- Noise impacts:**
- Moderate impacts
- Severe impacts



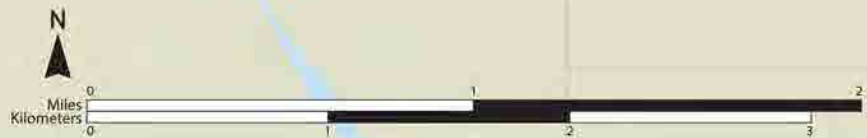
LEGEND

- SR 152 (North) to Road 13 Wye Alternative
- Existing rail line
- Noise impacts:**
- Moderate impacts
- Severe impacts



LEGEND

- SR 152 (North) to Road 13 Wye Alternative
- Existing rail line
- Noise impacts:**
- Moderate impacts
- Severe impacts





LEGEND

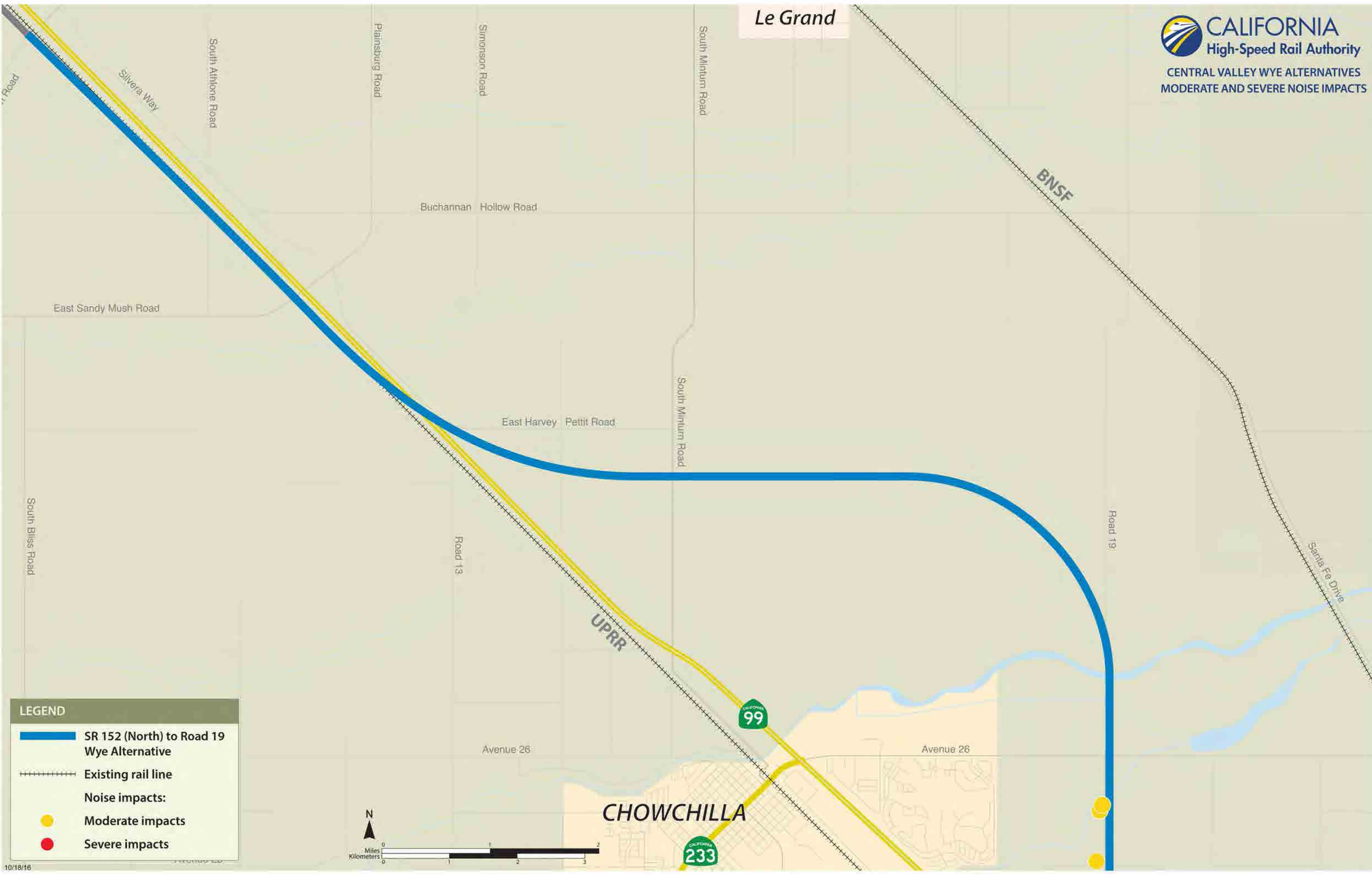
- SR 152 (North) to Road 13 Wye Alternative
- Existing rail line
- Noise impacts:**
- Moderate impacts
- Severe impacts



LEGEND

- SR 152 (North) to Road 13 Wye Alternative
- Existing rail line
- Noise impacts:**
- Moderate impacts
- Severe impacts

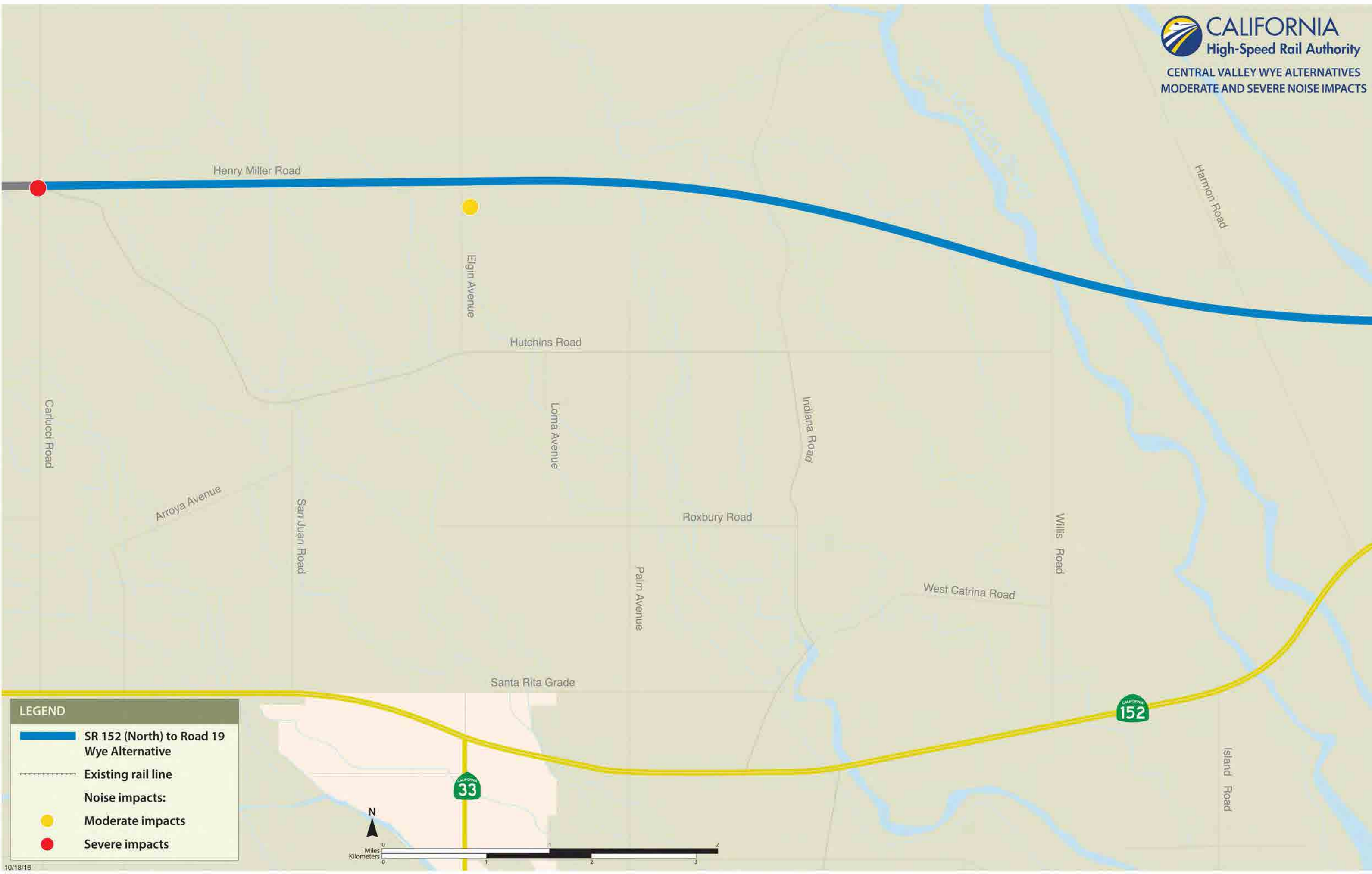




LEGEND

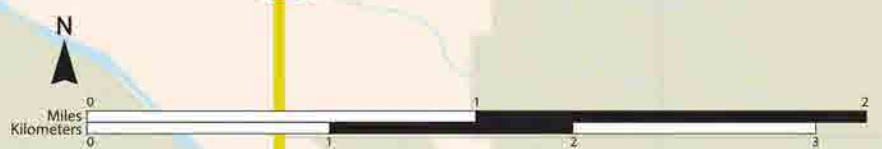
- SR 152 (North) to Road 19 Wye Alternative
- Existing rail line
- Noise impacts:**
- Moderate impacts
- Severe impacts

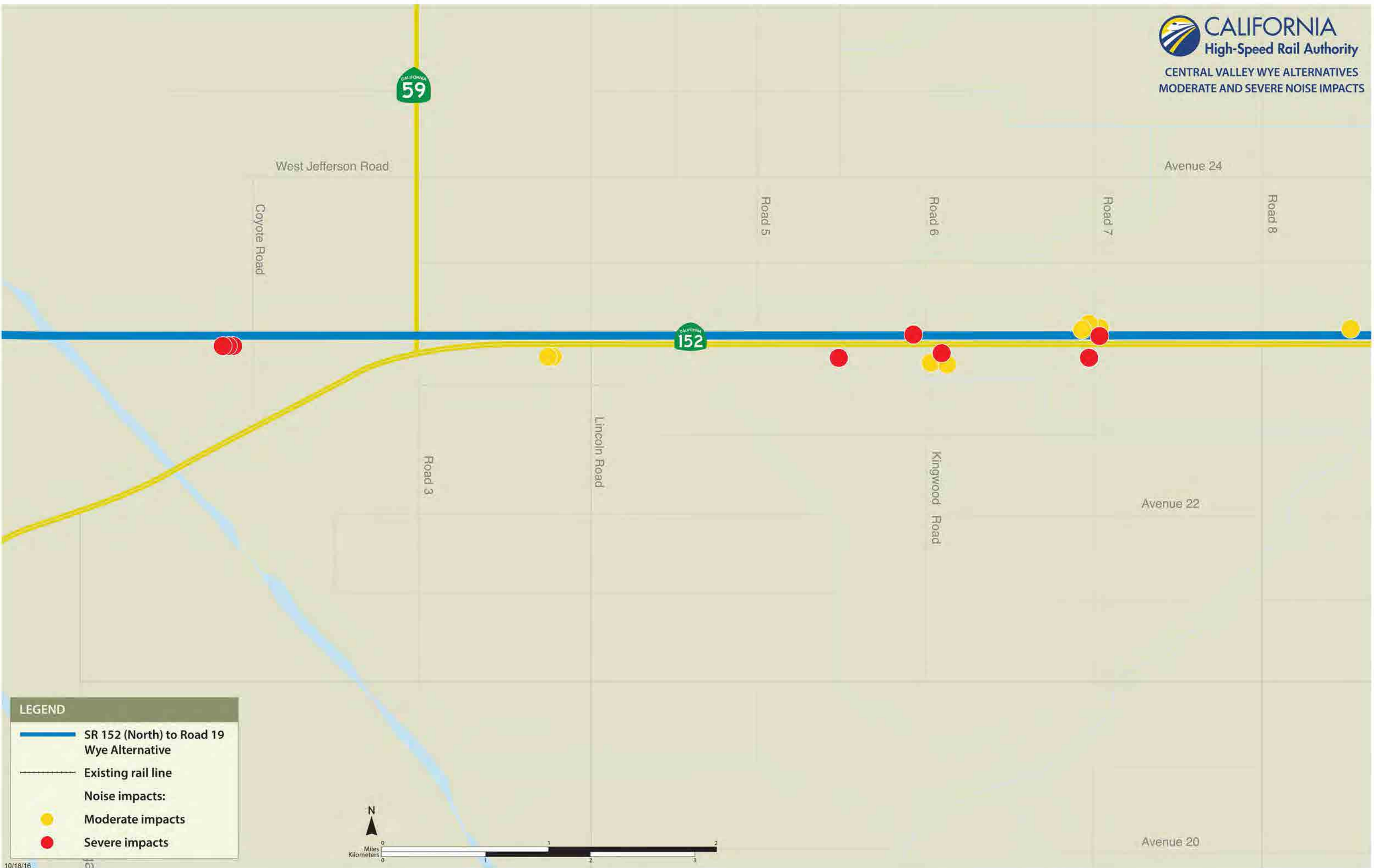




LEGEND

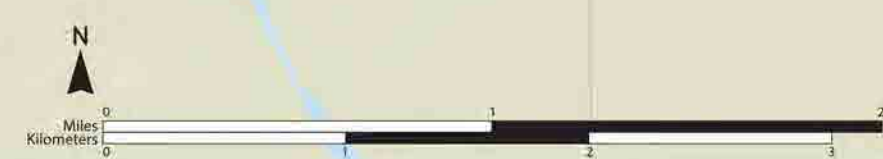
- SR 152 (North) to Road 19 Wye Alternative
- Existing rail line
- Noise impacts:**
- Moderate impacts
- Severe impacts





LEGEND

- SR 152 (North) to Road 19 Wye Alternative
- Existing rail line
- Noise impacts:
- Moderate impacts
- Severe impacts





LEGEND

- SR 152 (North) to Road 19 Wye Alternative
- Existing rail line
- Noise impacts:**
- Moderate impacts
- Severe impacts





LEGEND

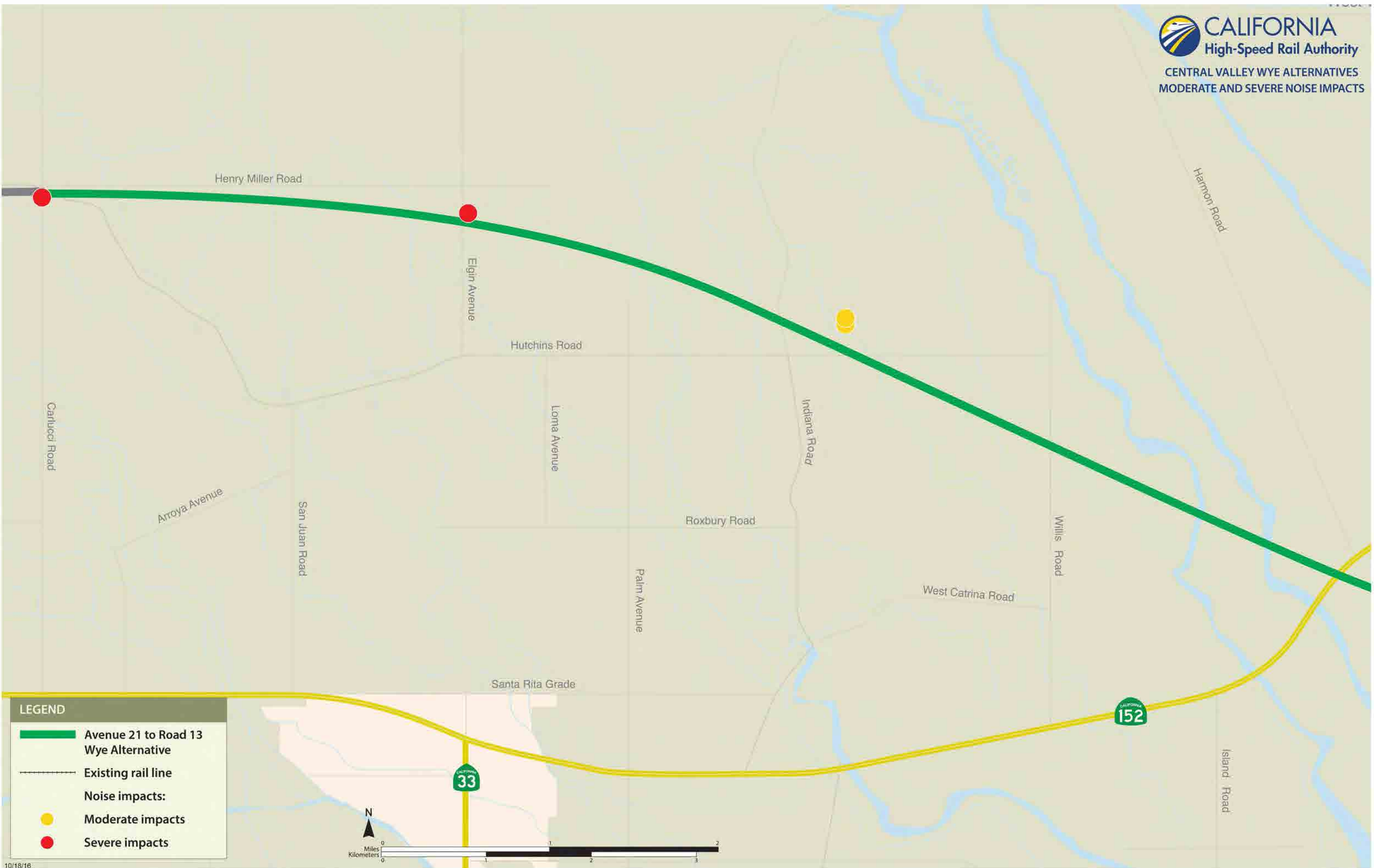
- ▬ SR 152 (North) to Road 19 Wye Alternative
- Existing rail line
- Noise impacts:**
- Moderate impacts
- Severe impacts





LEGEND

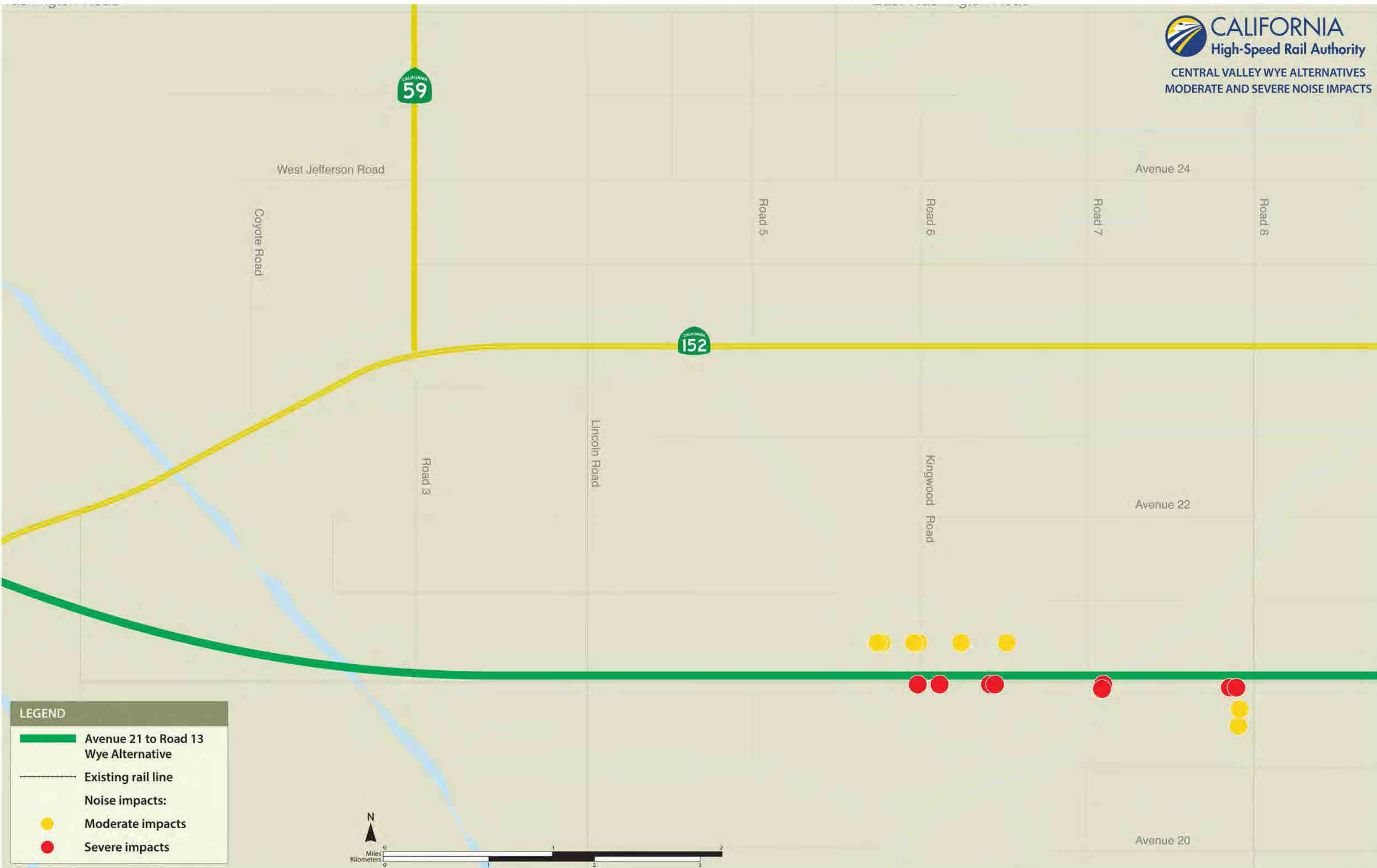
- Avenue 21 to Road 13 Wye Alternative
- Existing rail line
- Noise impacts:
- Moderate impacts
- Severe impacts



LEGEND

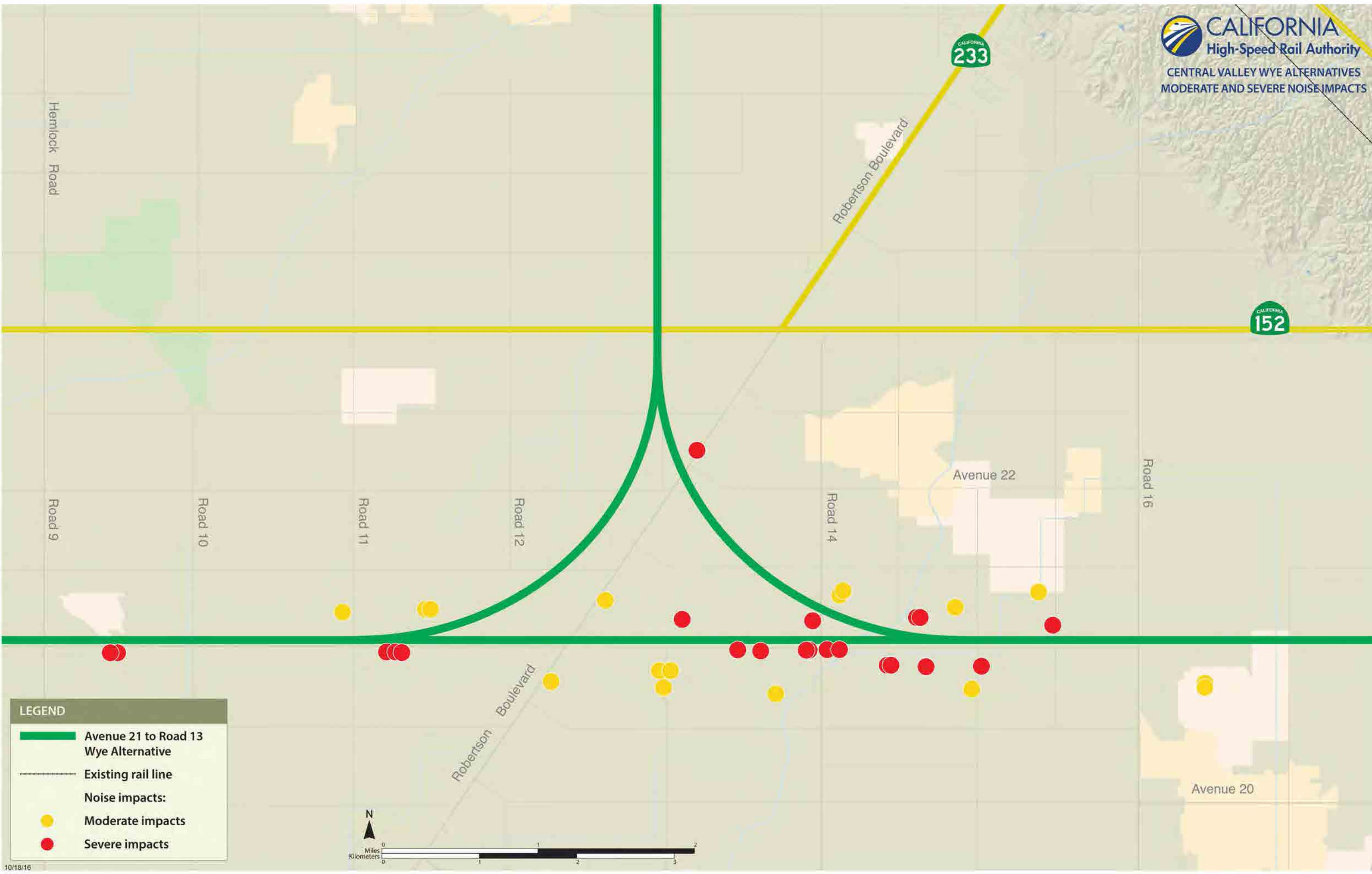
- Avenue 21 to Road 13 Wye Alternative
- Existing rail line
- Noise impacts:**
- Moderate impacts
- Severe impacts





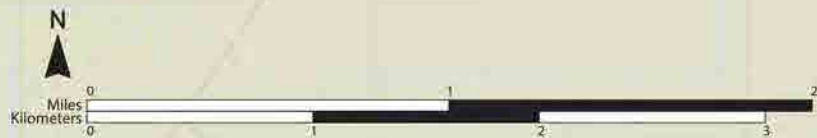
LEGEND

- Avenue 21 to Road 13 Wye Alternative
- Existing rail line
- Noise impacts:**
- Moderate impacts
- Severe impacts



LEGEND

- Avenue 21 to Road 13 Wye Alternative
- Existing rail line
- Noise impacts:
- Moderate impacts
- Severe impacts





LEGEND

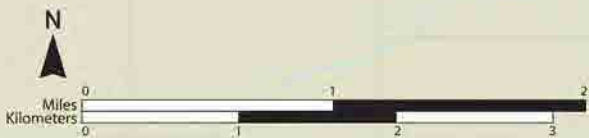
- Avenue 21 to Road 13 Wye Alternative
- Existing rail line
- Noise impacts:
- Moderate impacts
- Severe impacts

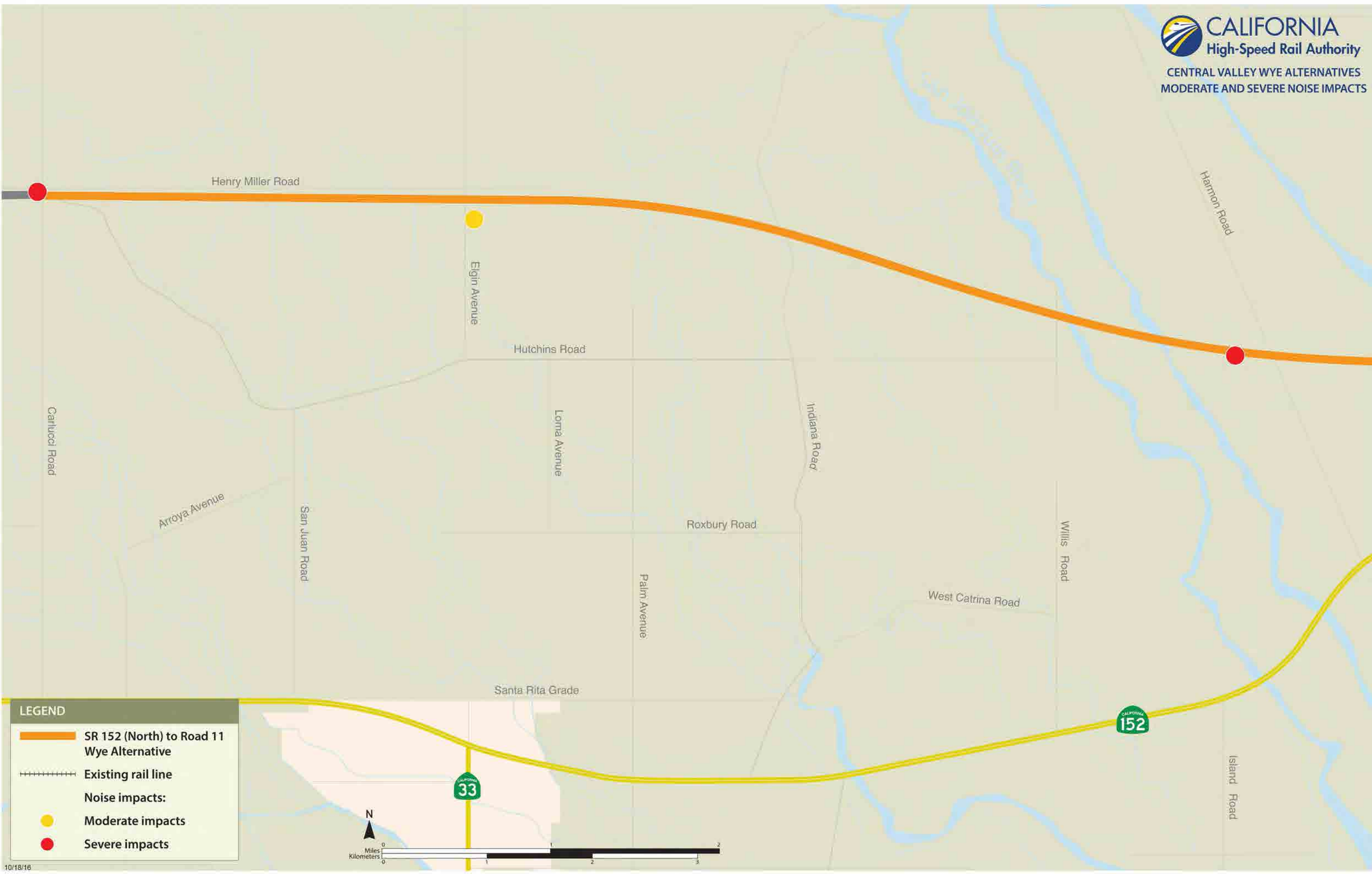




LEGEND

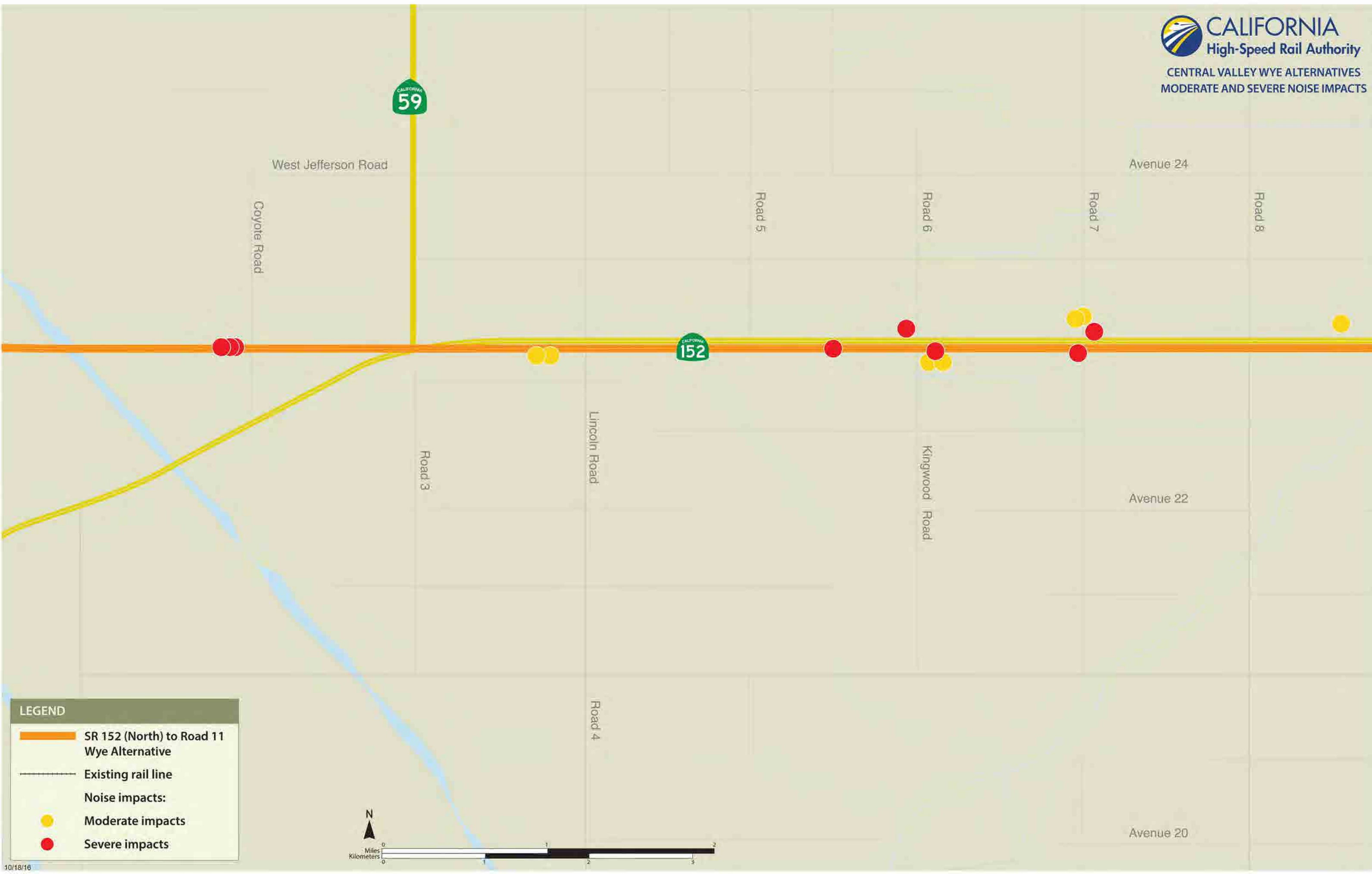
-  SR 152 (North) to Road 11 Wye Alternative
-  Existing rail line
- Noise impacts:**
-  Moderate impacts
-  Severe impacts





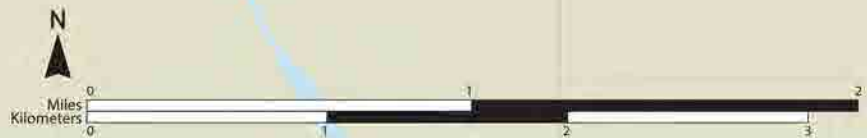
LEGEND

-  SR 152 (North) to Road 11 Wye Alternative
-  Existing rail line
- Noise impacts:**
-  Moderate impacts
-  Severe impacts



LEGEND

-  SR 152 (North) to Road 11 Wye Alternative
-  Existing rail line
- Noise impacts:**
-  Moderate impacts
-  Severe impacts



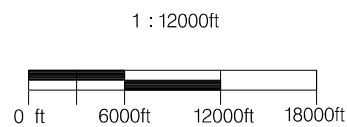




LEGEND

- SR 152 (North) to Road 11 Wye Alternative
- Existing rail line
- Noise impacts:**
- Moderate impacts
- Severe impacts



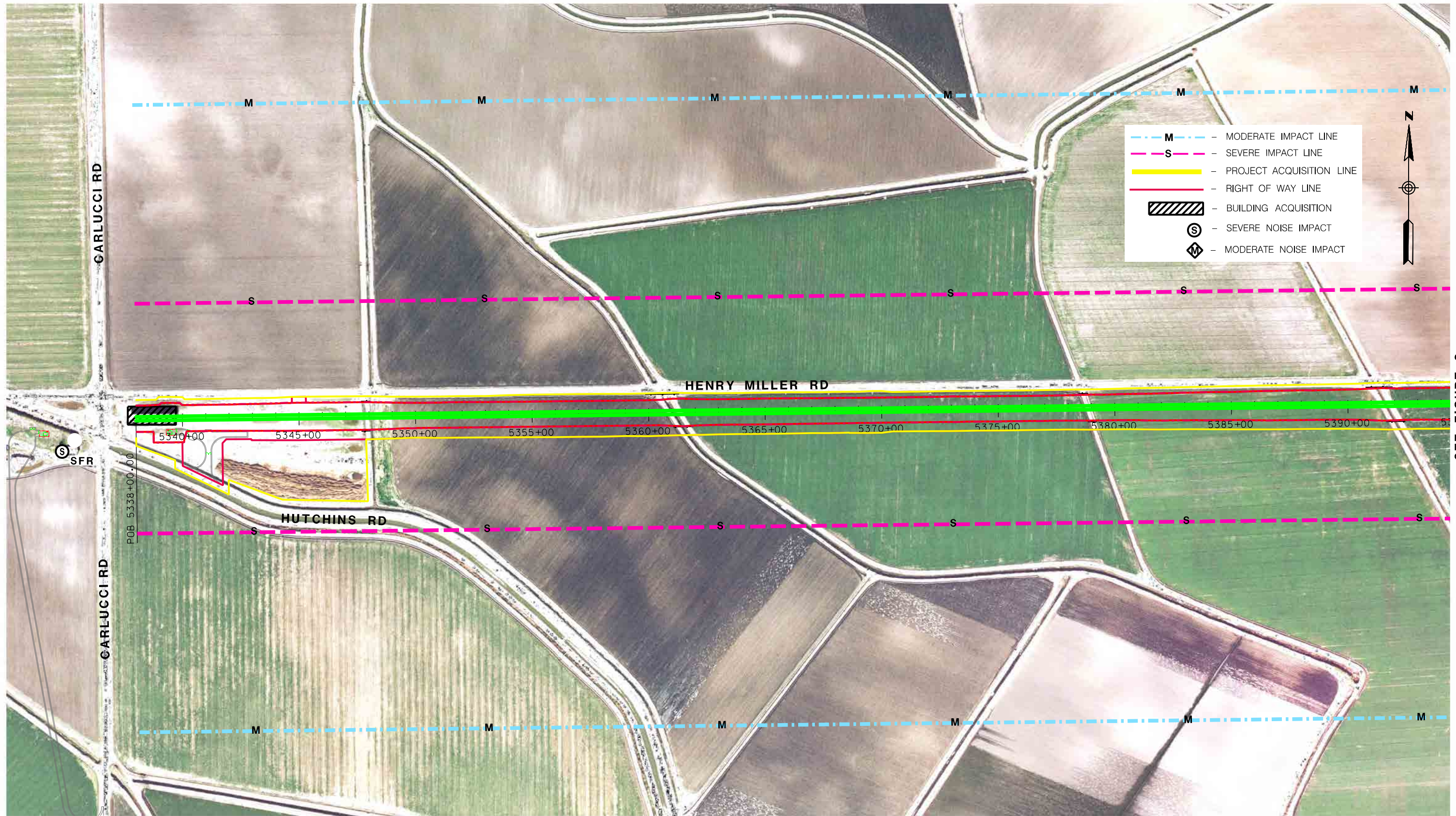


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KEY MAP

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 CENTRAL VALLEY WYE
 NOISE IMPACTS AND MITIGATION
 SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE

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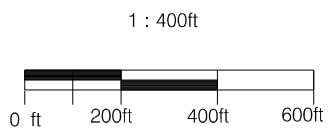


SEE FIGURE 2

LEGEND
 ⊕Nxx - NOISE MEASUREMENT SITE
 ⊕Vxx - VIBRATION MEASUREMENT SITE
 —○—○— SOUNDWALL

SFR OR S - SINGLE FAMILY RESIDENTIAL
 COMM OR C - COMMERCIAL

— - TRACK IN TRENCH
 — - TRACK AT GRADE
 — - TRACK ON AERIAL



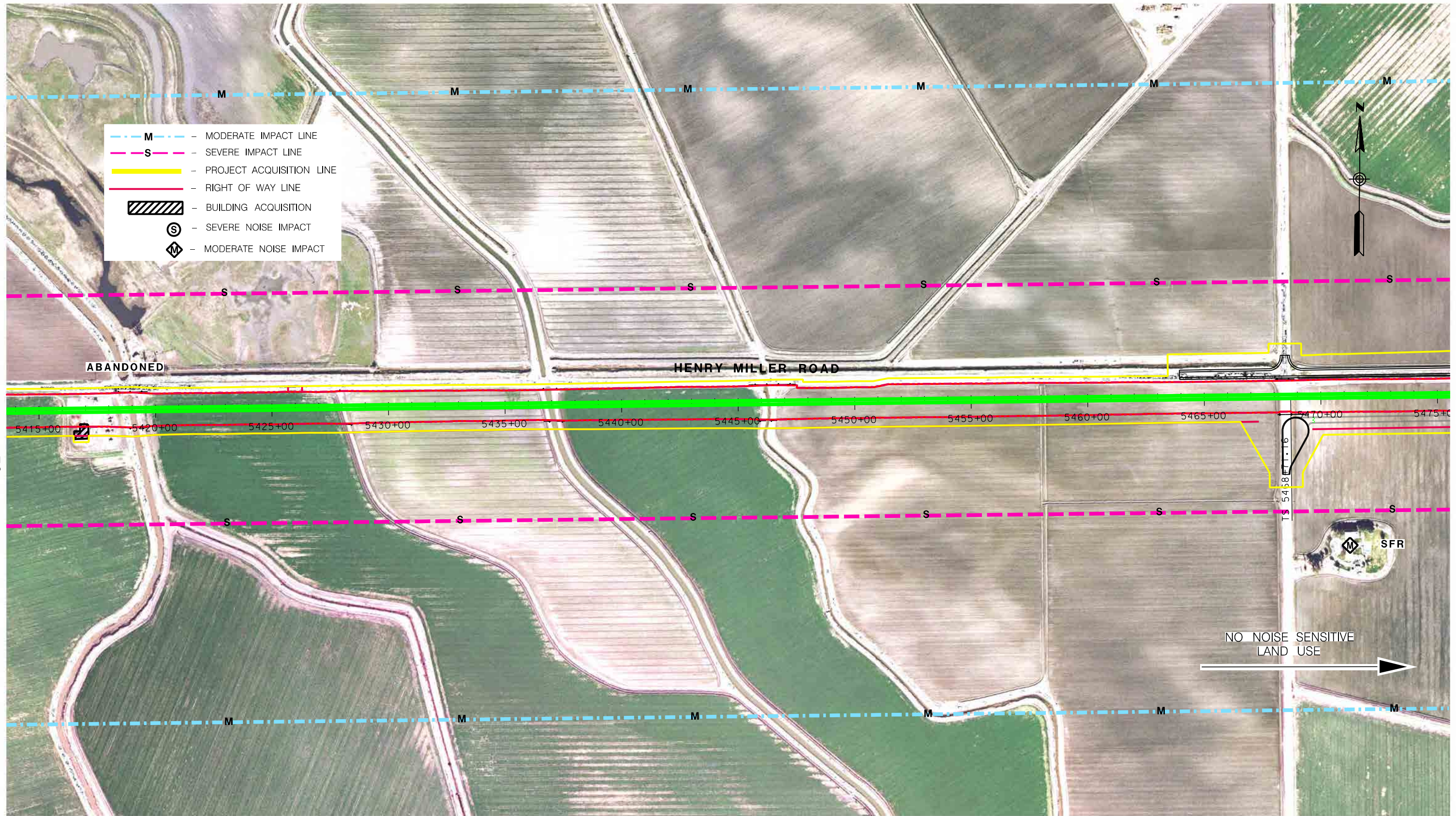
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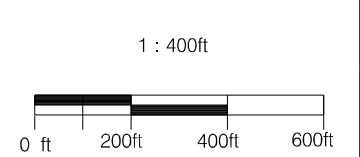
FIGURE 1

SEE FIGURE 1



- - - M - - - - MODERATE IMPACT LINE
- - - S - - - - SEVERE IMPACT LINE
- - PROJECT ACQUISITION LINE
- - RIGHT OF WAY LINE
- ▨ - BUILDING ACQUISITION
- S - SEVERE NOISE IMPACT
- M - MODERATE NOISE IMPACT

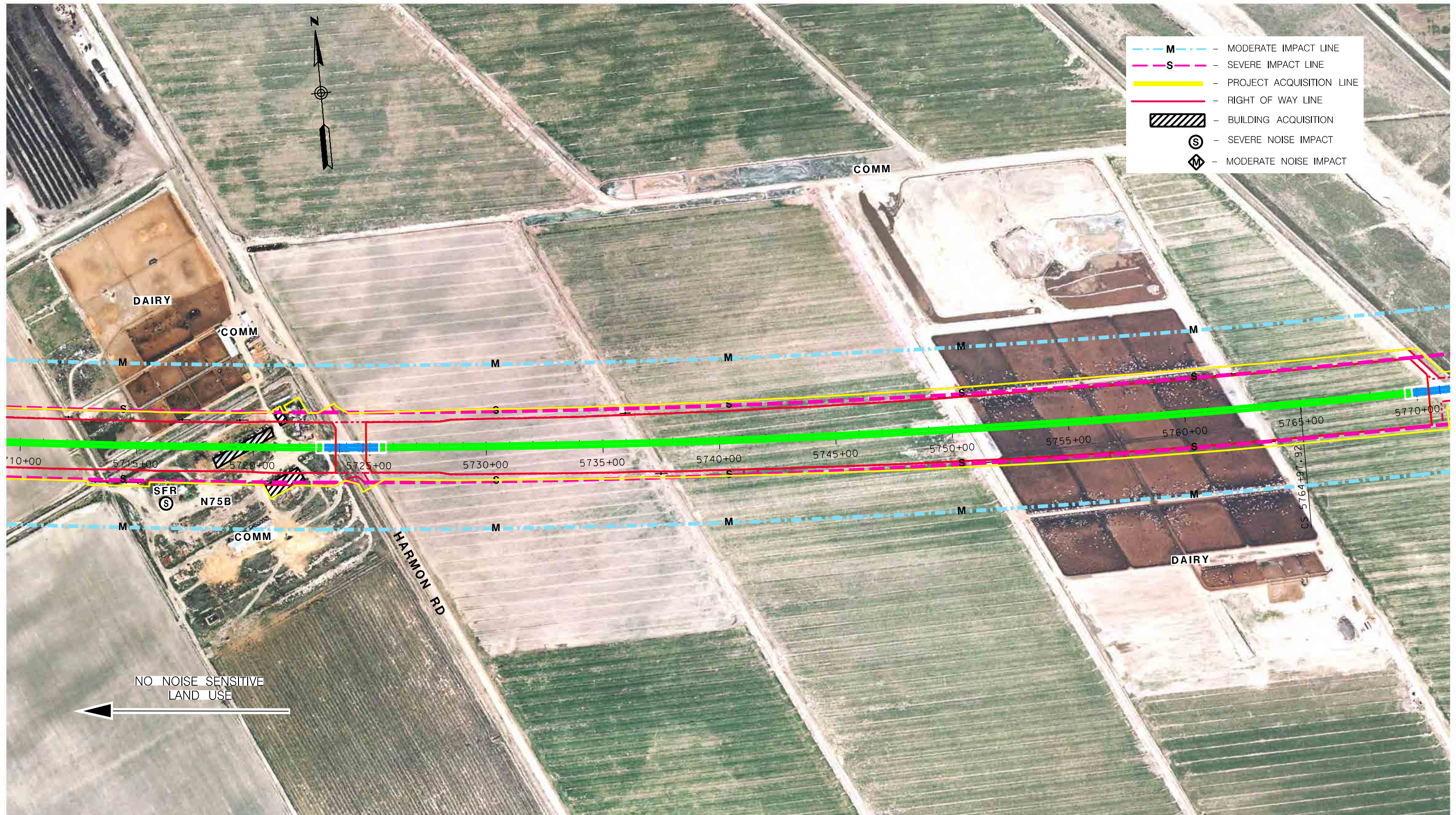
- LEGEND**
- ⊕Nxx - NOISE MEASUREMENT SITE
 - ⊕Vxx - VIBRATION MEASUREMENT SITE
 - - SOUNDWALL
 - SFR OR S** - SINGLE FAMILY RESIDENTIAL
 - COMM OR C** - COMMERCIAL
 - - TRACK IN TRENCH
 - - TRACK AT GRADE
 - - TRACK ON AERIAL



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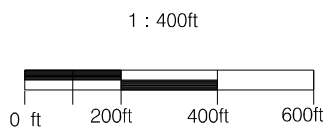
OCTOBER 17, 2016
FIGURE 2



SEE FIGURE 4

LEGEND

- ⊕ Nxx - NOISE MEASUREMENT SITE
- ⊕ Vxx - VIBRATION MEASUREMENT SITE
- SOUNDWALL
- SFR OR S - SINGLE FAMILY RESIDENTIAL
- COMM OR C - COMMERCIAL
- TRACK IN TRENCH
- TRACK AT GRADE
- TRACK ON AERIAL

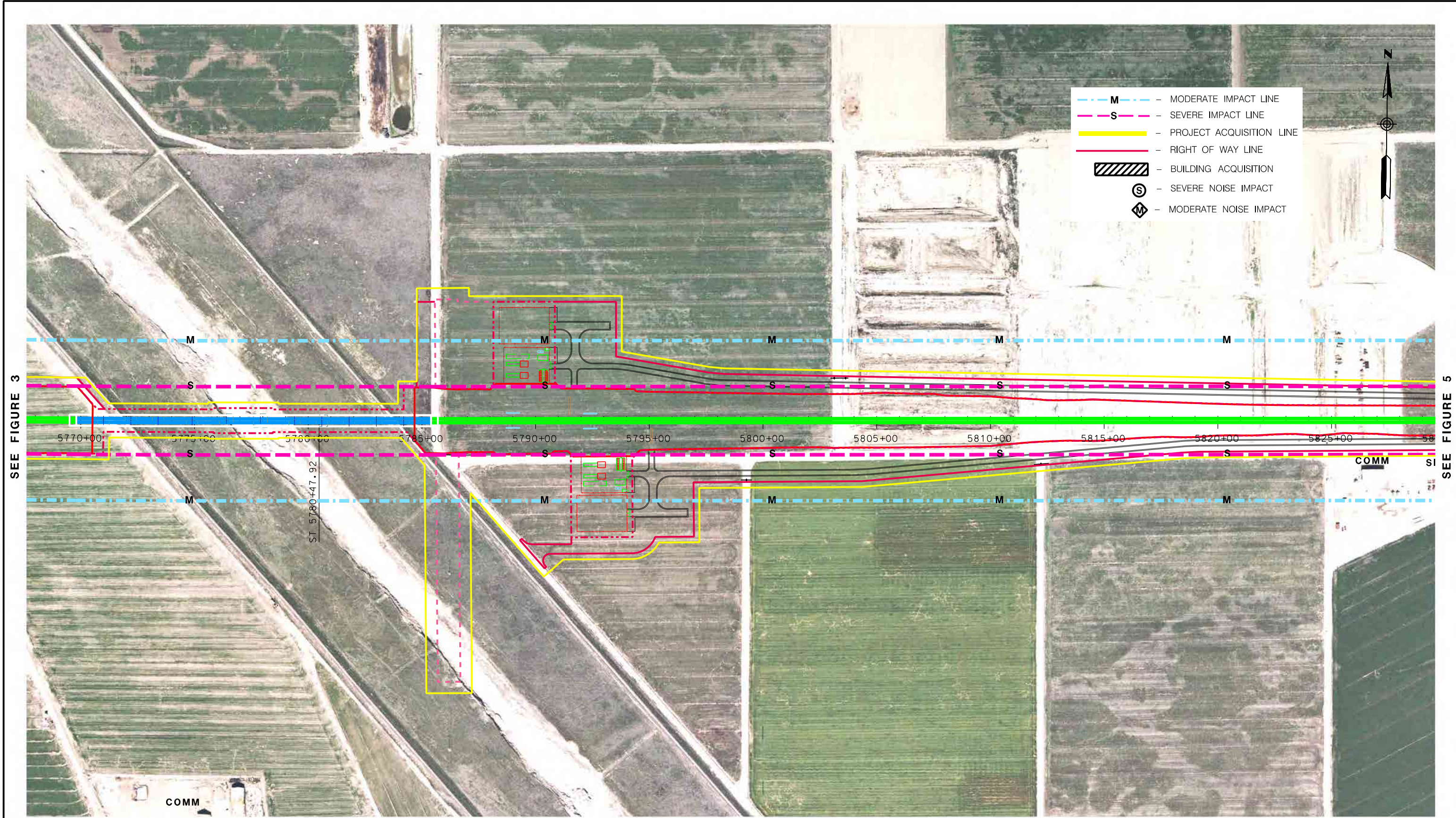


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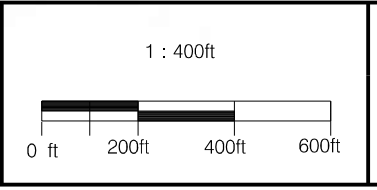
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FIGURE 3



LEGEND

[Nxx in Circle]	- NOISE MEASUREMENT SITE	SFR OR S	- SINGLE FAMILY RESIDENTIAL	[Red Line]	- TRACK IN TRENCH
[Vxx in Circle]	- VIBRATION MEASUREMENT SITE	COMM OR C	- COMMERCIAL	[Green Line]	- TRACK AT GRADE
[Line with Circle]	- SOUNDWALL			[Blue Line]	- TRACK ON AERIAL

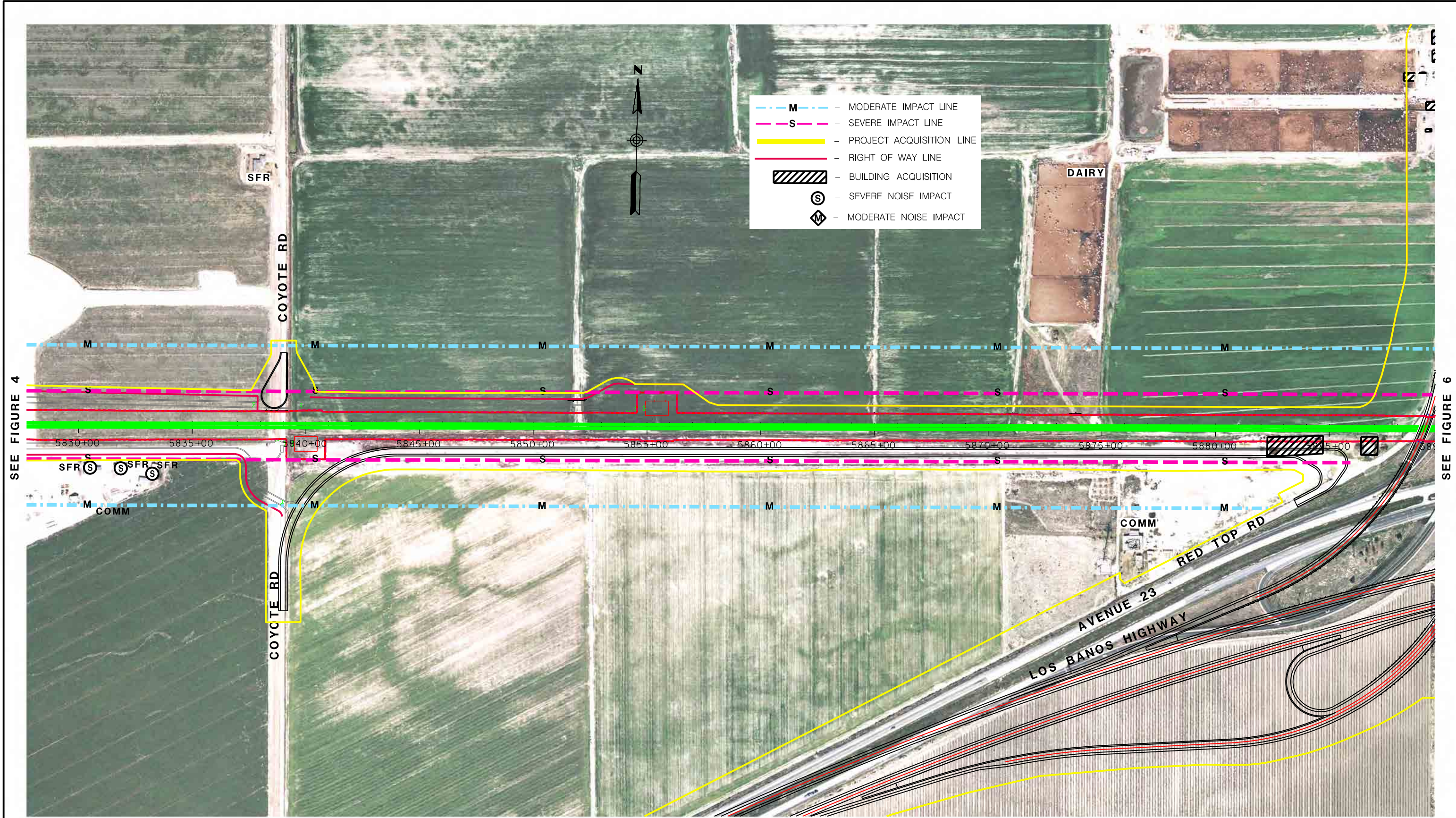


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FIGURE 4



--- M --- - MODERATE IMPACT LINE
 --- S --- - SEVERE IMPACT LINE
 --- (Yellow) --- PROJECT ACQUISITION LINE
 --- (Red) --- RIGHT OF WAY LINE
 [Hatched Box] - BUILDING ACQUISITION
 (S) - SEVERE NOISE IMPACT
 (M) - MODERATE NOISE IMPACT

SEE FIGURE 4

SEE FIGURE 6

LEGEND

(Nxx) - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	(Red Line) - TRACK IN TRENCH
(Vxx) - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	(Green Line) - TRACK AT GRADE
(Line with dots) - SOUNDWALL		(Blue Line) - TRACK ON AERIAL

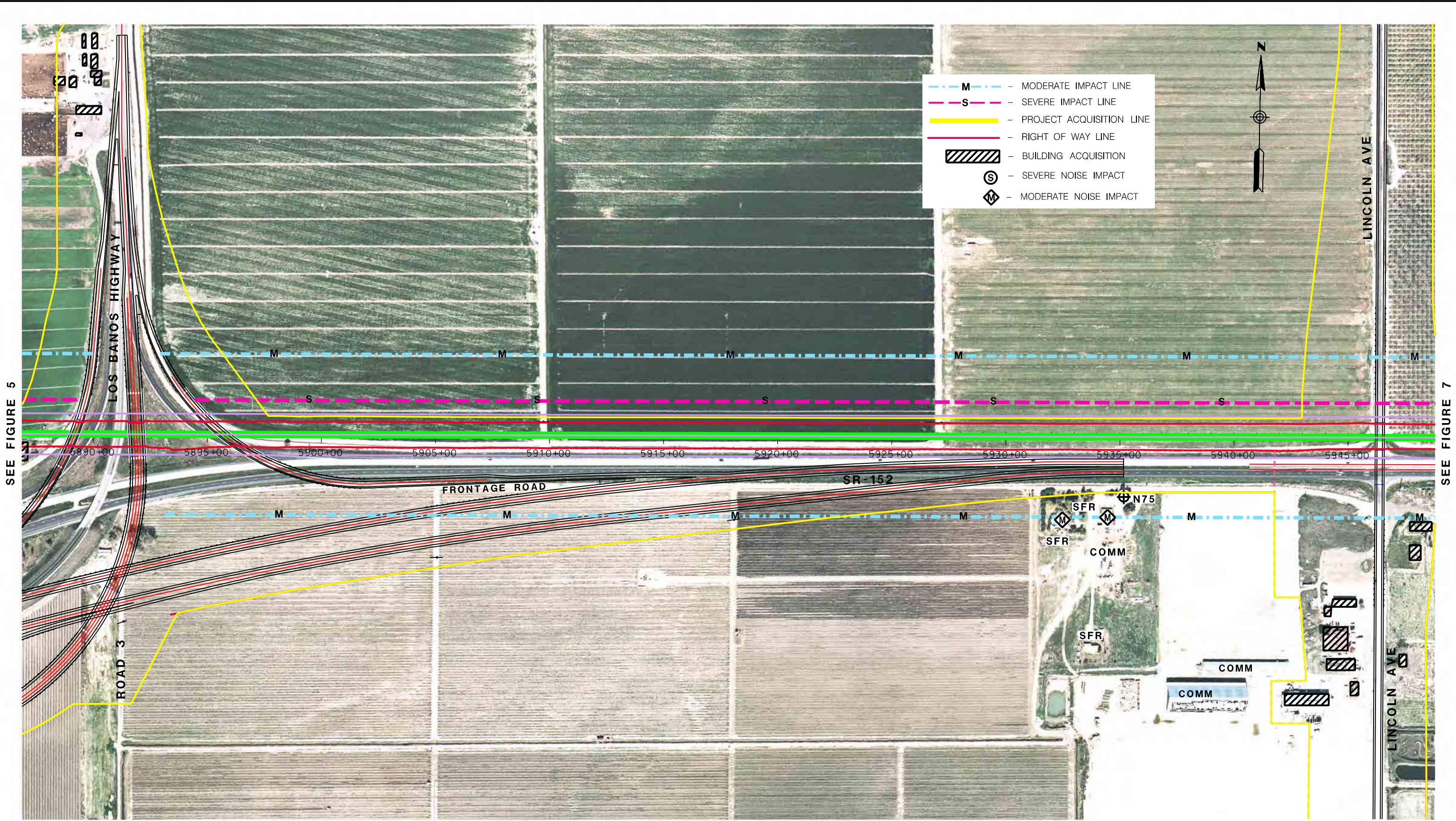
1 : 400ft

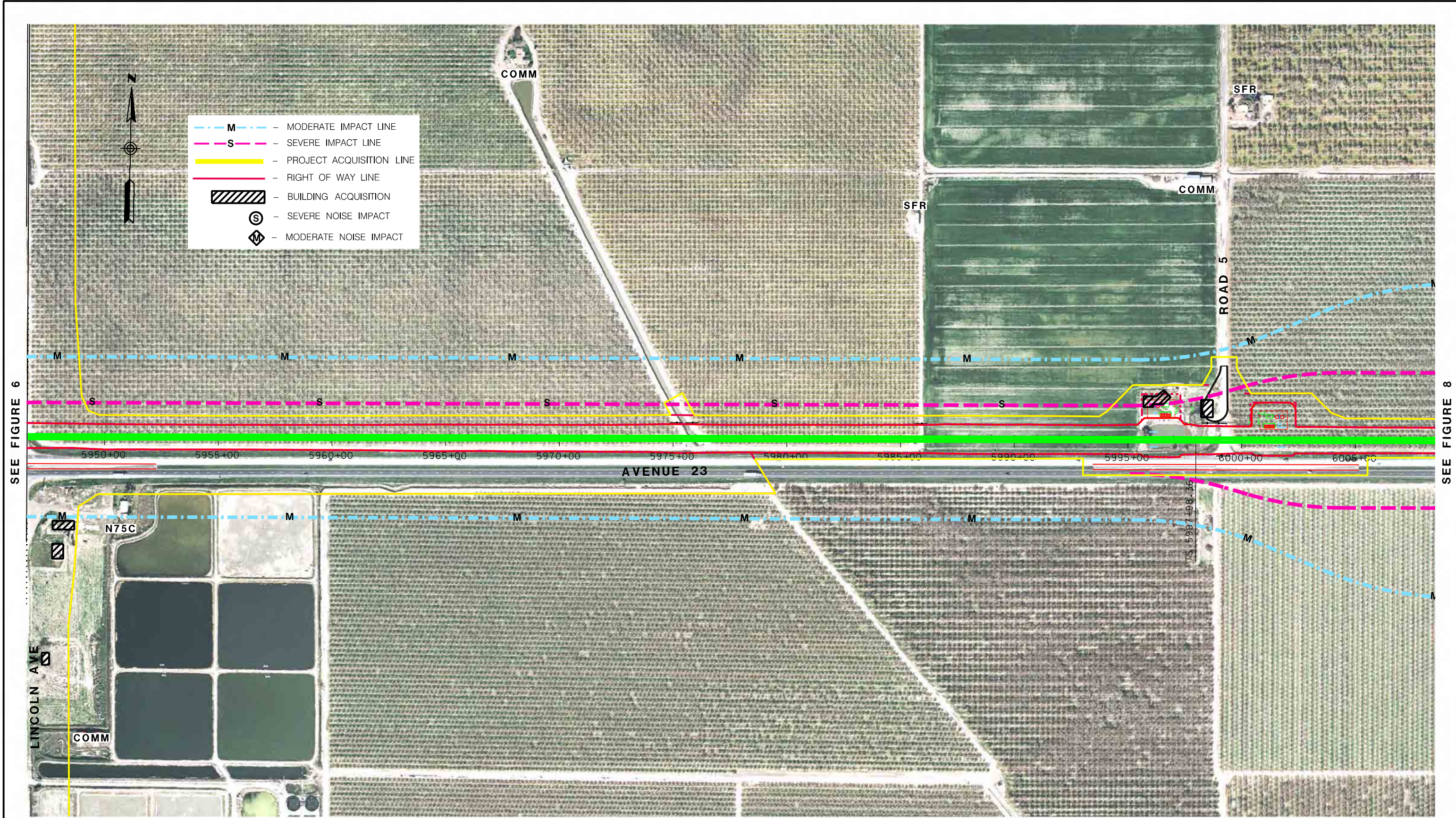
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 SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE**

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FIGURE 5

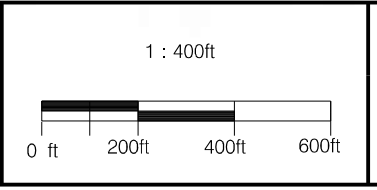




SEE FIGURE 6

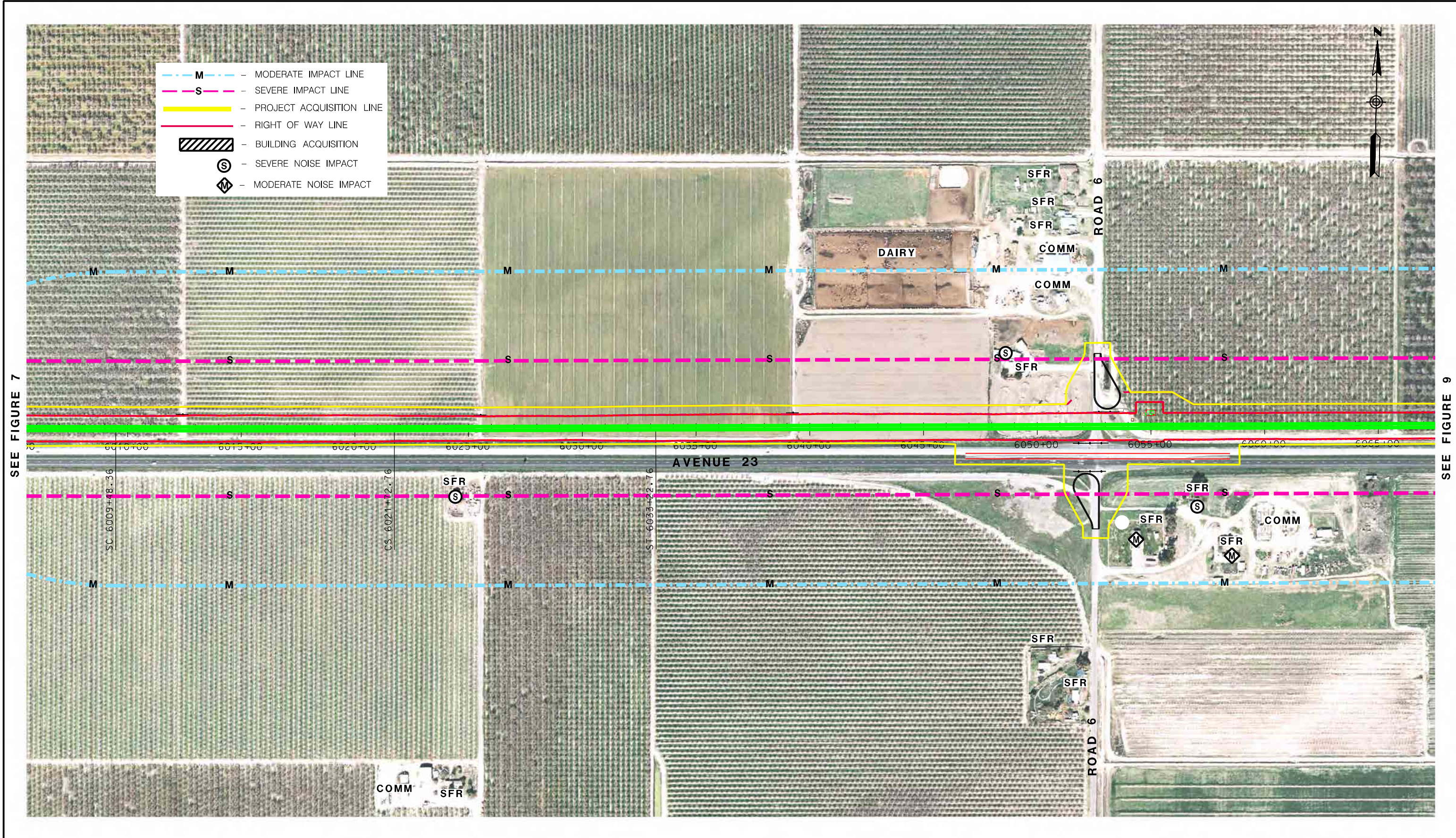
SEE FIGURE 8

LEGEND		
	Nxx - NOISE MEASUREMENT SITE	
	Vxx - VIBRATION MEASUREMENT SITE	
	- SOUNDWALL	
	SFR OR S - SINGLE FAMILY RESIDENTIAL	
	COMM OR C - COMMERCIAL	



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 OCTOBER 17, 2016
 FIGURE 7

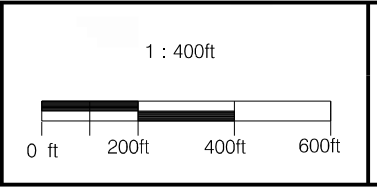


SEE FIGURE 7

SEE FIGURE 9

LEGEND

Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	- TRACK IN TRENCH
Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	- TRACK AT GRADE
- SOUNDWALL		- TRACK ON AERIAL

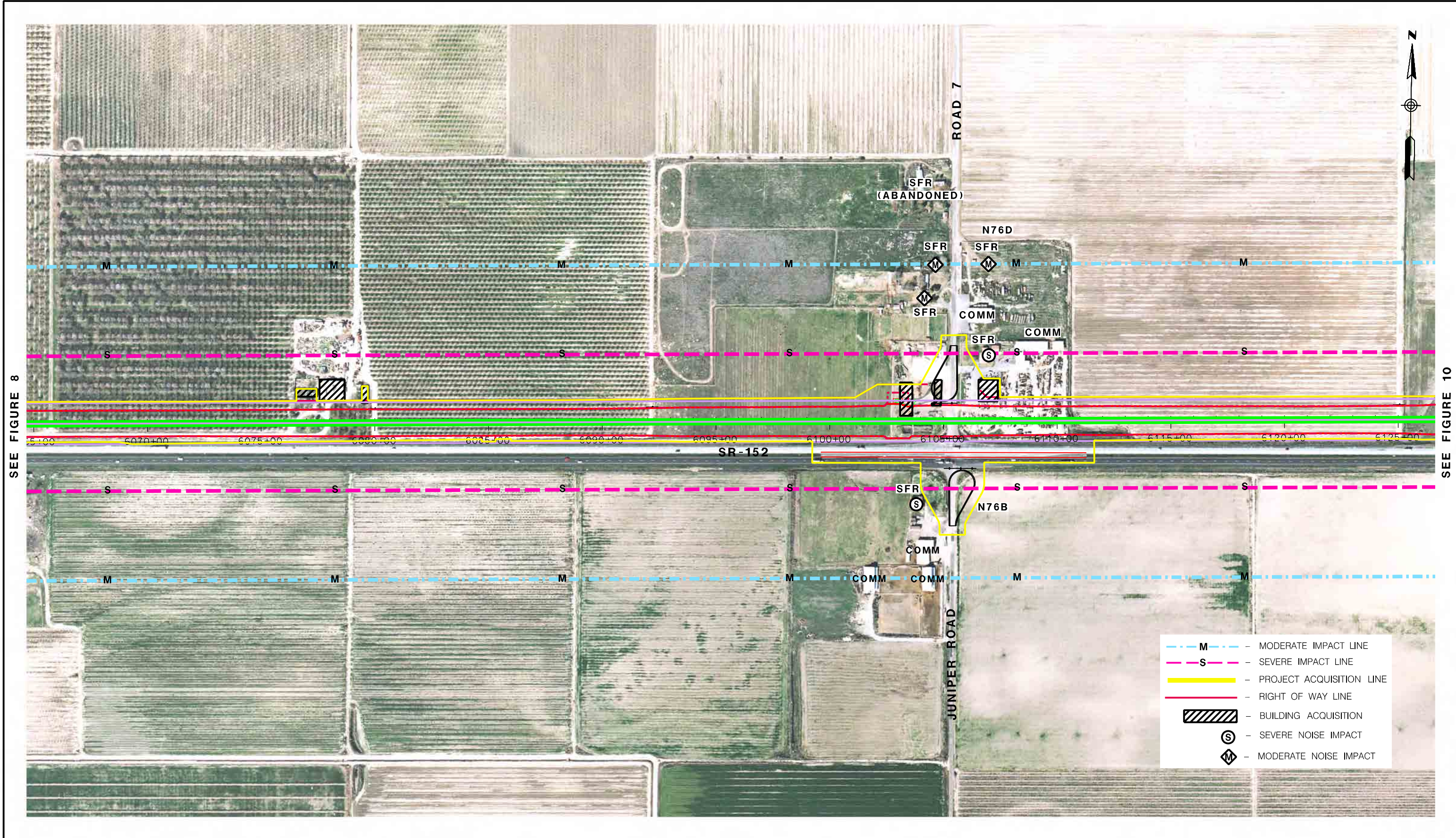


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 NOISE IMPACTS AND MITIGATION
 SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE**

OCTOBER 17, 2016

FIGURE 8



SEE FIGURE 8

SEE FIGURE 10

LEGEND

⊕Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	— TRACK IN TRENCH
⊕Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	— TRACK AT GRADE
— SOUNDWALL		— TRACK ON AERIAL

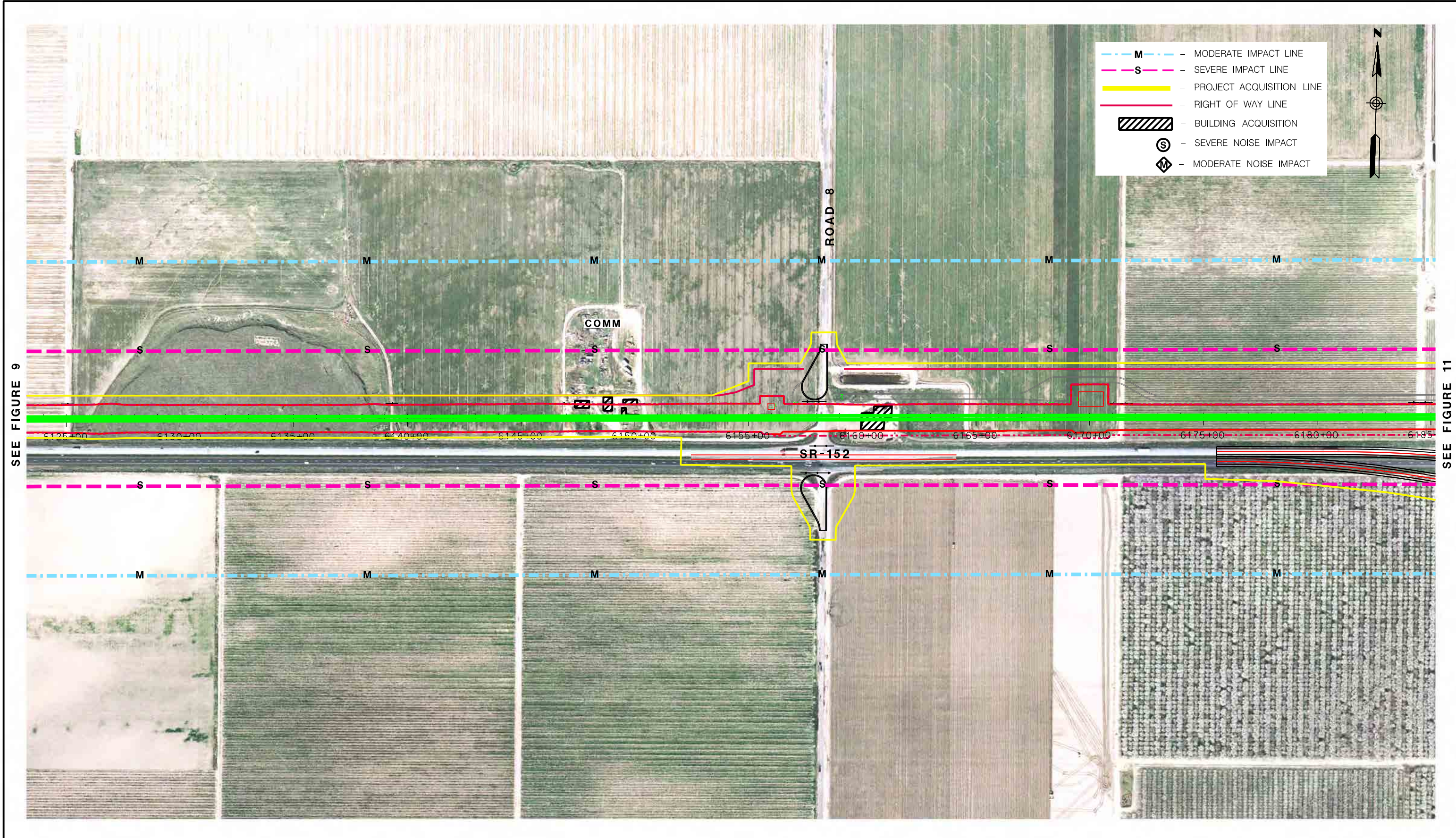
1 : 400ft

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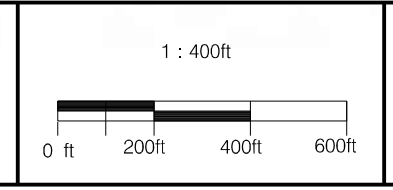
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FIGURE 9



LEGEND

- Nxx - NOISE MEASUREMENT SITE
- Vxx - VIBRATION MEASUREMENT SITE
- SOUNDWALL
- SFR OR S - SINGLE FAMILY RESIDENTIAL
- COMM OR C - COMMERCIAL
- TRACK IN TRENCH
- TRACK AT GRADE
- TRACK ON AERIAL



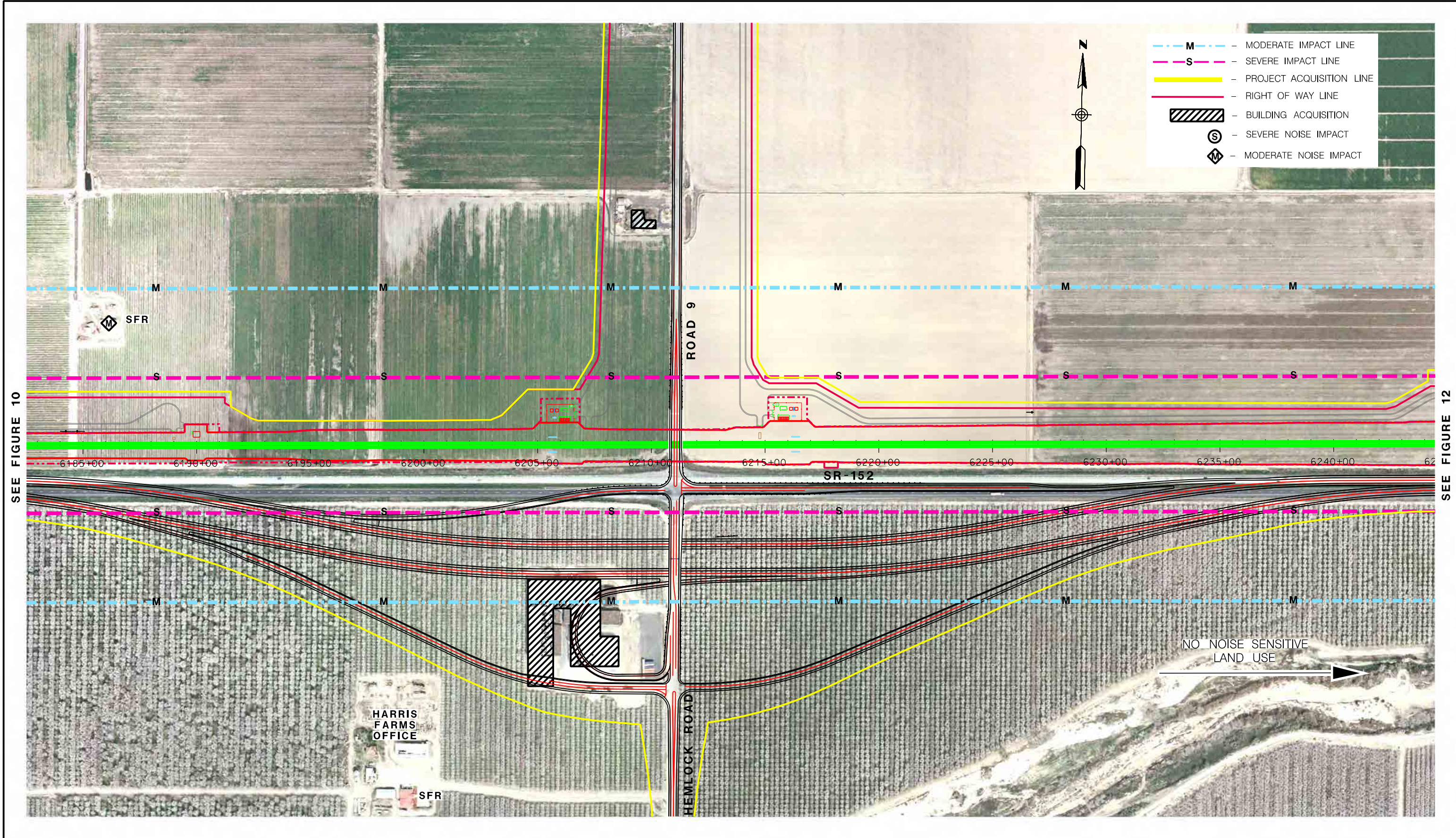
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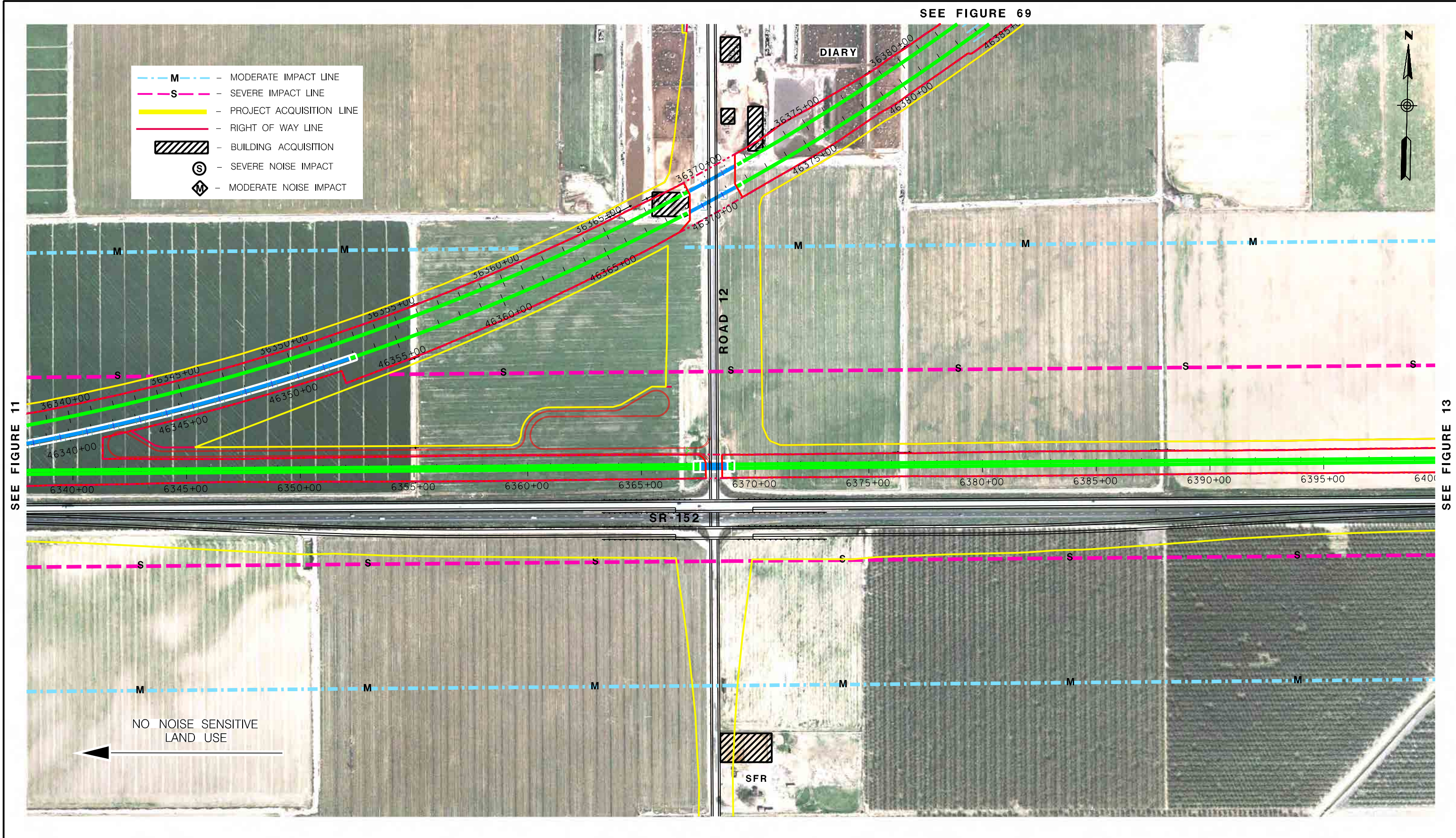
FIGURE 10



SEE FIGURE 10

SEE FIGURE 12

<p>LEGEND</p> <ul style="list-style-type: none"> ⊕ Nxx - NOISE MEASUREMENT SITE ⊕ Vxx - VIBRATION MEASUREMENT SITE —○— SOUNDWALL 	<p>SFR OR S - SINGLE FAMILY RESIDENTIAL</p> <p>COMM OR C - COMMERCIAL</p>	<ul style="list-style-type: none"> — TRACK IN TRENCH — TRACK AT GRADE — TRACK ON AERIAL 	<p>1 : 400ft</p>	<p>PARSONS</p> <p>100 WEST WALNUT ST. PASADENA, CA 91124 (626) 440-6100</p>	<p>MERCED TO FRESNO SECTION: CENTRAL VALLEY WYE NOISE IMPACTS AND MITIGATION SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE</p> <p>OCTOBER 17, 2016</p> <p>FIGURE 11</p>
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- - - M - MODERATE IMPACT LINE
- - - S - SEVERE IMPACT LINE
- - PROJECT ACQUISITION LINE
- - RIGHT OF WAY LINE
- ▨ - BUILDING ACQUISITION
- S - SEVERE NOISE IMPACT
- M - MODERATE NOISE IMPACT

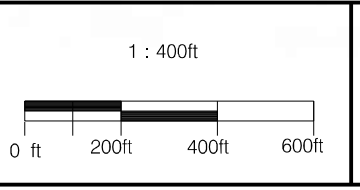
SEE FIGURE 11

SEE FIGURE 13

NO NOISE SENSITIVE
LAND USE
←

LEGEND

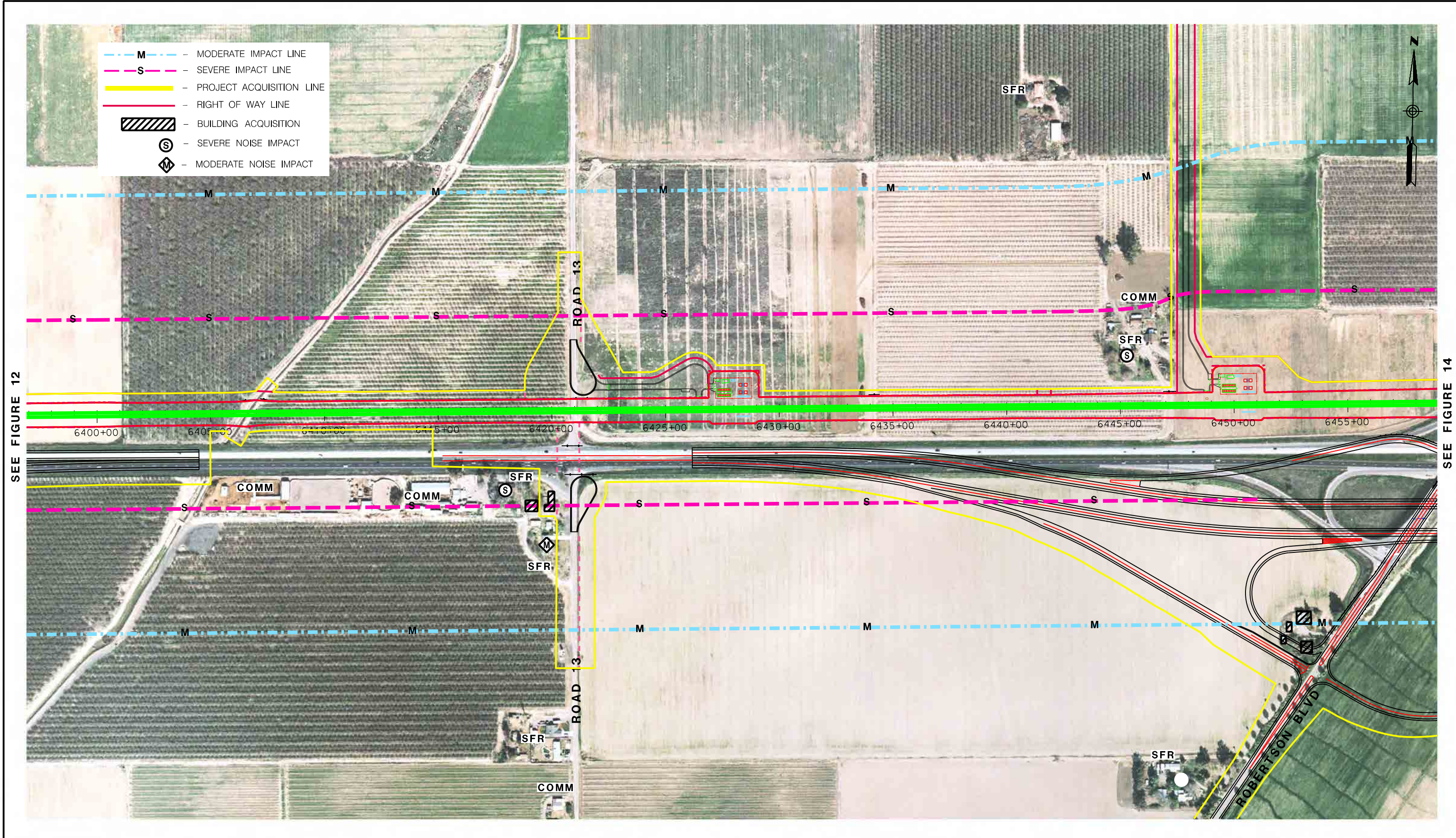
Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	— - TRACK IN TRENCH
Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	— - TRACK AT GRADE
 - SOUNDWALL		— - TRACK ON AERIAL



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OCTOBER 17, 2016	FIGURE 12
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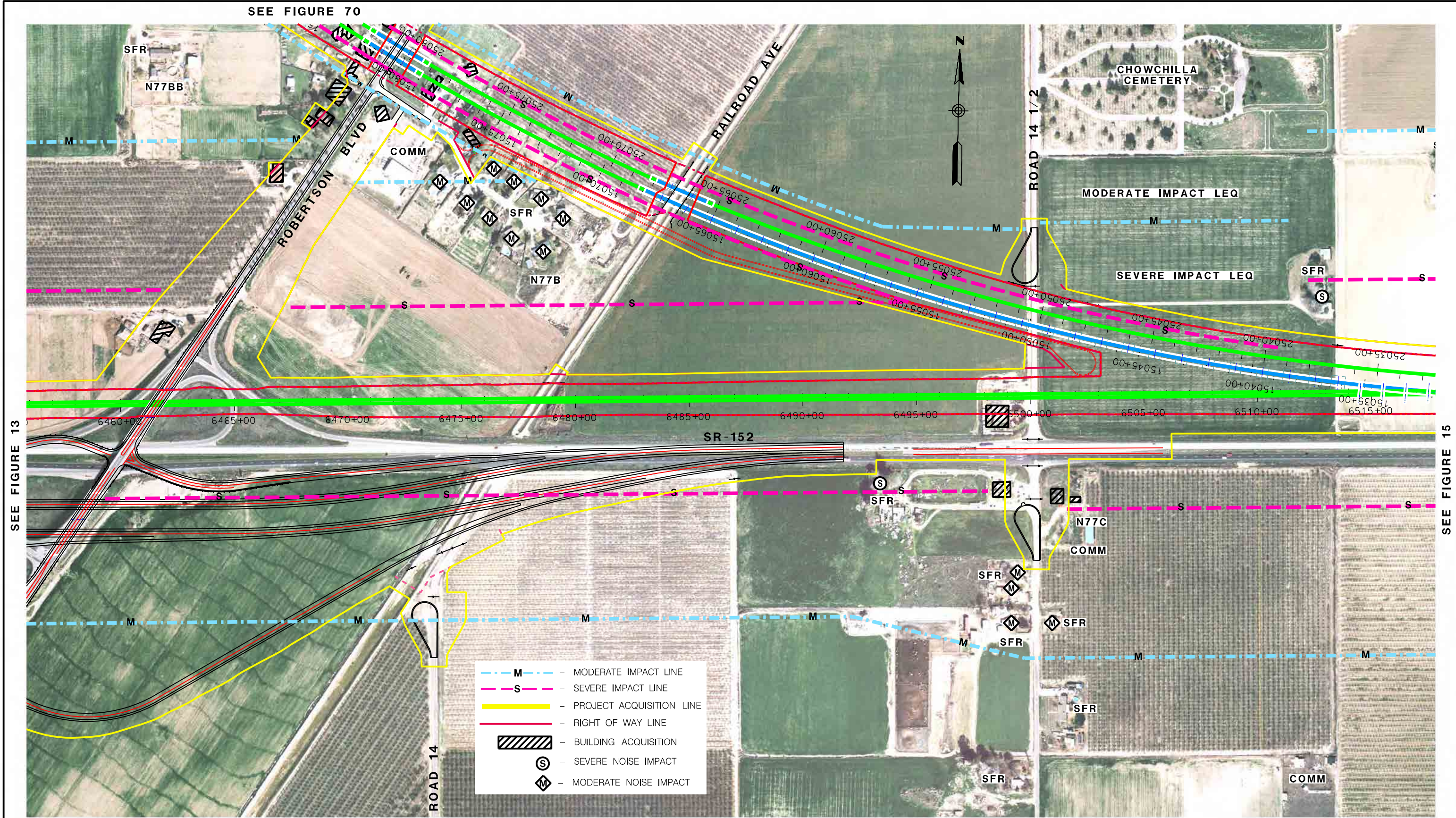


SEE FIGURE 12

SEE FIGURE 14

- M - MODERATE IMPACT LINE
- S - SEVERE IMPACT LINE
- - PROJECT ACQUISITION LINE
- - RIGHT OF WAY LINE
- BUILDING ACQUISITION
- S - SEVERE NOISE IMPACT
- M - MODERATE NOISE IMPACT

<p>LEGEND</p> <ul style="list-style-type: none"> Nxx - NOISE MEASUREMENT SITE Vxx - VIBRATION MEASUREMENT SITE - SOUNDWALL 	<ul style="list-style-type: none"> SFR OR S - SINGLE FAMILY RESIDENTIAL COMM OR C - COMMERCIAL 	<ul style="list-style-type: none"> --- - TRACK IN TRENCH --- - TRACK AT GRADE --- - TRACK ON AERIAL 	<p>1 : 400ft</p>	<p>PARSONS</p> <p>100 WEST WALNUT ST. PASADENA, CA 91124 (626) 440-6100</p>		<p>MERCED TO FRESNO SECTION: CENTRAL VALLEY WYE NOISE IMPACTS AND MITIGATION SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE</p>
					<p>OCTOBER 17, 2016</p>	<p>FIGURE 13</p>



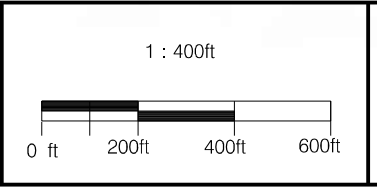
SEE FIGURE 13

SEE FIGURE 15

- M --- MODERATE IMPACT LINE
- S --- SEVERE IMPACT LINE
- --- PROJECT ACQUISITION LINE
- --- RIGHT OF WAY LINE
- BUILDING ACQUISITION
- SEVERE NOISE IMPACT
- MODERATE NOISE IMPACT

LEGEND

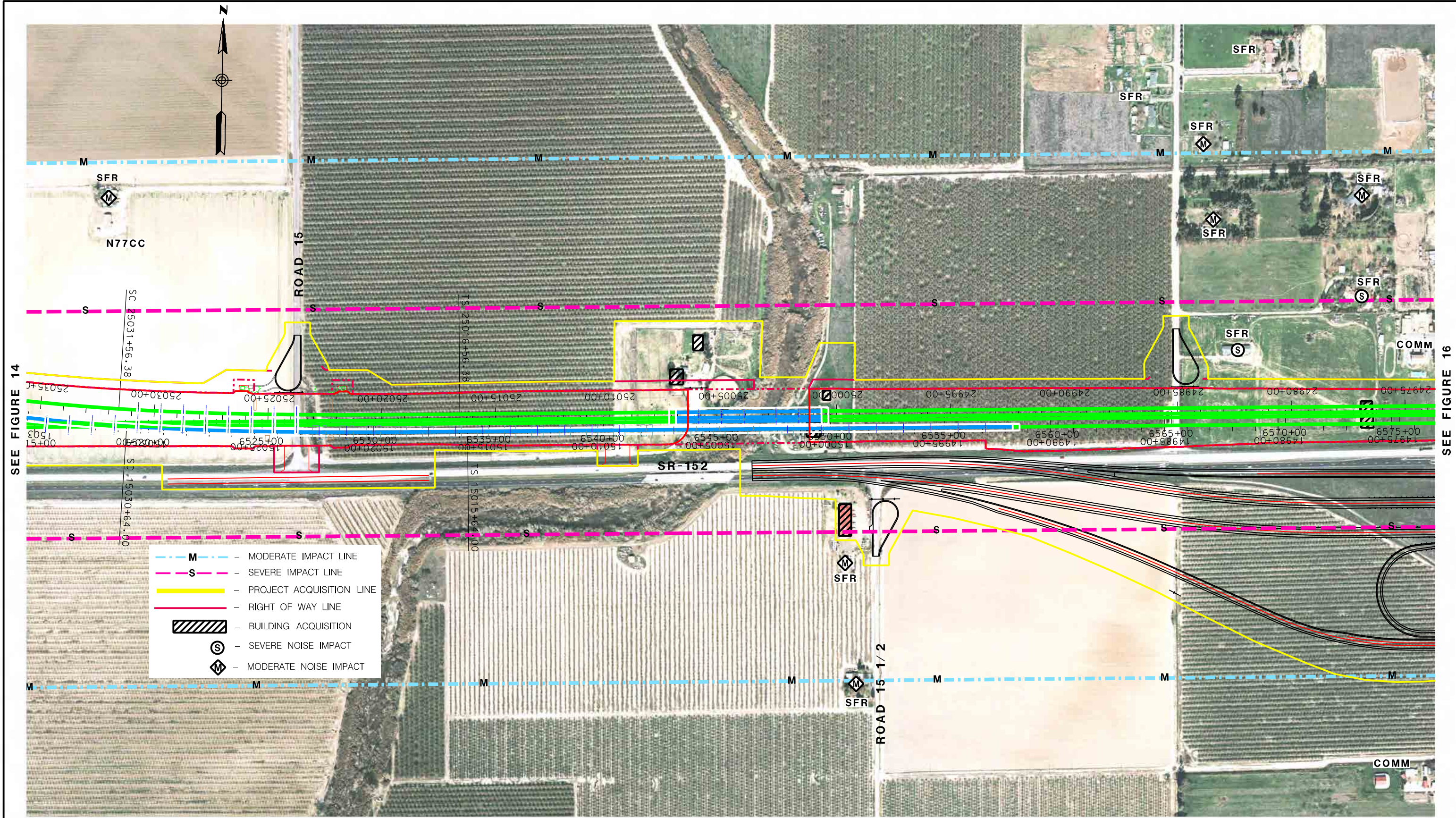
- NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	--- - TRACK IN TRENCH
- VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	--- - TRACK AT GRADE
- SOUNDWALL		--- - TRACK ON AERIAL



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 SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE**

OCTOBER 17, 2016 FIGURE 14



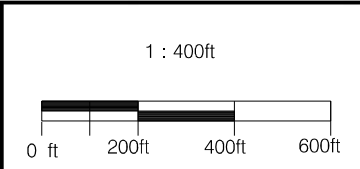
SEE FIGURE 14

SEE FIGURE 16

- M --- MODERATE IMPACT LINE
- S --- SEVERE IMPACT LINE
- --- PROJECT ACQUISITION LINE
- --- RIGHT OF WAY LINE
- BUILDING ACQUISITION
- S --- SEVERE NOISE IMPACT
- M --- MODERATE NOISE IMPACT

LEGEND

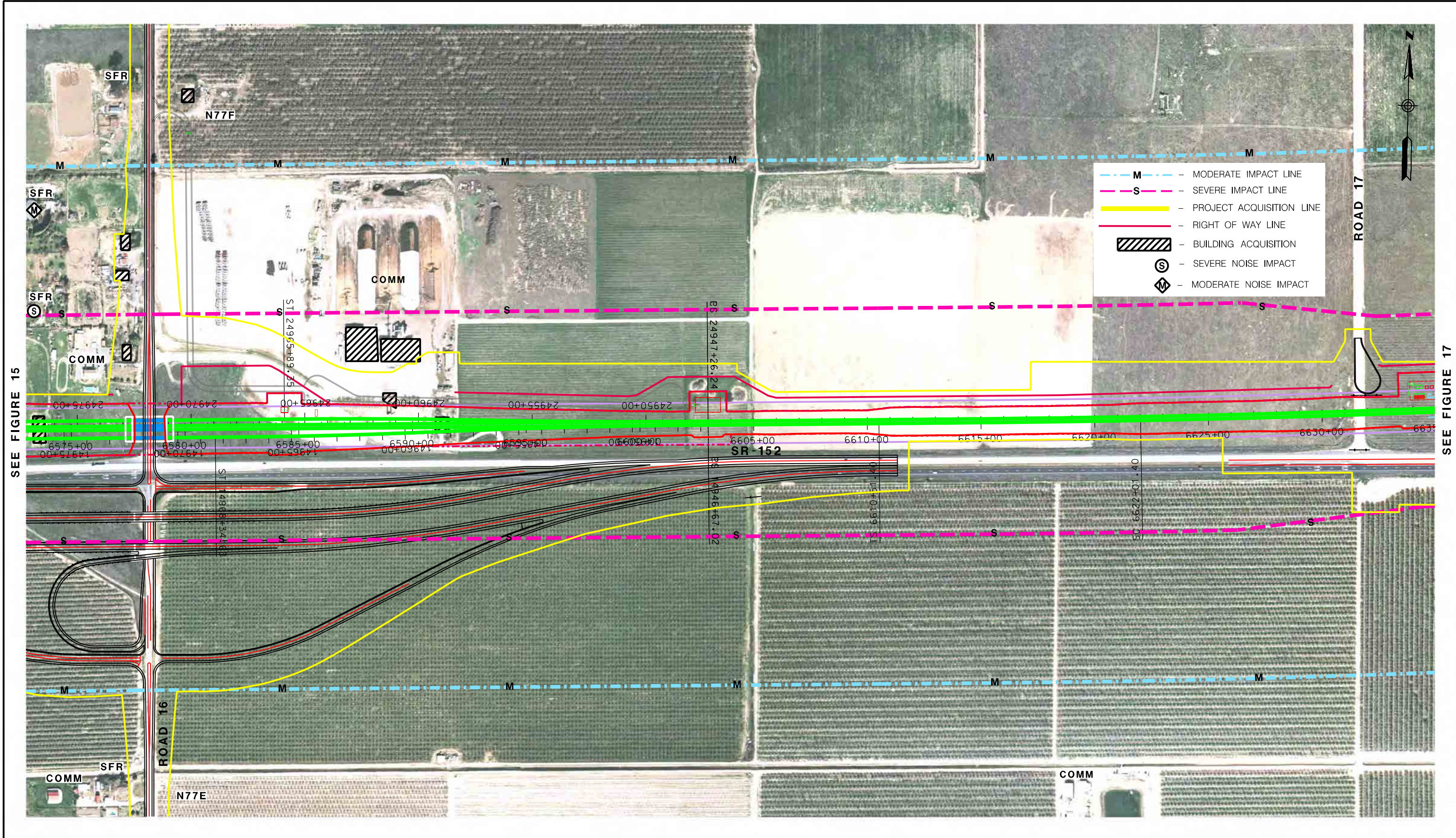
Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	--- - TRACK IN TRENCH
Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	--- - TRACK AT GRADE
 - SOUNDWALL		--- - TRACK ON AERIAL



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OCTOBER 17, 2016	FIGURE 15
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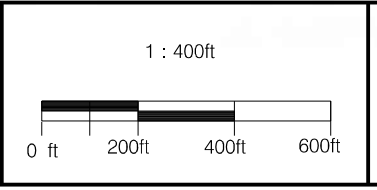


SEE FIGURE 15

SEE FIGURE 17

LEGEND

Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	- TRACK IN TRENCH
Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	- TRACK AT GRADE
- SOUNDWALL		- TRACK ON AERIAL

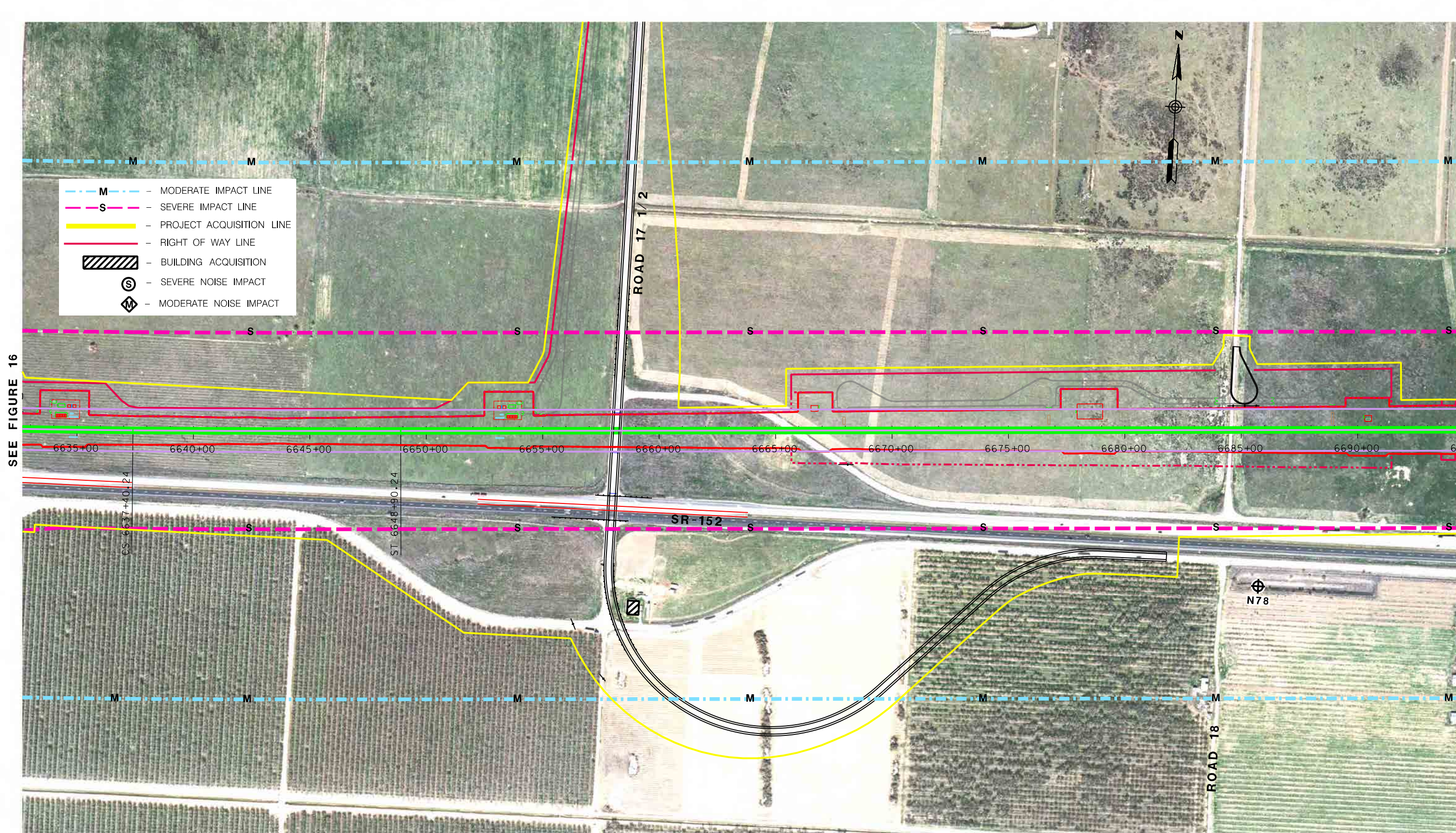


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 SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE

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FIGURE 16

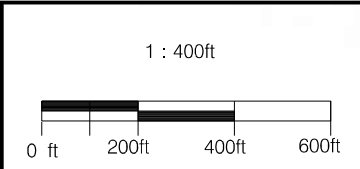


SEE FIGURE 16

SEE FIGURE 18

- M --- MODERATE IMPACT LINE
- S --- SEVERE IMPACT LINE
- --- PROJECT ACQUISITION LINE
- --- RIGHT OF WAY LINE
- ▨ --- BUILDING ACQUISITION
- ⊕ --- SEVERE NOISE IMPACT
- ⊕ --- MODERATE NOISE IMPACT

- LEGEND**
- ⊕ Nxx - NOISE MEASUREMENT SITE
 - ⊕ Vxx - VIBRATION MEASUREMENT SITE
 - - SOUNDWALL
 - SFR OR S** - SINGLE FAMILY RESIDENTIAL
 - COMM OR C** - COMMERCIAL
 - - TRACK IN TRENCH
 - - TRACK AT GRADE
 - - TRACK ON AERIAL



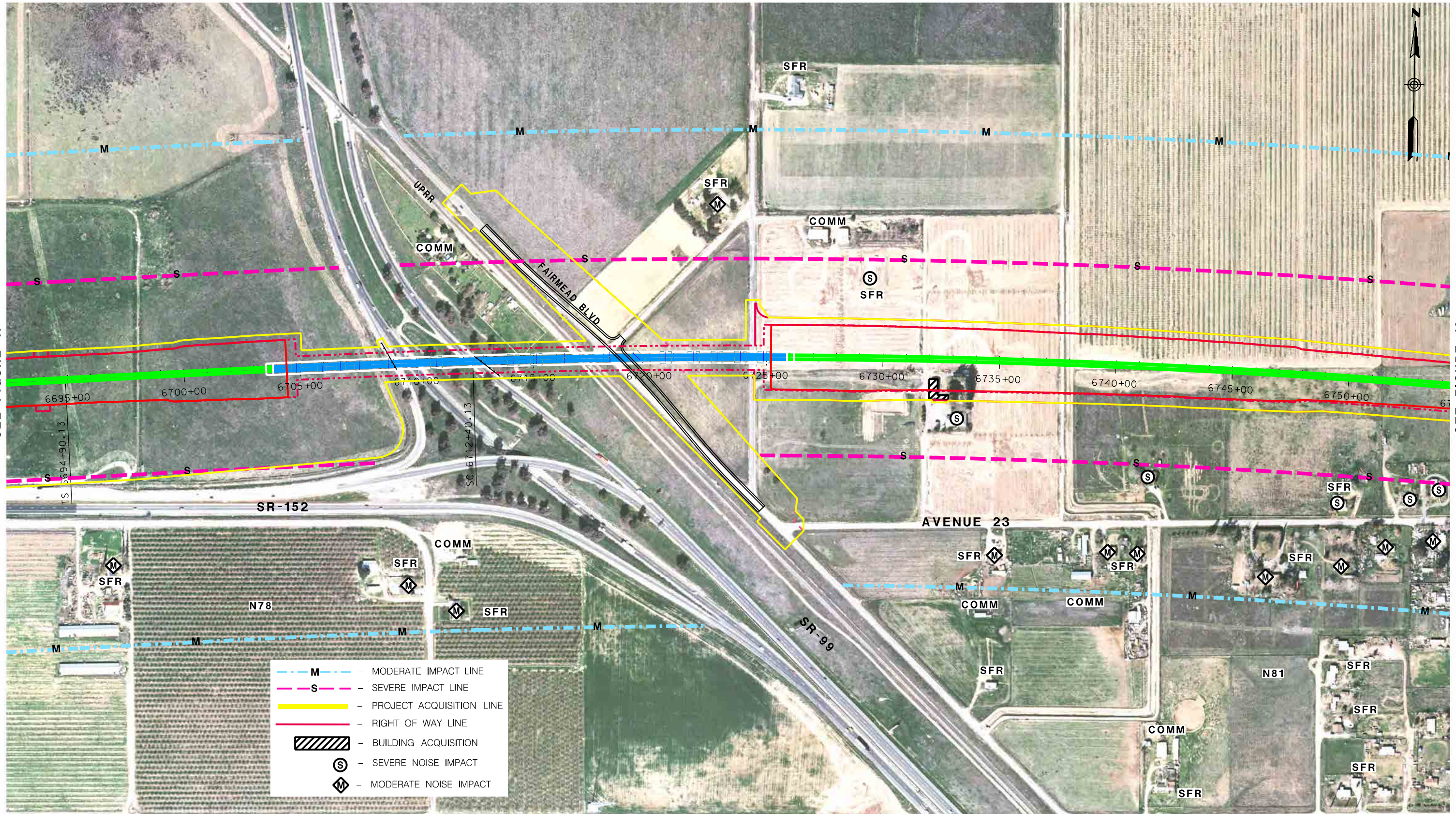
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FIGURE 17

SEE FIGURE 17

SEE FIGURE 19

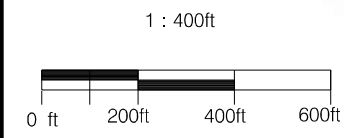


LEGEND

- ⊕ Nxx - NOISE MEASUREMENT SITE
- ⊕ Vxx - VIBRATION MEASUREMENT SITE
- SOUNDWALL

SFR OR S - SINGLE FAMILY RESIDENTIAL
 COMM OR C - COMMERCIAL

Red line - TRACK IN TRENCH
 Green line - TRACK AT GRADE
 Blue line - TRACK ON AERIAL

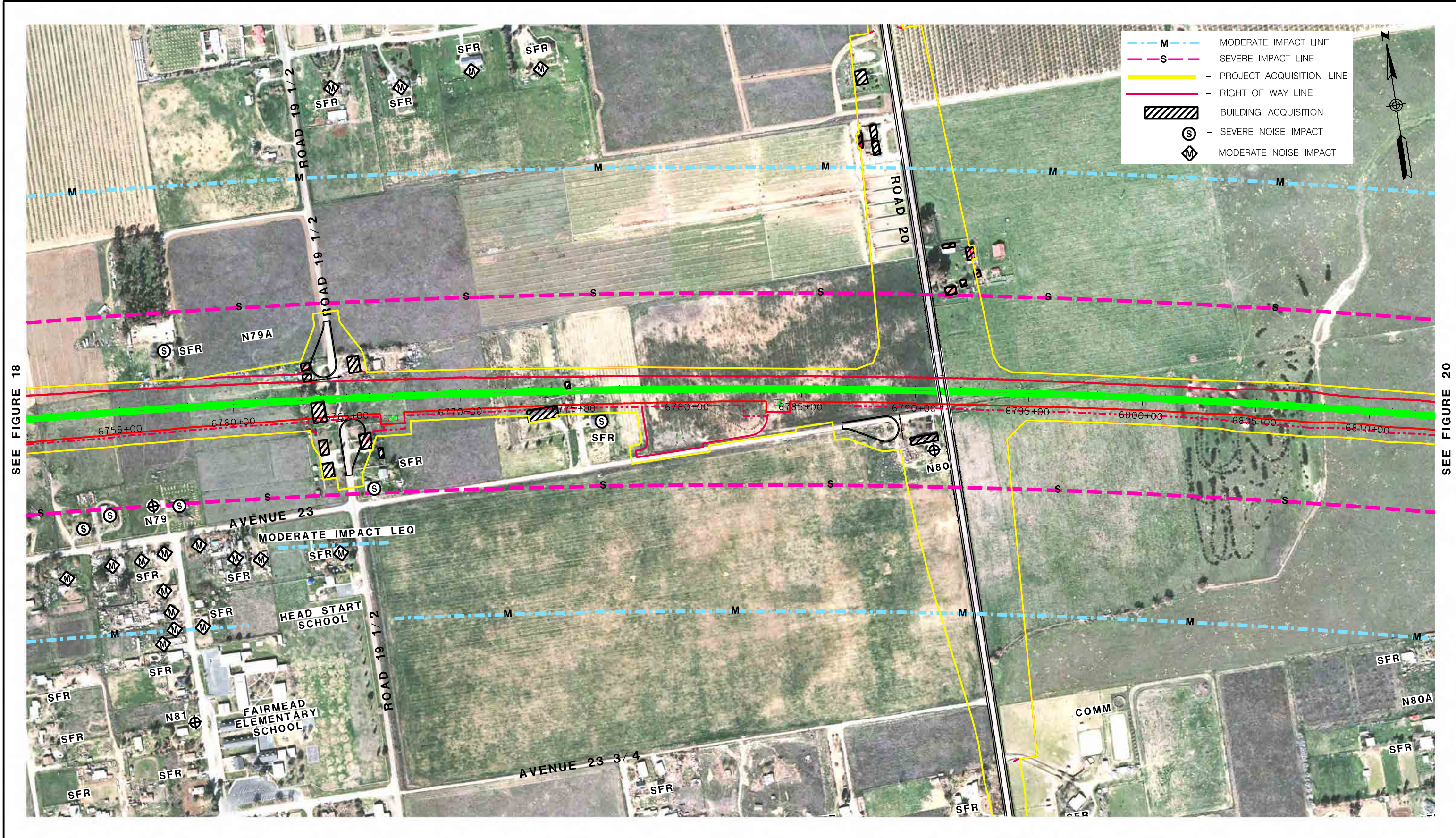


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FIGURE 18



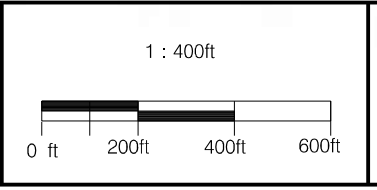
SEE FIGURE 18

SEE FIGURE 20

- M --- MODERATE IMPACT LINE
- S --- SEVERE IMPACT LINE
- --- PROJECT ACQUISITION LINE
- --- RIGHT OF WAY LINE
- BUILDING ACQUISITION
- SEVERE NOISE IMPACT
- MODERATE NOISE IMPACT

LEGEND

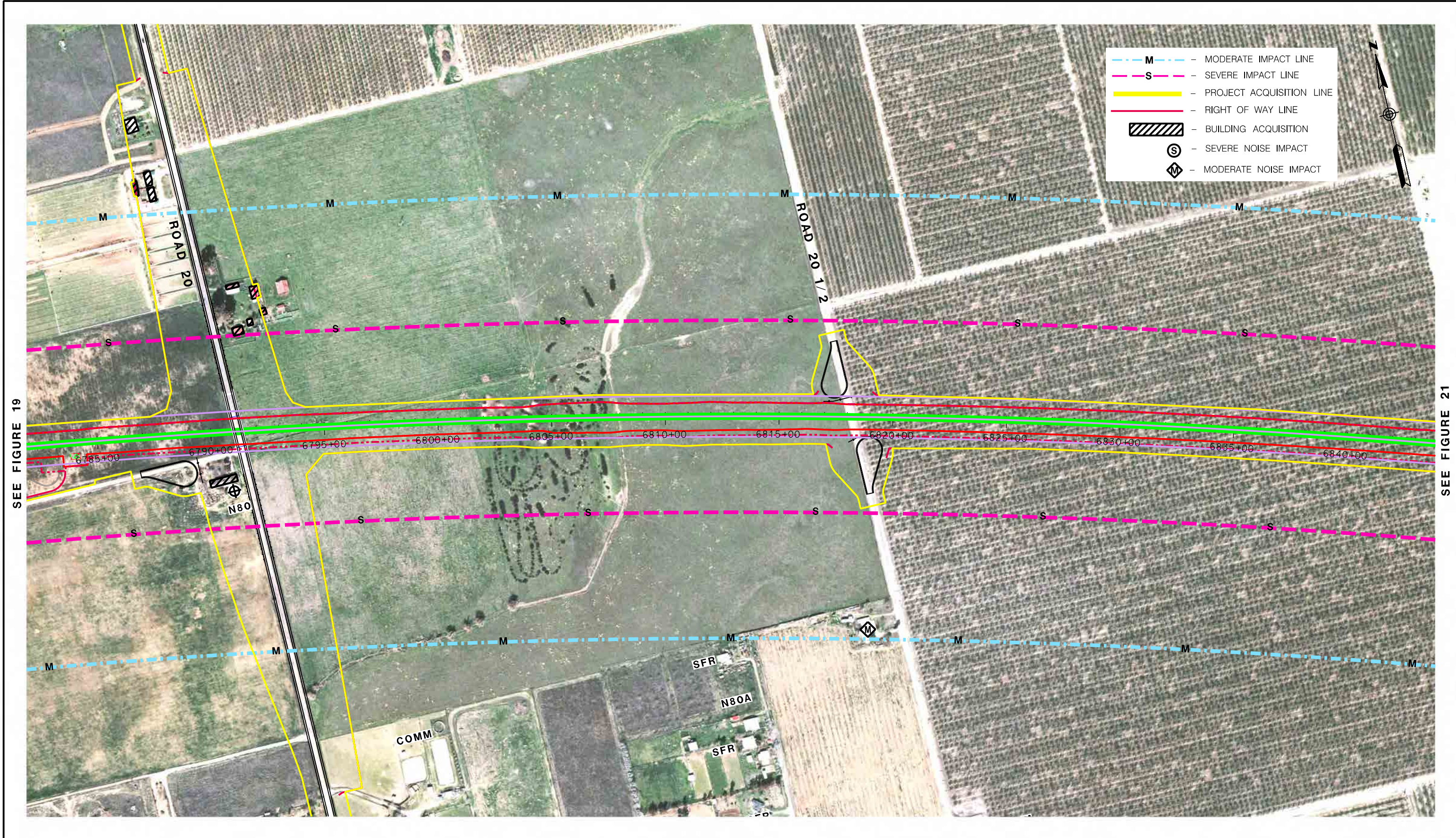
Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	--- - TRACK IN TRENCH
Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	--- - TRACK AT GRADE
- SOUNDWALL		--- - TRACK ON AERIAL



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OCTOBER 17, 2016 FIGURE 19



SEE FIGURE 19

SEE FIGURE 21

LEGEND

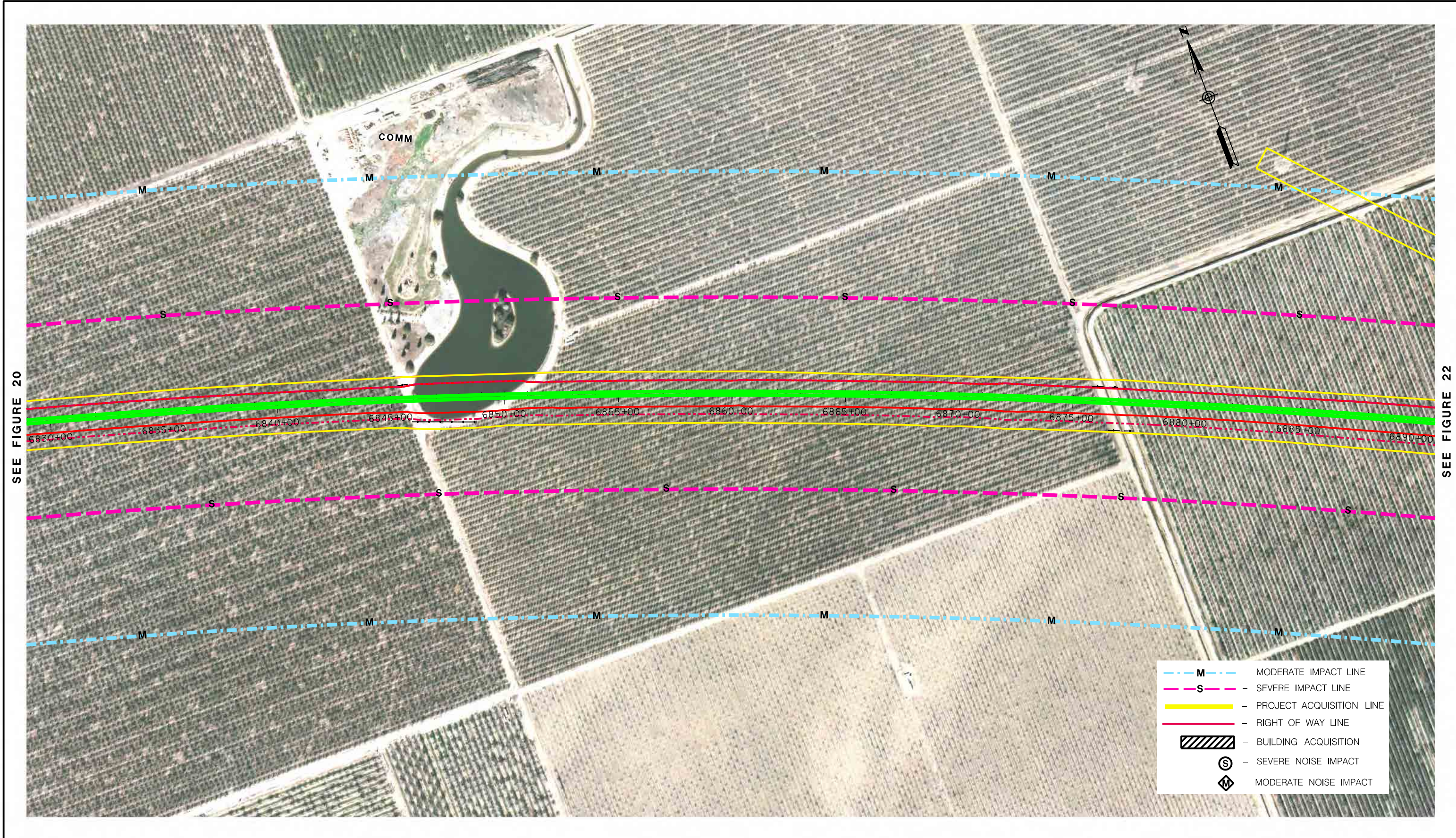
Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	- TRACK IN TRENCH
Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	- TRACK AT GRADE
- SOUNDWALL		- TRACK ON AERIAL

1 : 400ft

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 SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE

OCTOBER 17, 2016	FIGURE 20
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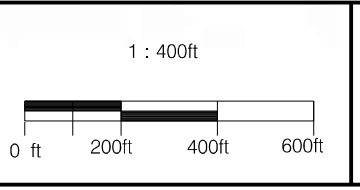
SEE FIGURE 20

SEE FIGURE 22

- M --- MODERATE IMPACT LINE
- S --- SEVERE IMPACT LINE
- --- PROJECT ACQUISITION LINE
- --- RIGHT OF WAY LINE
- BUILDING ACQUISITION
- SEVERE NOISE IMPACT
- MODERATE NOISE IMPACT

LEGEND

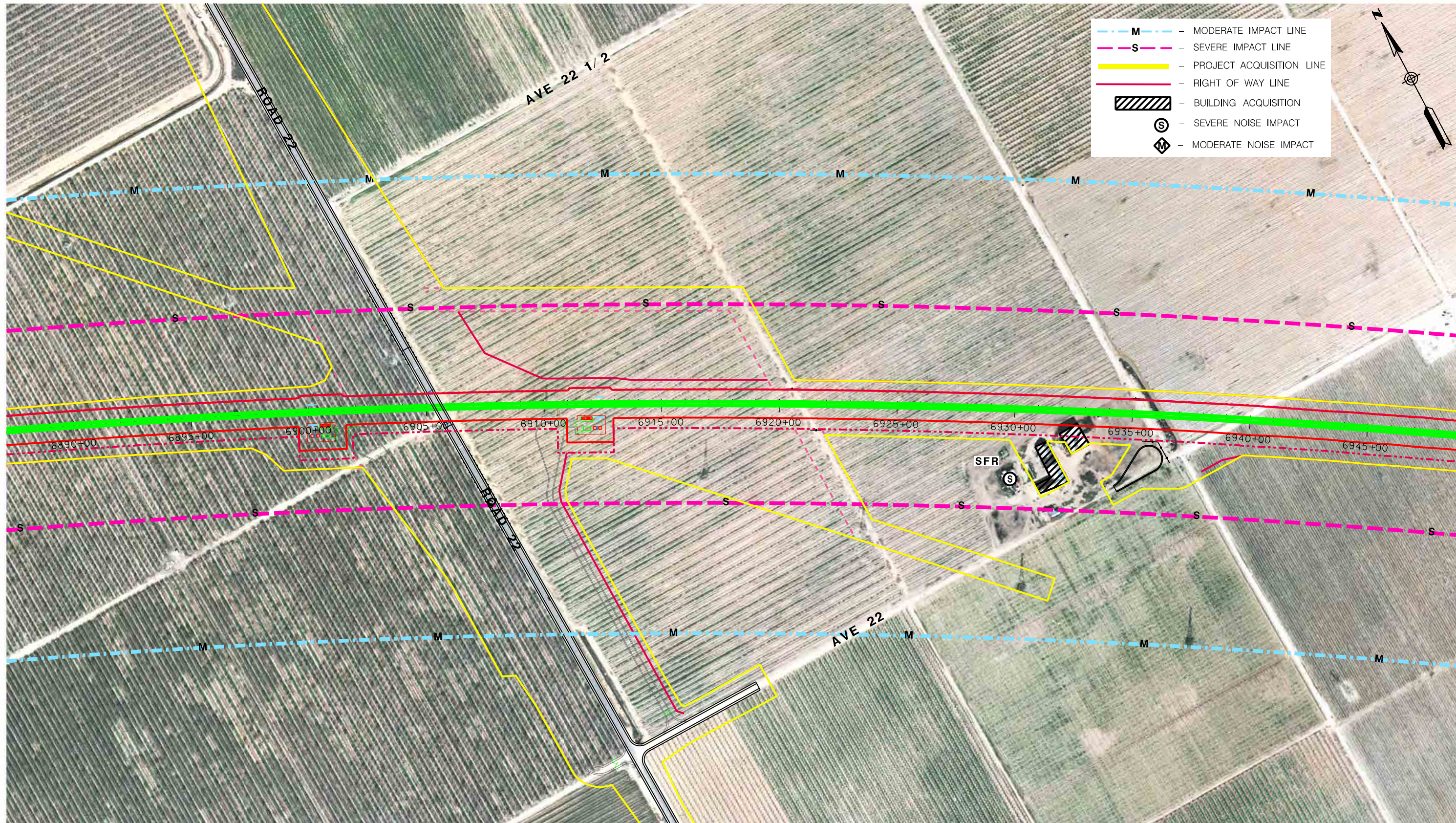
 Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	--- - TRACK IN TRENCH
 Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	--- - TRACK AT GRADE
 - SOUNDWALL		--- - TRACK ON AERIAL



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 SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE**

OCTOBER 17, 2016 FIGURE 21



SEE FIGURE 21

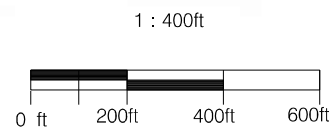
SEE FIGURE 23

LEGEND

- ⊕ Nxx - NOISE MEASUREMENT SITE
- ⊕ Vxx - VIBRATION MEASUREMENT SITE
- SOUNDWALL

- SFR OR S - SINGLE FAMILY RESIDENTIAL
- COMM OR C - COMMERCIAL

- TRACK IN TRENCH
- TRACK AT GRADE
- TRACK ON AERIAL

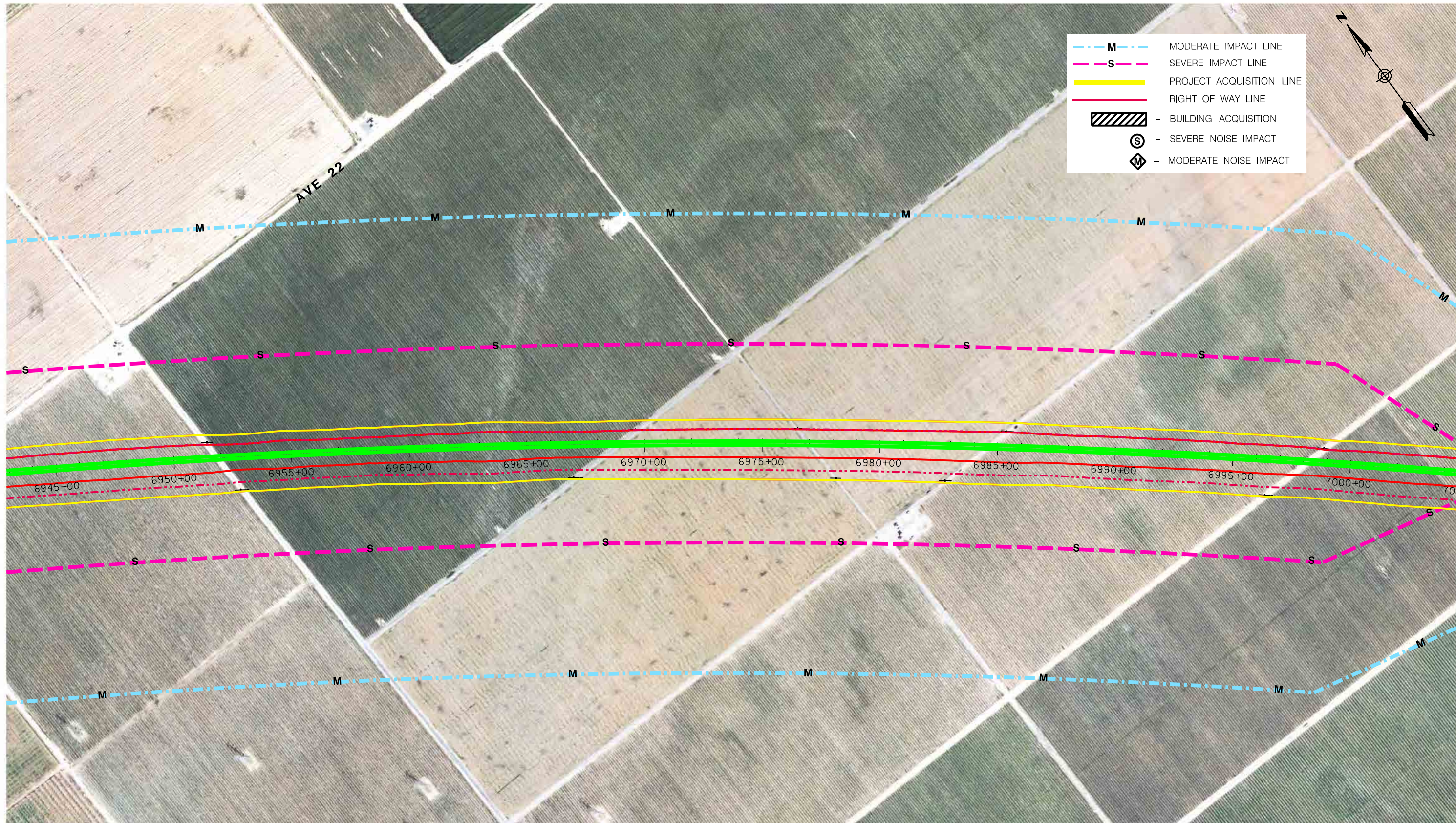


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 NOISE IMPACTS AND MITIGATION
 SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE

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FIGURE 22



SEE FIGURE 22

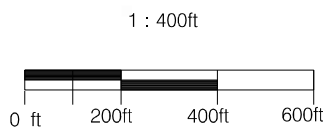
SEE FIGURE 24

LEGEND

- ⊕ Nxx - NOISE MEASUREMENT SITE
- ⊕ Vxx - VIBRATION MEASUREMENT SITE
- SOUNDWALL

- SFR OR S - SINGLE FAMILY RESIDENTIAL
- COMM OR C - COMMERCIAL

- TRACK IN TRENCH
- TRACK AT GRADE
- TRACK ON AERIAL

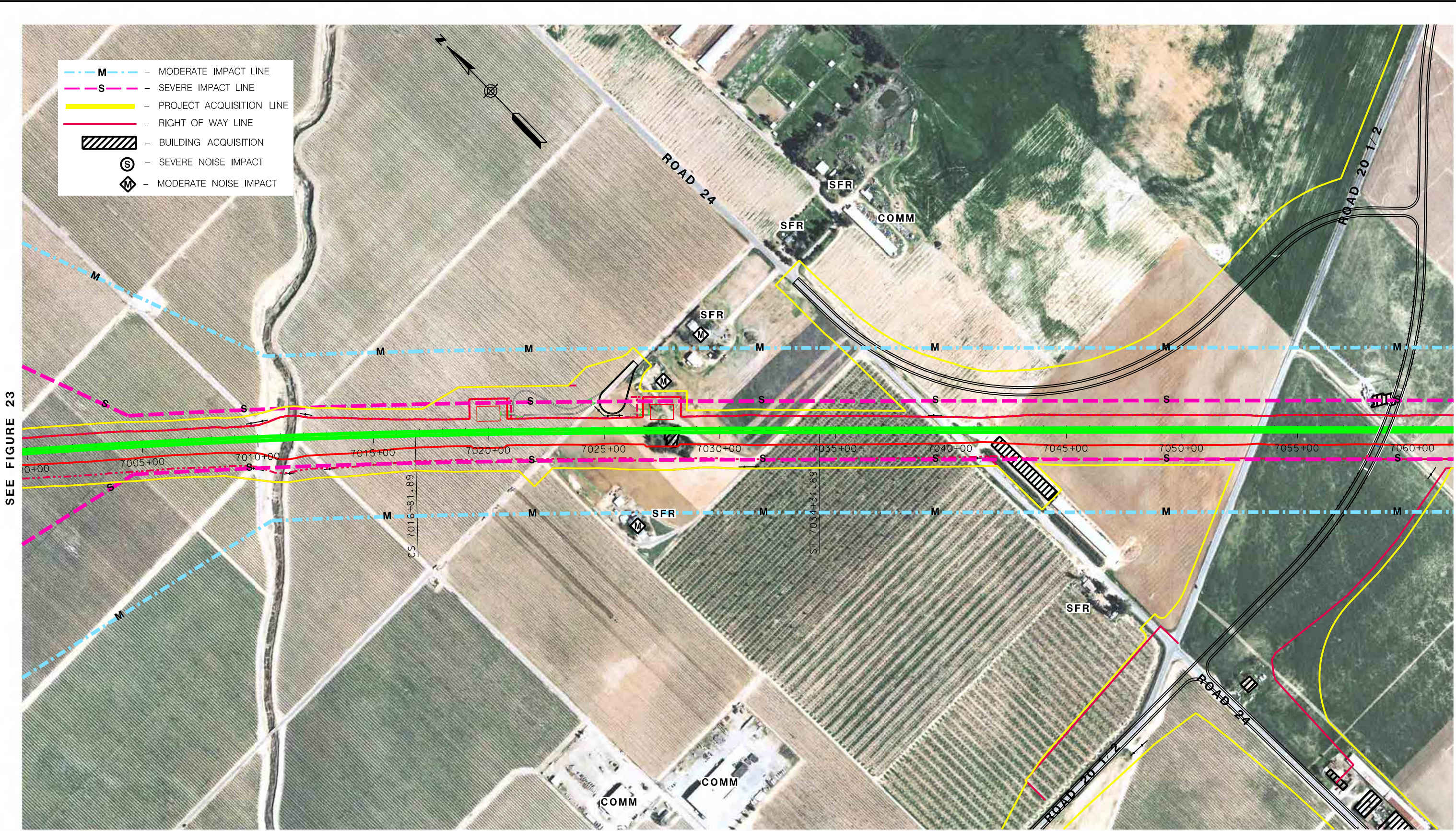


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FIGURE 23



SEE FIGURE 23

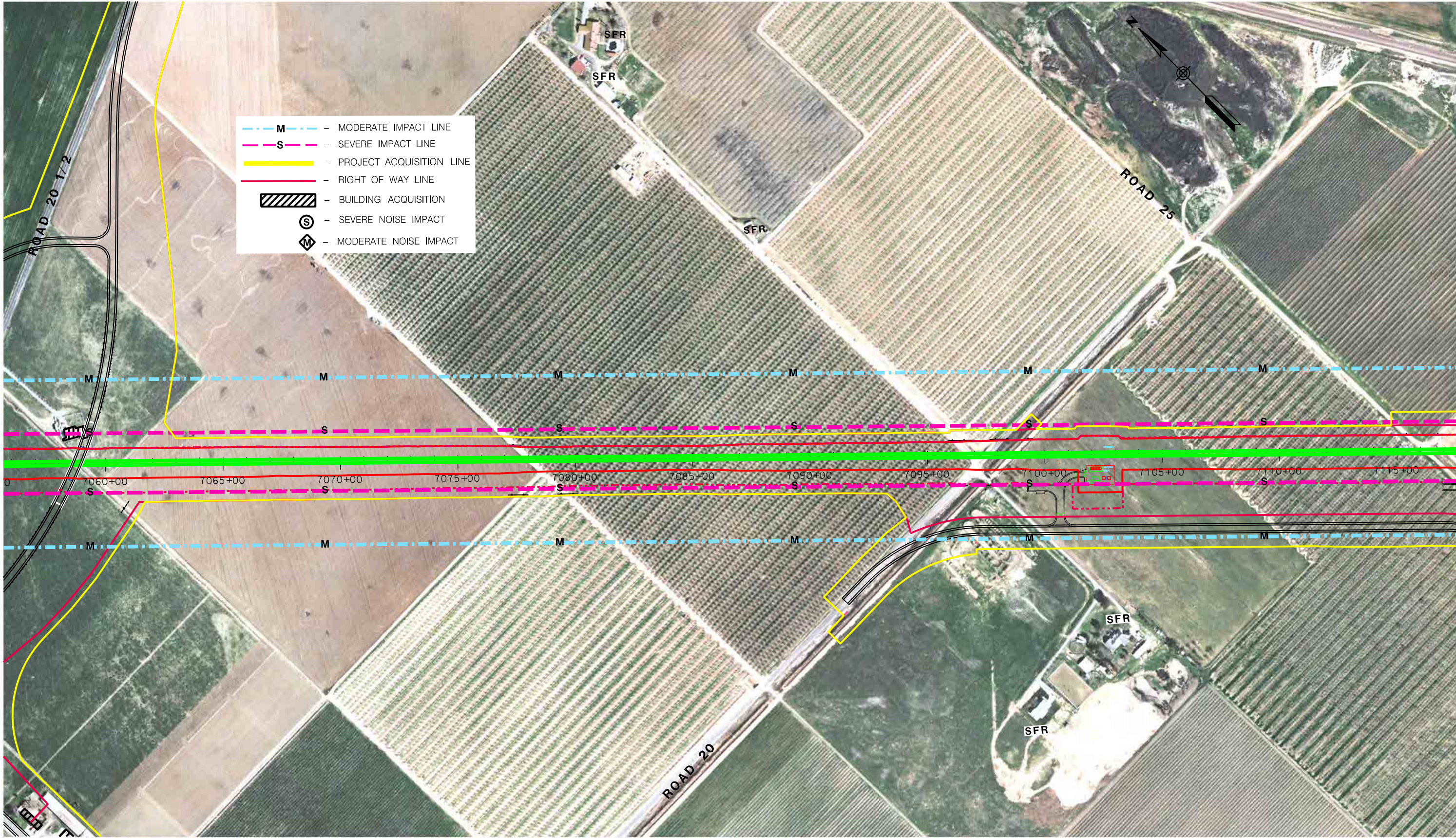
SEE FIGURE 25

<p>LEGEND</p> <ul style="list-style-type: none"> ⊕ Nxx - NOISE MEASUREMENT SITE ⊕ Vxx - VIBRATION MEASUREMENT SITE — SOUNDWALL 	<p>SFR OR S - SINGLE FAMILY RESIDENTIAL</p> <p>COMM OR C - COMMERCIAL</p>	<p>Red line - TRACK IN TRENCH</p> <p>Green line - TRACK AT GRADE</p> <p>Blue line - TRACK ON AERIAL</p>	<p>1 : 400ft</p>	<p>PARSONS</p> <p>100 WEST WALNUT ST. PASADENA, CA 91124 (626) 440-6100</p>	<p>MERCED TO FRESNO SECTION: CENTRAL VALLEY WYE NOISE IMPACTS AND MITIGATION SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE</p> <p>OCTOBER 17, 2016</p> <p>FIGURE 24</p>
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SEE FIGURE 24

SEE FIGURE 26

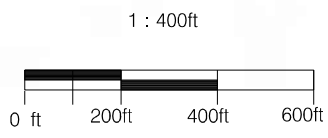
- M --- MODERATE IMPACT LINE
- S --- SEVERE IMPACT LINE
- --- PROJECT ACQUISITION LINE
- --- RIGHT OF WAY LINE
- BUILDING ACQUISITION
- SEVERE NOISE IMPACT
- MODERATE NOISE IMPACT



- LEGEND**
- NOISE MEASUREMENT SITE
 - VIBRATION MEASUREMENT SITE
 - SOUNDWALL

- SFR OR S** - SINGLE FAMILY RESIDENTIAL
- COMM OR C** - COMMERCIAL

- - TRACK IN TRENCH
- - TRACK AT GRADE
- - TRACK ON AERIAL

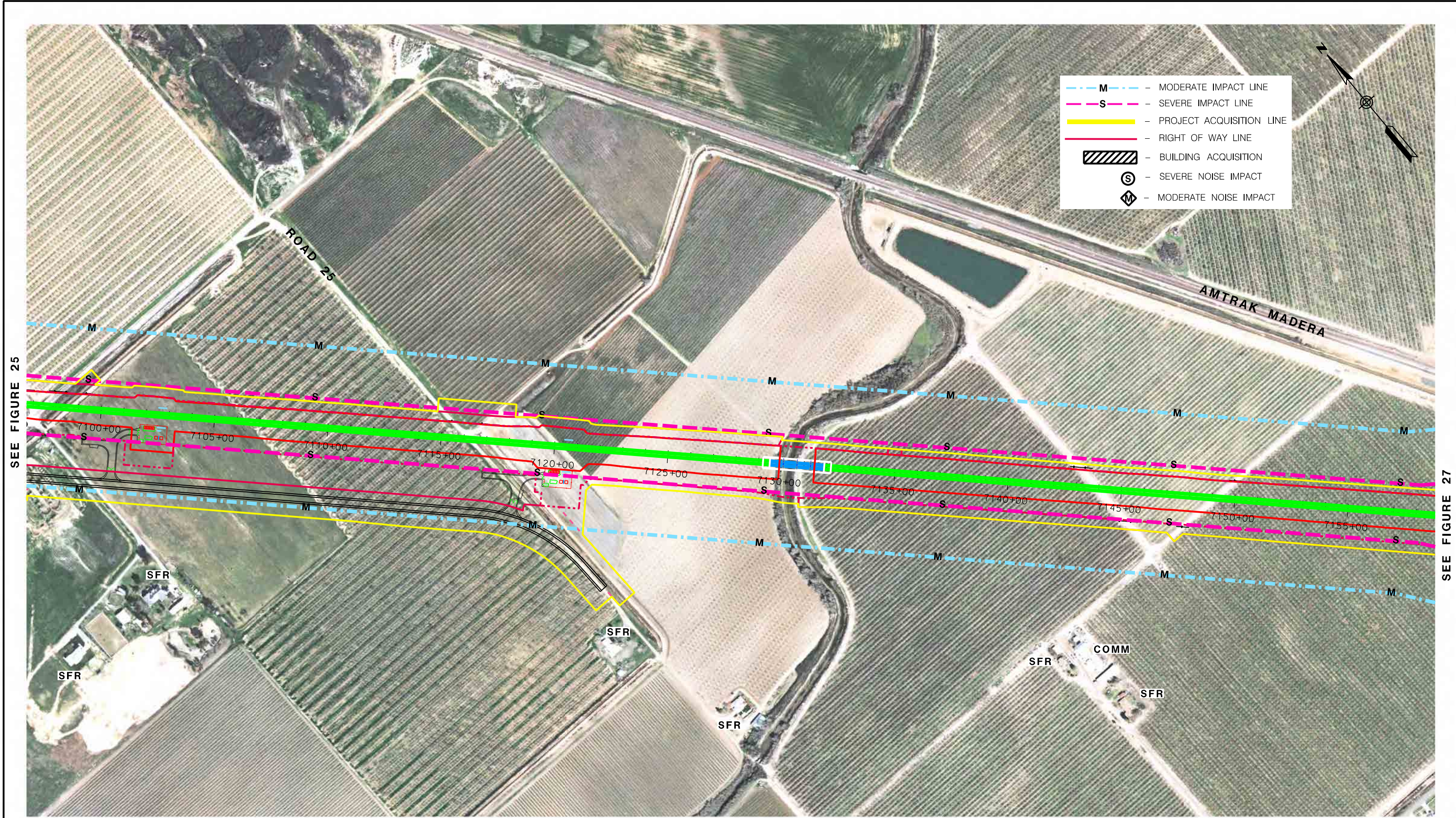


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 NOISE IMPACTS AND MITIGATION
 SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE

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FIGURE 25



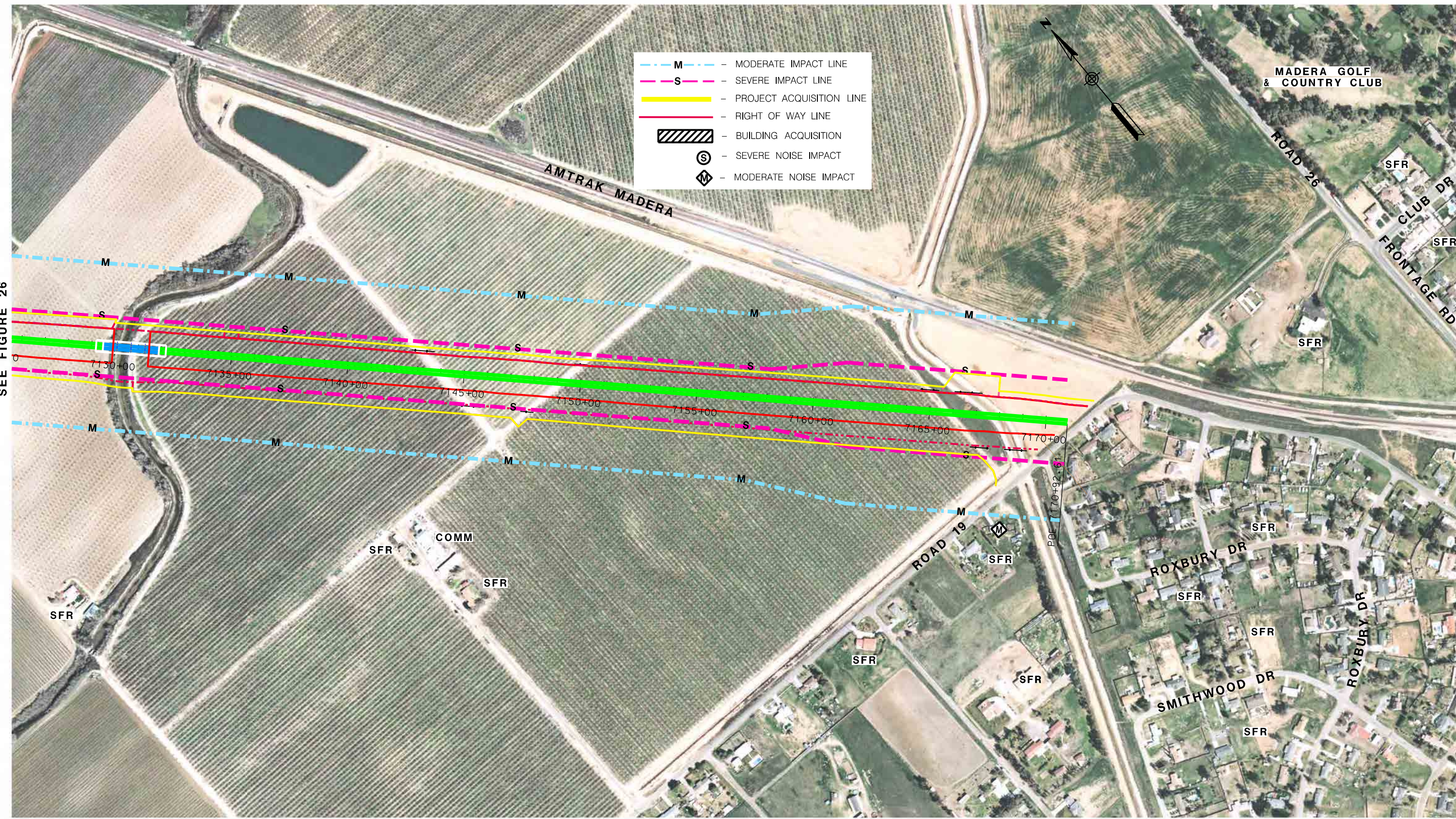
SEE FIGURE 25

SEE FIGURE 27

<p>LEGEND</p> <ul style="list-style-type: none"> ⊕ Nxx - NOISE MEASUREMENT SITE ⊕ Vxx - VIBRATION MEASUREMENT SITE —○— SOUNDWALL 	<ul style="list-style-type: none"> SFR OR S - SINGLE FAMILY RESIDENTIAL COMM OR C - COMMERCIAL 	<ul style="list-style-type: none"> — TRACK IN TRENCH — TRACK AT GRADE — TRACK ON AERIAL 	<p>1 : 400ft</p>	<p>PARSONS</p> <p>100 WEST WALNUT ST. PASADENA, CA 91124 (626) 440-6100</p>	<p>MERCED TO FRESNO SECTION: CENTRAL VALLEY WYE NOISE IMPACTS AND MITIGATION SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE</p> <p>OCTOBER 17, 2016</p> <p>FIGURE 26</p>
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SEE FIGURE 26

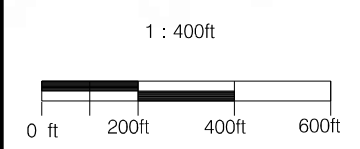
- M --- MODERATE IMPACT LINE
- S --- SEVERE IMPACT LINE
- --- PROJECT ACQUISITION LINE
- --- RIGHT OF WAY LINE
- BUILDING ACQUISITION
- SEVERE NOISE IMPACT
- MODERATE NOISE IMPACT



- LEGEND**
- NOISE MEASUREMENT SITE
 - VIBRATION MEASUREMENT SITE
 - SOUNDWALL

- SFR OR S - SINGLE FAMILY RESIDENTIAL
- COMM OR C - COMMERCIAL

- - TRACK IN TRENCH
- - TRACK AT GRADE
- - TRACK ON AERIAL

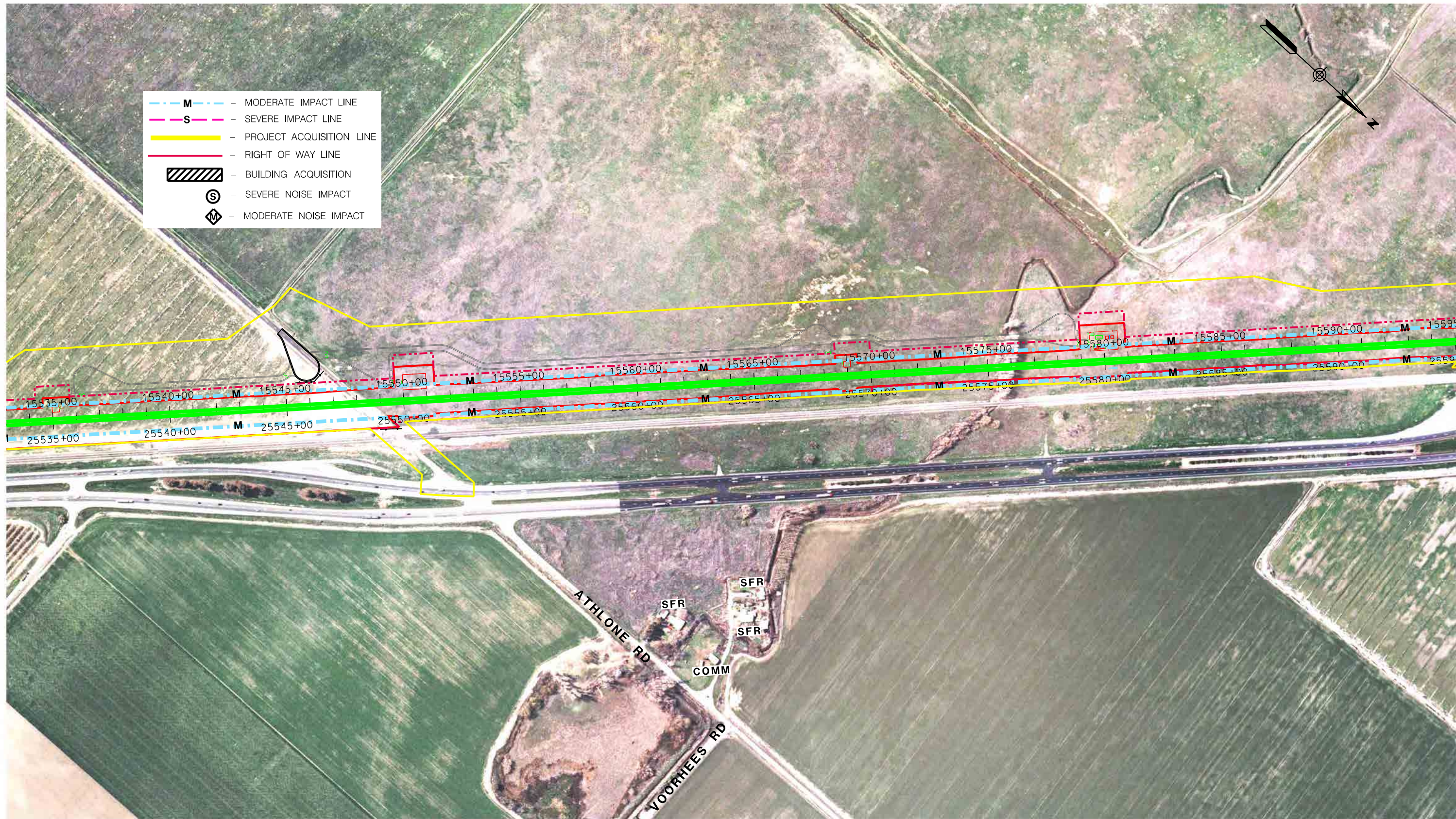


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OCTOBER 17, 2016 FIGURE 27

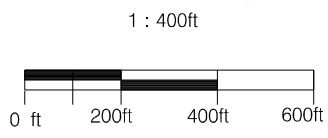
SEE FIGURE 32



LEGEND
 ⊕ Nxx - NOISE MEASUREMENT SITE
 ⊕ Vxx - VIBRATION MEASUREMENT SITE
 —○—○— SOUNDWALL

SFR OR S - SINGLE FAMILY RESIDENTIAL
 COMM OR C - COMMERCIAL

— TRACK IN TRENCH
 — TRACK AT GRADE
 — TRACK ON AERIAL



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FIGURE 31

SEE FIGURE 33

SEE FIGURE 31

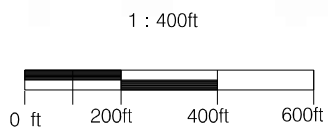


LEGEND

- NOISE MEASUREMENT SITE
- VIBRATION MEASUREMENT SITE
- SOUNDWALL

- SFR OR S** - SINGLE FAMILY RESIDENTIAL
- COMM OR C** - COMMERCIAL

- TRACK IN TRENCH
- TRACK AT GRADE
- TRACK ON AERIAL



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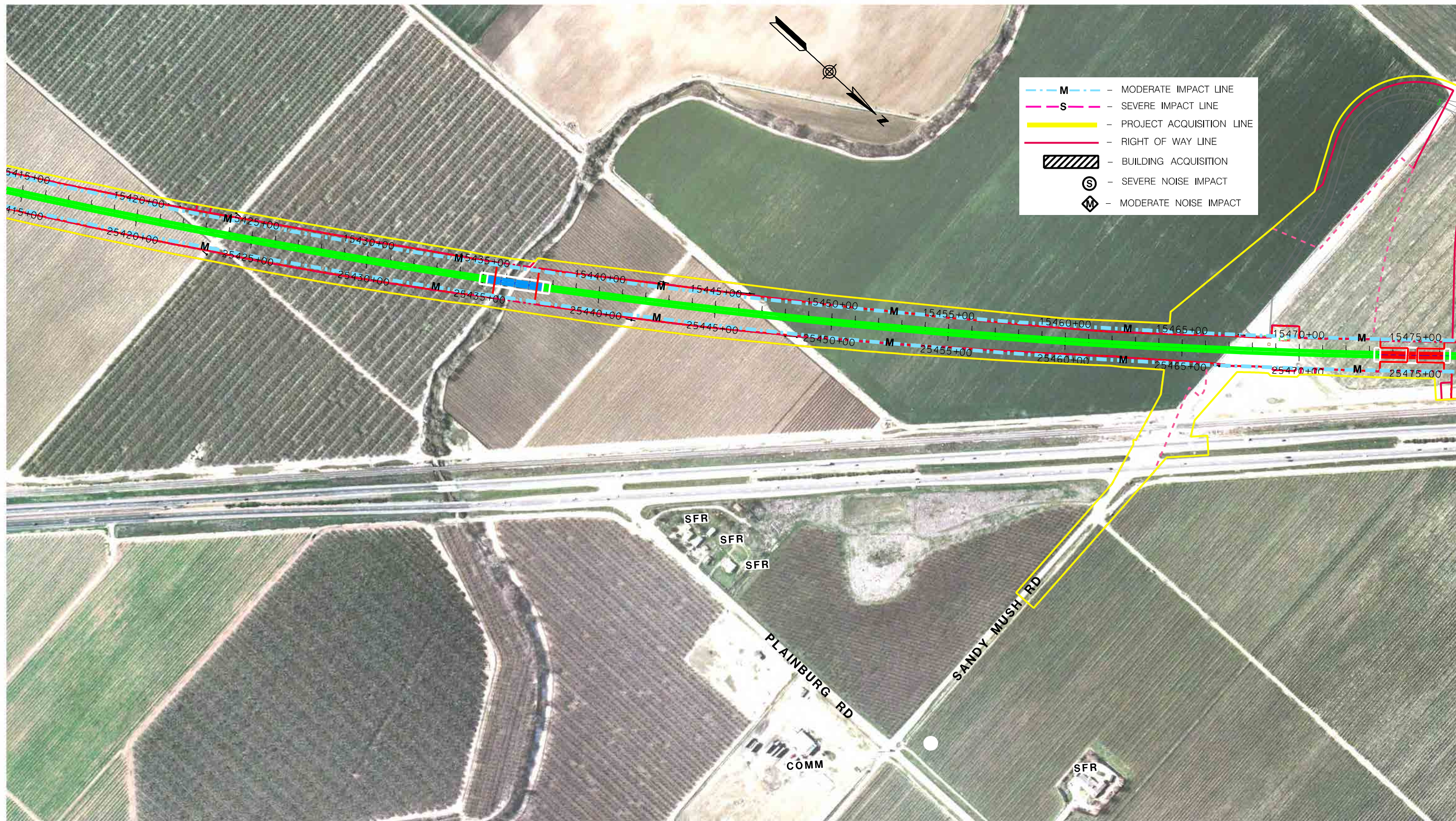
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 NOISE IMPACTS AND MITIGATION
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FIGURE 32

SEE FIGURE 63

SEE FIGURE 32



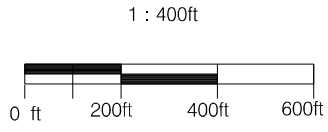
- M --- MODERATE IMPACT LINE
- S --- SEVERE IMPACT LINE
- --- PROJECT ACQUISITION LINE
- --- RIGHT OF WAY LINE
- / / / / --- BUILDING ACQUISITION
- S --- SEVERE NOISE IMPACT
- M --- MODERATE NOISE IMPACT

LEGEND

- Nxx - NOISE MEASUREMENT SITE
- Vxx - VIBRATION MEASUREMENT SITE
- SOUNDWALL

- SFR OR S** - SINGLE FAMILY RESIDENTIAL
- COMM OR C** - COMMERCIAL

- - TRACK IN TRENCH
- - TRACK AT GRADE
- - TRACK ON AERIAL



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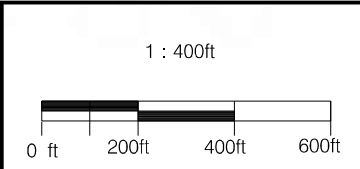
FIGURE 33

SEE FIGURE 64

SEE FIGURE 33

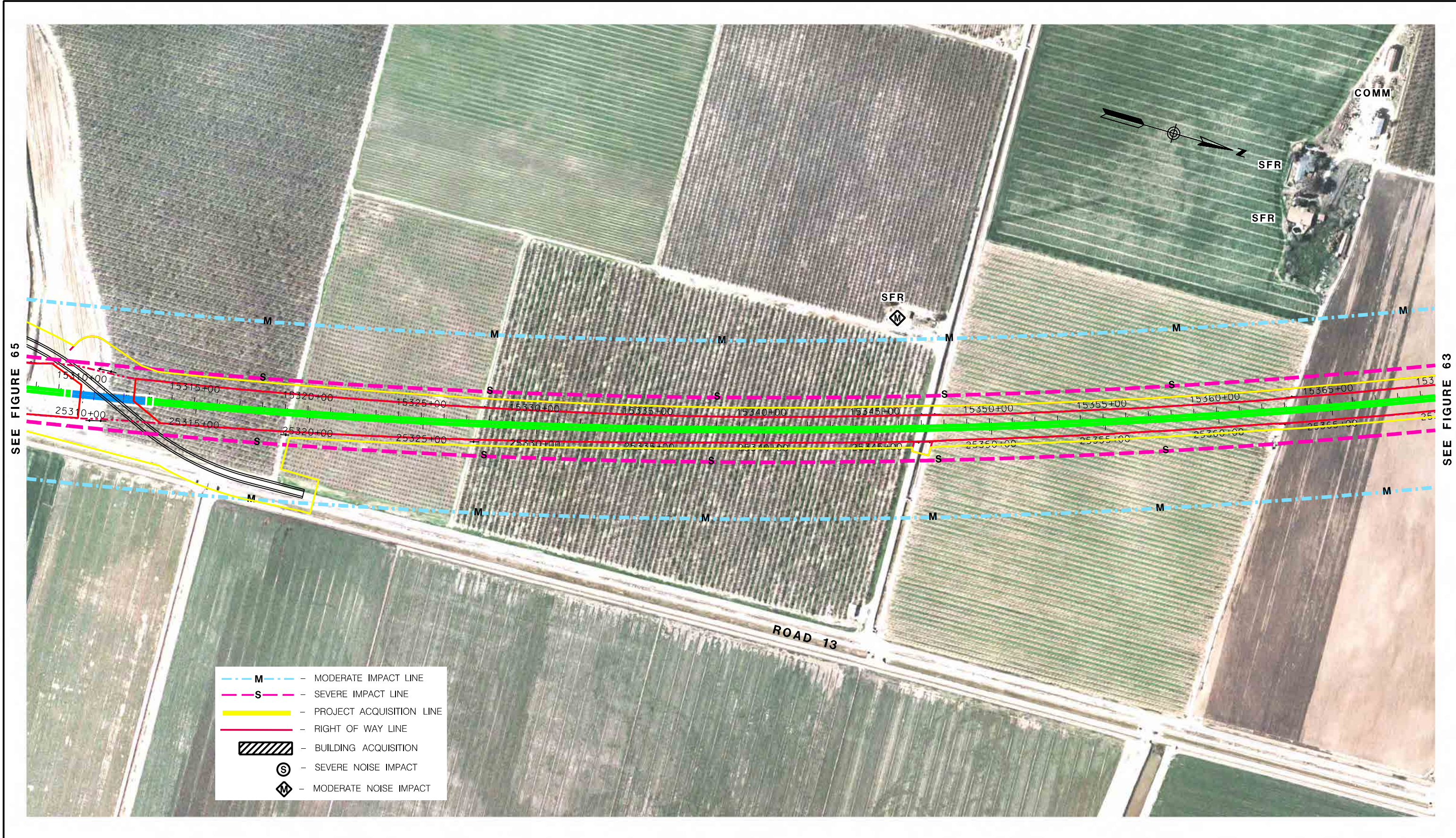


LEGEND		
	Nxx	- NOISE MEASUREMENT SITE
	Vxx	- VIBRATION MEASUREMENT SITE
		- SOUNDWALL
	SFR OR S	- SINGLE FAMILY RESIDENTIAL
	COMM OR C	- COMMERCIAL
		- TRACK IN TRENCH
		- TRACK AT GRADE
		- TRACK ON AERIAL



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 SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE
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 FIGURE 63



SEE FIGURE 65

SEE FIGURE 63

	- MODERATE IMPACT LINE
	- SEVERE IMPACT LINE
	- PROJECT ACQUISITION LINE
	- RIGHT OF WAY LINE
	- BUILDING ACQUISITION
	- SEVERE NOISE IMPACT
	- MODERATE NOISE IMPACT

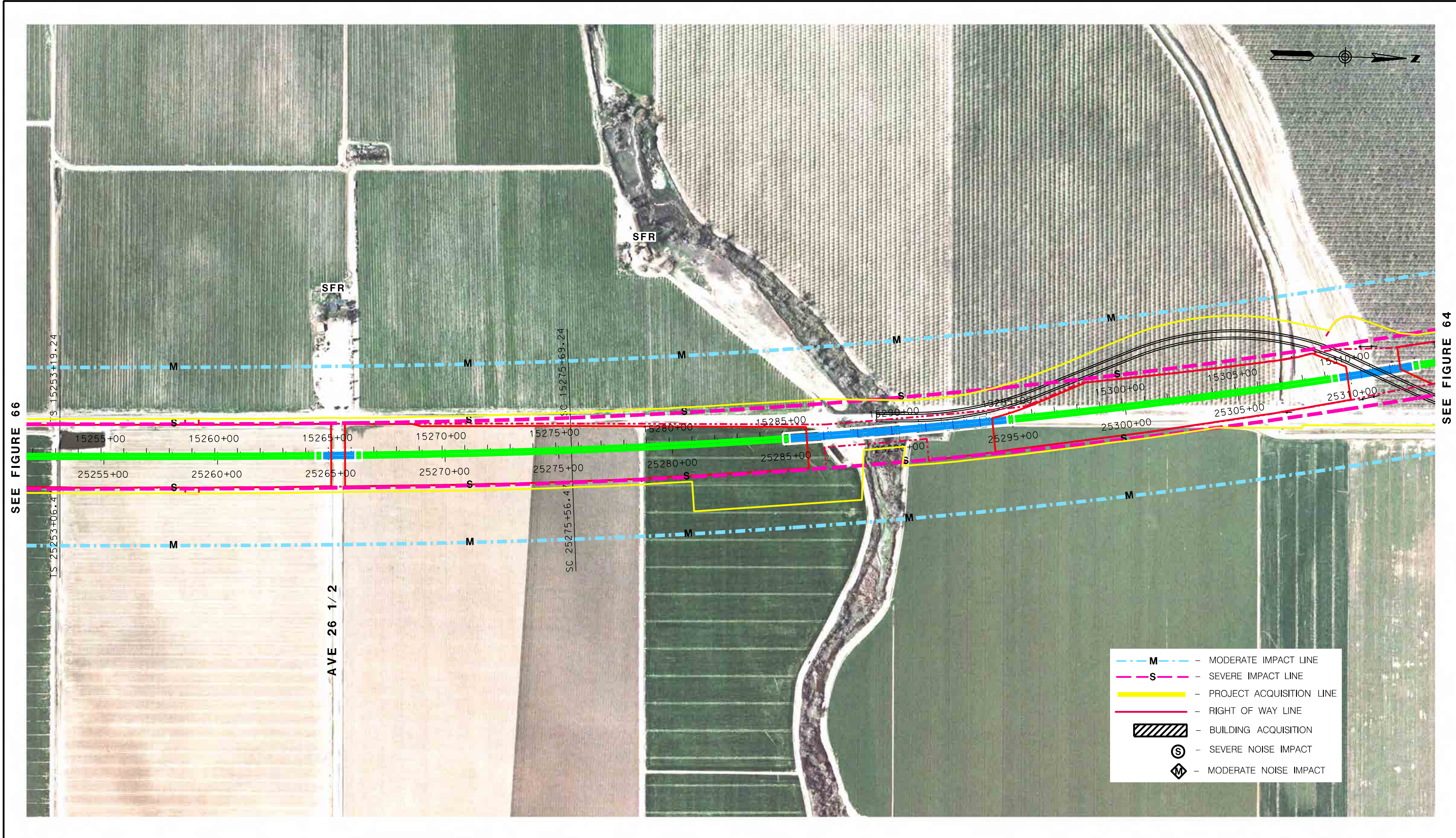
LEGEND		
	- NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL
	- VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL
	- SOUNDWALL	
		- TRACK IN TRENCH
		- TRACK AT GRADE
		- TRACK ON AERIAL

1 : 400ft

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 NOISE IMPACTS AND MITIGATION
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OCTOBER 17, 2016	FIGURE 64
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SEE FIGURE 66

SEE FIGURE 64

	- MODERATE IMPACT LINE
	- SEVERE IMPACT LINE
	- PROJECT ACQUISITION LINE
	- RIGHT OF WAY LINE
	- BUILDING ACQUISITION
	- SEVERE NOISE IMPACT
	- MODERATE NOISE IMPACT

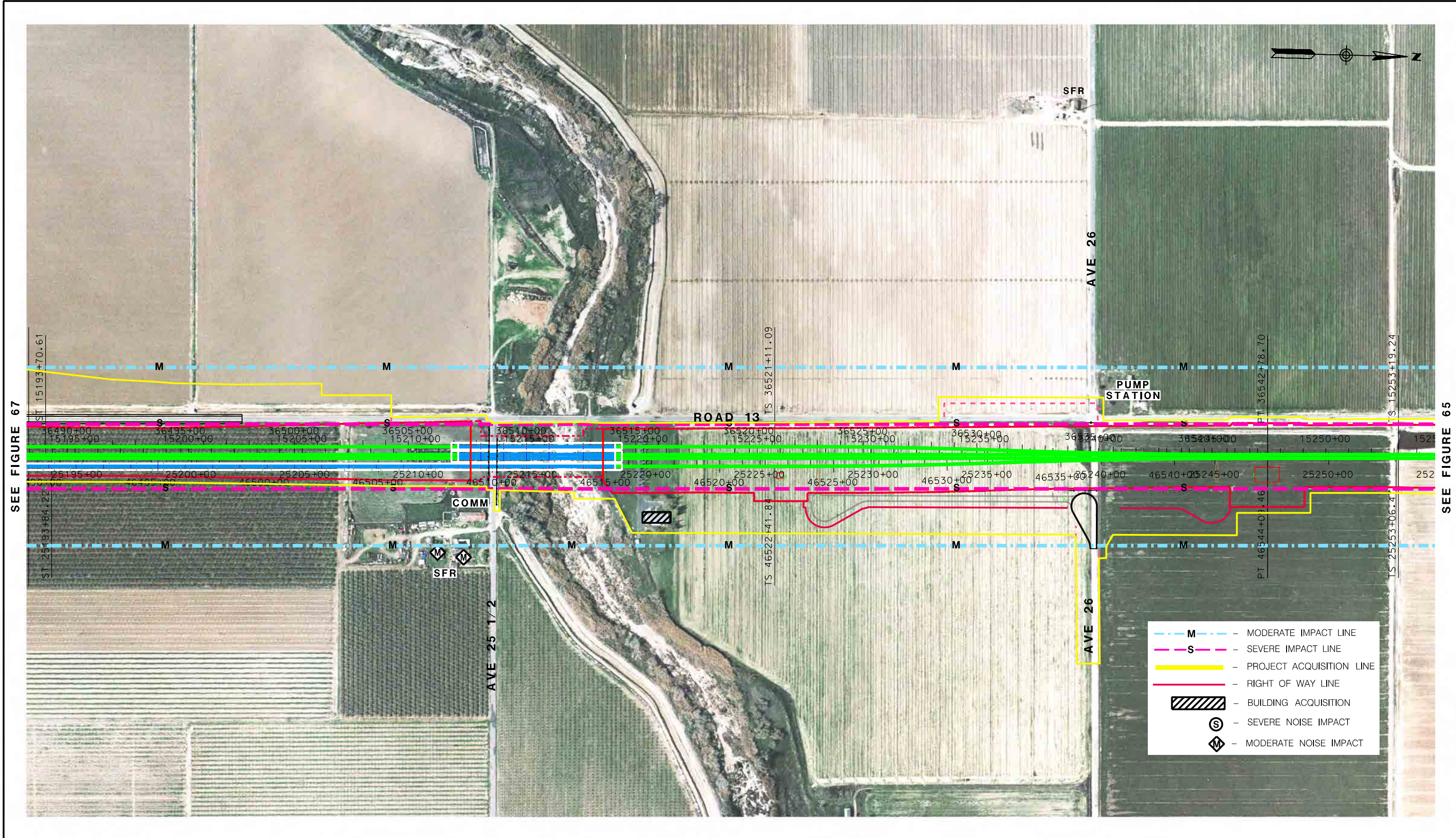
LEGEND		
	- NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL
	- VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL
	- SOUNDWALL	
		- TRACK IN TRENCH
		- TRACK AT GRADE
		- TRACK ON AERIAL

1 : 400ft

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 NOISE IMPACTS AND MITIGATION
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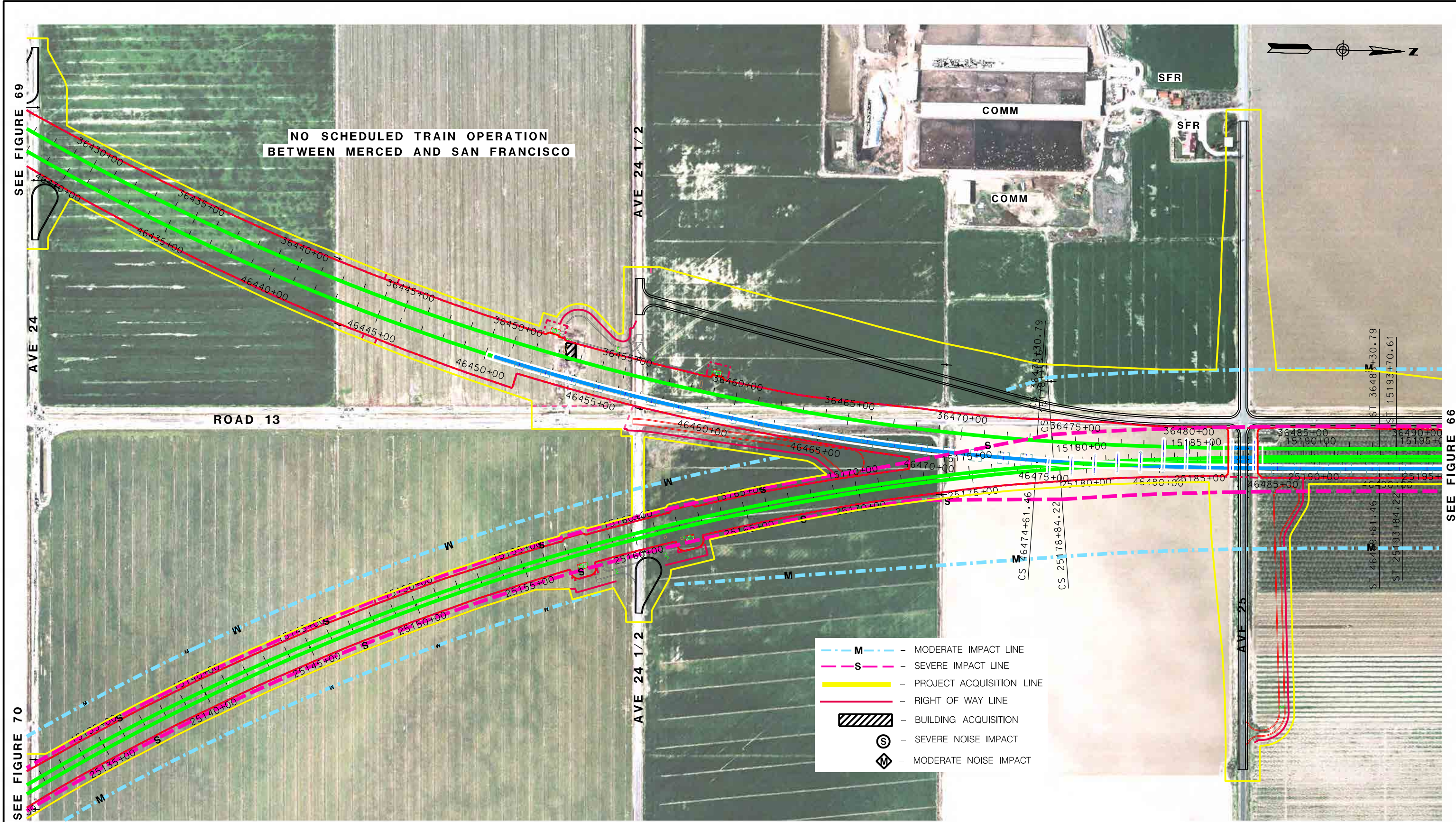
OCTOBER 17, 2016	FIGURE 65
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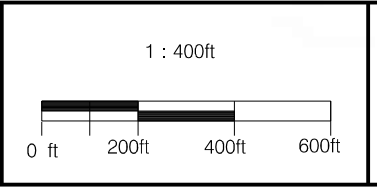
SEE FIGURE 67

SEE FIGURE 65

<p>LEGEND</p> <ul style="list-style-type: none"> ⊕ Nxx - NOISE MEASUREMENT SITE ⊕ Vxx - VIBRATION MEASUREMENT SITE —○— SOUNDWALL 	<p>SFR OR S - SINGLE FAMILY RESIDENTIAL</p> <p>COMM OR C - COMMERCIAL</p>	<ul style="list-style-type: none"> — TRACK IN TRENCH — TRACK AT GRADE — TRACK ON AERIAL 	<p>1 : 400ft</p>	<p>PARSONS</p> <p>100 WEST WALNUT ST. PASADENA, CA 91124 (626) 440-6100</p>	<p>MERCED TO FRESNO SECTION: CENTRAL VALLEY WYE NOISE IMPACTS AND MITIGATION SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE</p> <p>OCTOBER 17, 2016</p> <p>FIGURE 66</p>
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LEGEND		
	Nxx	- NOISE MEASUREMENT SITE
	Vxx	- VIBRATION MEASUREMENT SITE
		- SOUNDWALL
	SFR OR S	- SINGLE FAMILY RESIDENTIAL
	COMM OR C	- COMMERCIAL
		- TRACK IN TRENCH
		- TRACK AT GRADE
		- TRACK ON AERIAL



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OCTOBER 17, 2016 FIGURE 67

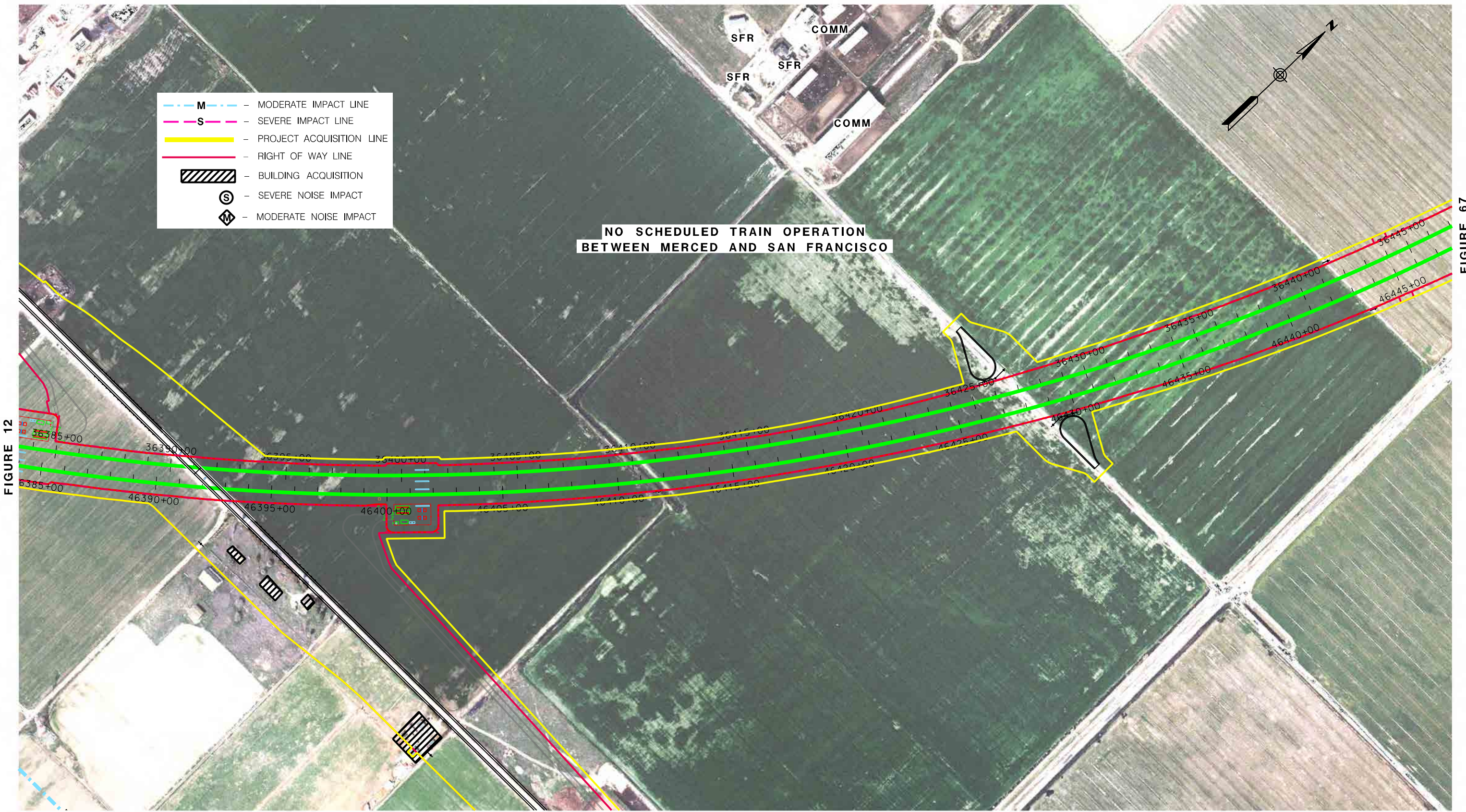


FIGURE 12

FIGURE 67

NO SCHEDULED TRAIN OPERATION
BETWEEN MERCED AND SAN FRANCISCO

<p>LEGEND</p> <ul style="list-style-type: none"> ⊕ Nxx - NOISE MEASUREMENT SITE ⊕ Vxx - VIBRATION MEASUREMENT SITE —○—○— SOUNDWALL 	<p>SFR OR S - SINGLE FAMILY RESIDENTIAL</p> <p>COMM OR C - COMMERCIAL</p>	<ul style="list-style-type: none"> — TRACK IN TRENCH — TRACK AT GRADE — TRACK ON AERIAL 	<p>1 : 400ft</p>	<p>PARSONS</p> <p>100 WEST WALNUT ST. PASADENA, CA 91124 (626) 440-6100</p>	<p>MERCED TO FRESNO SECTION: CENTRAL VALLEY WYE NOISE IMPACTS AND MITIGATION SR 152 (NORTH) TO ROAD 13 WYE ALTERNATIVE</p> <p>OCTOBER 17, 2016</p> <p>FIGURE 69</p>
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FIGURE 14

FIGURE 67

LEGEND

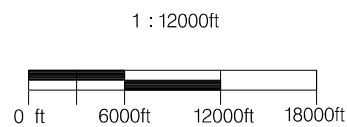
Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	- TRACK IN TRENCH
Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	- TRACK AT GRADE
- SOUNDWALL		- TRACK ON AERIAL

1 : 400ft

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OCTOBER 17, 2016 FIGURE 70



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KEY MAP

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NOISE IMPACTS AND MITIGATION
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE

OCTOBER 17, 2016

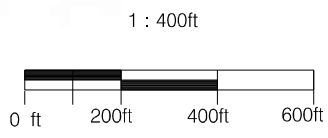


SEE FIGURE 2B

LEGEND
 ⊕ Nxx - NOISE MEASUREMENT SITE
 ⊕ Vxx - VIBRATION MEASUREMENT SITE
 —○— SOUNDWALL

SFR OR S - SINGLE FAMILY RESIDENTIAL
 COMM OR C - COMMERCIAL

— TRACK IN TRENCH
 — TRACK IN TUNNEL
 — TRACK AT GRADE
 — TRACK ON AERIAL



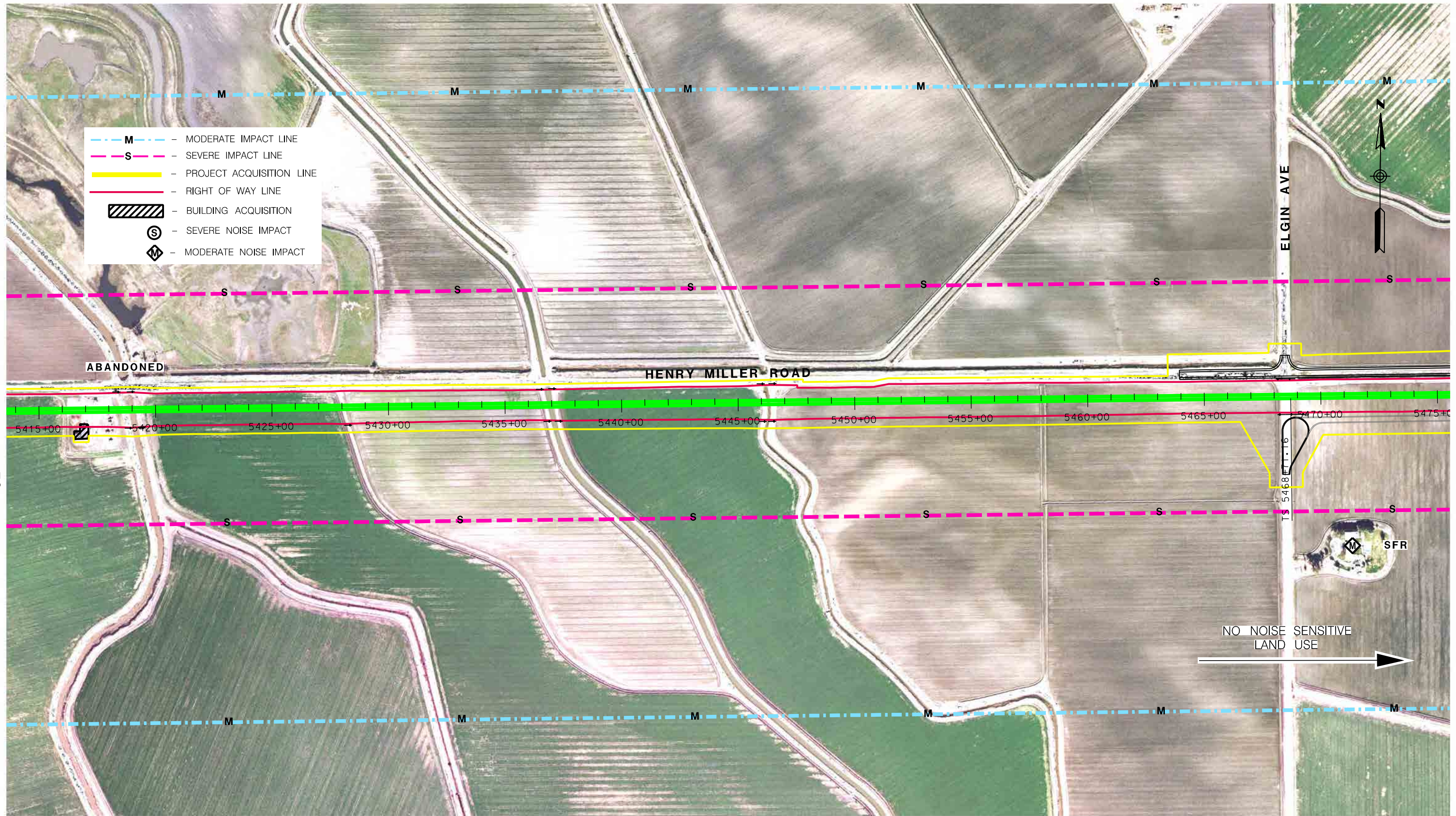
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 NOISE IMPACTS AND MITIGATION
 SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE**

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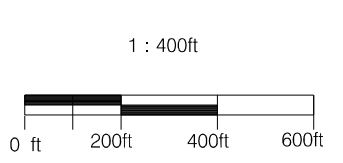
FIGURE 1B

SEE FIGURE 1B



- M --- MODERATE IMPACT LINE
- S --- SEVERE IMPACT LINE
- --- PROJECT ACQUISITION LINE
- --- RIGHT OF WAY LINE
- BUILDING ACQUISITION
- S --- SEVERE NOISE IMPACT
- M --- MODERATE NOISE IMPACT

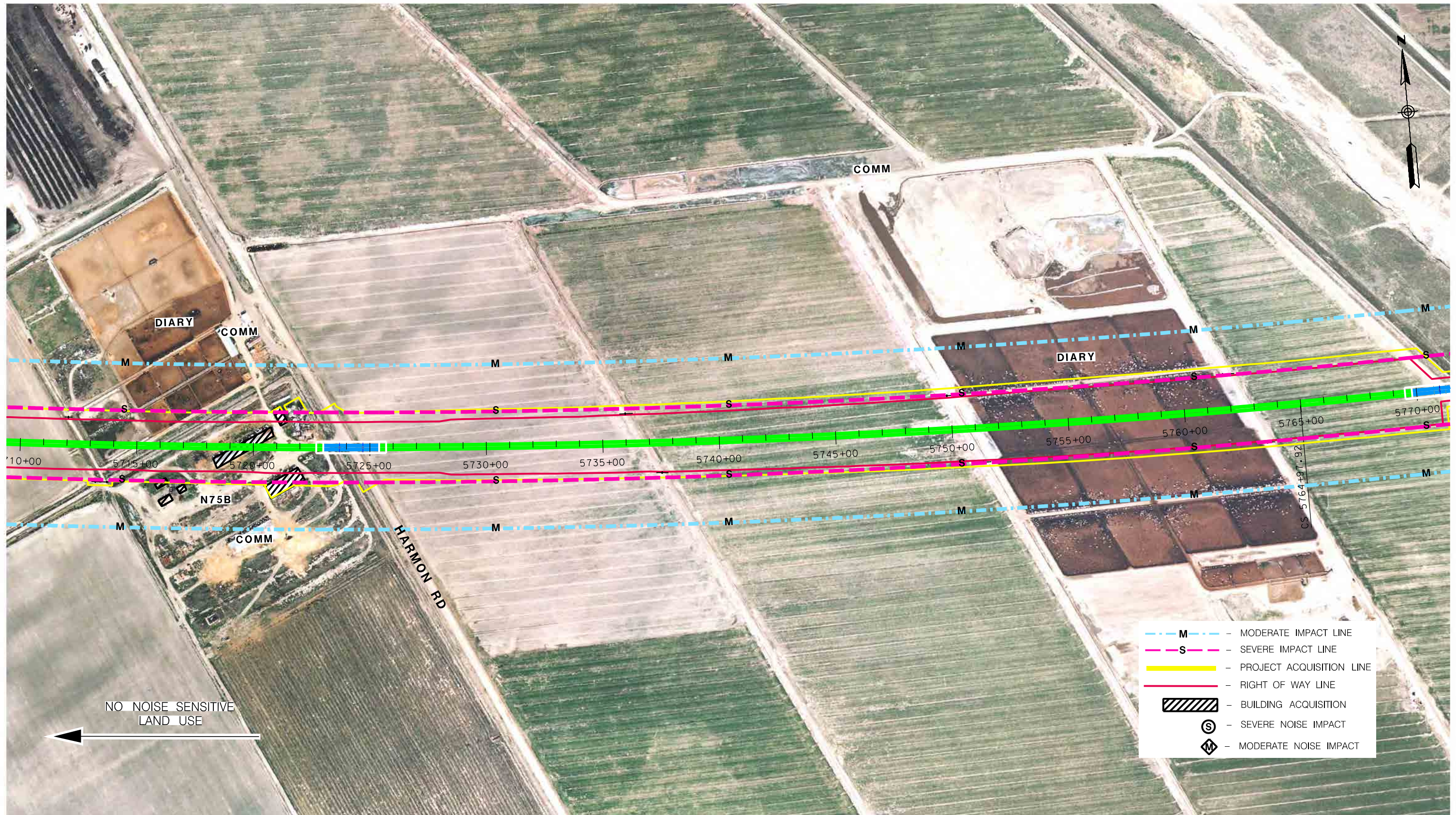
- LEGEND**
- Nxx - NOISE MEASUREMENT SITE
 - Vxx - VIBRATION MEASUREMENT SITE
 - SOUNDWALL
 - SFR OR S** - SINGLE FAMILY RESIDENTIAL
 - COMM OR C** - COMMERCIAL
 - - TRACK IN TRENCH
 - - TRACK IN TUNNEL
 - - TRACK AT GRADE
 - - TRACK ON AERIAL



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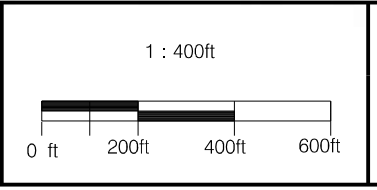
OCTOBER 17, 2016 FIGURE 2B



SEE FIGURE 4B

NO NOISE SENSITIVE LAND USE
←

LEGEND			
	Nxx - NOISE MEASUREMENT SITE		SFR OR S - SINGLE FAMILY RESIDENTIAL
	Vxx - VIBRATION MEASUREMENT SITE		COMM OR C - COMMERCIAL
	- SOUNDWALL		- TRACK IN TRENCH
			- TRACK IN TUNNEL
			- TRACK AT GRADE
			- TRACK ON AERIAL

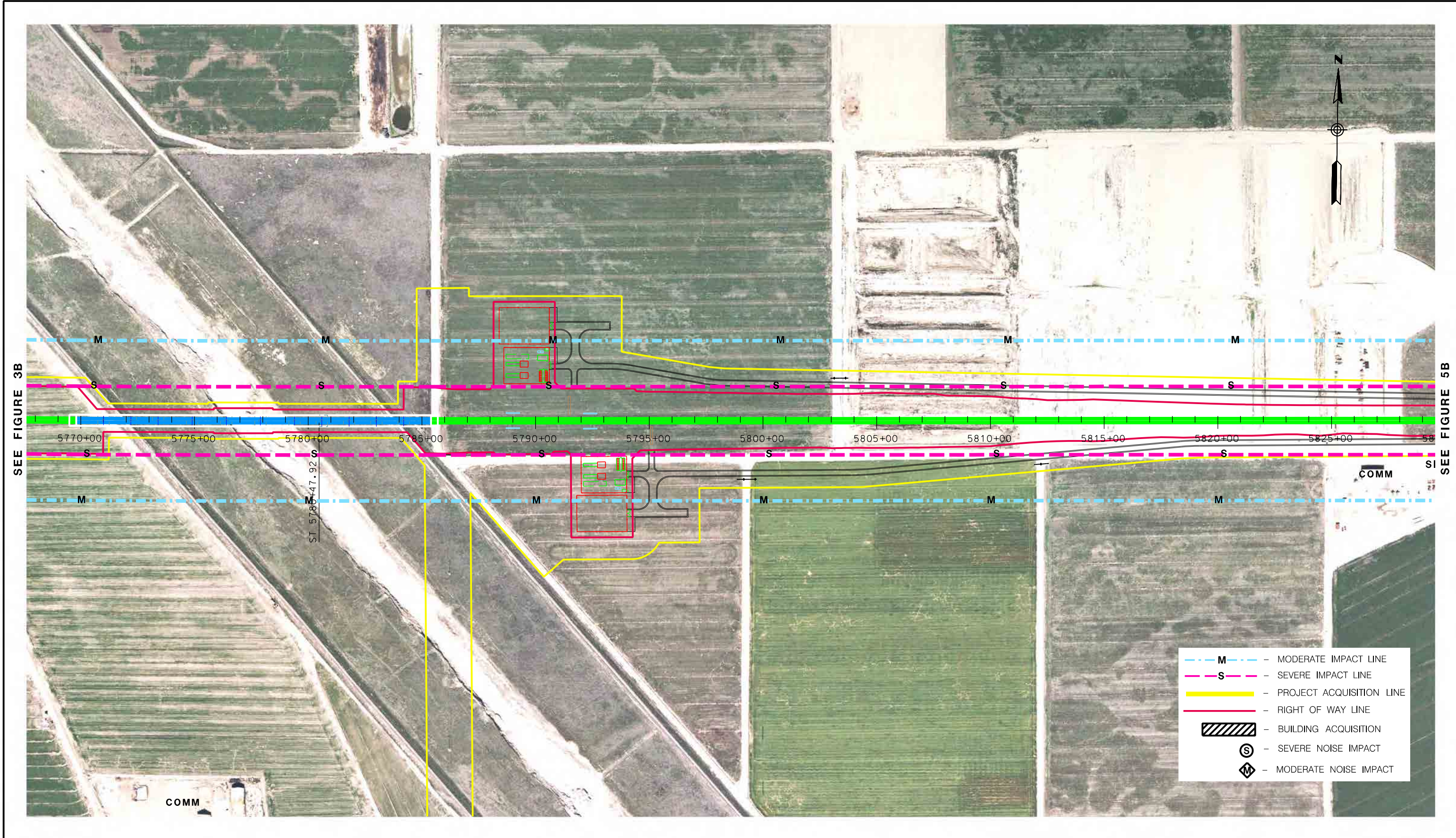


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FIGURE 3B

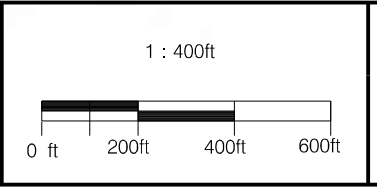


LEGEND

- ⊕ Nxx - NOISE MEASUREMENT SITE
- ⊕ Vxx - VIBRATION MEASUREMENT SITE
- SOUNDWALL

SFR OR S - SINGLE FAMILY RESIDENTIAL
 COMM OR C - COMMERCIAL

— TRACK IN TRENCH
 — TRACK IN TUNNEL
 — TRACK AT GRADE
 — TRACK ON AERIAL



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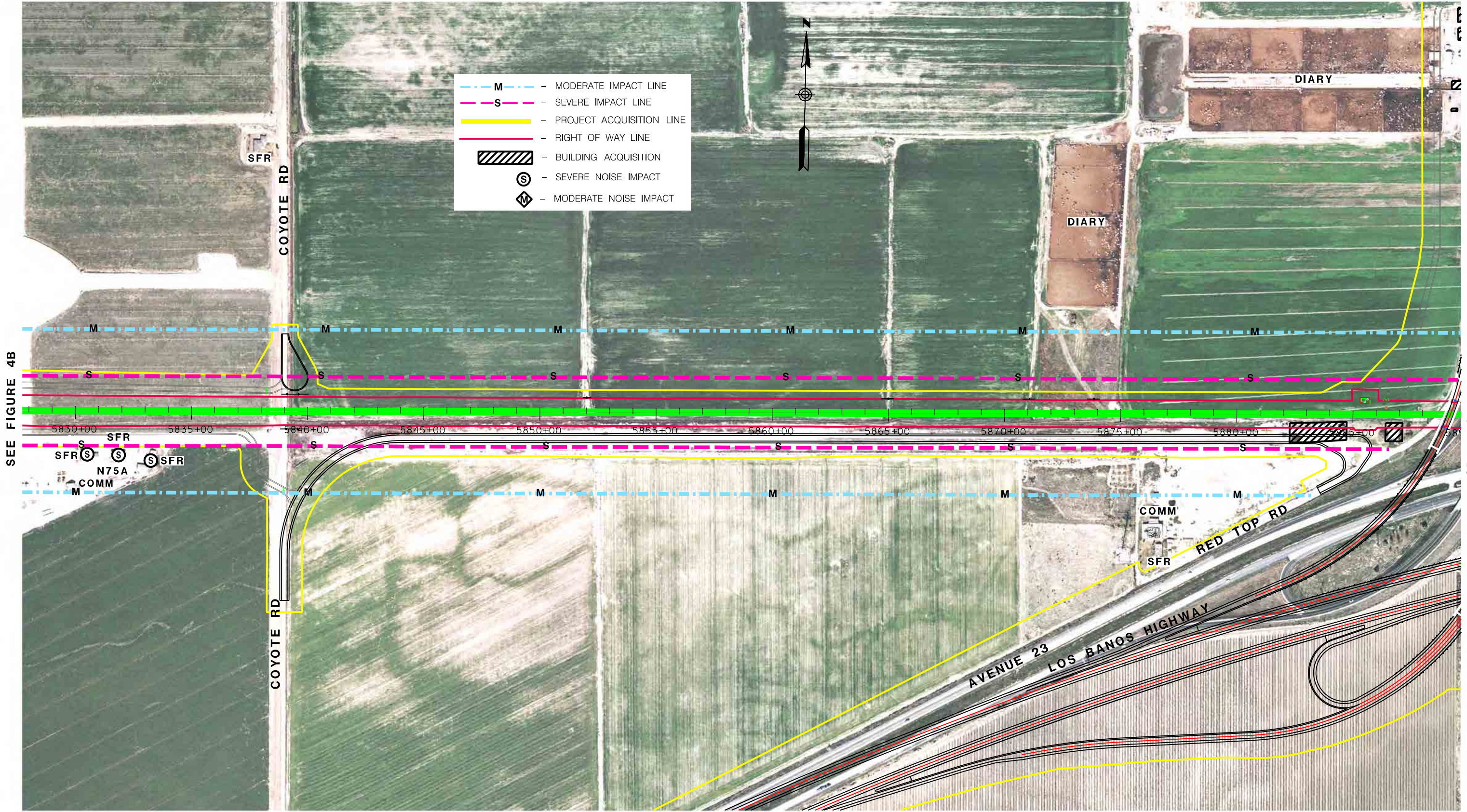
OCTOBER 17, 2016

FIGURE 4B

- M --- - MODERATE IMPACT LINE
- S --- - SEVERE IMPACT LINE
- - PROJECT ACQUISITION LINE
- - RIGHT OF WAY LINE
- BUILDING ACQUISITION
- SEVERE NOISE IMPACT
- MODERATE NOISE IMPACT

SEE FIGURE 4B

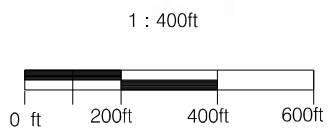
SEE FIGURE 6B



- LEGEND**
- NOISE MEASUREMENT SITE
 - VIBRATION MEASUREMENT SITE
 - SOUNDWALL

- SFR OR S - SINGLE FAMILY RESIDENTIAL
- COMM OR C - COMMERCIAL

- - TRACK IN TRENCH
- - TRACK IN TUNNEL
- - TRACK AT GRADE
- - TRACK ON AERIAL

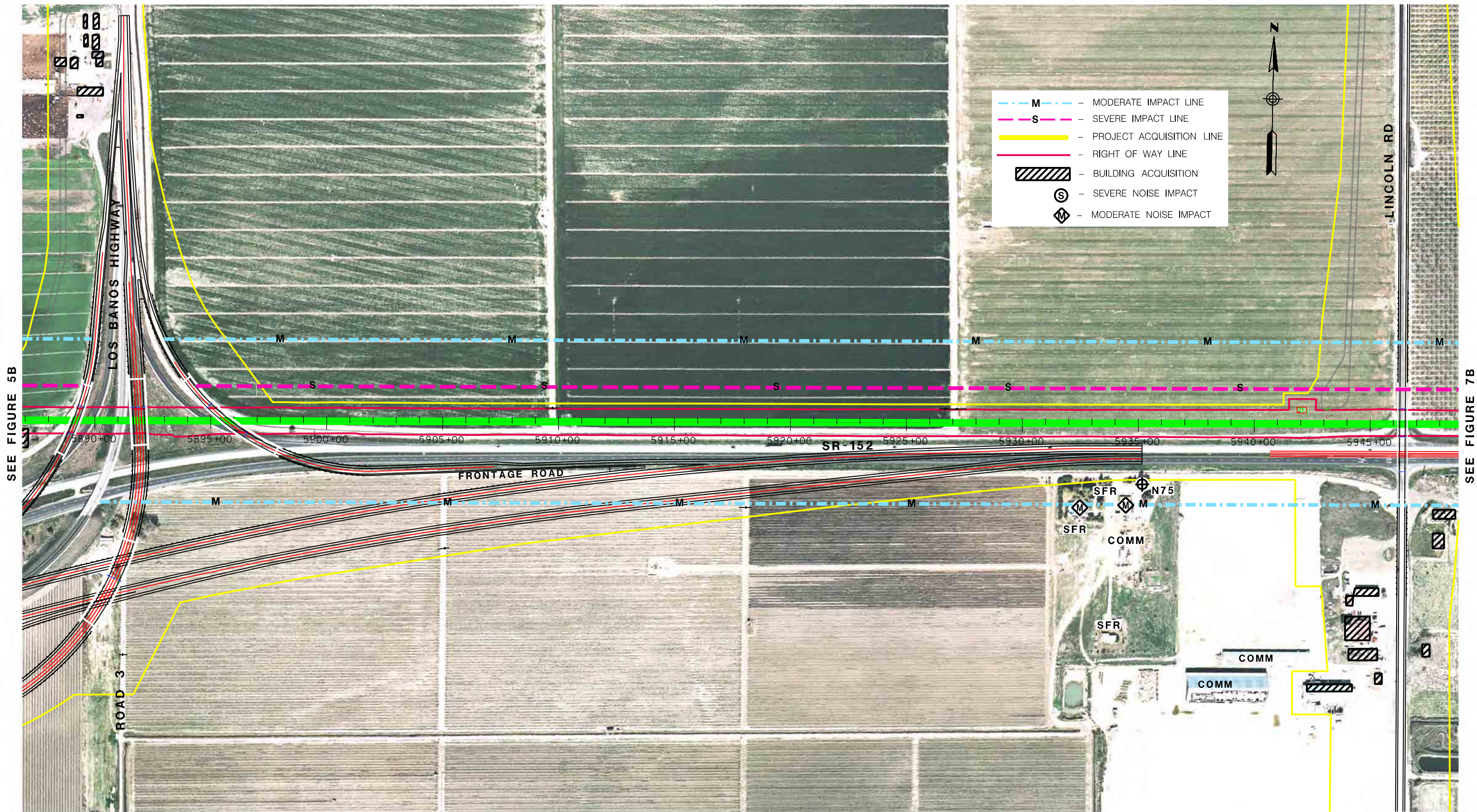


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FIGURE 5B



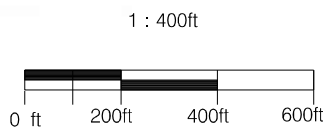
SEE FIGURE 5B

SEE FIGURE 7B

LEGEND
 ⊕ Nxx - NOISE MEASUREMENT SITE
 ⊕ Vxx - VIBRATION MEASUREMENT SITE
 ——— SOUNDWALL

SFR OR S - SINGLE FAMILY RESIDENTIAL
 COMM OR C - COMMERCIAL

— TRACK IN TRENCH
 — TRACK IN TUNNEL
 — TRACK AT GRADE
 — TRACK ON AERIAL

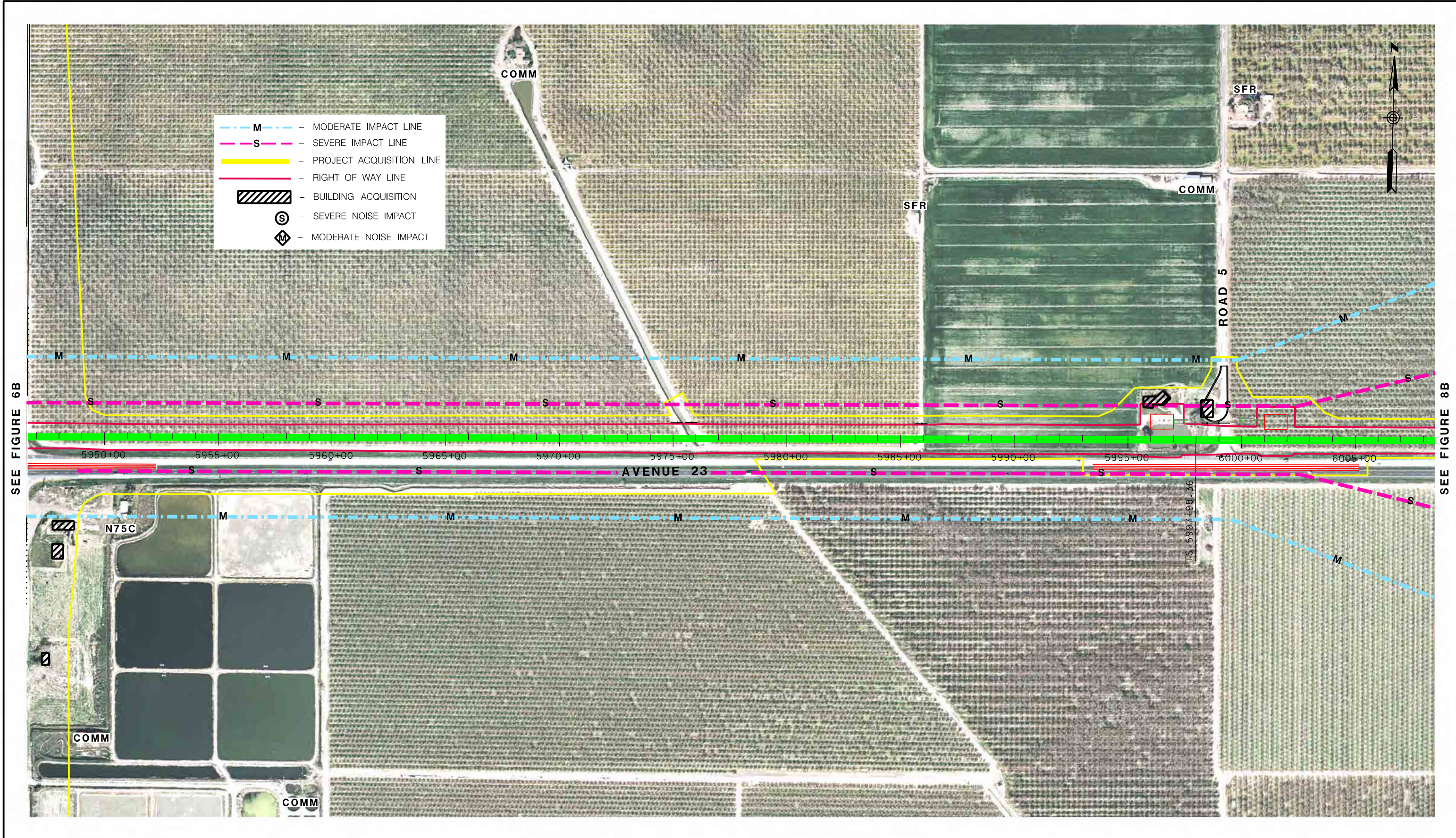


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FIGURE 6B

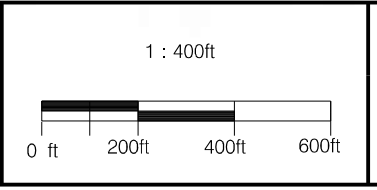


SEE FIGURE 6B

SEE FIGURE 8B

LEGEND

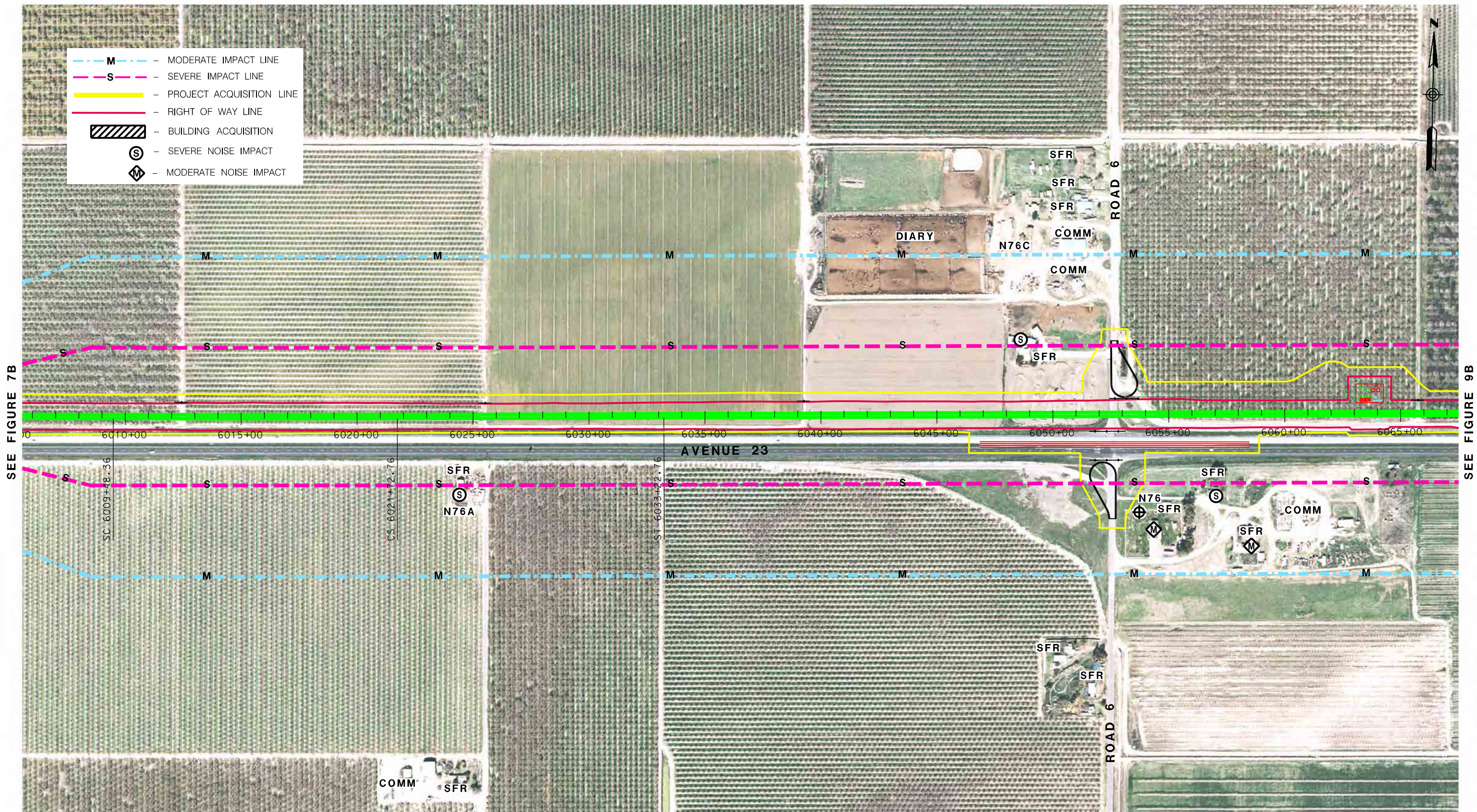
Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	- TRACK IN TRENCH
Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	- TRACK IN TUNNEL
- SOUNDWALL		- TRACK AT GRADE
		- TRACK ON AERIAL



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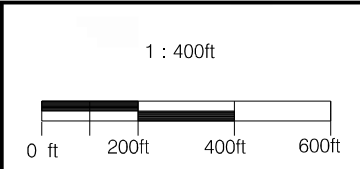
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 NOISE IMPACTS AND MITIGATION
 SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE**

OCTOBER 17, 2016	FIGURE 7B
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- M --- MODERATE IMPACT LINE
- S --- SEVERE IMPACT LINE
- --- PROJECT ACQUISITION LINE
- --- RIGHT OF WAY LINE
- BUILDING ACQUISITION
- S --- SEVERE NOISE IMPACT
- M --- MODERATE NOISE IMPACT

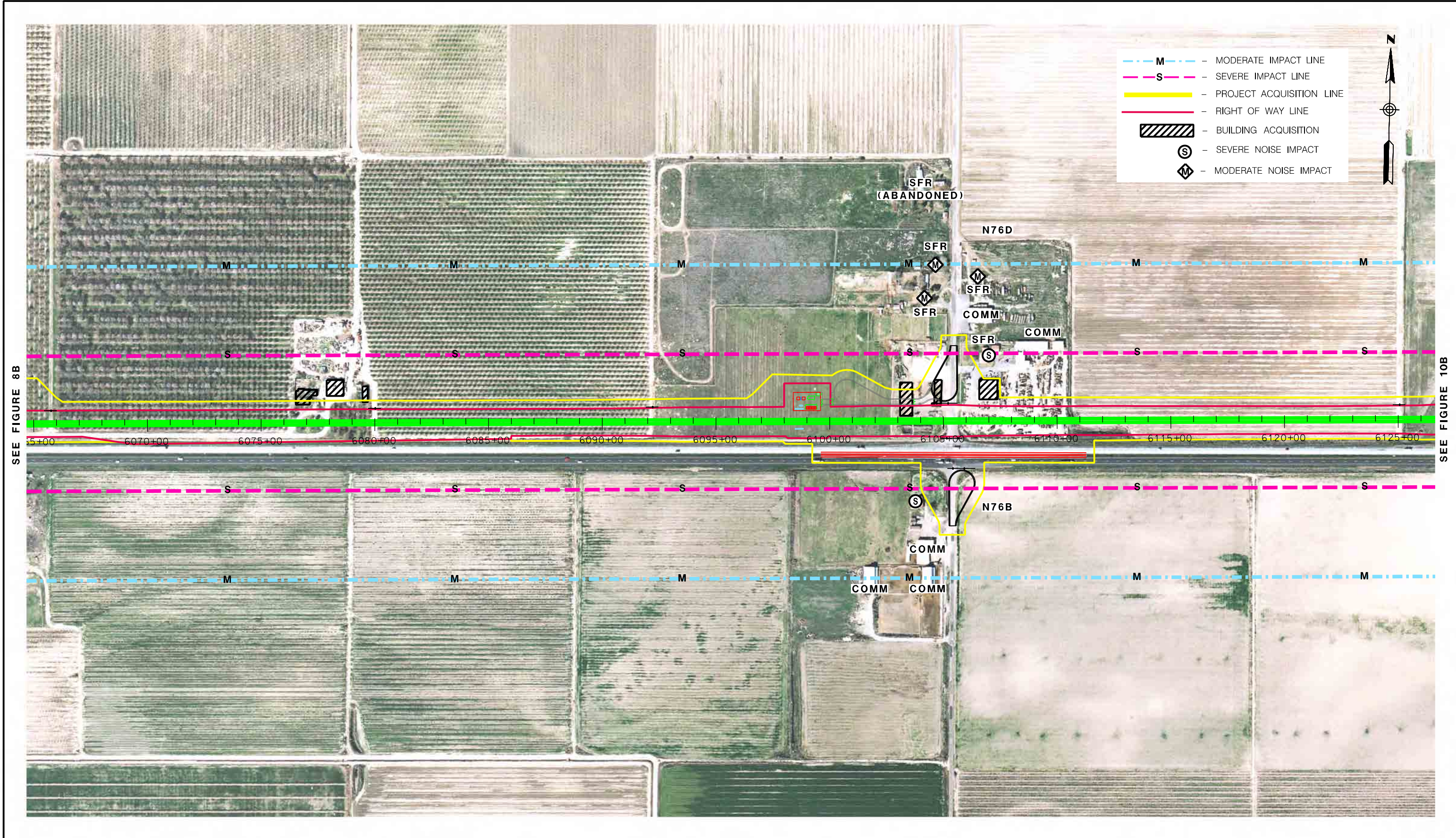
- LEGEND**
- Nxx - NOISE MEASUREMENT SITE
 - Vxx - VIBRATION MEASUREMENT SITE
 - SOUNDWALL
 - SFR OR S** - SINGLE FAMILY RESIDENTIAL
 - COMM OR C** - COMMERCIAL
 - - TRACK IN TRENCH
 - - TRACK IN TUNNEL
 - - TRACK AT GRADE
 - - TRACK ON AERIAL



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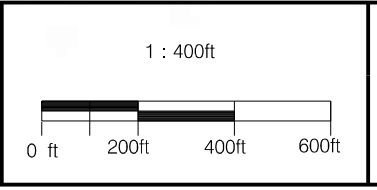
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 NOISE IMPACTS AND MITIGATION
 SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE**

OCTOBER 17, 2016 FIGURE 8B



LEGEND

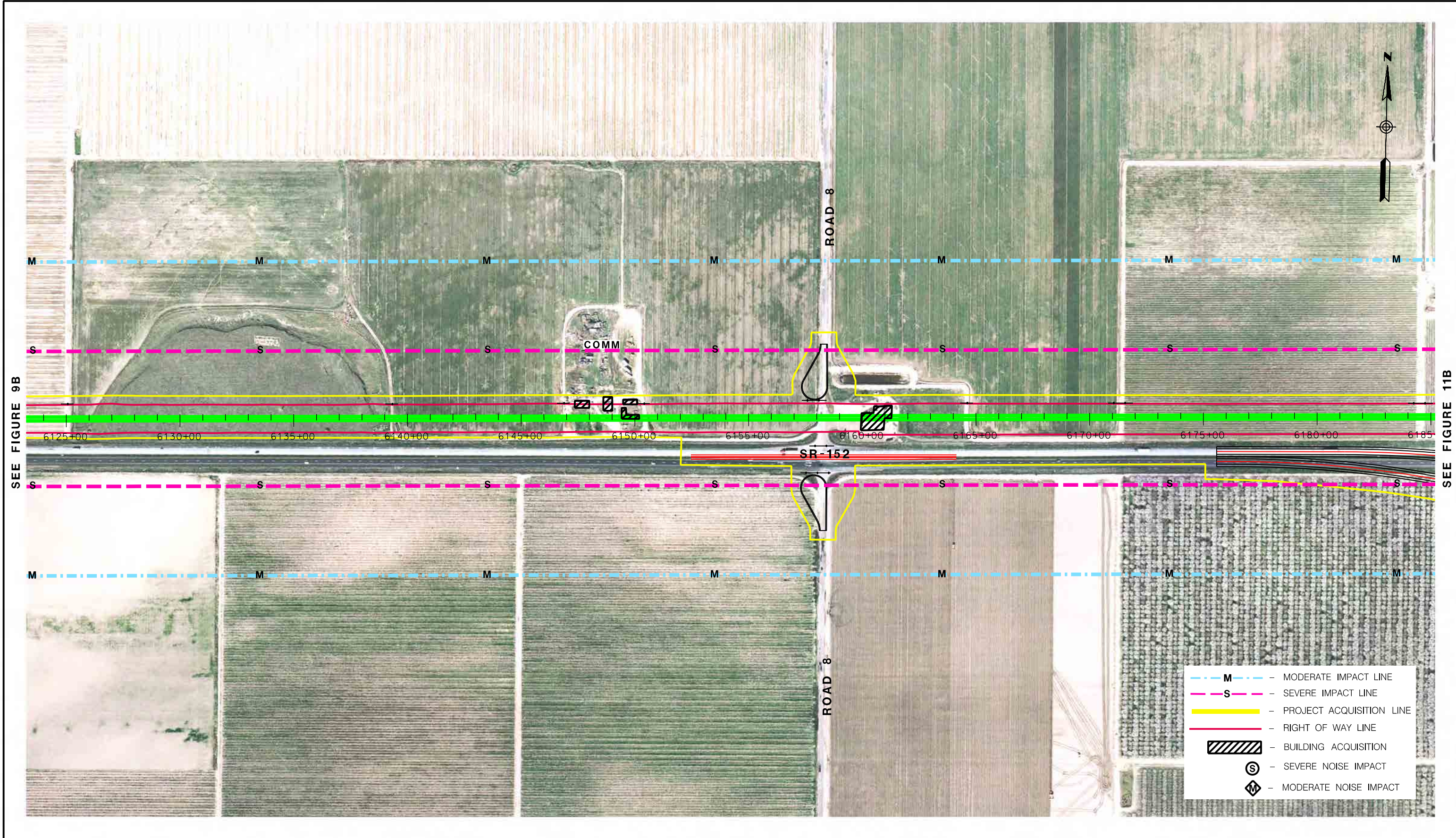
Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	- TRACK IN TRENCH
Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	- TRACK IN TUNNEL
- SOUNDWALL		- TRACK AT GRADE
		- TRACK ON AERIAL



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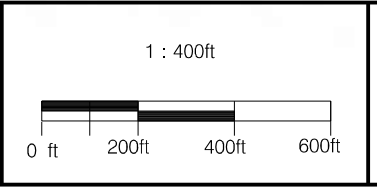
OCTOBER 17, 2016	FIGURE 9B
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SEE FIGURE 9B

SEE FIGURE 11B

LEGEND			
⊕ Nxx	- NOISE MEASUREMENT SITE	SFR OR S	- SINGLE FAMILY RESIDENTIAL
⊕ Vxx	- VIBRATION MEASUREMENT SITE	COMM OR C	- COMMERCIAL
—○—	- SOUNDWALL	—	- TRACK IN TRENCH
		—	- TRACK IN TUNNEL
		—	- TRACK AT GRADE
		—	- TRACK ON AERIAL

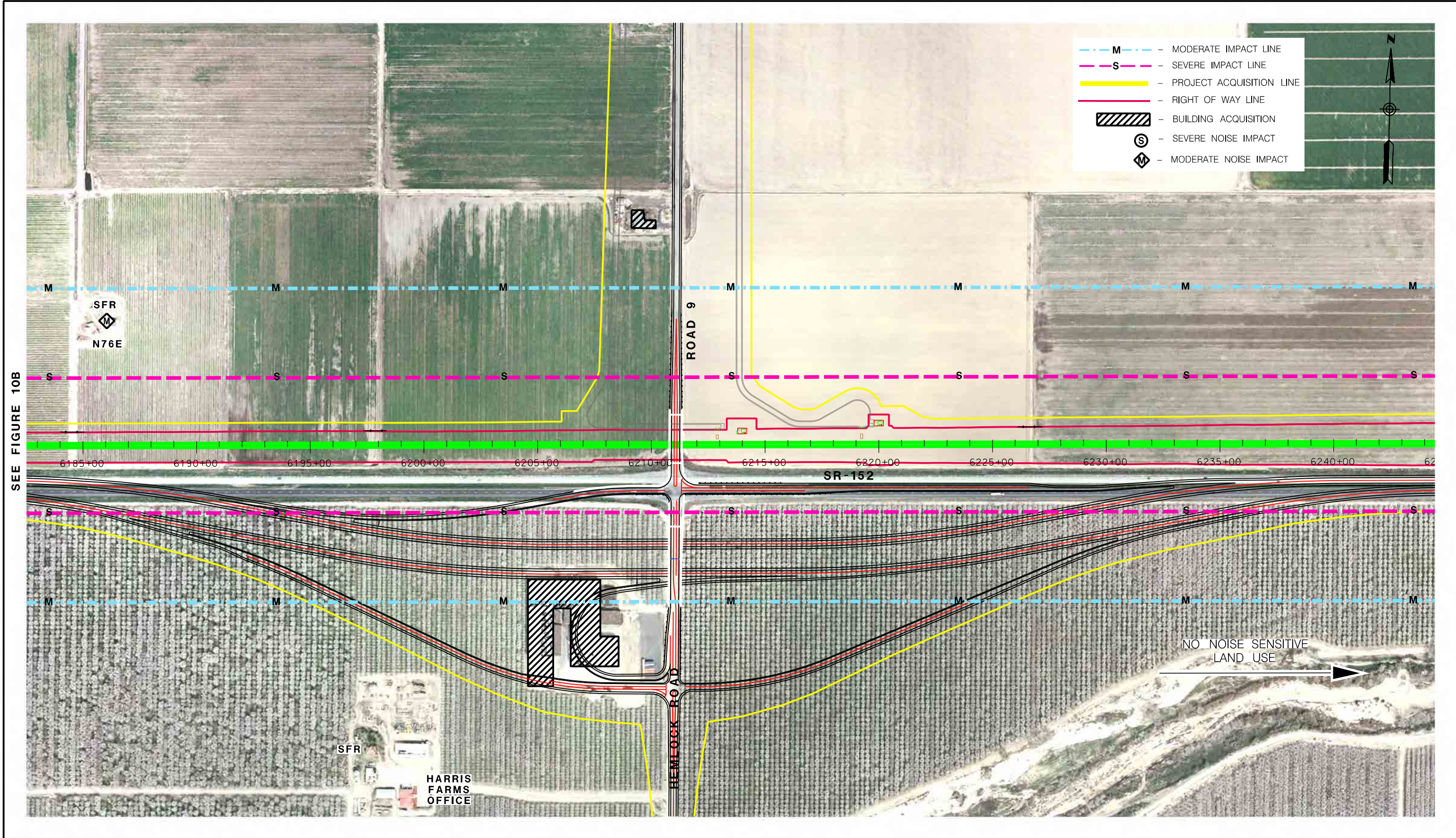


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FIGURE 10B



- M - MODERATE IMPACT LINE
 - S - SEVERE IMPACT LINE
 - PROJECT ACQUISITION LINE
 - RIGHT OF WAY LINE
 - BUILDING ACQUISITION
 - SEVERE NOISE IMPACT
 - MODERATE NOISE IMPACT

SEE FIGURE 10B

LEGEND

⊕ Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	— TRACK IN TRENCH
⊕ Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	— TRACK IN TUNNEL
— SOUNDWALL		— TRACK AT GRADE
		— TRACK ON AERIAL

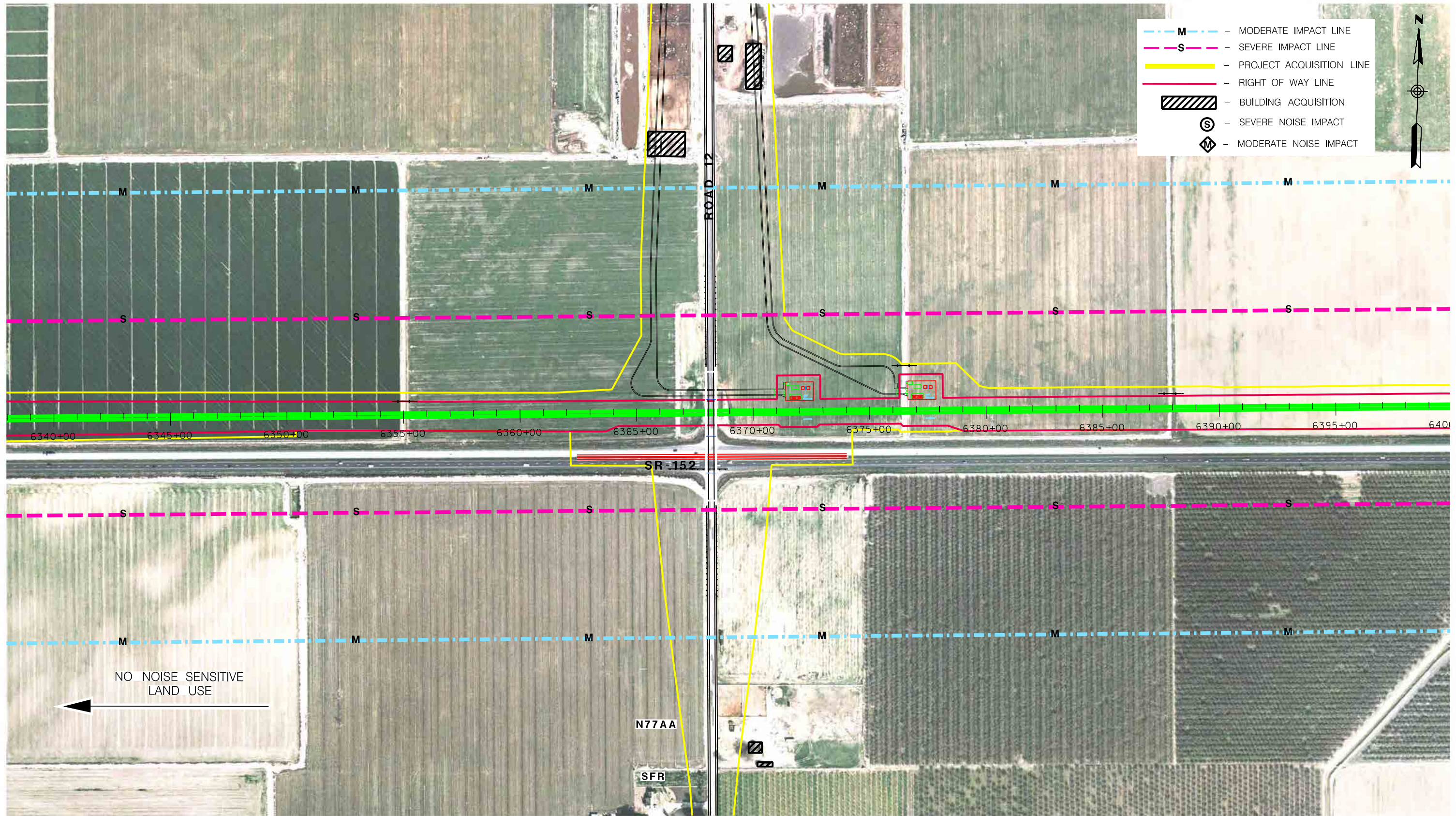
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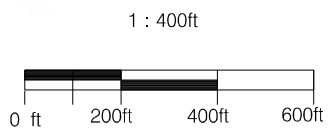
FIGURE 11B



SEE FIGURE 13B

LEGEND

- ⊕ Nxx - NOISE MEASUREMENT SITE
- ⊕ Vxx - VIBRATION MEASUREMENT SITE
- SOUNDWALL
- SFR OR S - SINGLE FAMILY RESIDENTIAL
- COMM OR C - COMMERCIAL
- TRACK IN TRENCH
- TRACK IN TUNNEL
- TRACK AT GRADE
- TRACK ON AERIAL

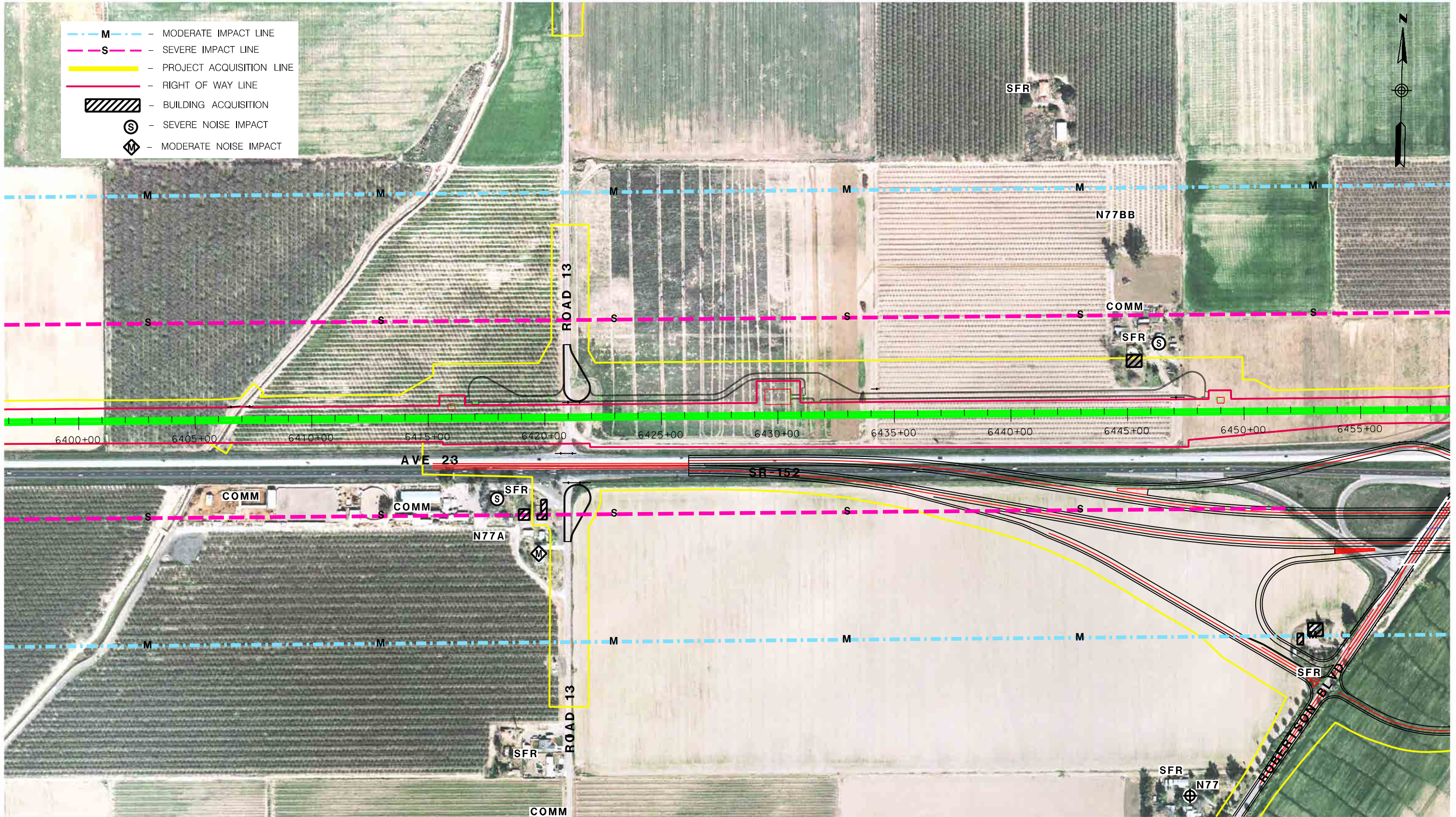


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FIGURE 12B



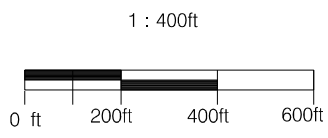
SEE FIGURE 12B

SEE FIGURE 14B

LEGEND
 ⊕ Nxx - NOISE MEASUREMENT SITE
 ⊕ Vxx - VIBRATION MEASUREMENT SITE
 —○— SOUNDWALL

SFR OR S - SINGLE FAMILY RESIDENTIAL
 COMM OR C - COMMERCIAL

— TRACK IN TRENCH
 — TRACK IN TUNNEL
 — TRACK AT GRADE
 — TRACK ON AERIAL

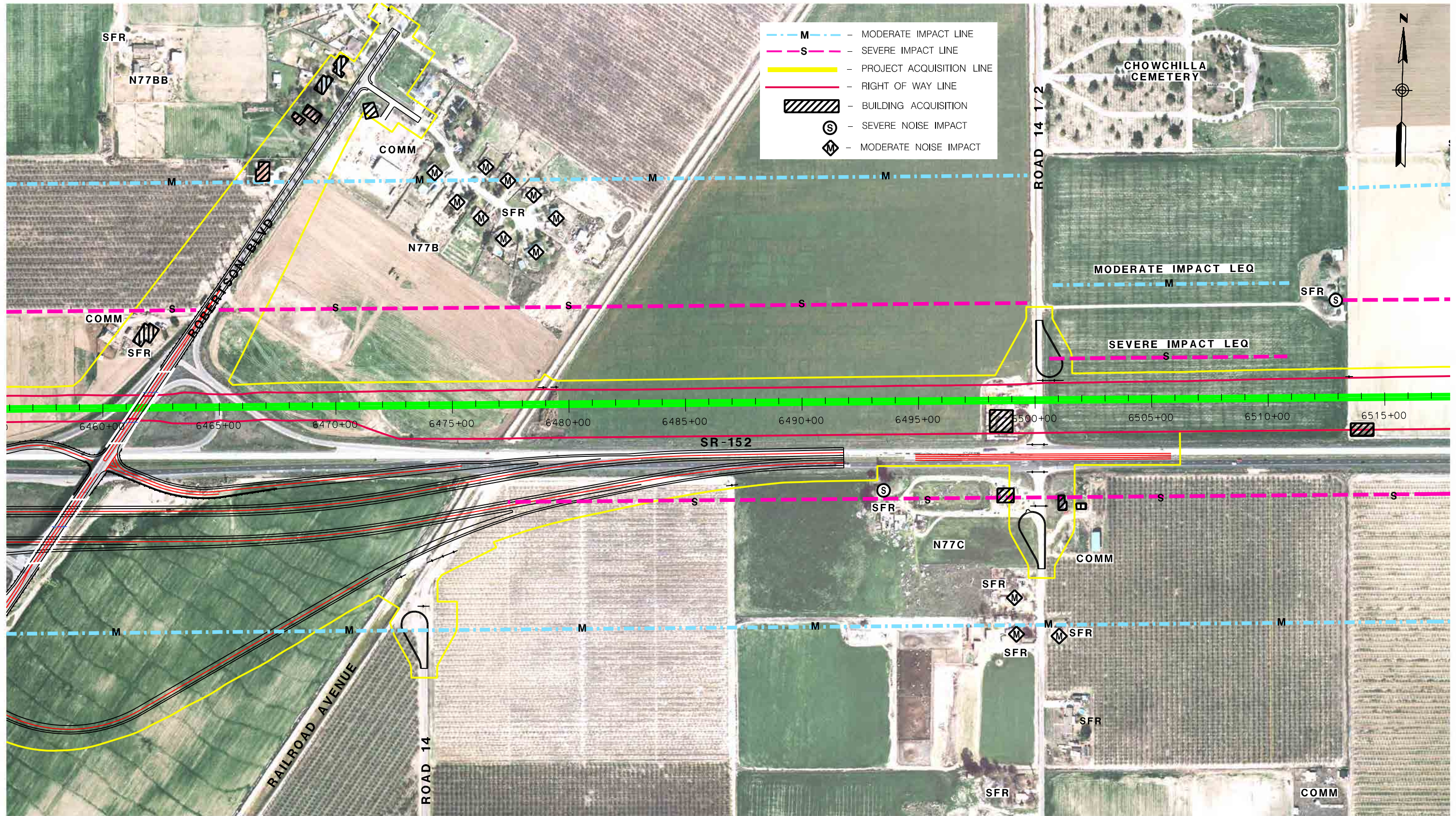


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FIGURE 13B

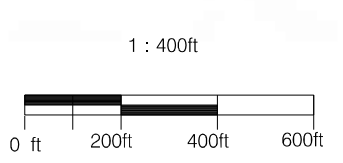


SEE FIGURE 13B

SEE FIGURE 15B

LEGEND

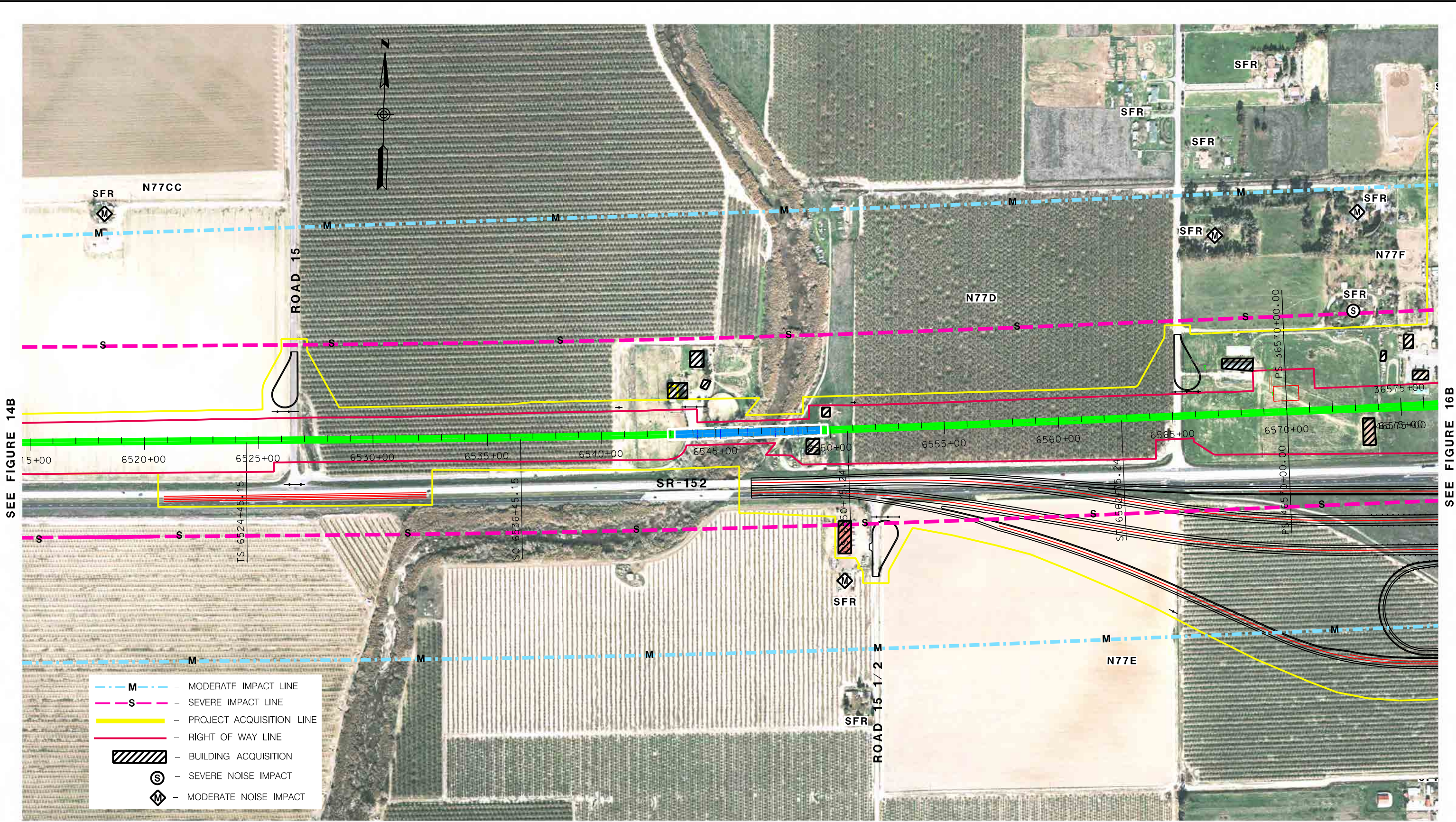
- ⊕ Nxx - NOISE MEASUREMENT SITE
- ⊕ Vxx - VIBRATION MEASUREMENT SITE
- SOUNDWALL
- SFR OR S - SINGLE FAMILY RESIDENTIAL
- COMM OR C - COMMERCIAL
- TRACK IN TRENCH
- TRACK IN TUNNEL
- TRACK AT GRADE
- TRACK ON AERIAL



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OCTOBER 17, 2016 FIGURE 14B



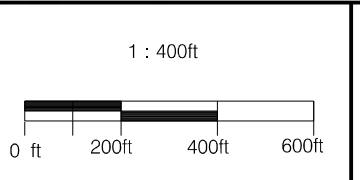
SEE FIGURE 14B

SEE FIGURE 16B

- - - M - MODERATE IMPACT LINE
- - - S - SEVERE IMPACT LINE
- - PROJECT ACQUISITION LINE
- - RIGHT OF WAY LINE
- BUILDING ACQUISITION
- S - SEVERE NOISE IMPACT
- M - MODERATE NOISE IMPACT

LEGEND

Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	— - TRACK IN TRENCH
Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	— - TRACK IN TUNNEL
— - SOUNDWALL		— - TRACK AT GRADE
		— - TRACK ON AERIAL



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OCTOBER 17, 2016	FIGURE 15B
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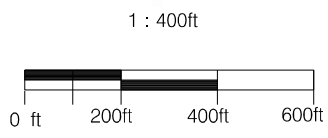


SEE FIGURE 15B

SEE FIGURE 17B

LEGEND

- ⊕ Nxx - NOISE MEASUREMENT SITE
- ⊕ Vxx - VIBRATION MEASUREMENT SITE
- SOUNDWALL
- SFR OR S - SINGLE FAMILY RESIDENTIAL
- COMM OR C - COMMERCIAL
- TRACK IN TRENCH
- TRACK IN TUNNEL
- TRACK AT GRADE
- TRACK ON AERIAL

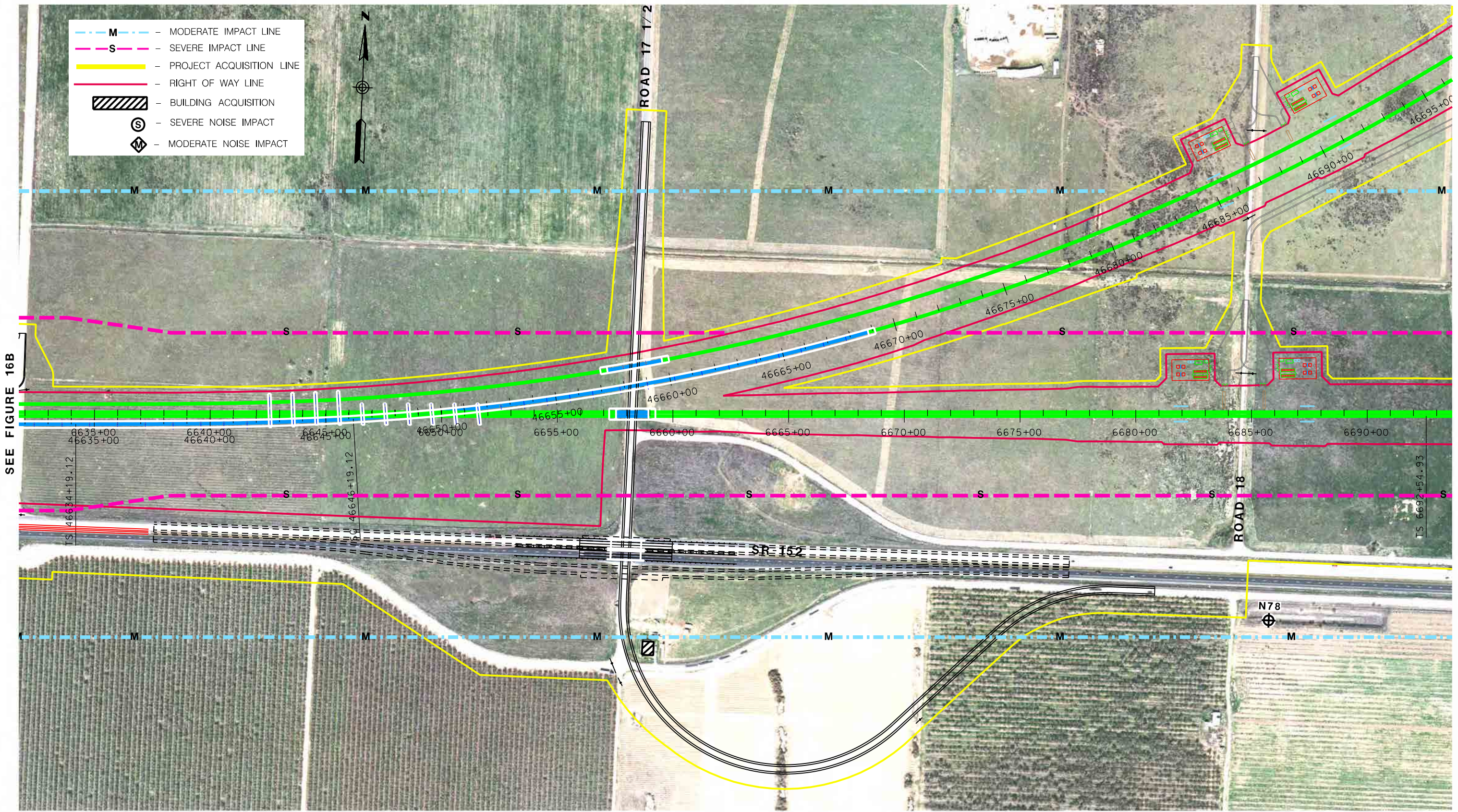


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OCTOBER 17, 2016 FIGURE 16B

- M - MODERATE IMPACT LINE
- S - SEVERE IMPACT LINE
- - PROJECT ACQUISITION LINE
- - RIGHT OF WAY LINE
- BUILDING ACQUISITION
- SEVERE NOISE IMPACT
- MODERATE NOISE IMPACT



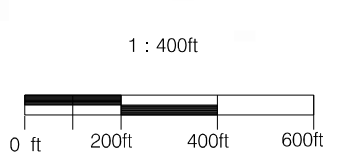
SEE FIGURE 16B

SEE FIGURE 18B

SEE FIGURE 42B

LEGEND

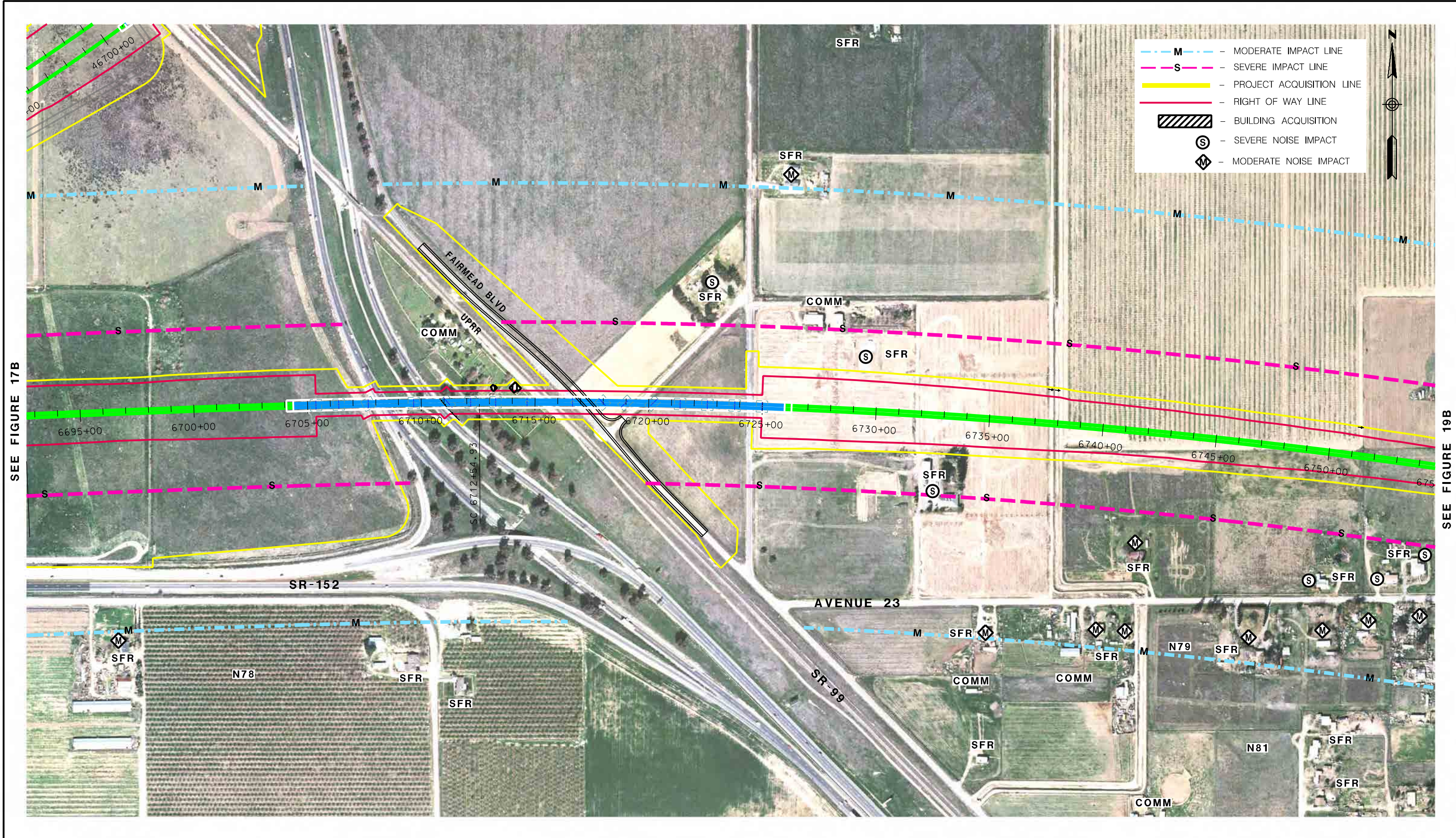
- | | | |
|--|--|--|
| <ul style="list-style-type: none"> - NOISE MEASUREMENT SITE - VIBRATION MEASUREMENT SITE - SOUNDWALL | <ul style="list-style-type: none"> SFR OR S - SINGLE FAMILY RESIDENTIAL COMM OR C - COMMERCIAL | <ul style="list-style-type: none"> --- - TRACK IN TRENCH --- - TRACK IN TUNNEL --- - TRACK AT GRADE --- - TRACK ON AERIAL |
|--|--|--|



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OCTOBER 17, 2016	FIGURE 17B
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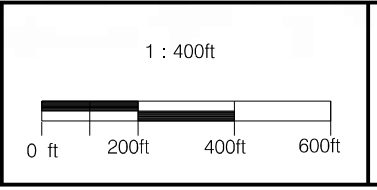


SEE FIGURE 17B

SEE FIGURE 19B

LEGEND

⊕ Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	— TRACK IN TRENCH
⊕ Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	— TRACK IN TUNNEL
— SOUNDWALL		— TRACK AT GRADE
		— TRACK ON AERIAL



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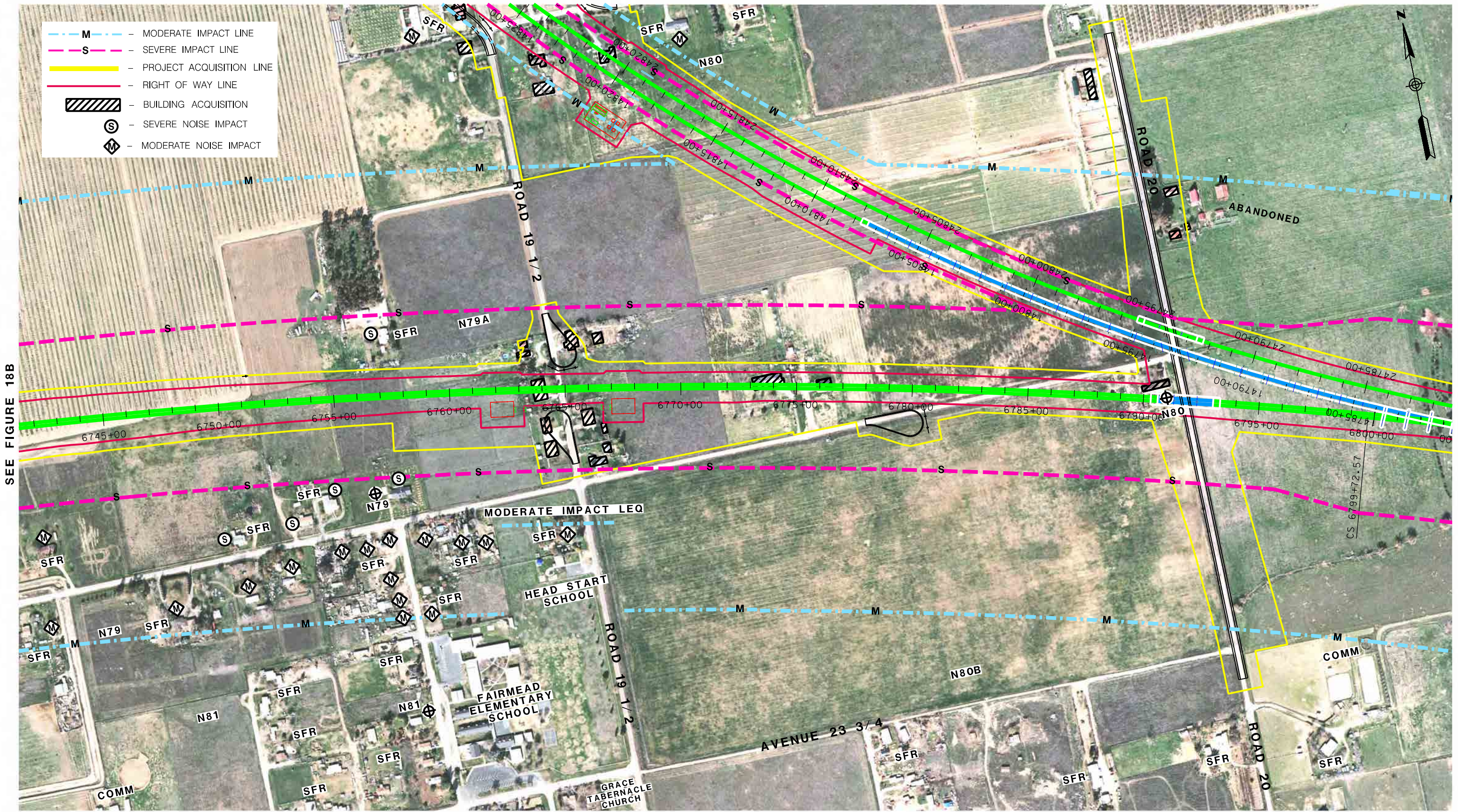
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 NOISE IMPACTS AND MITIGATION
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FIGURE 18B

SEE FIGURE 40

- M - MODERATE IMPACT LINE
- S - SEVERE IMPACT LINE
- - PROJECT ACQUISITION LINE
- - RIGHT OF WAY LINE
- BUILDING ACQUISITION
- SEVERE NOISE IMPACT
- MODERATE NOISE IMPACT

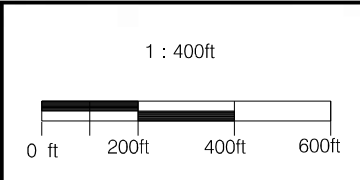


SEE FIGURE 18B

SEE FIGURE 20B

LEGEND

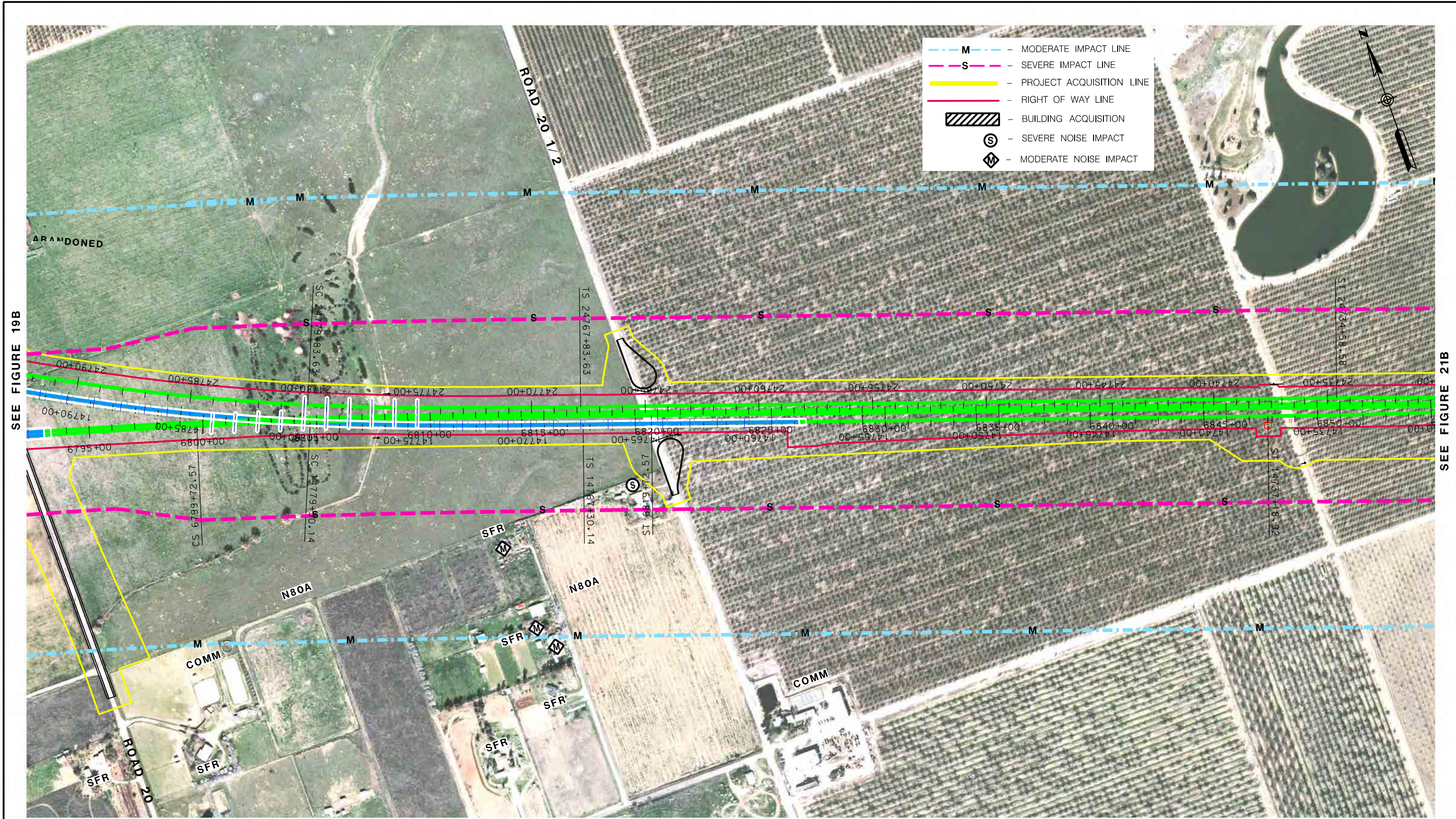
Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	--- - TRACK IN TRENCH
Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	--- - TRACK IN TUNNEL
- SOUNDWALL		--- - TRACK AT GRADE
		--- - TRACK ON AERIAL



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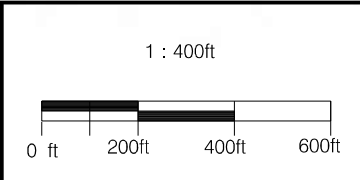
OCTOBER 17, 2016	FIGURE 19B
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SEE FIGURE 19B

SEE FIGURE 21B

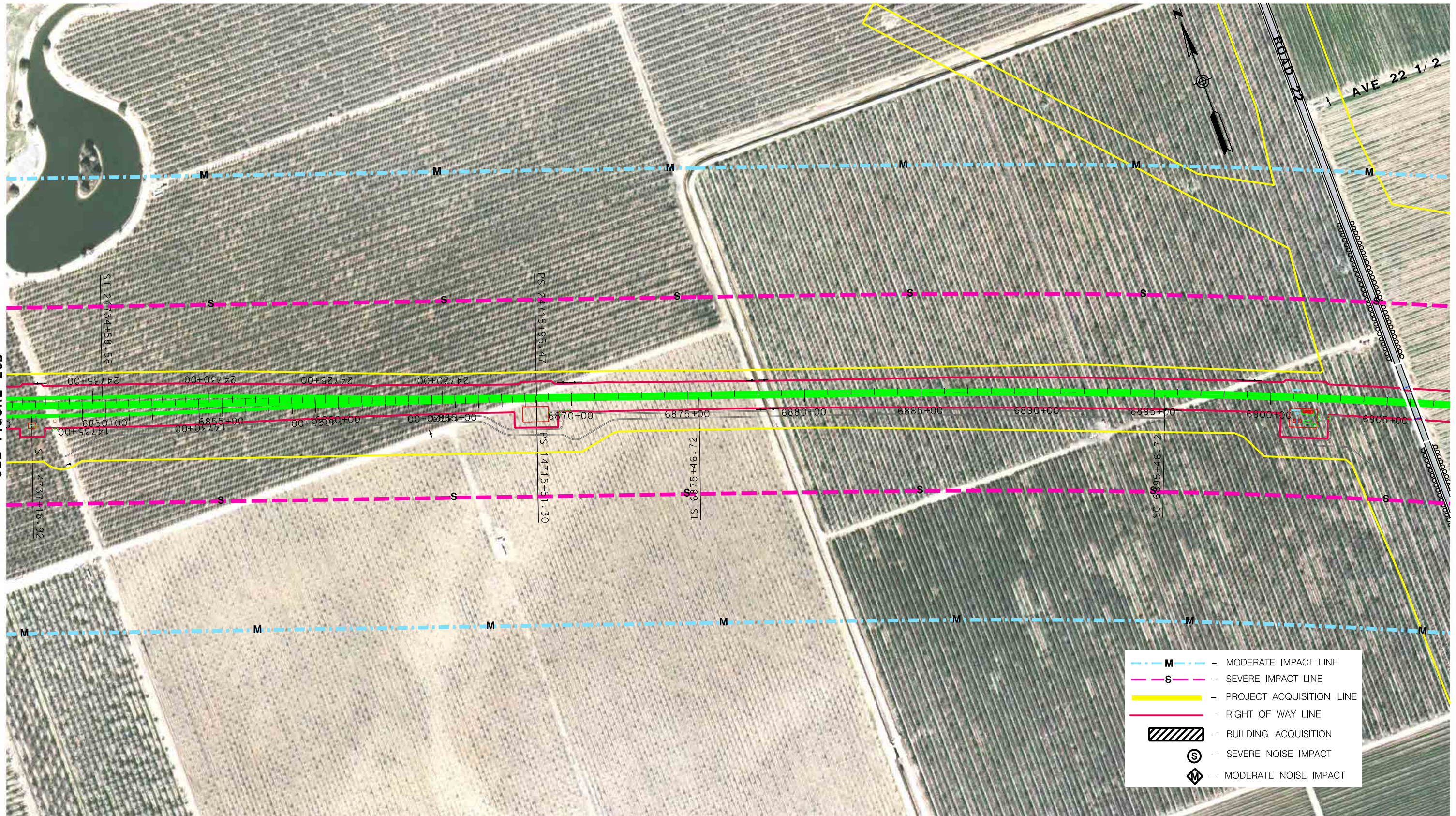
LEGEND		
	Nxx - NOISE MEASUREMENT SITE	
	Vxx - VIBRATION MEASUREMENT SITE	
	- SOUNDWALL	
	SFR OR S - SINGLE FAMILY RESIDENTIAL	
	COMM OR C - COMMERCIAL	



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OCTOBER 17, 2016	FIGURE 20B
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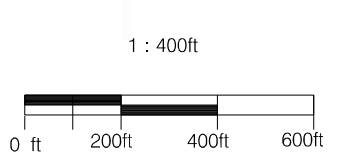
SEE FIGURE 20B

SEE FIGURE 22B

- - - M - - - - MODERATE IMPACT LINE
- - - S - - - - SEVERE IMPACT LINE
- - PROJECT ACQUISITION LINE
- - RIGHT OF WAY LINE
- BUILDING ACQUISITION
- S - SEVERE NOISE IMPACT
- M - MODERATE NOISE IMPACT

LEGEND

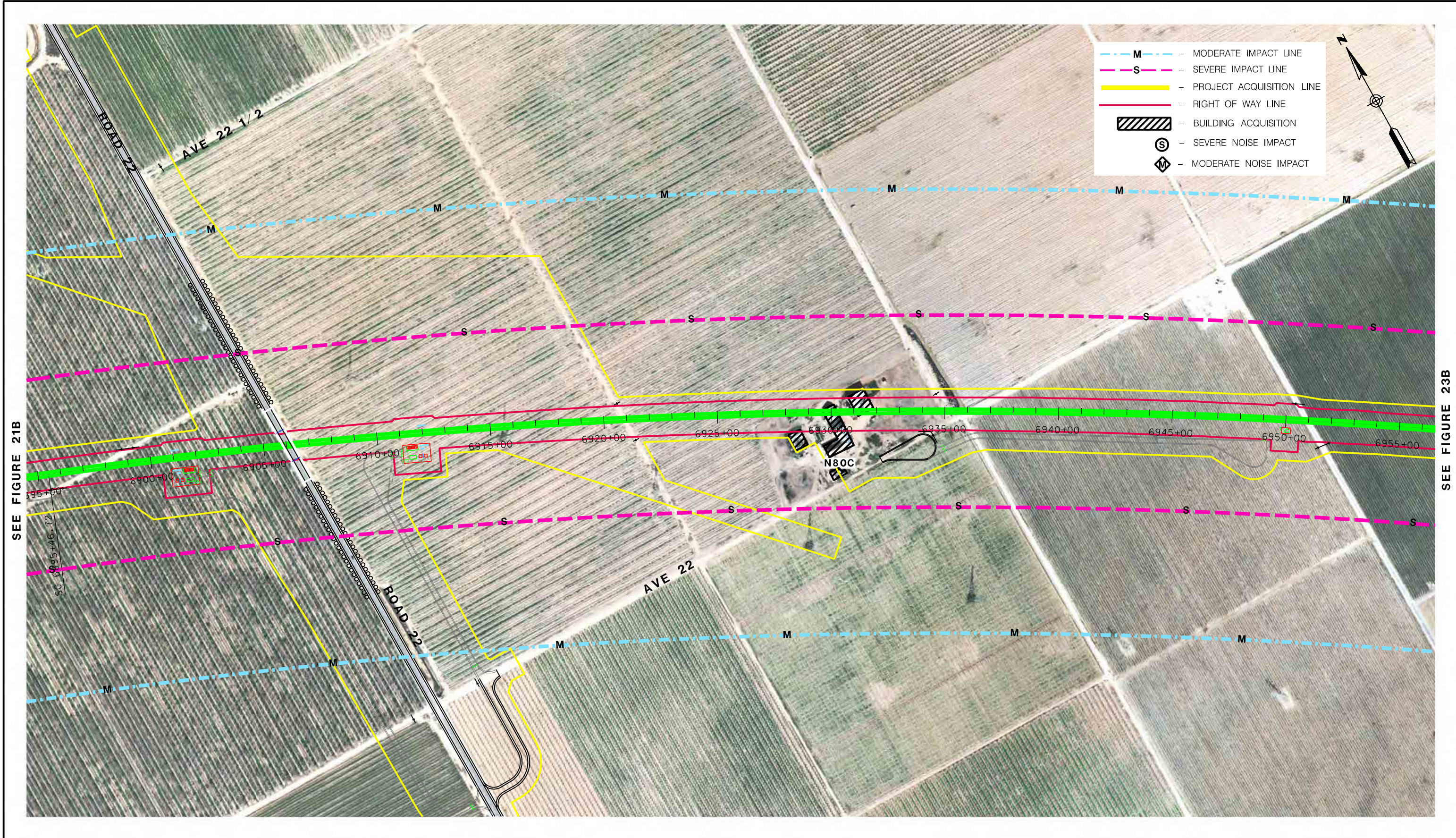
Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	————— - TRACK IN TRENCH
Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	————— - TRACK IN TUNNEL
 - SOUNDWALL		————— - TRACK AT GRADE
		————— - TRACK ON AERIAL



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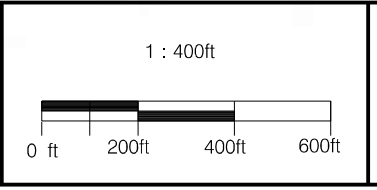
OCTOBER 17, 2016 FIGURE 21B



SEE FIGURE 21B

SEE FIGURE 23B

LEGEND		
Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	- TRACK IN TRENCH
Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	- TRACK IN TUNNEL
- SOUNDWALL		- TRACK AT GRADE
		- TRACK ON AERIAL

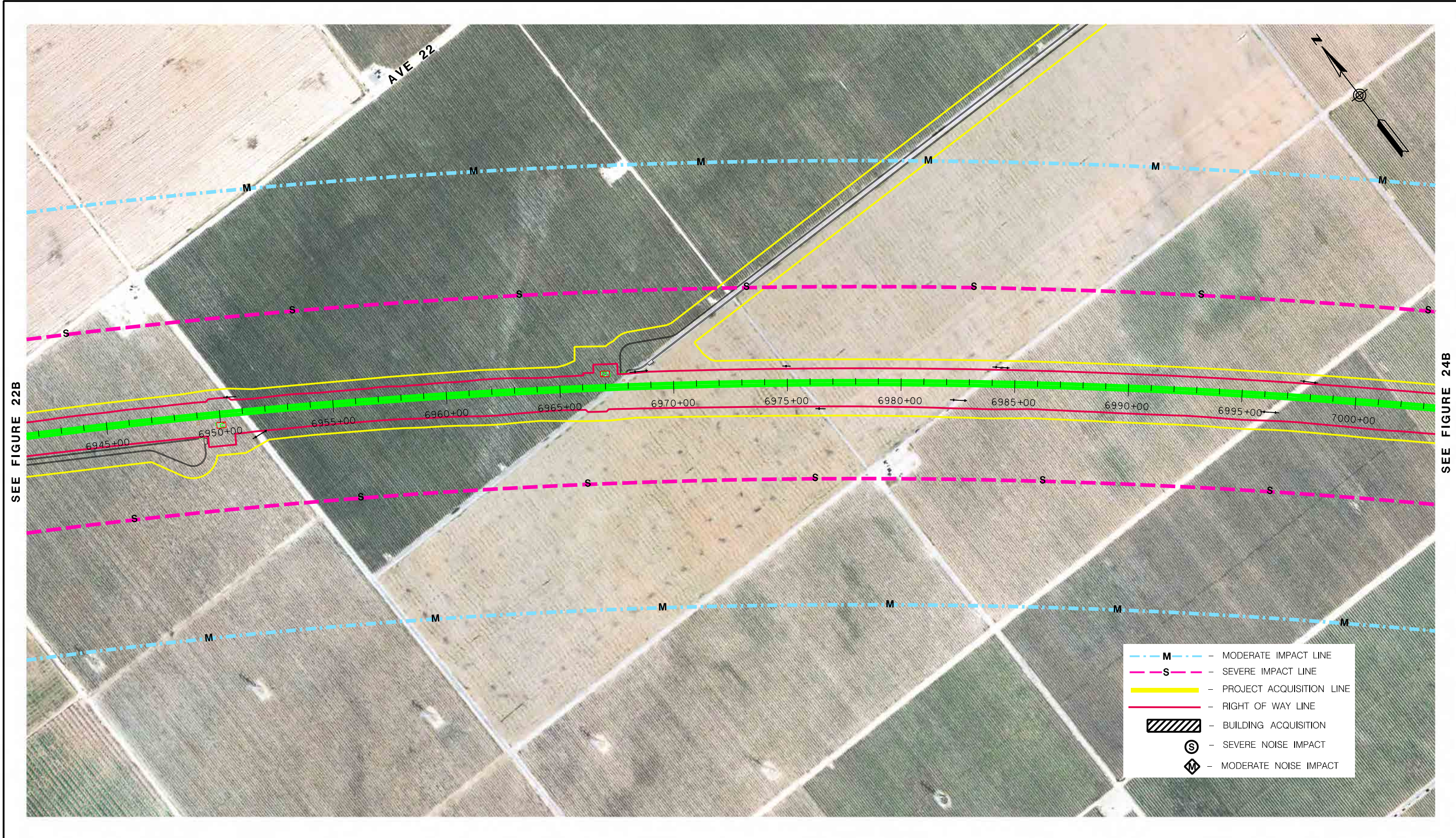


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 SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE

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FIGURE 22B

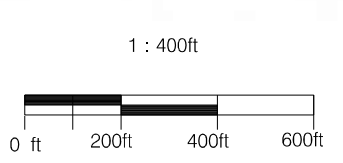


SEE FIGURE 22B

SEE FIGURE 24B

- - - M - MODERATE IMPACT LINE
- - - S - SEVERE IMPACT LINE
- - PROJECT ACQUISITION LINE
- - RIGHT OF WAY LINE
- BUILDING ACQUISITION
- S - SEVERE NOISE IMPACT
- M - MODERATE NOISE IMPACT

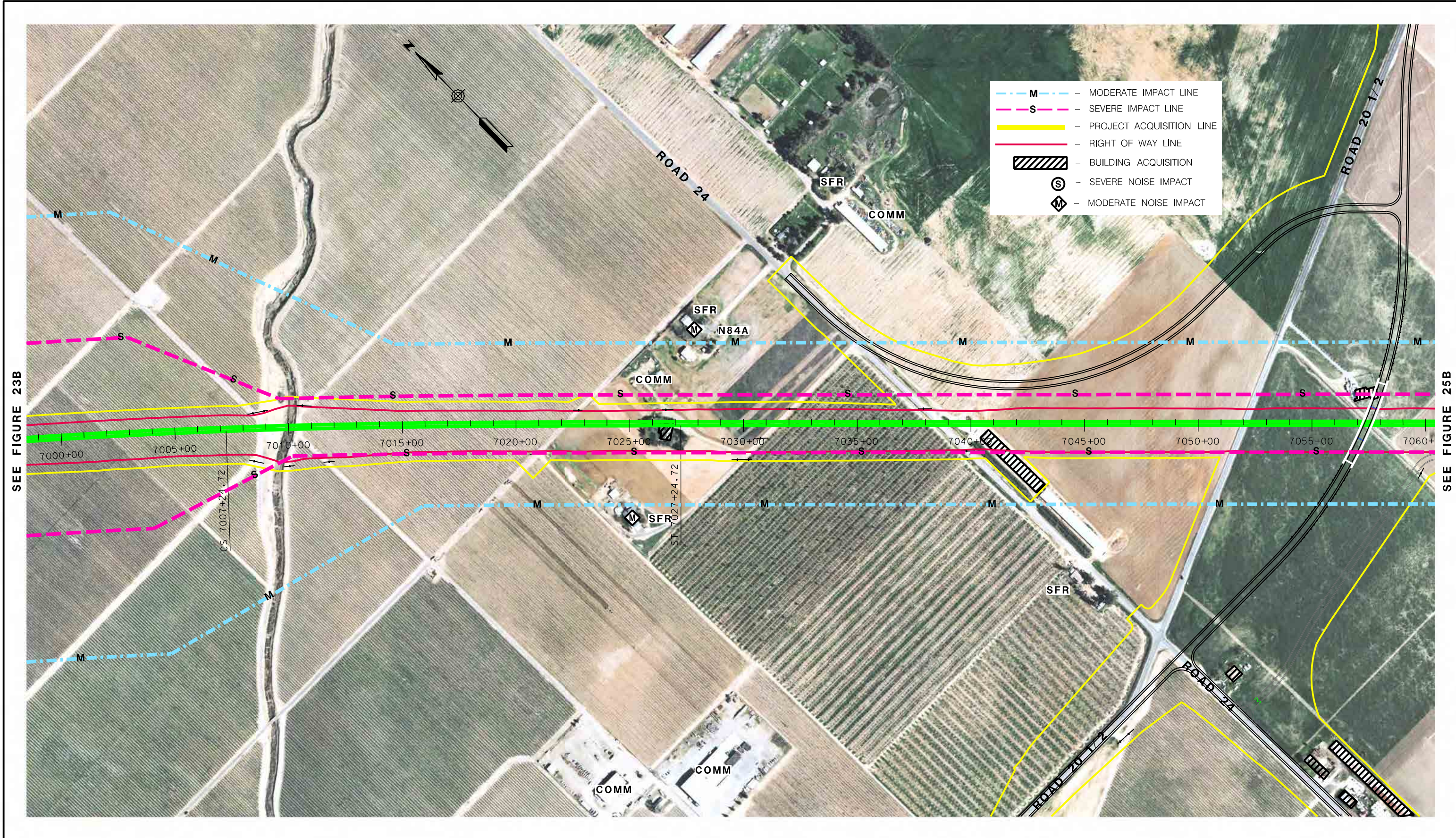
LEGEND		
Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	--- - TRACK IN TRENCH
Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	--- - TRACK IN TUNNEL
--- - SOUNDWALL		--- - TRACK AT GRADE
		--- - TRACK ON AERIAL



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FIGURE 23B

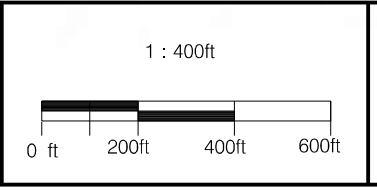


SEE FIGURE 23B

SEE FIGURE 25B

LEGEND

- Nxx - NOISE MEASUREMENT SITE
- Vxx - VIBRATION MEASUREMENT SITE
- SOUNDWALL
- SFR OR S - SINGLE FAMILY RESIDENTIAL
- COMM OR C - COMMERCIAL
- TRACK IN TRENCH
- TRACK IN TUNNEL
- TRACK AT GRADE
- TRACK ON AERIAL

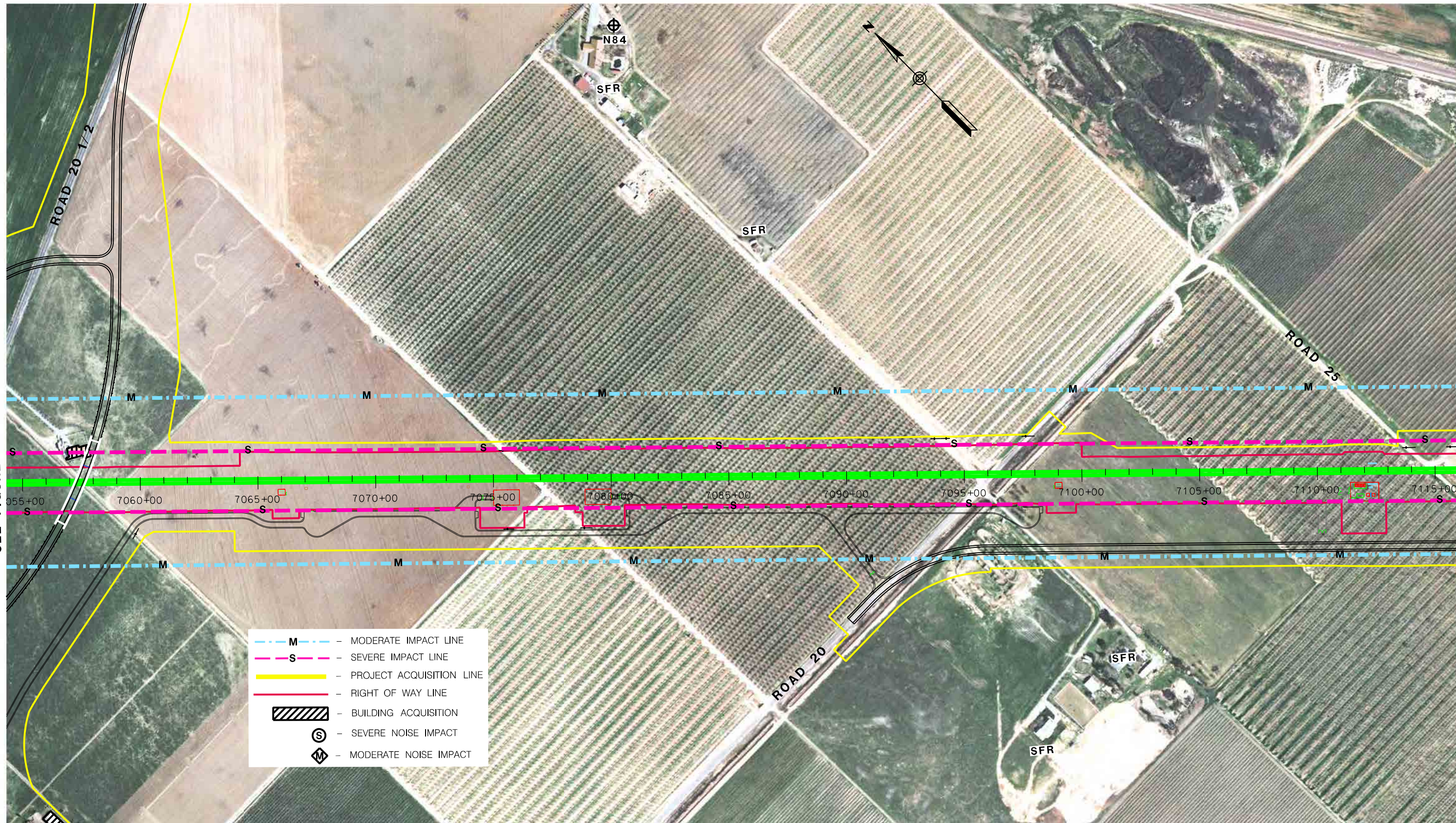


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FIGURE 24B



SEE FIGURE 24B

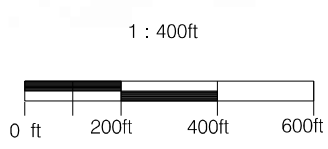
SEE FIGURE 26B

- - - M - MODERATE IMPACT LINE
- - - S - SEVERE IMPACT LINE
- - PROJECT ACQUISITION LINE
- - RIGHT OF WAY LINE
- BUILDING ACQUISITION
- SEVERE NOISE IMPACT
- MODERATE NOISE IMPACT

- LEGEND**
- NOISE MEASUREMENT SITE
 - VIBRATION MEASUREMENT SITE
 - SOUNDWALL

- SFR OR S** - SINGLE FAMILY RESIDENTIAL
- COMM OR C** - COMMERCIAL

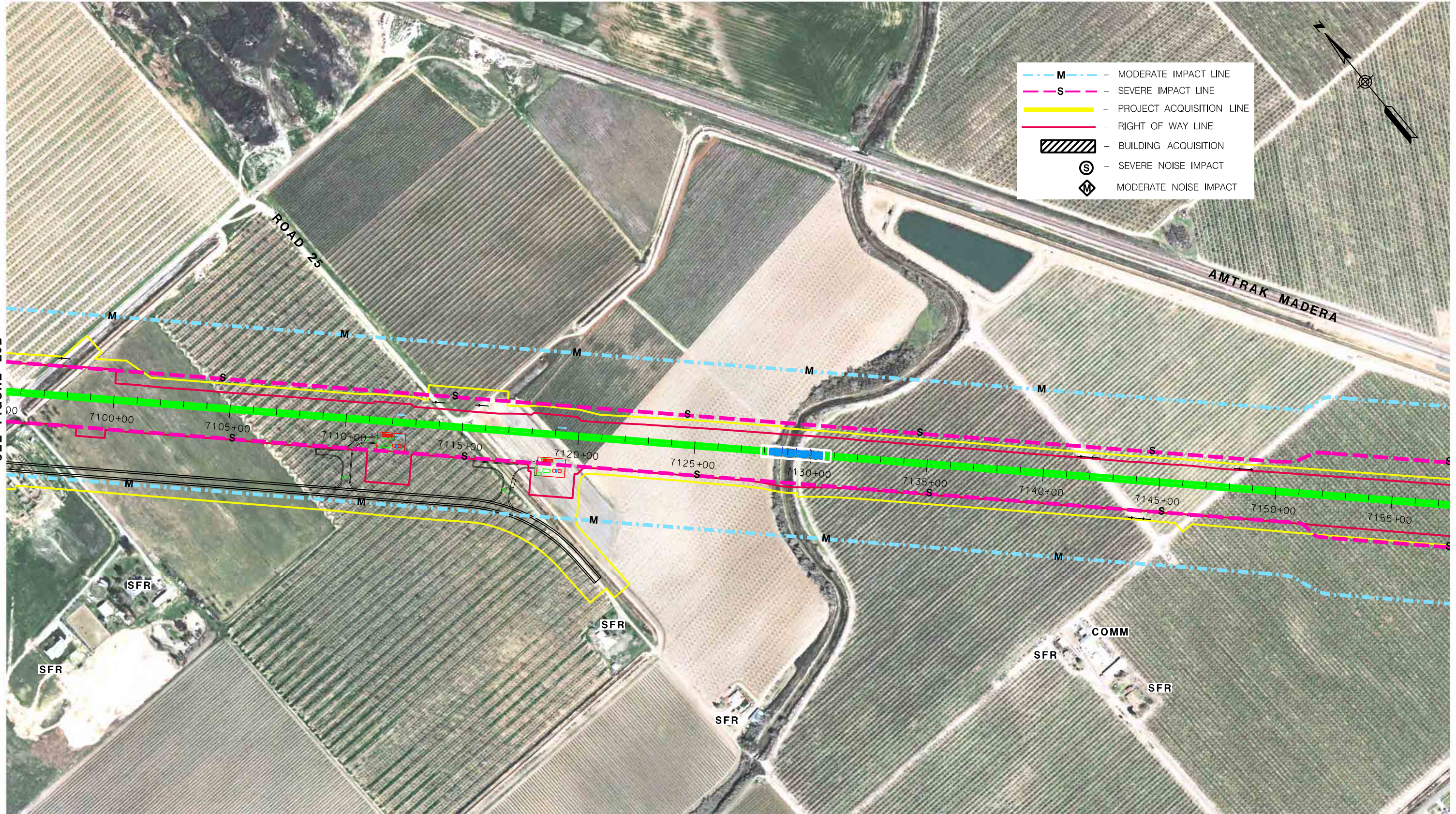
- - TRACK IN TRENCH
- - TRACK IN TUNNEL
- - TRACK AT GRADE
- - TRACK ON AERIAL



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OCTOBER 17, 2016 FIGURE 25B



SEE FIGURE 25B

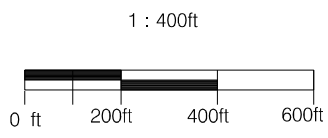
SEE FIGURE 27B

LEGEND

- ⊕ Nxx - NOISE MEASUREMENT SITE
- ⊕ Vxx - VIBRATION MEASUREMENT SITE
- SOUNDWALL

- SFR OR S - SINGLE FAMILY RESIDENTIAL
- COMM OR C - COMMERCIAL

- TRACK IN TRENCH
- TRACK IN TUNNEL
- TRACK AT GRADE
- TRACK ON AERIAL

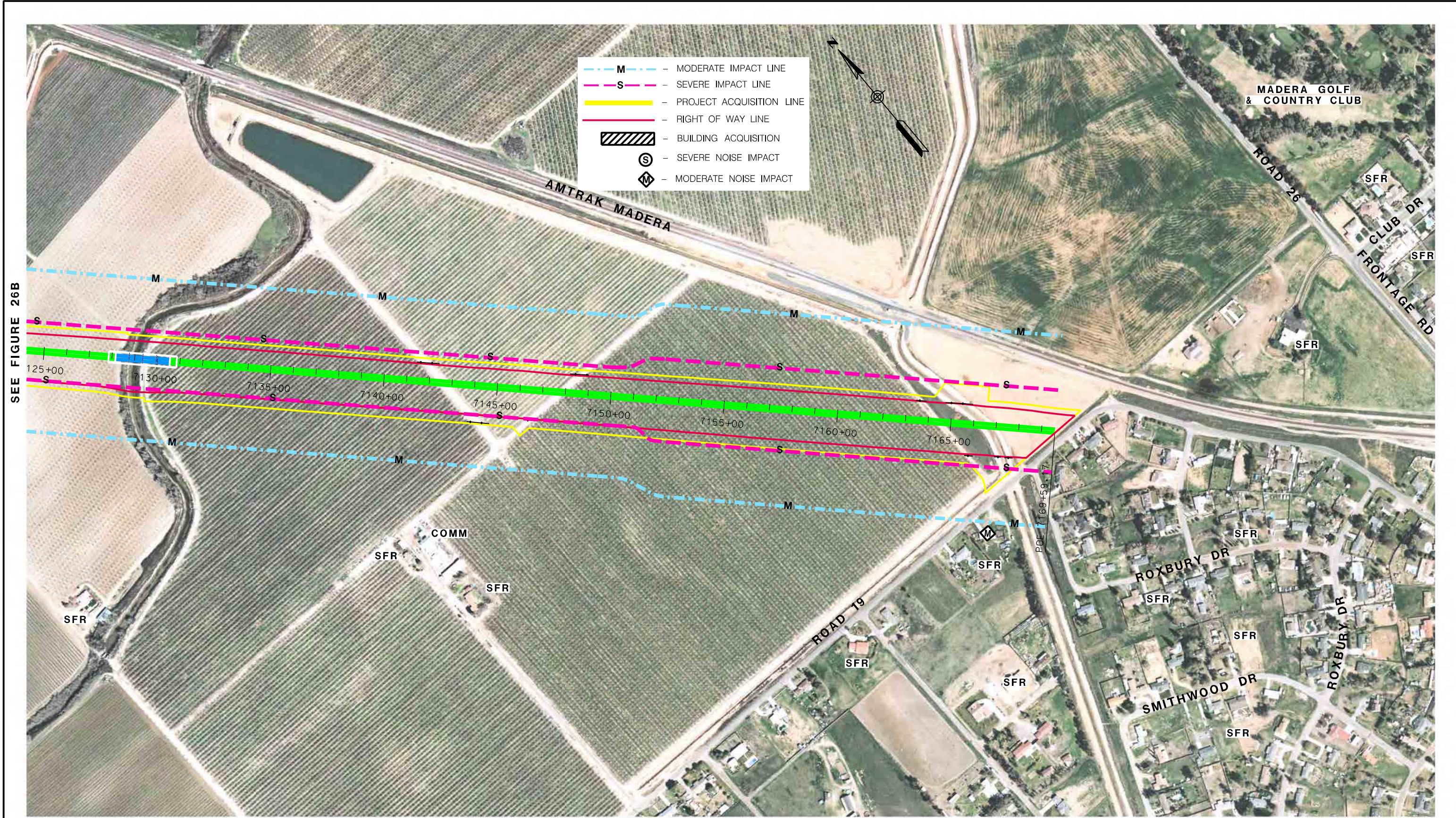


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 SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE

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FIGURE 26B

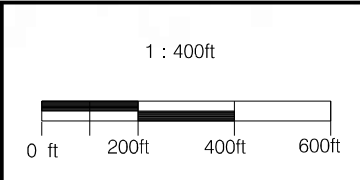


SEE FIGURE 26B

- M --- MODERATE IMPACT LINE
- S --- SEVERE IMPACT LINE
- --- PROJECT ACQUISITION LINE
- --- RIGHT OF WAY LINE
- BUILDING ACQUISITION
- SEVERE NOISE IMPACT
- MODERATE NOISE IMPACT

LEGEND

- NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	--- - TRACK IN TRENCH
- VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	--- - TRACK IN TUNNEL
- SOUNDWALL		--- - TRACK AT GRADE
		--- - TRACK ON AERIAL

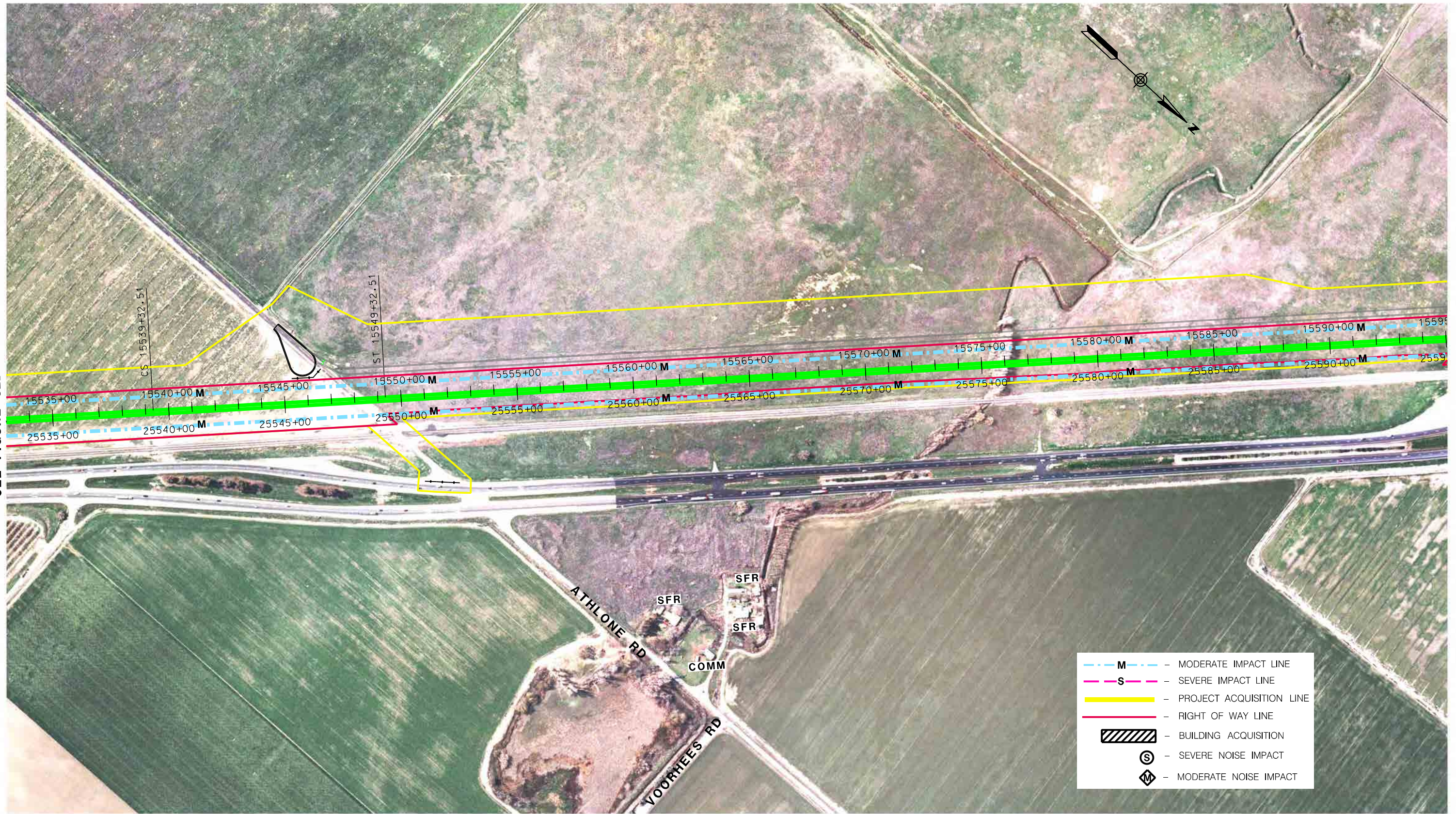


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 SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE**

OCTOBER 17, 2016	FIGURE 27B
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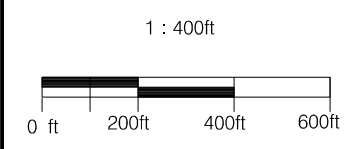
SEE FIGURE 32B



LEGEND
 ⊕ Nxx - NOISE MEASUREMENT SITE
 ⊕ Vxx - VIBRATION MEASUREMENT SITE
 ○ - SOUNDWALL

SFR OR S - SINGLE FAMILY RESIDENTIAL
 COMM OR C - COMMERCIAL

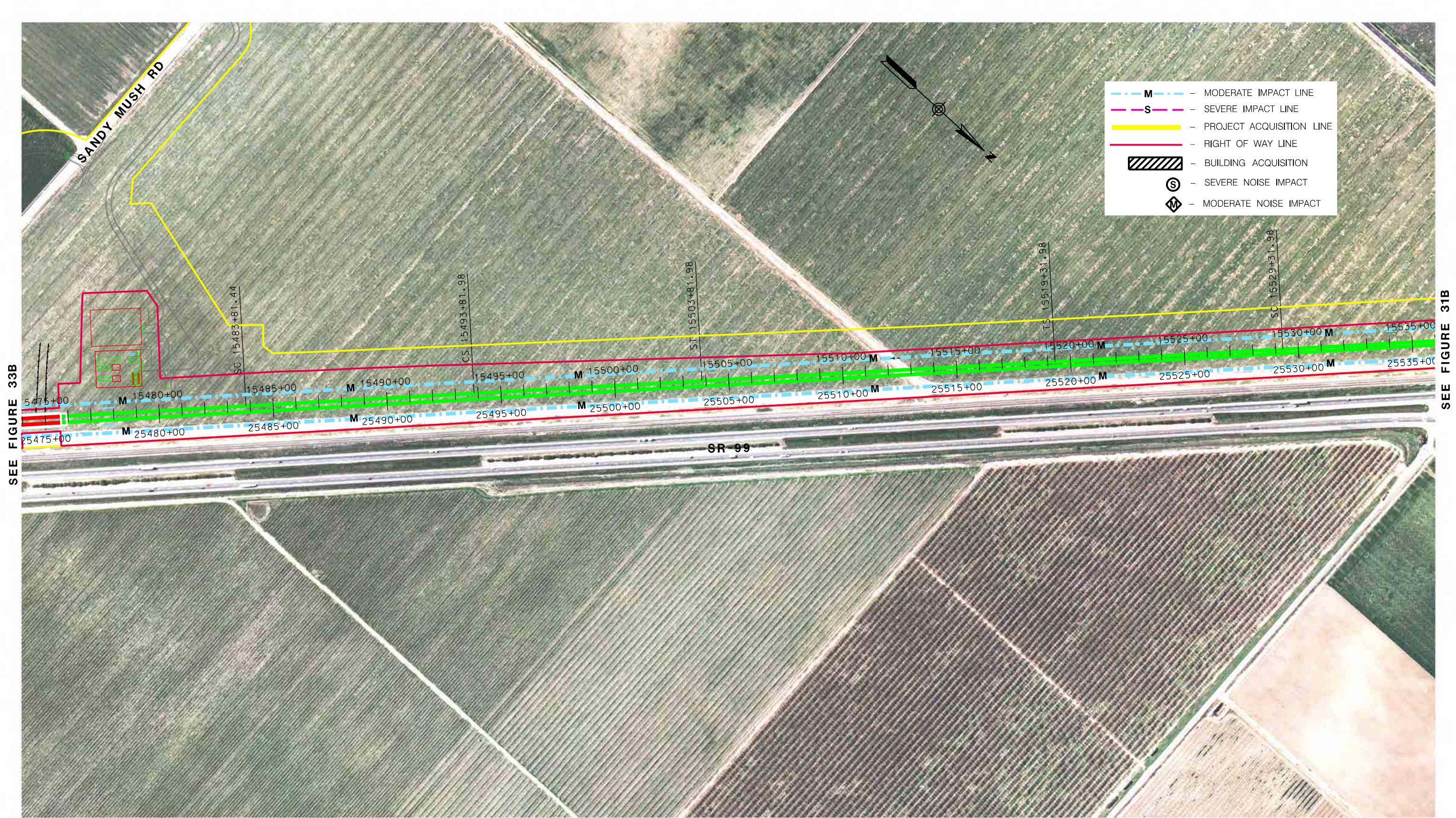
— TRACK IN TRENCH
 — TRACK IN TUNNEL
 — TRACK AT GRADE
 — TRACK ON AERIAL



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— M — MODERATE IMPACT LINE
 — S — SEVERE IMPACT LINE
 — PROJECT ACQUISITION LINE
 — RIGHT OF WAY LINE
 ▨ - BUILDING ACQUISITION
 ⊕ - SEVERE NOISE IMPACT
 ⊕ - MODERATE NOISE IMPACT

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 NOISE IMPACTS AND MITIGATION
 SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE
 OCTOBER 17, 2016
 FIGURE 31B



SEE FIGURE 33B

SEE FIGURE 31B

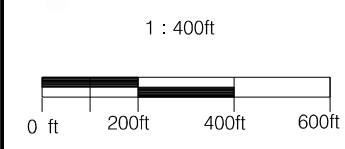
	- MODERATE IMPACT LINE
	- SEVERE IMPACT LINE
	- PROJECT ACQUISITION LINE
	- RIGHT OF WAY LINE
	- BUILDING ACQUISITION
	- SEVERE NOISE IMPACT
	- MODERATE NOISE IMPACT

LEGEND

- NOISE MEASUREMENT SITE
- VIBRATION MEASUREMENT SITE
- SOUNDWALL

SFR OR S - SINGLE FAMILY RESIDENTIAL
COMM OR C - COMMERCIAL

- TRACK IN TRENCH
 - TRACK IN TUNNEL
 - TRACK AT GRADE
 - TRACK ON AERIAL

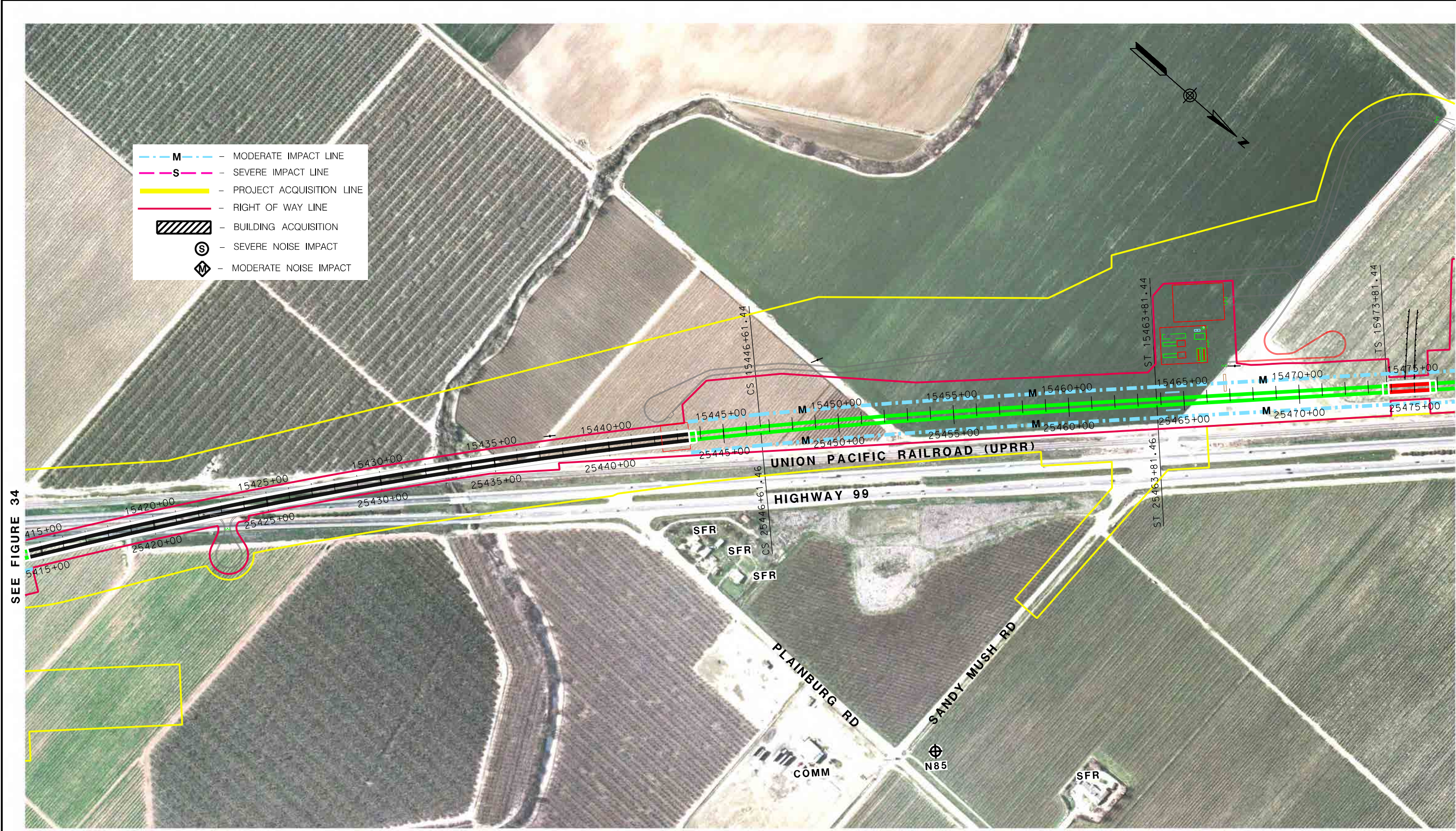


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 SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE**

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FIGURE 32B



- M --- MODERATE IMPACT LINE
- S --- SEVERE IMPACT LINE
- --- PROJECT ACQUISITION LINE
- --- RIGHT OF WAY LINE
- / / / / --- BUILDING ACQUISITION
- S --- SEVERE NOISE IMPACT
- M --- MODERATE NOISE IMPACT

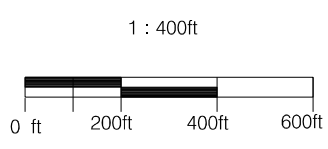
SEE FIGURE 34

SEE FIGURE 32B

- LEGEND**
- Nxx - NOISE MEASUREMENT SITE
 - Vxx - VIBRATION MEASUREMENT SITE
 - SOUNDWALL

- SFR OR S** - SINGLE FAMILY RESIDENTIAL
- COMM OR C** - COMMERCIAL

- - TRACK IN TRENCH
- - TRACK IN TUNNEL
- - TRACK AT GRADE
- - TRACK ON AERIAL

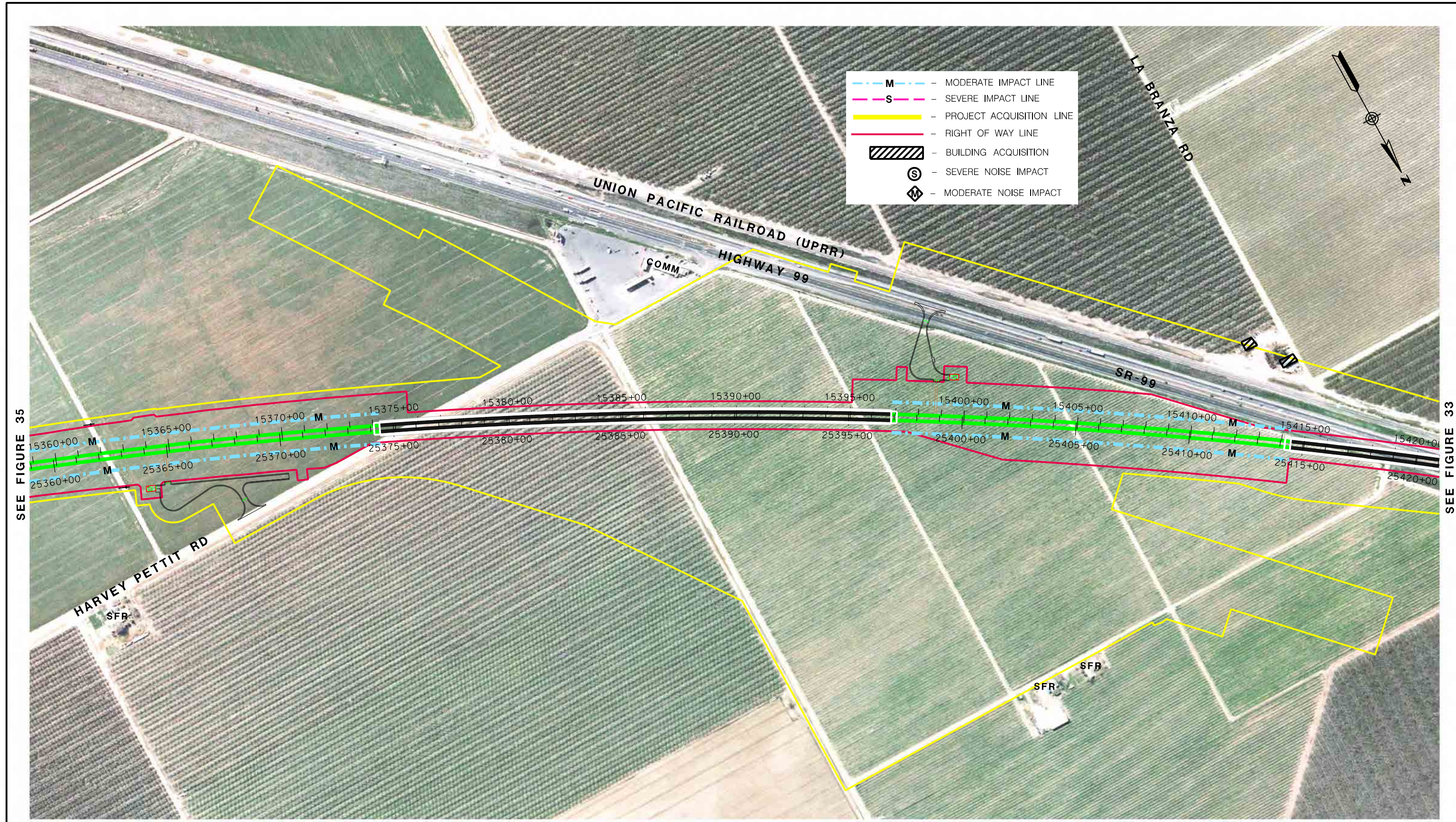


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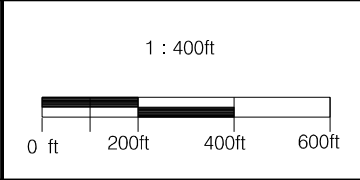
FIGURE 33B



SEE FIGURE 35

SEE FIGURE 33

LEGEND		
	Nxx - NOISE MEASUREMENT SITE	
	Vxx - VIBRATION MEASUREMENT SITE	
	- SOUNDWALL	
	SFR OR S - SINGLE FAMILY RESIDENTIAL	
	COMM OR C - COMMERCIAL	



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FIGURE 34



SEE FIGURE 36

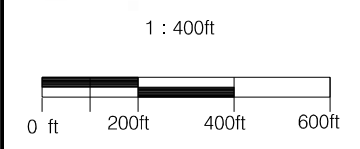
SEE FIGURE 34

- M --- MODERATE IMPACT LINE
- S --- SEVERE IMPACT LINE
- --- PROJECT ACQUISITION LINE
- --- RIGHT OF WAY LINE
- BUILDING ACQUISITION
- SEVERE NOISE IMPACT
- MODERATE NOISE IMPACT

- LEGEND**
- Nxx - NOISE MEASUREMENT SITE
 - Vxx - VIBRATION MEASUREMENT SITE
 - SOUNDWALL

- SFR OR S - SINGLE FAMILY RESIDENTIAL
- COMM OR C - COMMERCIAL

- - TRACK IN TRENCH
- - TRACK IN TUNNEL
- - TRACK AT GRADE
- - TRACK ON AERIAL

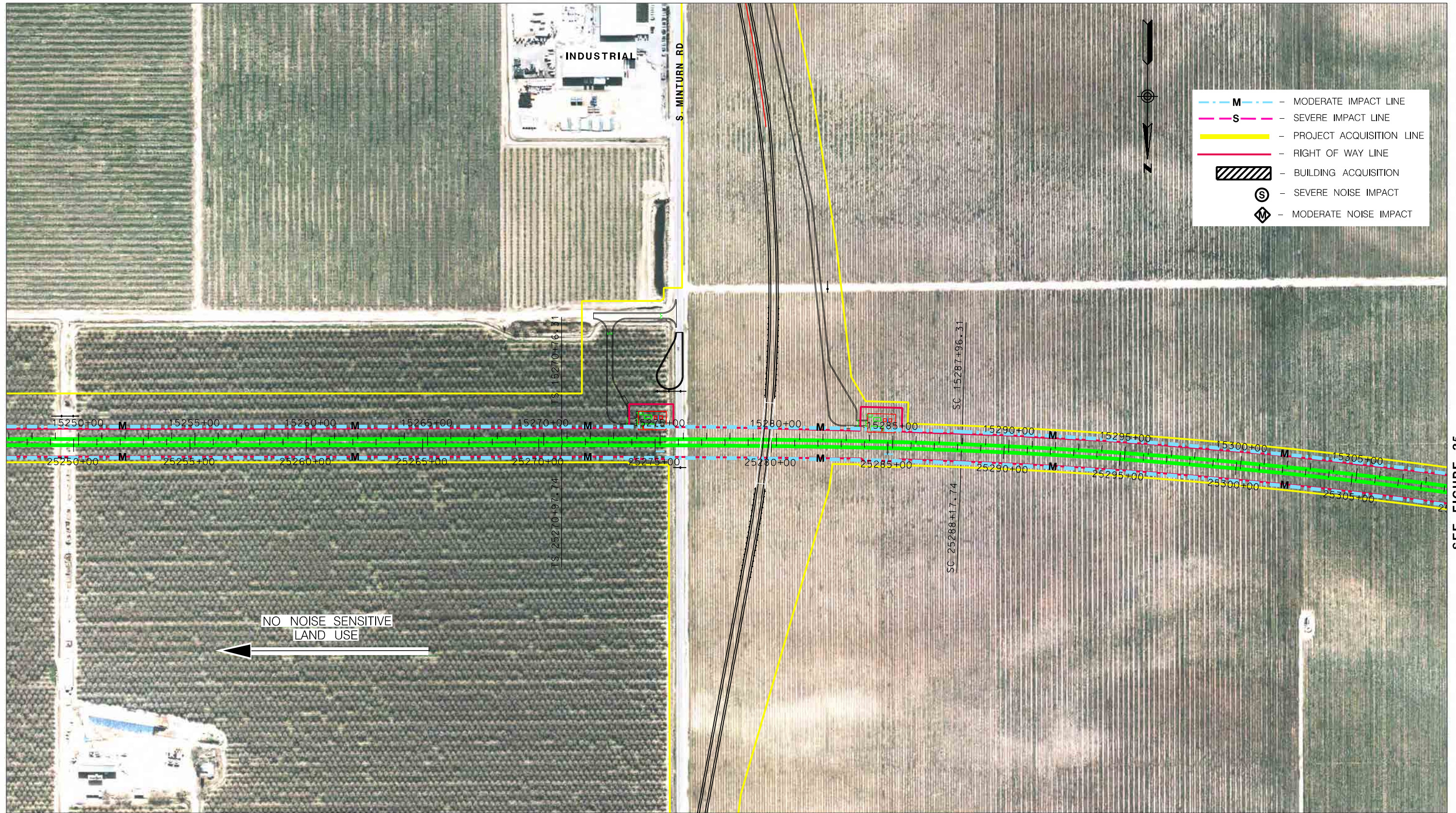


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FIGURE 35



SEE FIGURE 35

NO NOISE SENSITIVE
LAND USE

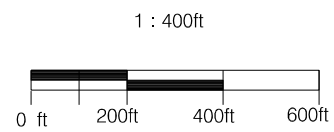


LEGEND

- ⊕ Nxx - NOISE MEASUREMENT SITE
- ⊕ Vxx - VIBRATION MEASUREMENT SITE
- SOUNDWALL

- SFR OR S - SINGLE FAMILY RESIDENTIAL
- COMM OR C - COMMERCIAL

- TRACK IN TRENCH
- TRACK IN TUNNEL
- TRACK AT GRADE
- TRACK ON AERIAL

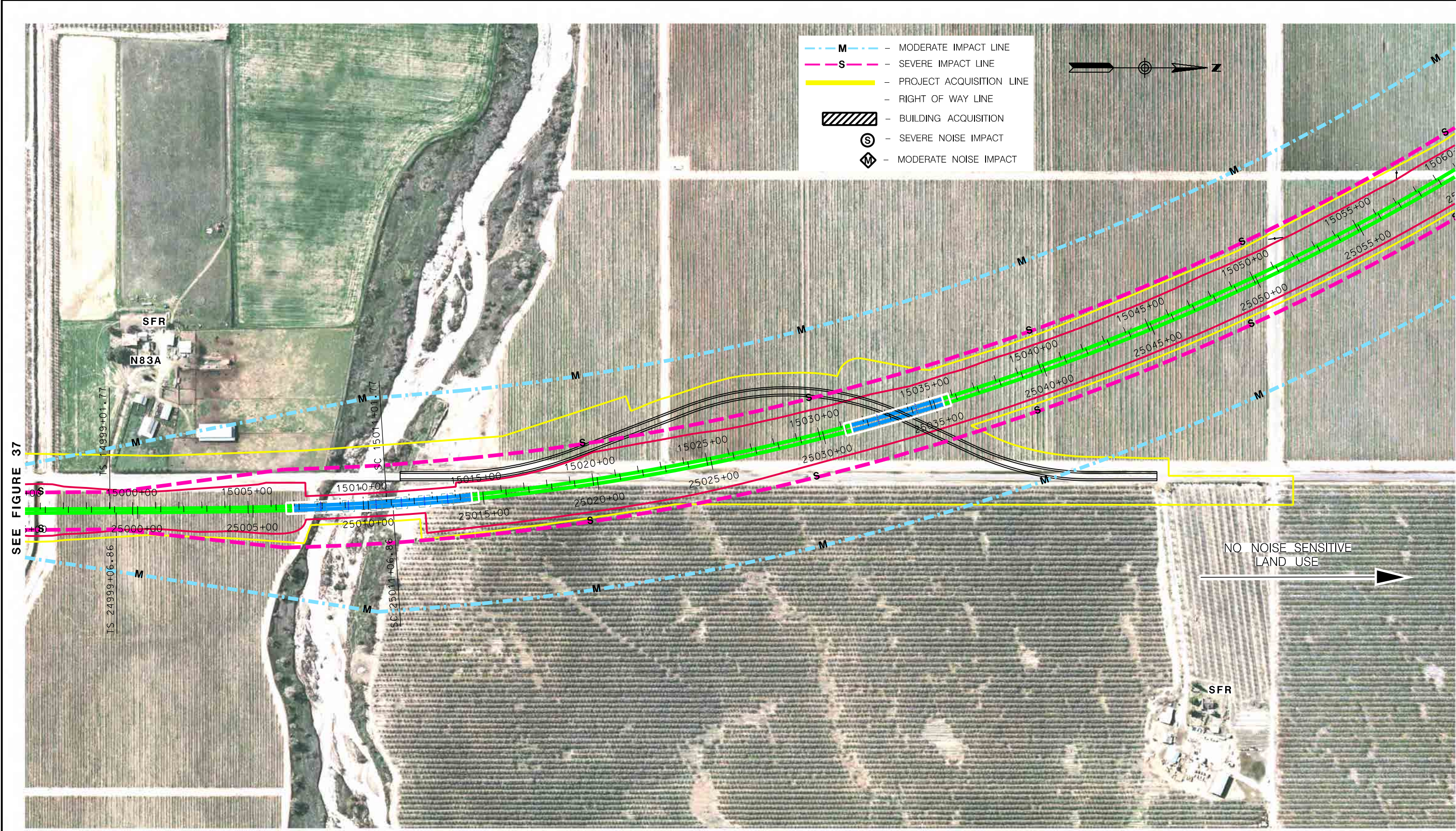


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FIGURE 36



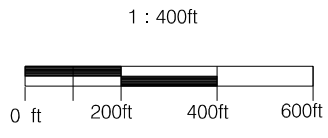
SEE FIGURE 37

LEGEND

- ⊕ Nxx - NOISE MEASUREMENT SITE
- ⊕ Vxx - VIBRATION MEASUREMENT SITE
- SOUNDWALL

- SFR OR S - SINGLE FAMILY RESIDENTIAL
- COMM OR C - COMMERCIAL

- TRACK IN TRENCH
- TRACK IN TUNNEL
- TRACK AT GRADE
- TRACK ON AERIAL



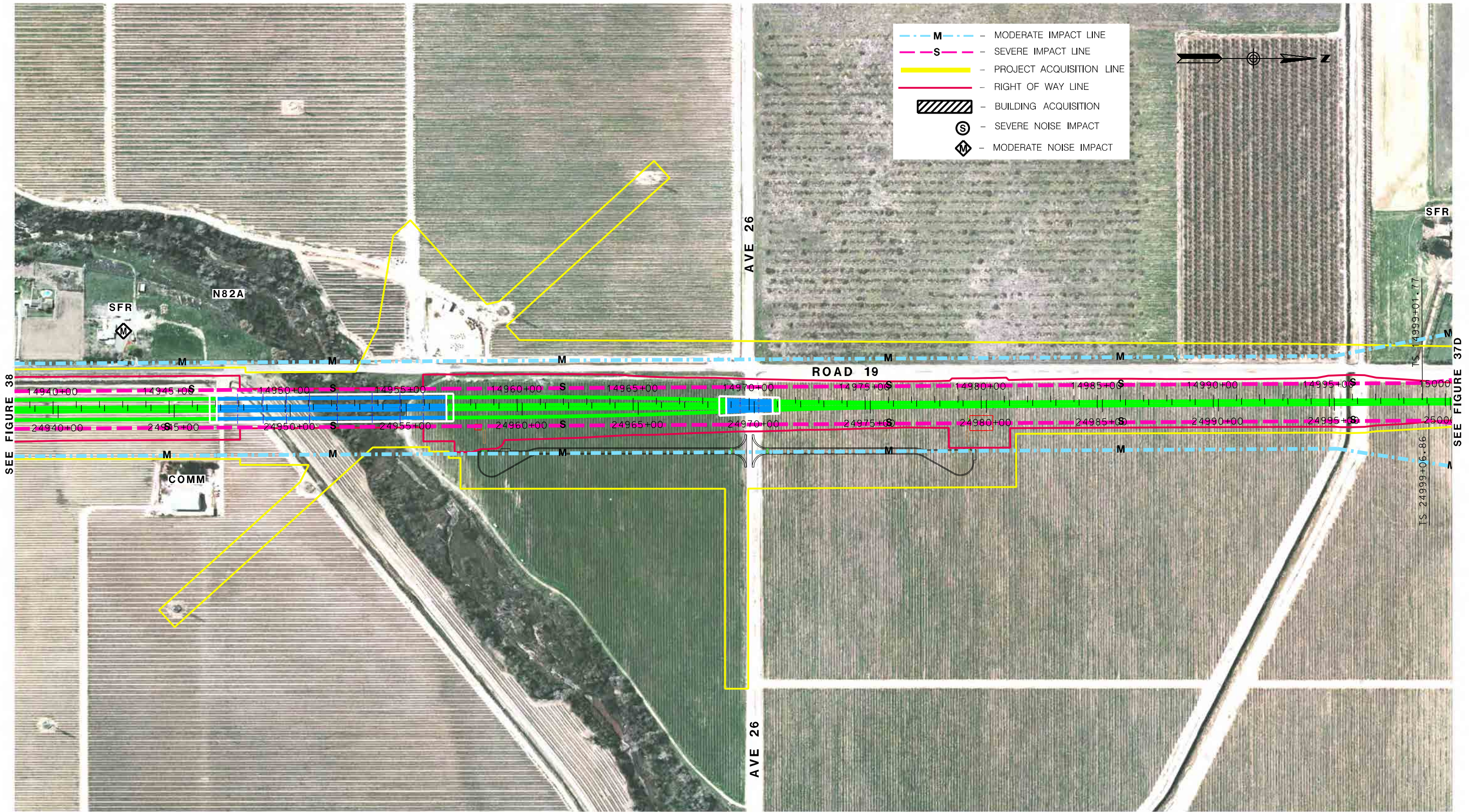
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NOISE IMPACTS AND MITIGATION
SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE

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FIGURE 37D

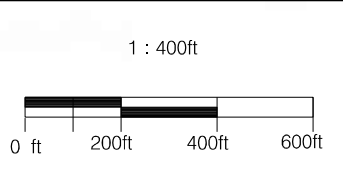


- - - M - MODERATE IMPACT LINE
- - - S - SEVERE IMPACT LINE
- - PROJECT ACQUISITION LINE
- - RIGHT OF WAY LINE
- / / / - BUILDING ACQUISITION
- S - SEVERE NOISE IMPACT
- M - MODERATE NOISE IMPACT

SEE FIGURE 38

SEE FIGURE 37D

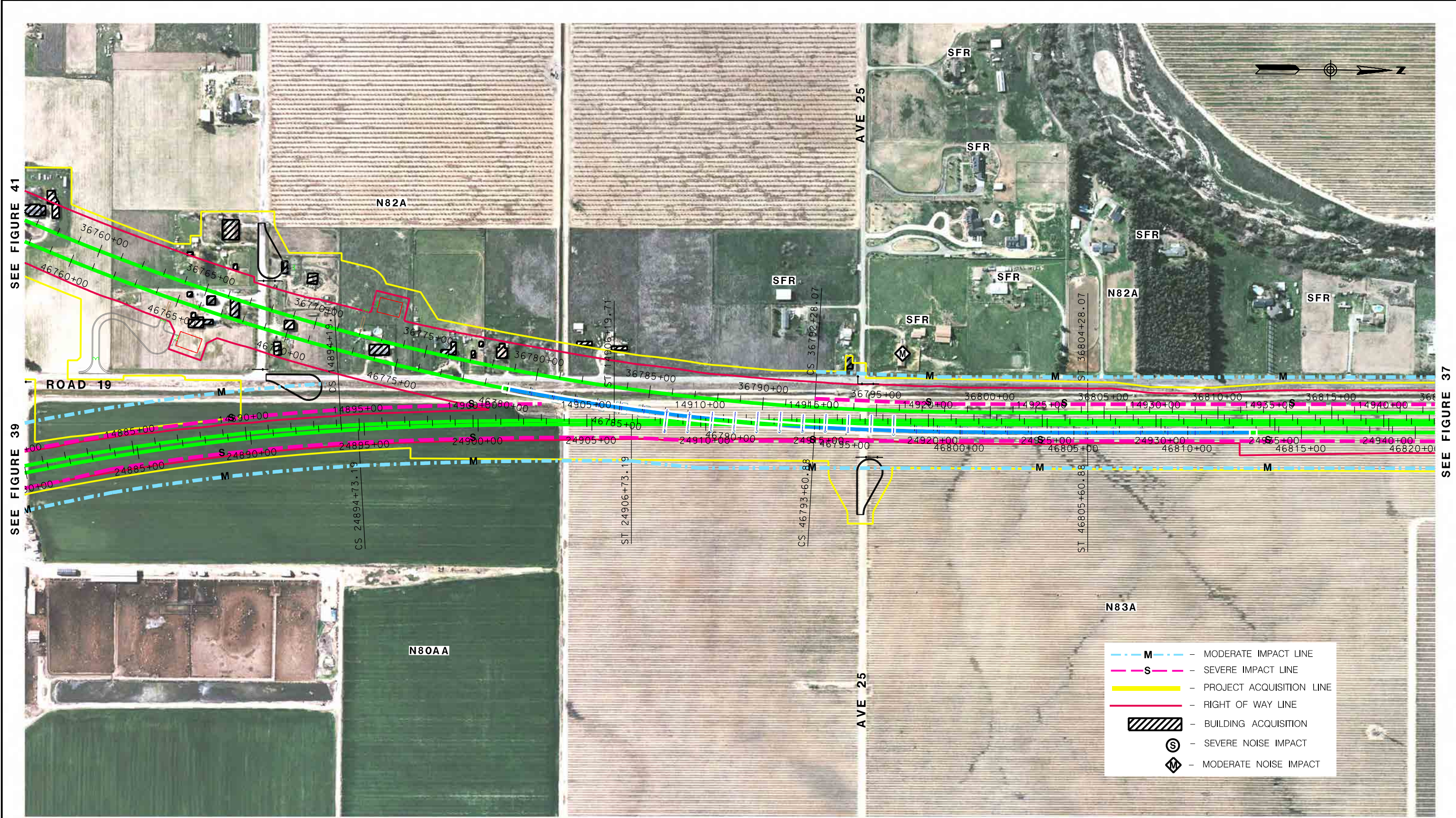
LEGEND		
Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	— - TRACK IN TRENCH
Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	— - TRACK IN TUNNEL
 - SOUNDWALL		— - TRACK AT GRADE
		— - TRACK ON AERIAL



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OCTOBER 17, 2016	FIGURE 37
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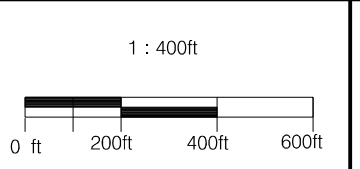


SEE FIGURE 41

SEE FIGURE 39

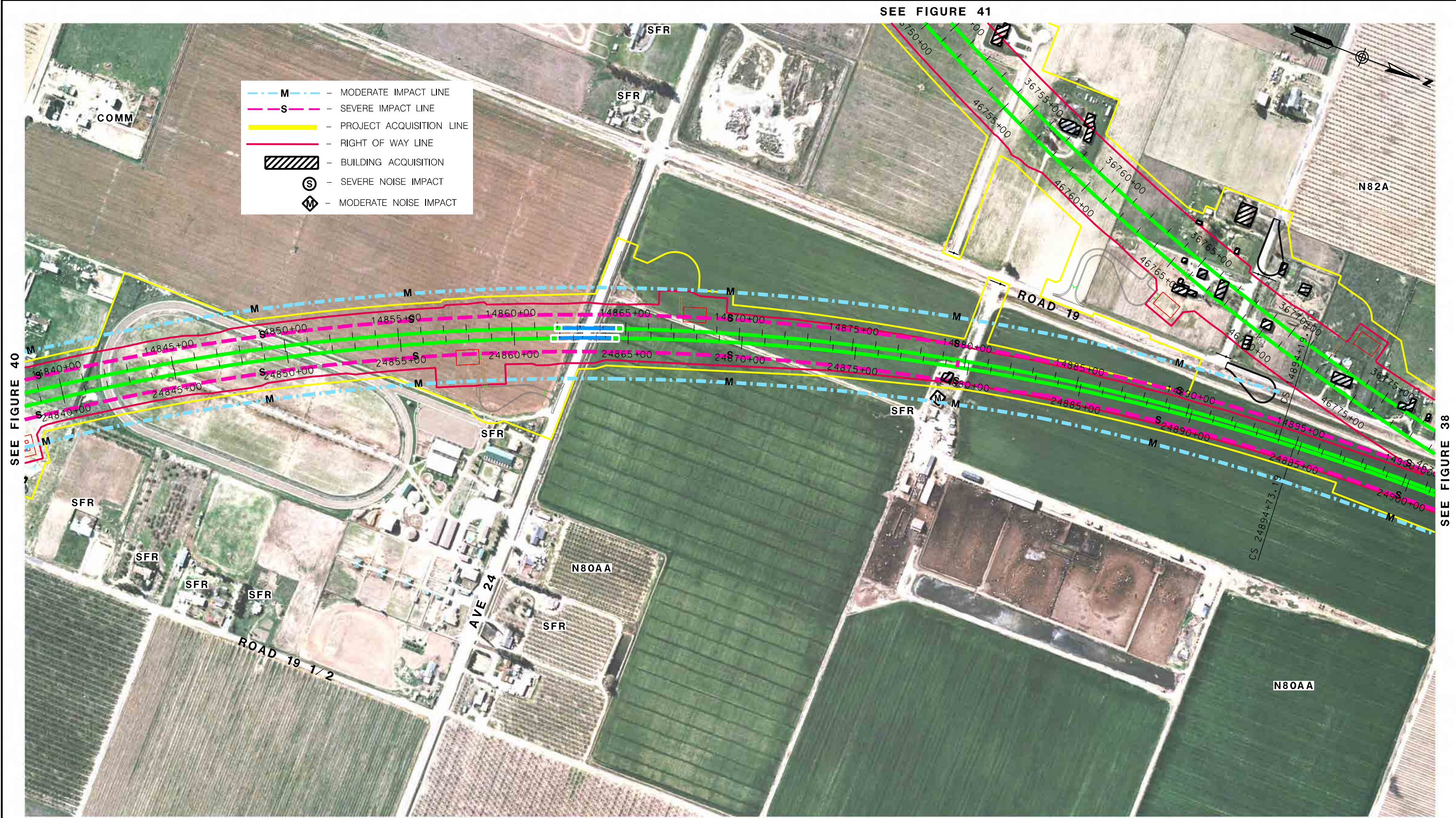
SEE FIGURE 37

LEGEND			
	Nxx - NOISE MEASUREMENT SITE		- TRACK IN TRENCH
	Vxx - VIBRATION MEASUREMENT SITE		- TRACK IN TUNNEL
	- SOUNDWALL		- TRACK AT GRADE
	SFR OR S - SINGLE FAMILY RESIDENTIAL		- TRACK ON AERIAL
	COMM OR C - COMMERCIAL		



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 OCTOBER 17, 2016
 FIGURE 38

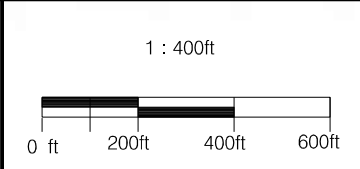


SEE FIGURE 40

SEE FIGURE 41

SEE FIGURE 38

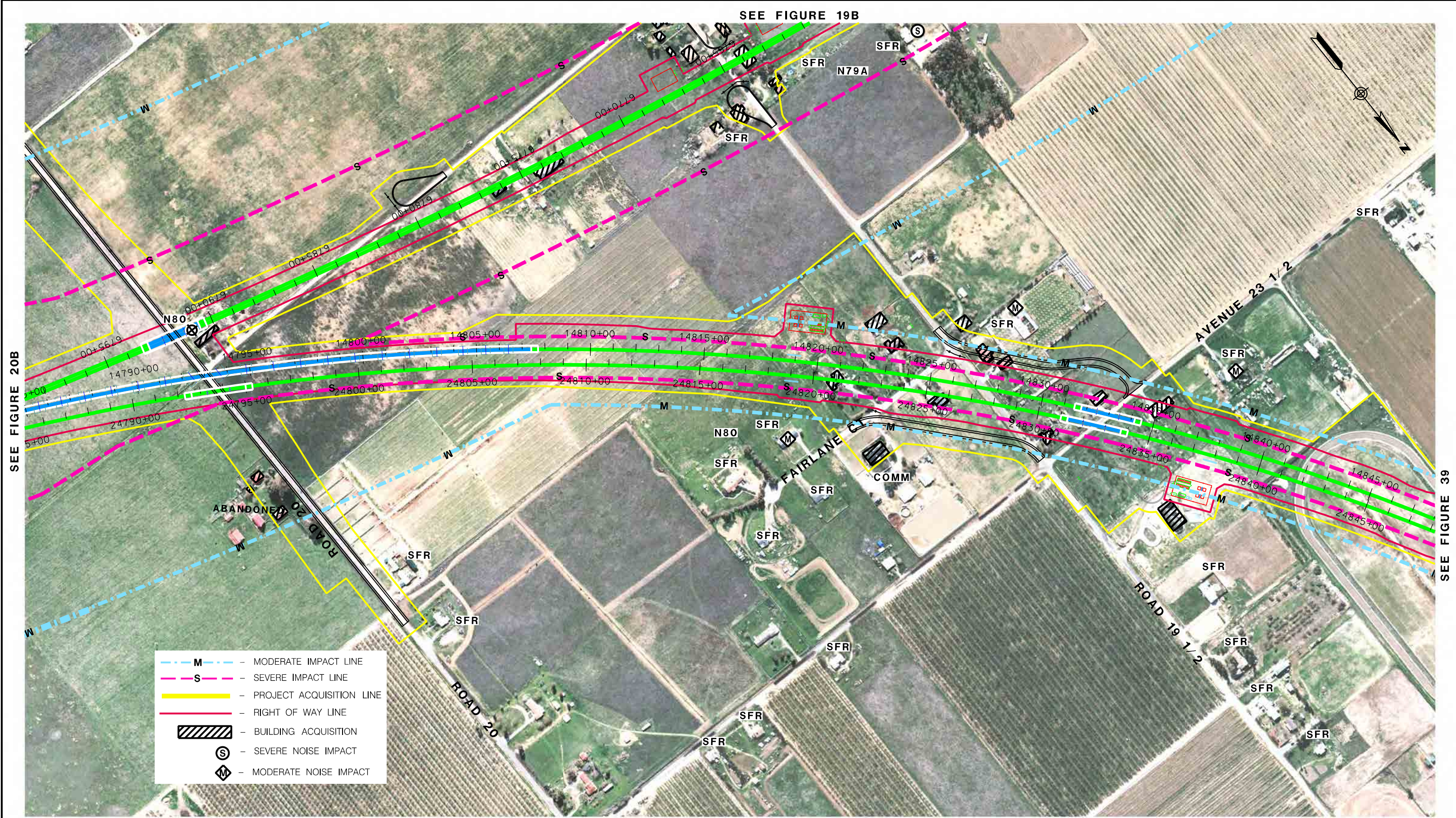
LEGEND		
Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	- TRACK IN TRENCH
Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	- TRACK IN TUNNEL
- SOUNDWALL		- TRACK AT GRADE
		- TRACK ON AERIAL



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OCTOBER 17, 2016 **FIGURE 39**



SEE FIGURE 20B

SEE FIGURE 19B

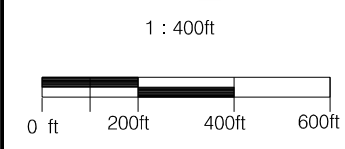
SEE FIGURE 39

- M --- MODERATE IMPACT LINE
- S --- SEVERE IMPACT LINE
- --- PROJECT ACQUISITION LINE
- --- RIGHT OF WAY LINE
- / / / / --- BUILDING ACQUISITION
- S --- SEVERE NOISE IMPACT
- M --- MODERATE NOISE IMPACT

- LEGEND**
- Nxx - NOISE MEASUREMENT SITE
 - Vxx - VIBRATION MEASUREMENT SITE
 - SOUNDWALL

- SFR OR S** - SINGLE FAMILY RESIDENTIAL
- COMM OR C** - COMMERCIAL

- - TRACK IN TRENCH
- - TRACK IN TUNNEL
- - TRACK AT GRADE
- - TRACK ON AERIAL



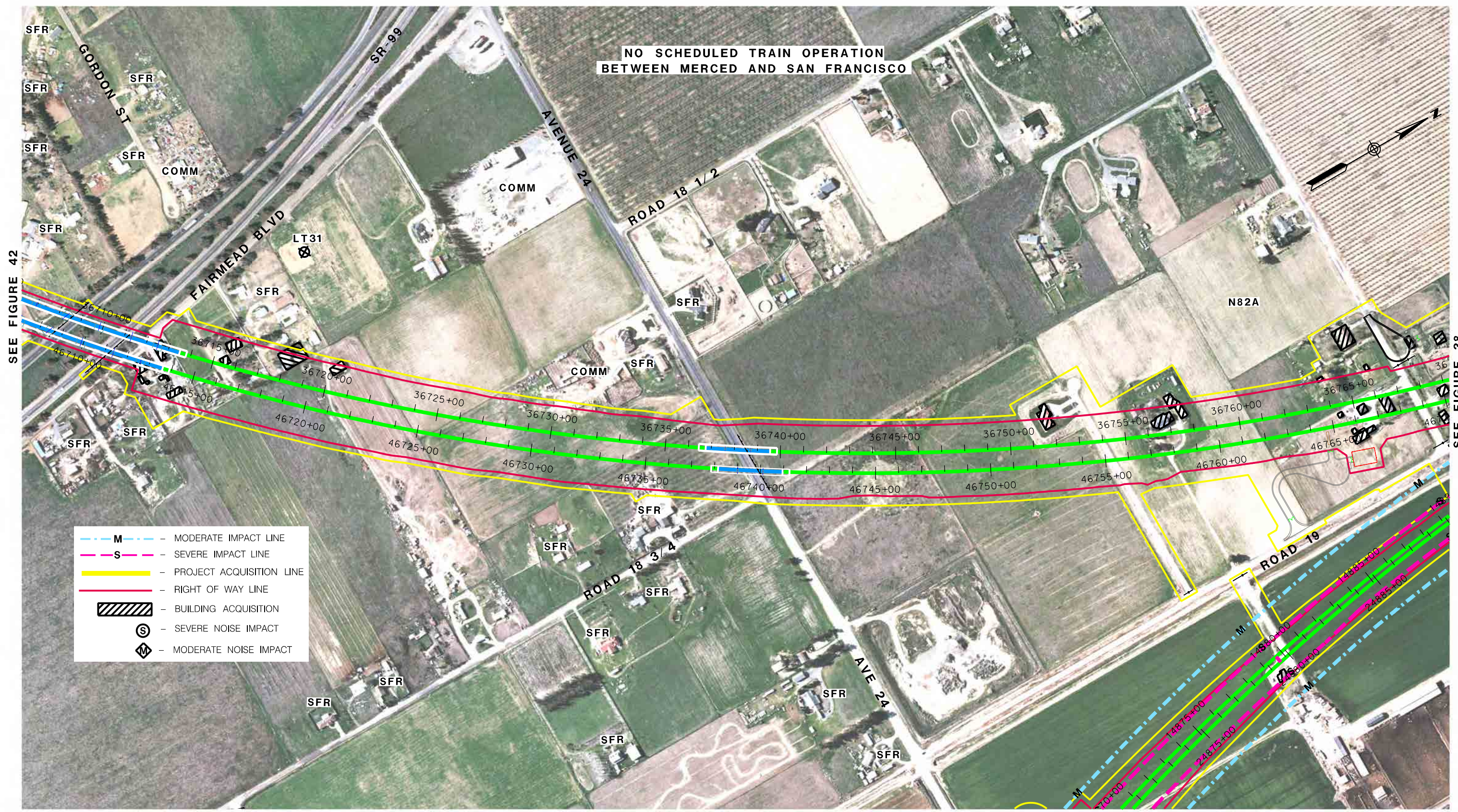
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 NOISE IMPACTS AND MITIGATION
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FIGURE 40

NO SCHEDULED TRAIN OPERATION
BETWEEN MERCED AND SAN FRANCISCO



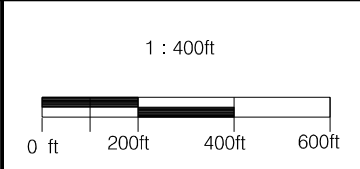
SEE FIGURE 42

SEE FIGURE 38

	M	- MODERATE IMPACT LINE
	S	- SEVERE IMPACT LINE
		- PROJECT ACQUISITION LINE
		- RIGHT OF WAY LINE
		- BUILDING ACQUISITION
	S	- SEVERE NOISE IMPACT
	M	- MODERATE NOISE IMPACT

SEE FIGURE 39

	Nxx	- NOISE MEASUREMENT SITE
	Vxx	- VIBRATION MEASUREMENT SITE
		- SOUNDWALL
SFR OR S		- SINGLE FAMILY RESIDENTIAL
COMM OR C		- COMMERCIAL
		- TRACK IN TRENCH
		- TRACK IN TUNNEL
		- TRACK AT GRADE
		- TRACK ON AERIAL



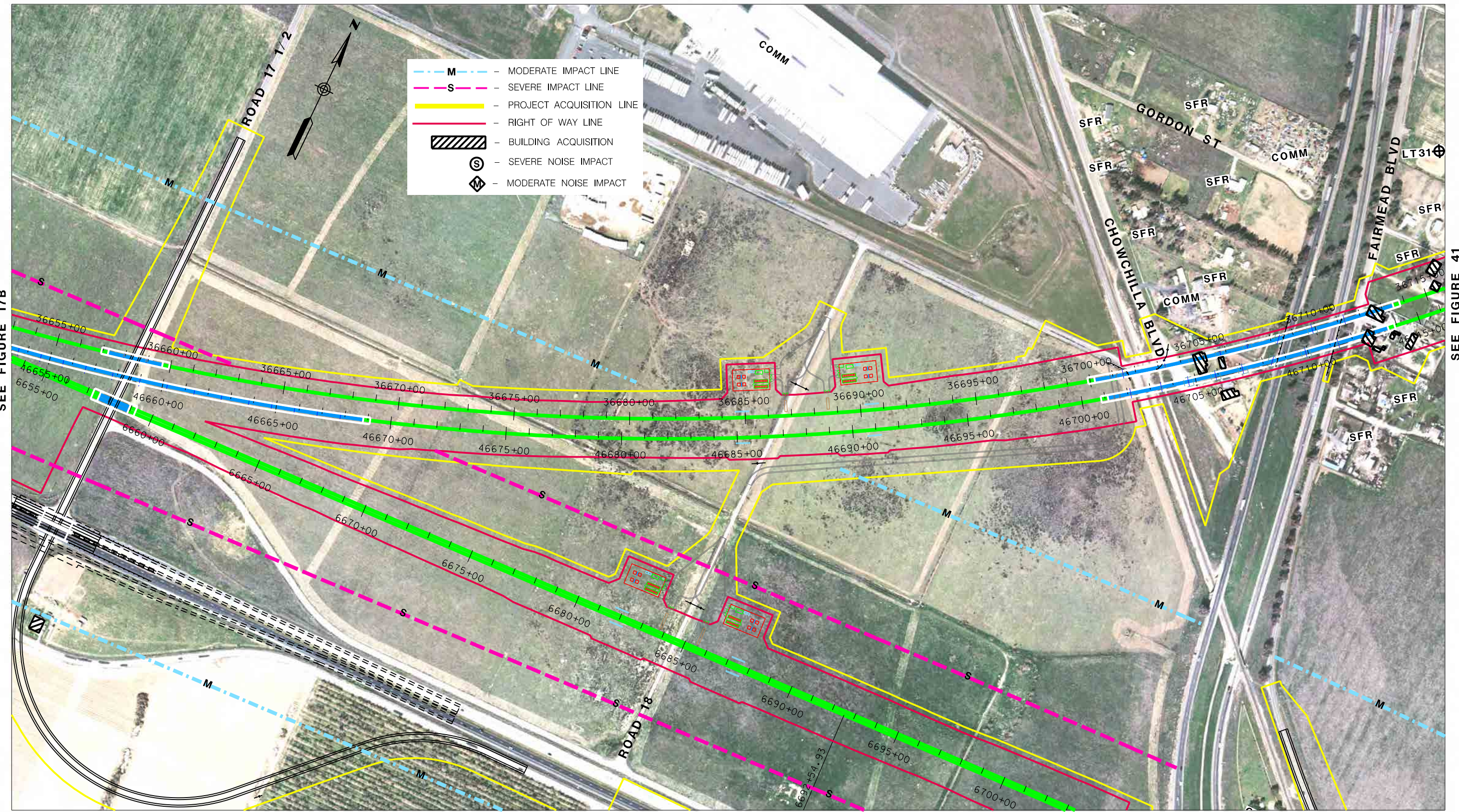
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OCTOBER 17, 2016	FIGURE 41

- M --- MODERATE IMPACT LINE
- S --- SEVERE IMPACT LINE
- --- PROJECT ACQUISITION LINE
- --- RIGHT OF WAY LINE
- BUILDING ACQUISITION
- S --- SEVERE NOISE IMPACT
- M --- MODERATE NOISE IMPACT

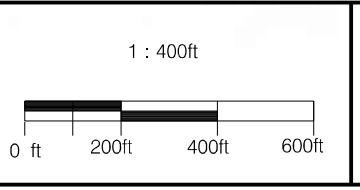
SEE FIGURE 17B

SEE FIGURE 41



SEE FIGURE 18B

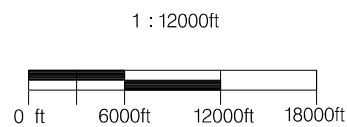
<p>LEGEND</p> <ul style="list-style-type: none"> Nxx - NOISE MEASUREMENT SITE Vxx - VIBRATION MEASUREMENT SITE - SOUNDWALL 	<ul style="list-style-type: none"> SFR OR S - SINGLE FAMILY RESIDENTIAL COMM OR C - COMMERCIAL 	<ul style="list-style-type: none"> --- - TRACK IN TRENCH --- - TRACK IN TUNNEL --- - TRACK AT GRADE --- - TRACK ON AERIAL
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 NOISE IMPACTS AND MITIGATION
 SR 152 (NORTH) TO ROAD 19 WYE ALTERNATIVE**

OCTOBER 17, 2016	FIGURE 42
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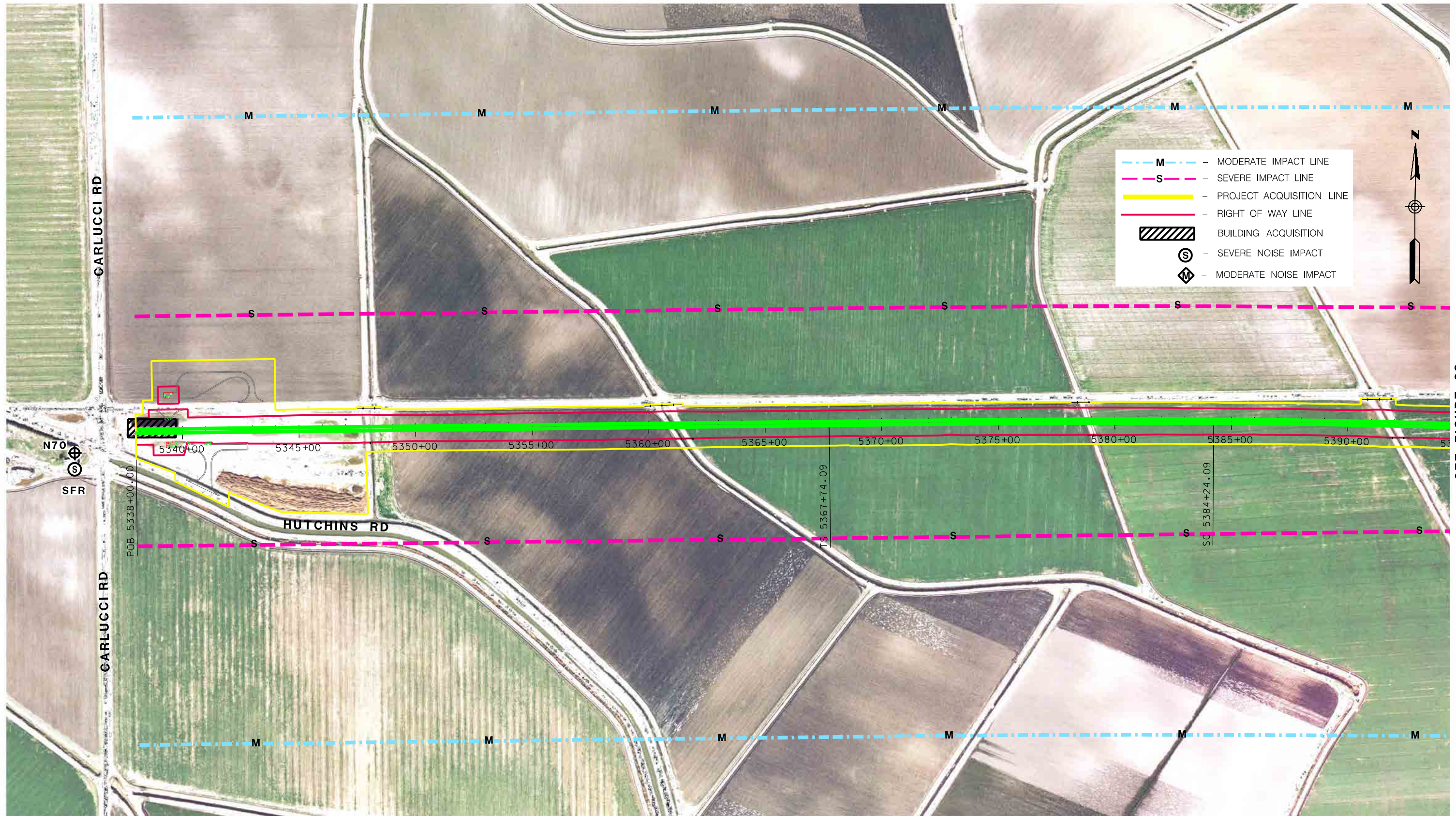


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KEY MAP

MERCED TO FRESNO SECTION:
 CENTRAL VALLEY WYE
 NOISE IMPACTS AND MITIGATION
 AVENUE 21 TO ROAD 13 WYE ALTERNATIVE

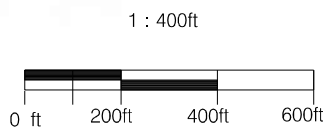
OCTOBER 17, 2016



SEE FIGURE 2C

LEGEND

- ⊕ Nxx - NOISE MEASUREMENT SITE
- ⊕ Vxx - VIBRATION MEASUREMENT SITE
- SOUNDWALL
- SFR OR S - SINGLE FAMILY RESIDENTIAL
- COMM OR C - COMMERCIAL
- TRACK IN TRENCH
- TRACK AT GRADE
- TRACK ON AERIAL



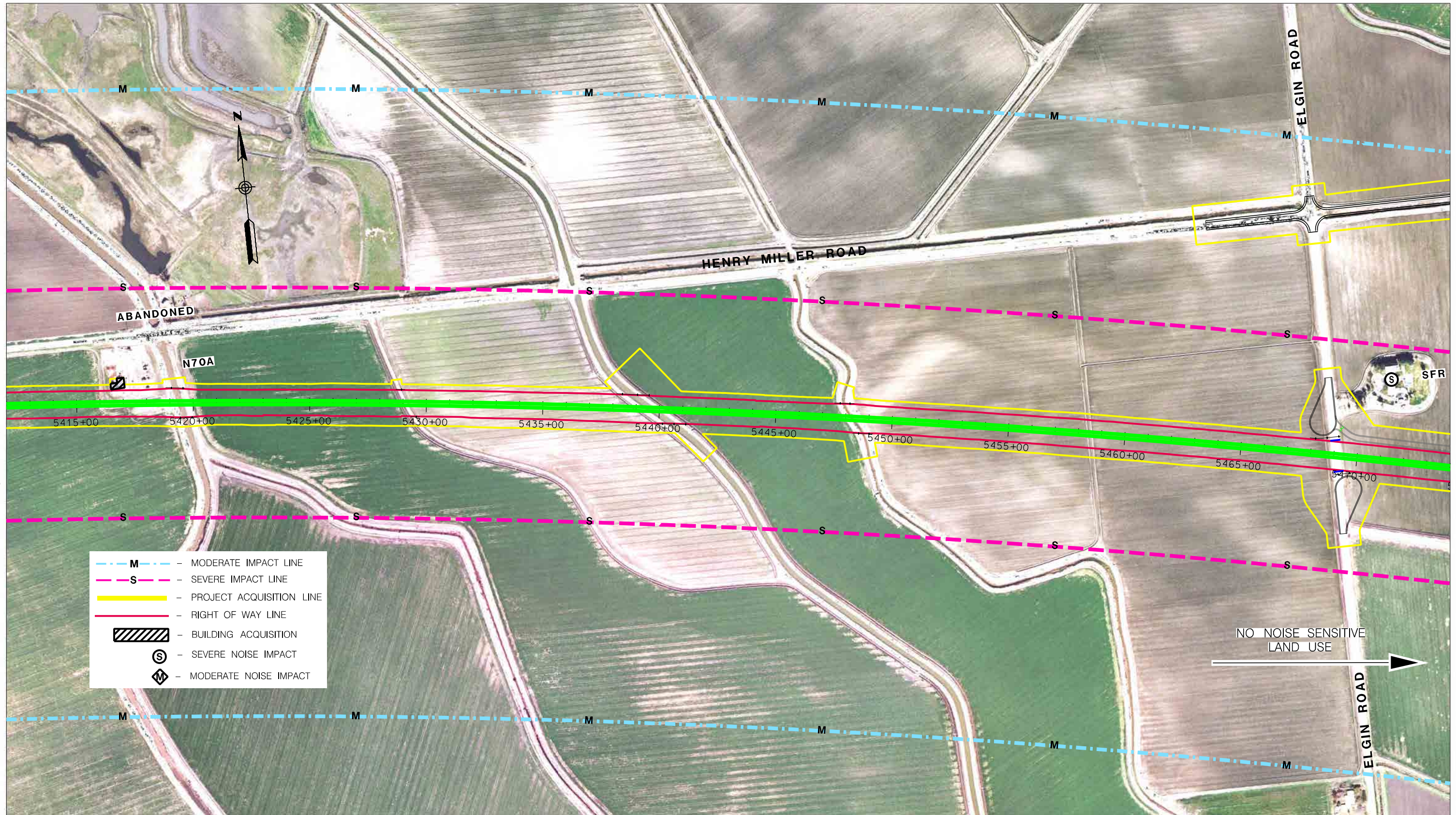
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 NOISE IMPACTS AND MITIGATION
 AVENUE 21 TO ROAD 13 WYE ALTERNATIVE**

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FIGURE 1C

SEE FIGURE 1C

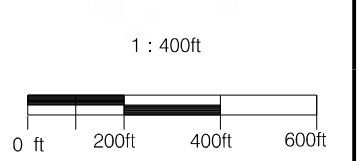


- - - M - - - - MODERATE IMPACT LINE
- - - S - - - - SEVERE IMPACT LINE
- — — - PROJECT ACQUISITION LINE
- — — - RIGHT OF WAY LINE
- ▨ - BUILDING ACQUISITION
- S - SEVERE NOISE IMPACT
- M - MODERATE NOISE IMPACT

NO NOISE SENSITIVE LAND USE

LEGEND

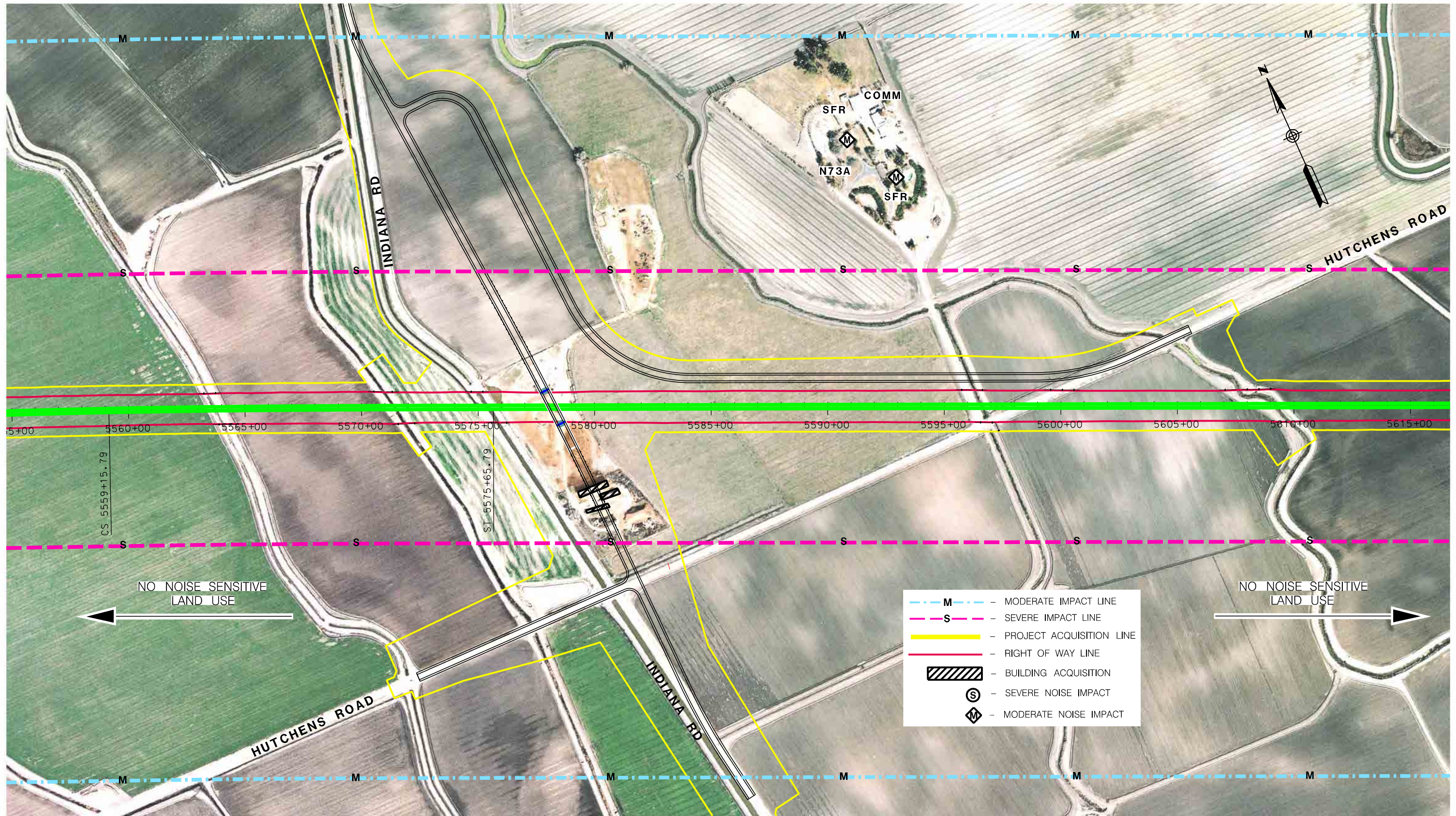
- Nxx - NOISE MEASUREMENT SITE
- Vxx - VIBRATION MEASUREMENT SITE
- SOUNDWALL
- SFR OR S** - SINGLE FAMILY RESIDENTIAL
- COMM OR C** - COMMERCIAL
- - TRACK IN TRENCH
- - TRACK AT GRADE
- - TRACK ON AERIAL



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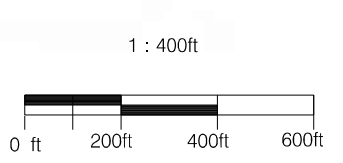
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 CENTRAL VALLEY WYE
 NOISE IMPACTS AND MITIGATION
 AVENUE 21 TO ROAD 13 WYE ALTERNATIVE**

OCTOBER 17, 2016 FIGURE 2C



	- MODERATE IMPACT LINE
	- SEVERE IMPACT LINE
	- PROJECT ACQUISITION LINE
	- RIGHT OF WAY LINE
	- BUILDING ACQUISITION
	- SEVERE NOISE IMPACT
	- MODERATE NOISE IMPACT

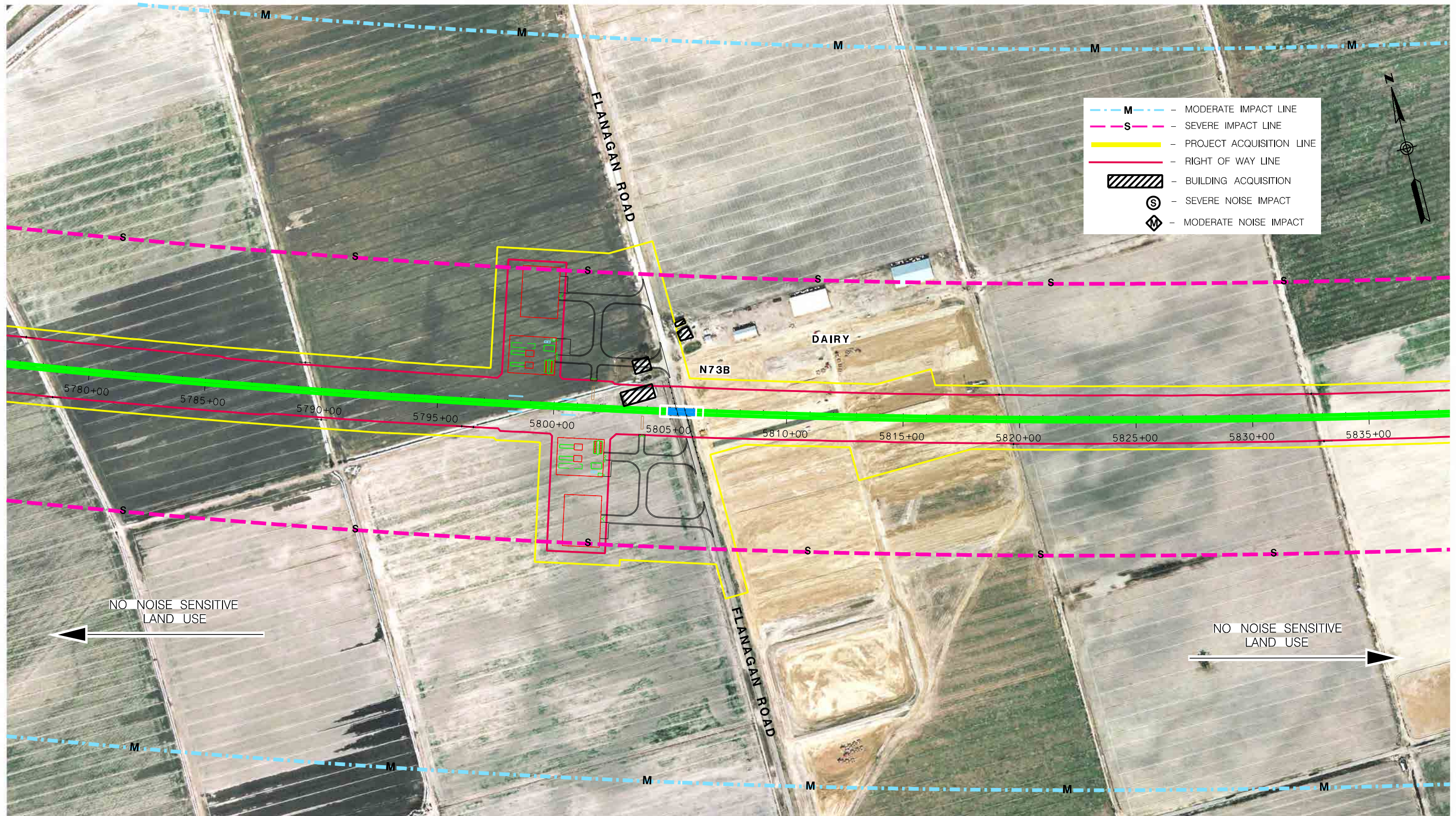
LEGEND		
	- NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL
	- VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL
	- SOUNDWALL	
		- TRACK IN TRENCH
		- TRACK AT GRADE
		- TRACK ON AERIAL



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 NOISE IMPACTS AND MITIGATION
 AVENUE 21 TO ROAD 13 WYE ALTERNATIVE**

OCTOBER 17, 2016 FIGURE 43

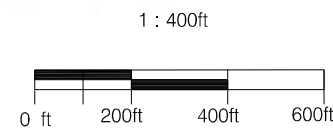


LEGEND

- ⊕ Nxx - NOISE MEASUREMENT SITE
- ⊕ Vxx - VIBRATION MEASUREMENT SITE
- SOUNDWALL

- SFR OR S - SINGLE FAMILY RESIDENTIAL
- COMM OR C - COMMERCIAL

- TRACK IN TRENCH
- TRACK AT GRADE
- TRACK ON AERIAL



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 AVENUE 21 TO ROAD 13 WYE ALTERNATIVE**

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FIGURE 44

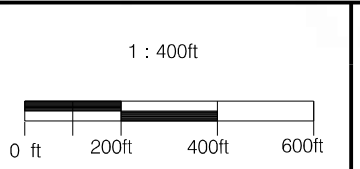


SEE FIGURE 46

- - - M - MODERATE IMPACT LINE
- - - S - SEVERE IMPACT LINE
- - PROJECT ACQUISITION LINE
- - RIGHT OF WAY LINE
- BUILDING ACQUISITION
- S - SEVERE NOISE IMPACT
- M - MODERATE NOISE IMPACT

NO NOISE SENSITIVE LAND USE

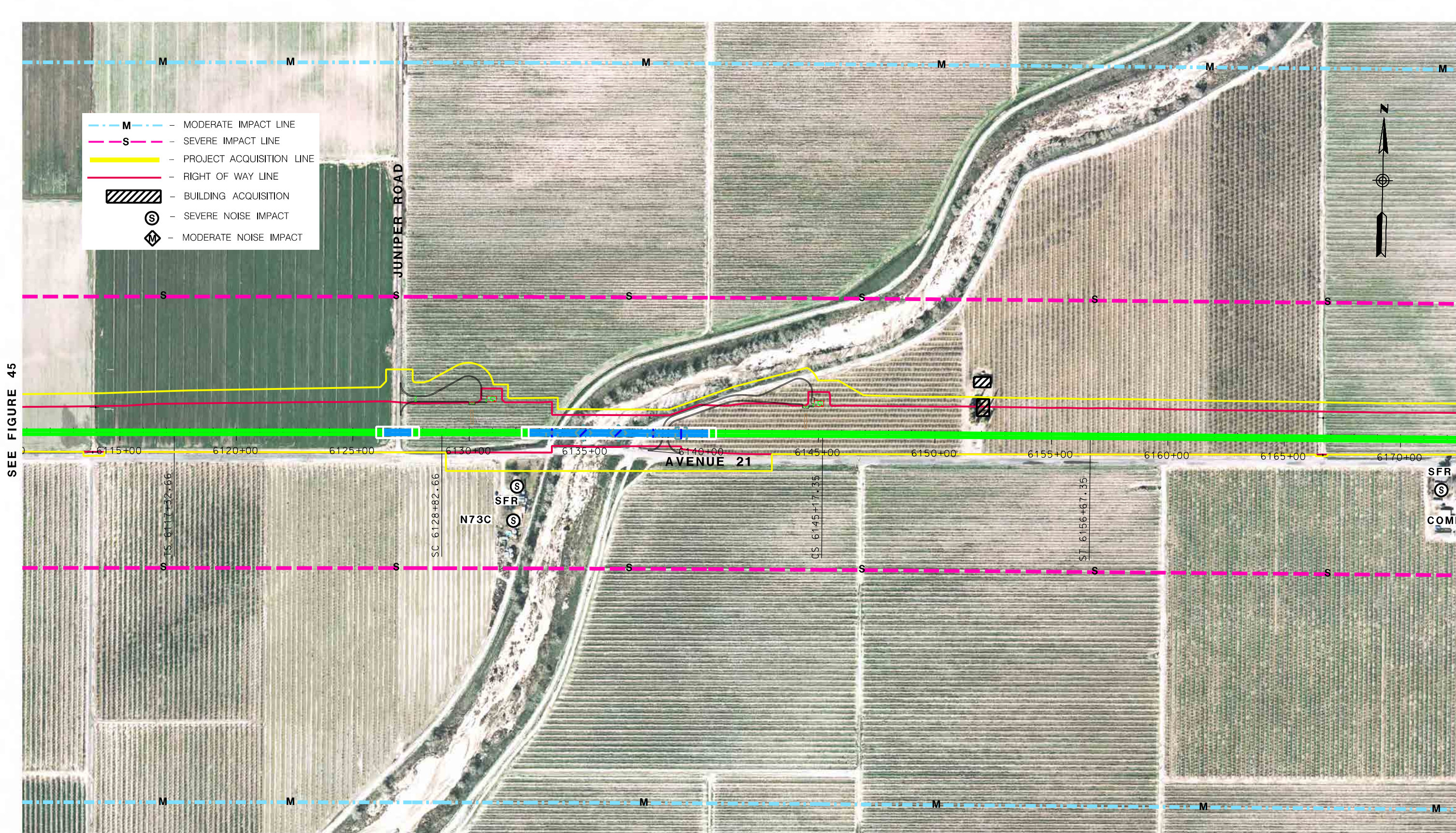
- LEGEND**
- Nxx - NOISE MEASUREMENT SITE
 - - TRACK IN TRENCH
 - - TRACK AT GRADE
 - Vxx - VIBRATION MEASUREMENT SITE
 - - - SFR OR S - SINGLE FAMILY RESIDENTIAL
 - - TRACK ON AERIAL
 - SOUNDWALL
 - - - COMM OR C - COMMERCIAL

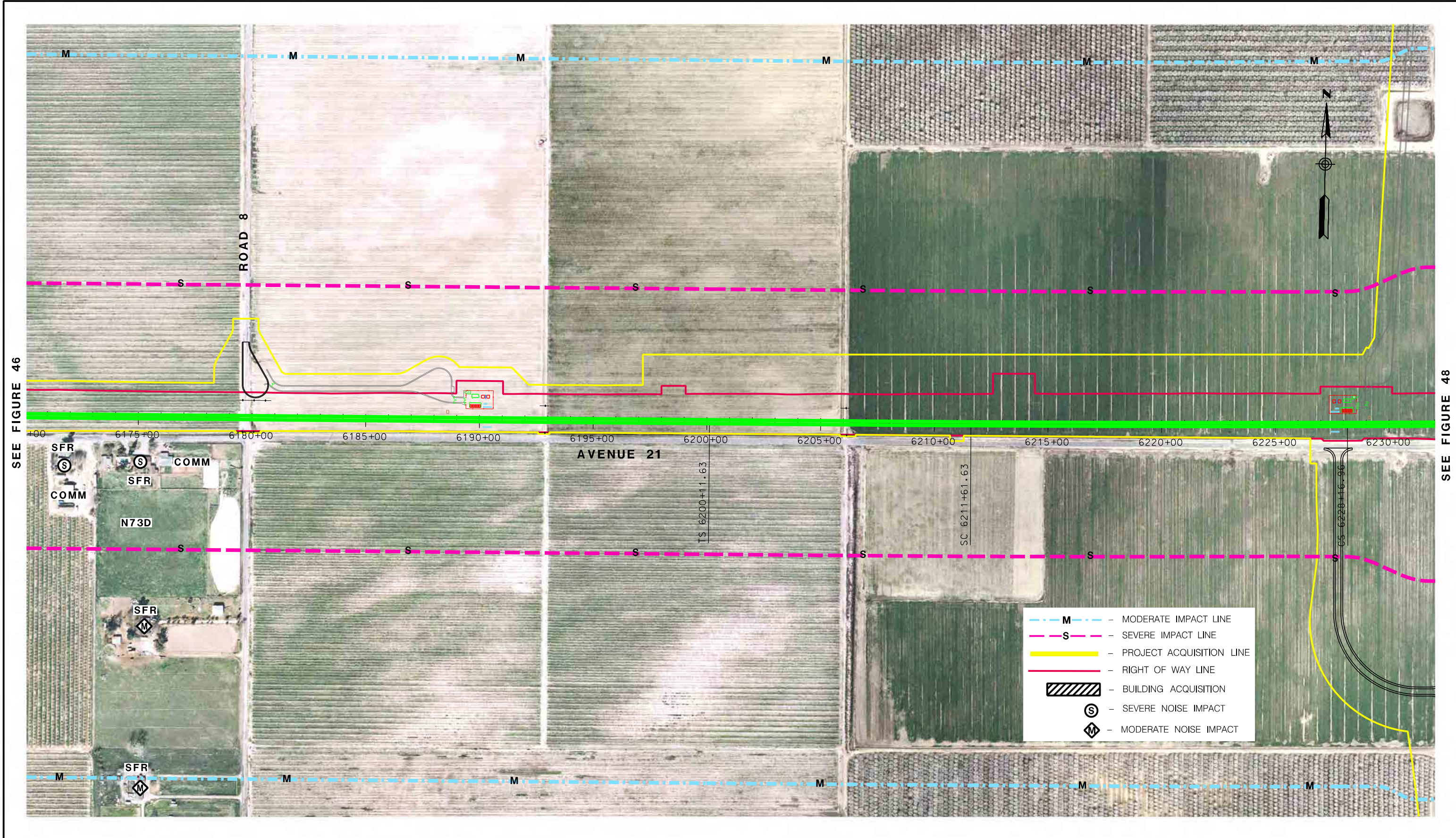


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 AVENUE 21 TO ROAD 13 WYE ALTERNATIVE**

OCTOBER 17, 2016
FIGURE 45





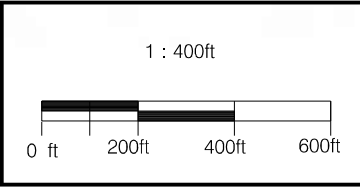
SEE FIGURE 46

SEE FIGURE 48

- - - M - MODERATE IMPACT LINE
- - - S - SEVERE IMPACT LINE
- - PROJECT ACQUISITION LINE
- - RIGHT OF WAY LINE
- BUILDING ACQUISITION
- S - SEVERE NOISE IMPACT
- MODERATE NOISE IMPACT

LEGEND

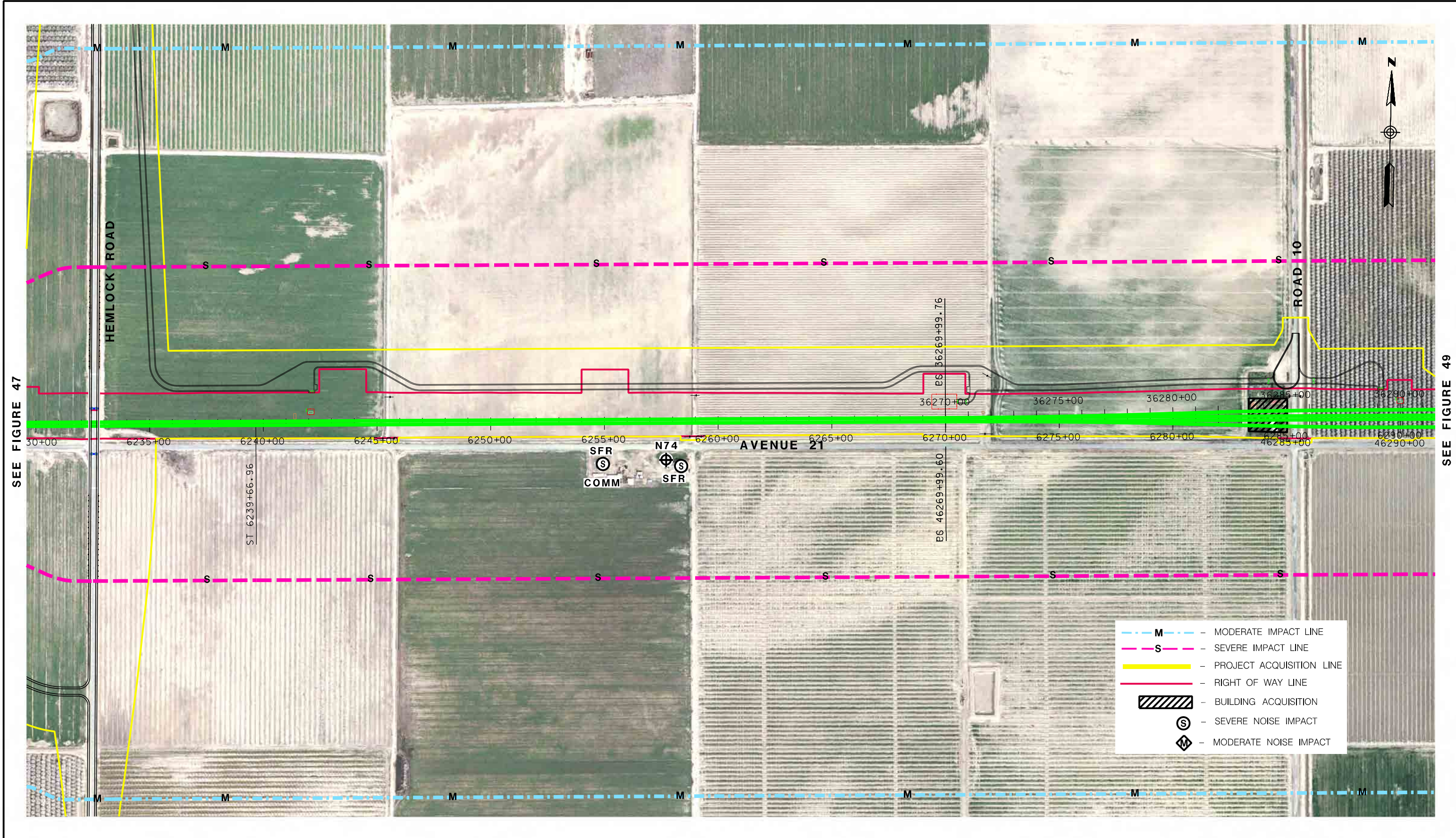
Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	— - TRACK IN TRENCH
Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	— - TRACK AT GRADE
 - SOUNDWALL		— - TRACK ON AERIAL



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 AVENUE 21 TO ROAD 13 WYE ALTERNATIVE**

OCTOBER 17, 2016	FIGURE 47
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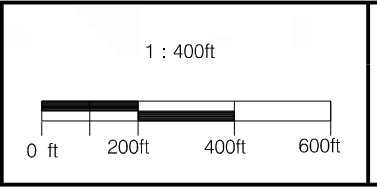
SEE FIGURE 47

SEE FIGURE 49

- - - M - - - - MODERATE IMPACT LINE
- - - S - - - - SEVERE IMPACT LINE
- - PROJECT ACQUISITION LINE
- - RIGHT OF WAY LINE
- BUILDING ACQUISITION
- N - SEVERE NOISE IMPACT
- M - MODERATE NOISE IMPACT

LEGEND

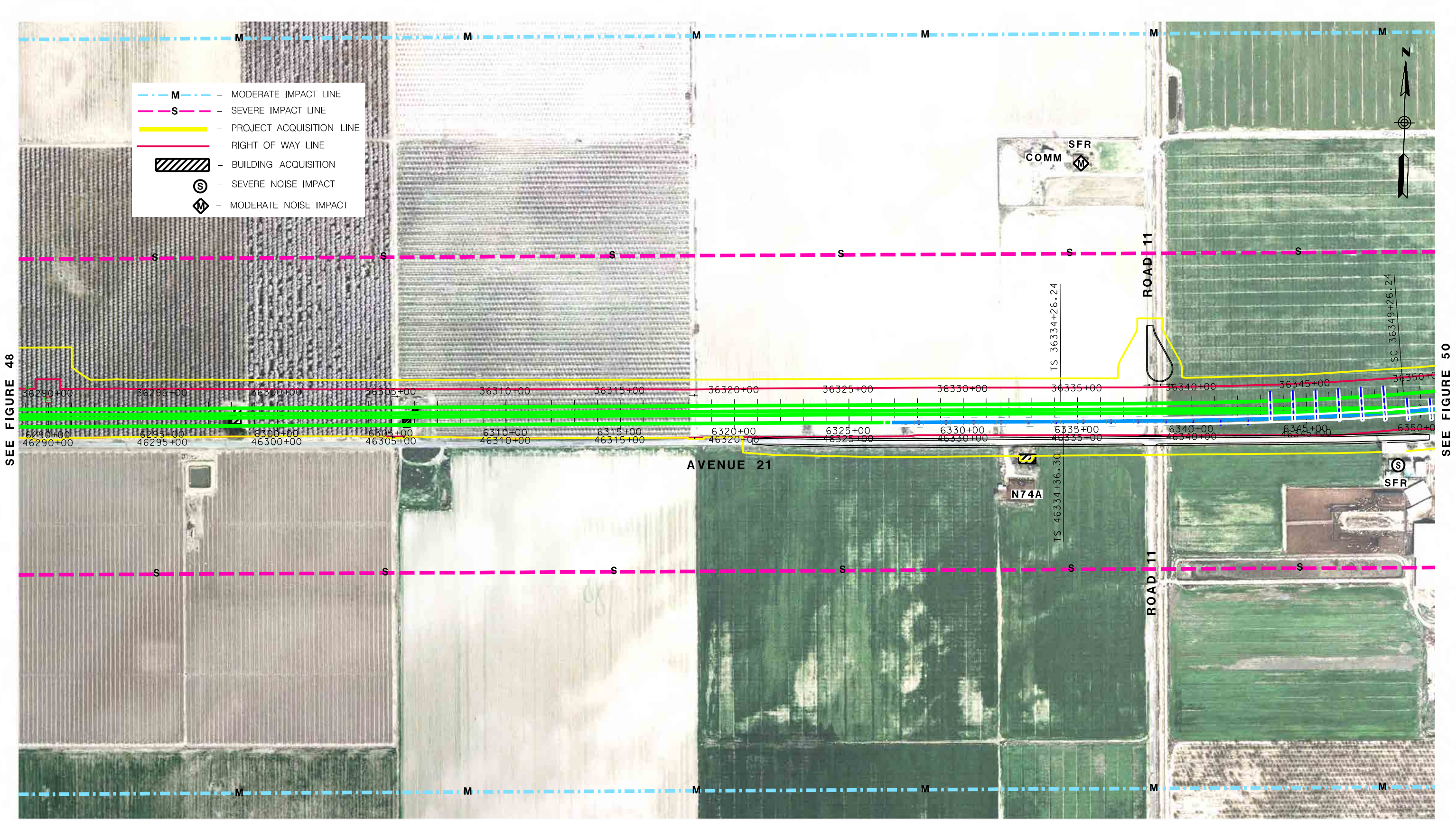
Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	————— - TRACK IN TRENCH
Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	————— - TRACK AT GRADE
 - SOUNDWALL		————— - TRACK ON AERIAL



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 AVENUE 21 TO ROAD 13 WYE ALTERNATIVE**

OCTOBER 17, 2016 FIGURE 48



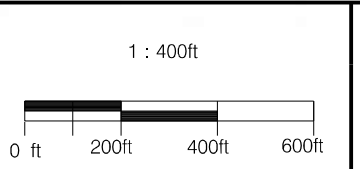
- - - M - - - - MODERATE IMPACT LINE
- - - S - - - - SEVERE IMPACT LINE
- - PROJECT ACQUISITION LINE
- - RIGHT OF WAY LINE
- BUILDING ACQUISITION
- S - SEVERE NOISE IMPACT
- M - MODERATE NOISE IMPACT

SEE FIGURE 48

SEE FIGURE 50

LEGEND

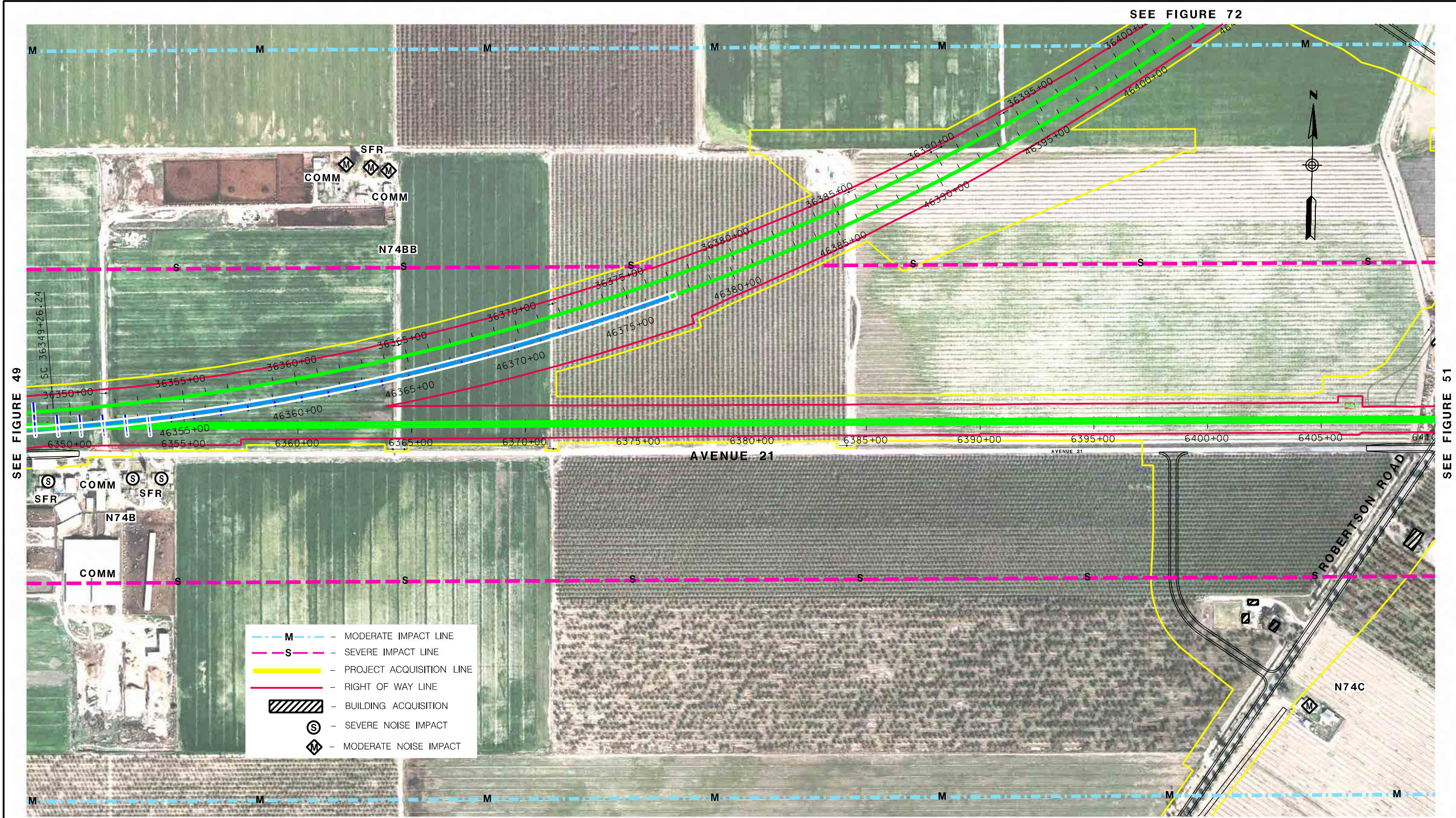
Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	——— - TRACK IN TRENCH
Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	——— - TRACK AT GRADE
 - SOUNDWALL		——— - TRACK ON AERIAL



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 AVENUE 21 TO ROAD 13 WYE ALTERNATIVE**

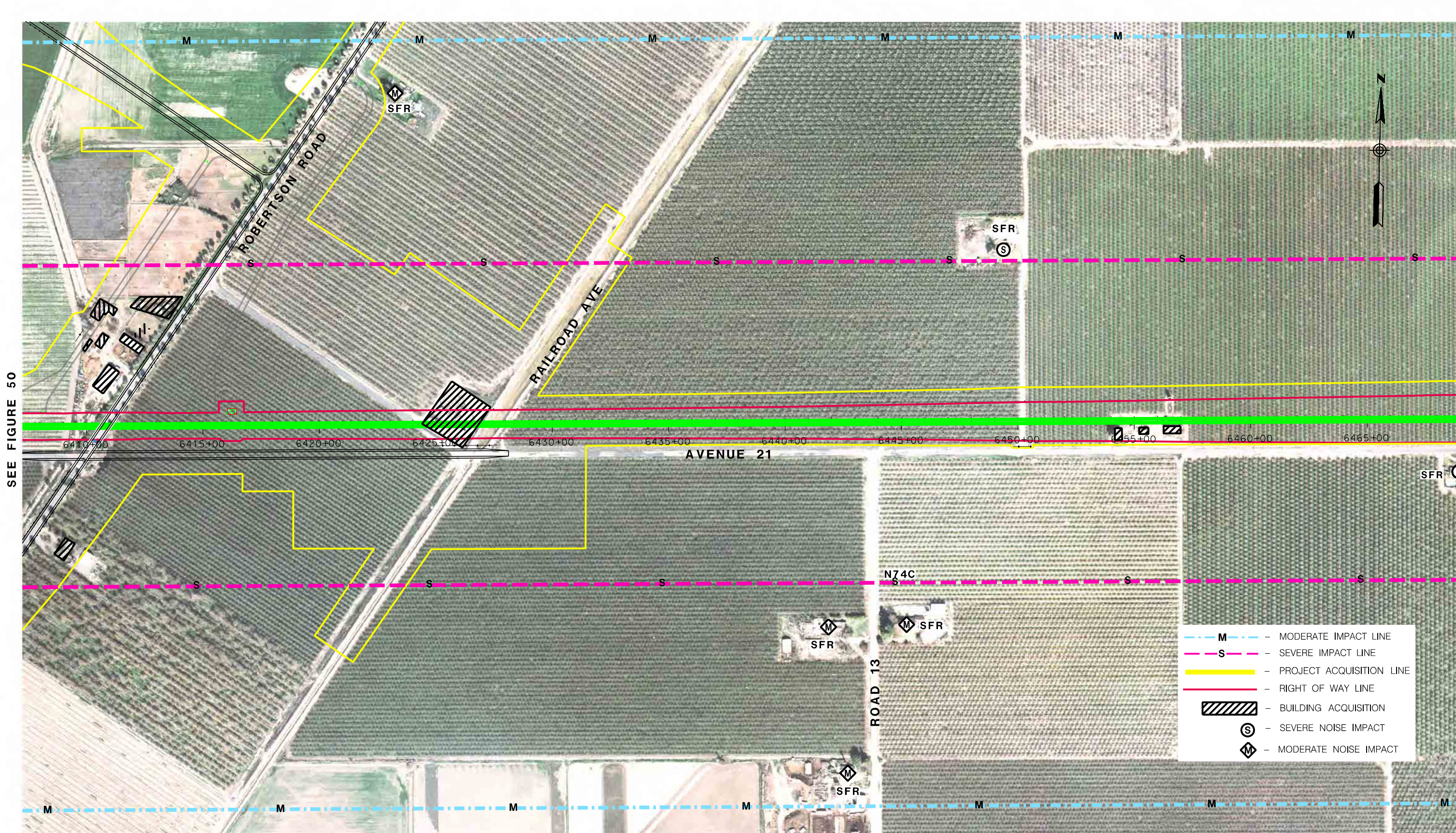
OCTOBER 17, 2016	FIGURE 49
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- M - MODERATE IMPACT LINE
 - S - SEVERE IMPACT LINE
 - PROJECT ACQUISITION LINE
 - RIGHT OF WAY LINE
 - BUILDING ACQUISITION
 - SEVERE NOISE IMPACT
 - MODERATE NOISE IMPACT

LEGEND

⊕ Nxx - NOISE MEASUREMENT SITE
 ⊕ Vxx - VIBRATION MEASUREMENT SITE
 ○ - SOUNDWALL
 SFR OR S - SINGLE FAMILY RESIDENTIAL
 COMM OR C - COMMERCIAL
 - TRACK IN TRENCH
 - TRACK AT GRADE
 - TRACK ON AERIAL

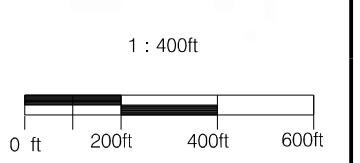


SEE FIGURE 50

SEE FIGURE 52

- - - M - MODERATE IMPACT LINE
- - - S - SEVERE IMPACT LINE
- - PROJECT ACQUISITION LINE
- - RIGHT OF WAY LINE
- BUILDING ACQUISITION
- S - SEVERE NOISE IMPACT
- M - MODERATE NOISE IMPACT

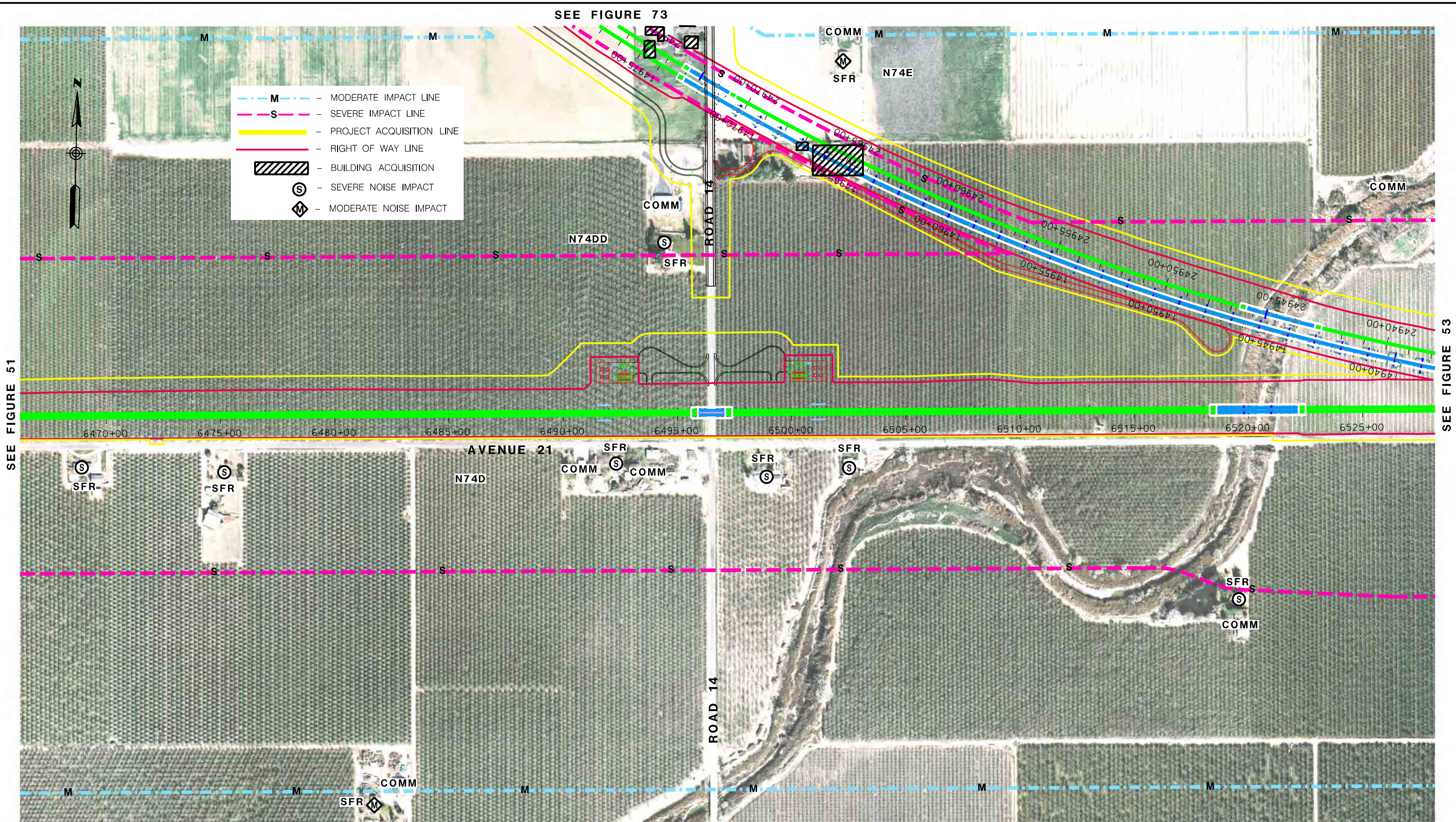
- LEGEND**
- Nxx - NOISE MEASUREMENT SITE
 - SFR OR S - SINGLE FAMILY RESIDENTIAL
 - - TRACK IN TRENCH
 - Vxx - VIBRATION MEASUREMENT SITE
 - - TRACK AT GRADE
 - - TRACK ON AERIAL
 - - SOUNDWALL
 - COMM OR C - COMMERCIAL



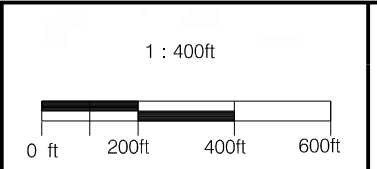
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 NOISE IMPACTS AND MITIGATION
 AVENUE 21 TO ROAD 13 WYE ALTERNATIVE**

OCTOBER 17, 2016 FIGURE 51



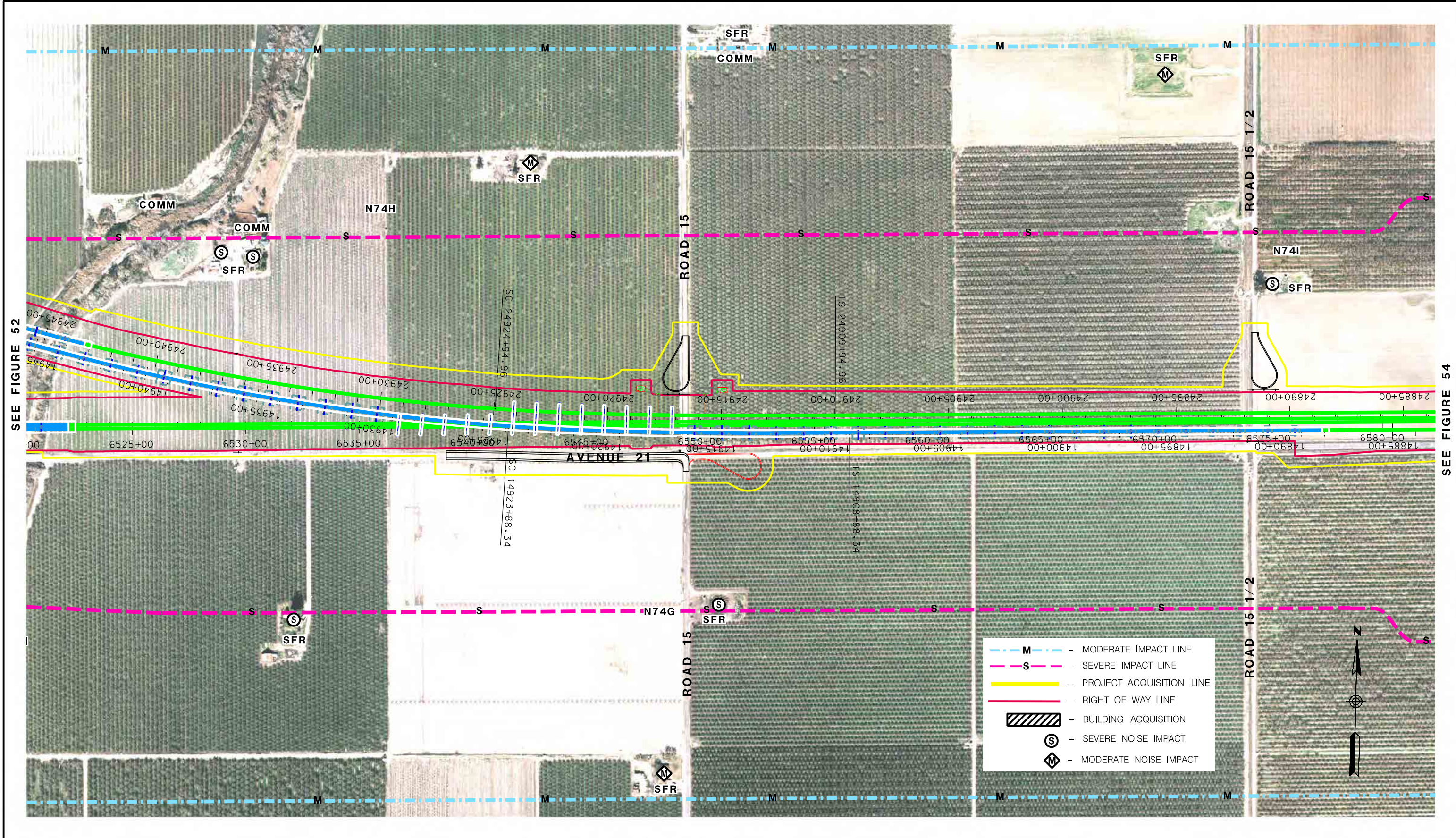
LEGEND		
⊕Nxx	- NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL
⊕Vxx	- VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL
—○—	- SOUNDWALL	Red line - TRACK IN TRENCH
		Green line - TRACK AT GRADE
		Blue line - TRACK ON AERIAL



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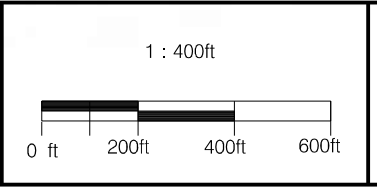
OCTOBER 17, 2016 FIGURE 52



SEE FIGURE 52

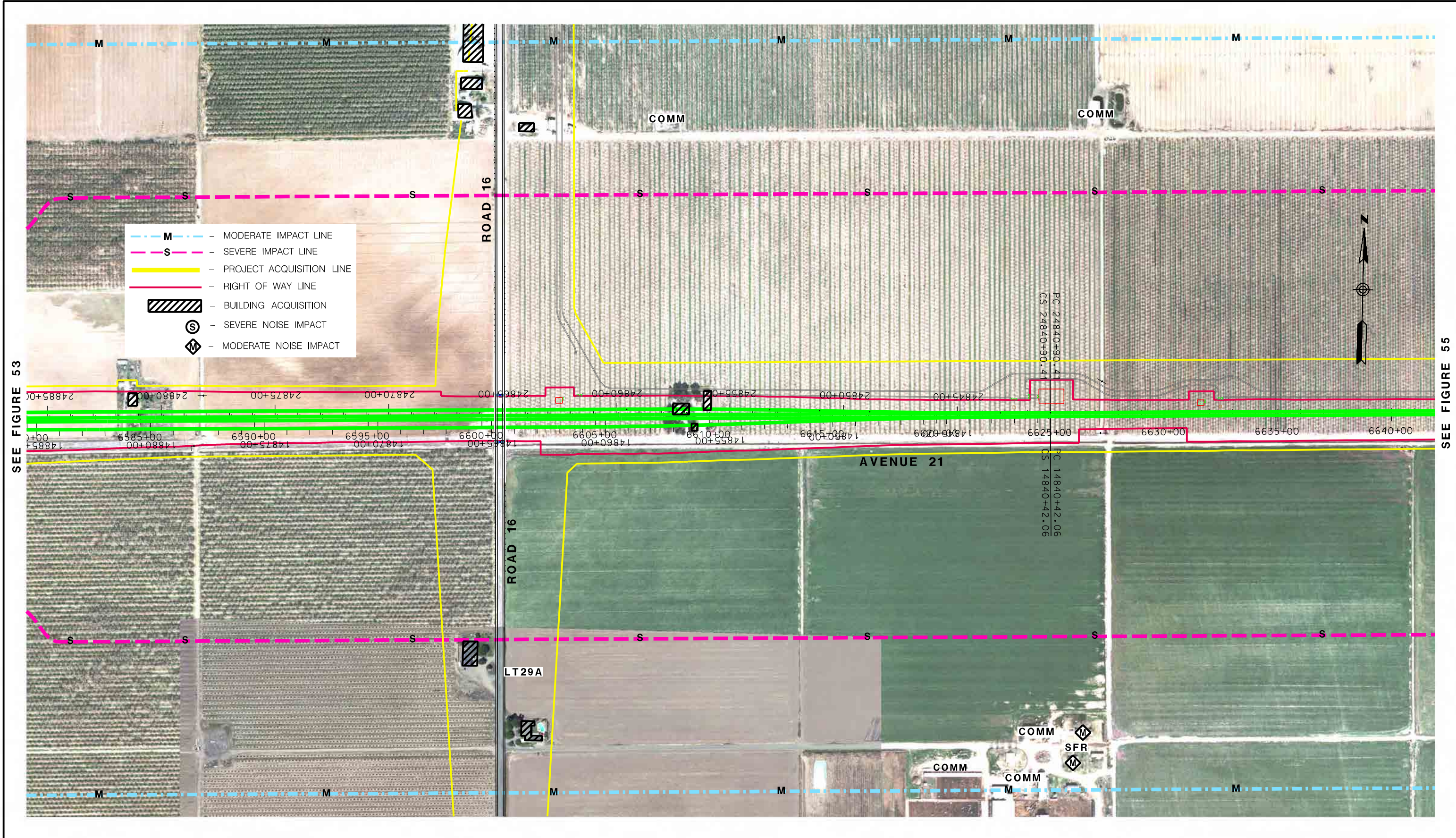
SEE FIGURE 54

LEGEND		
	Nxx - NOISE MEASUREMENT SITE	
	Vxx - VIBRATION MEASUREMENT SITE	
	- SOUNDWALL	
	SFR OR S - SINGLE FAMILY RESIDENTIAL	
	COMM OR C - COMMERCIAL	



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 OCTOBER 17, 2016
 FIGURE 53

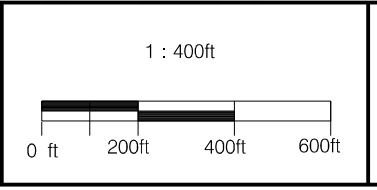


M - MODERATE IMPACT LINE
 S - SEVERE IMPACT LINE
 - PROJECT ACQUISITION LINE
 - RIGHT OF WAY LINE
 - BUILDING ACQUISITION
 S - SEVERE NOISE IMPACT
 M - MODERATE NOISE IMPACT

SEE FIGURE 53

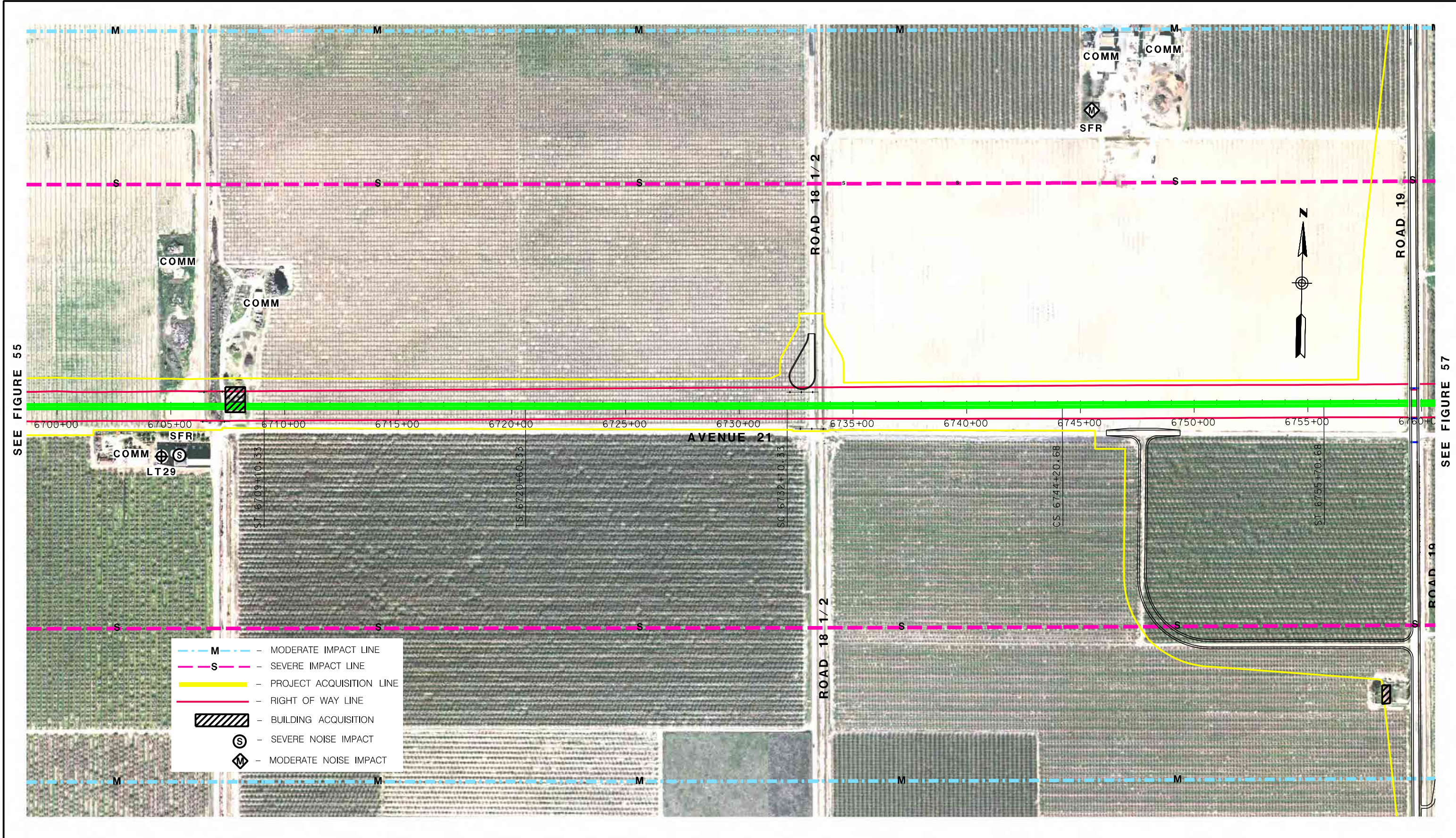
SEE FIGURE 55

LEGEND		
	Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL
	Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL
	- SOUNDWALL	- TRACK IN TRENCH
		- TRACK AT GRADE
		- TRACK ON AERIAL



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 AVENUE 21 TO ROAD 13 WYE ALTERNATIVE
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 FIGURE 54

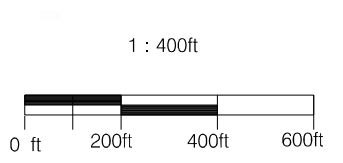


SEE FIGURE 55

SEE FIGURE 57

- - - M - MODERATE IMPACT LINE
- - - S - SEVERE IMPACT LINE
- - PROJECT ACQUISITION LINE
- - RIGHT OF WAY LINE
- BUILDING ACQUISITION
- N - SEVERE NOISE IMPACT
- M - MODERATE NOISE IMPACT

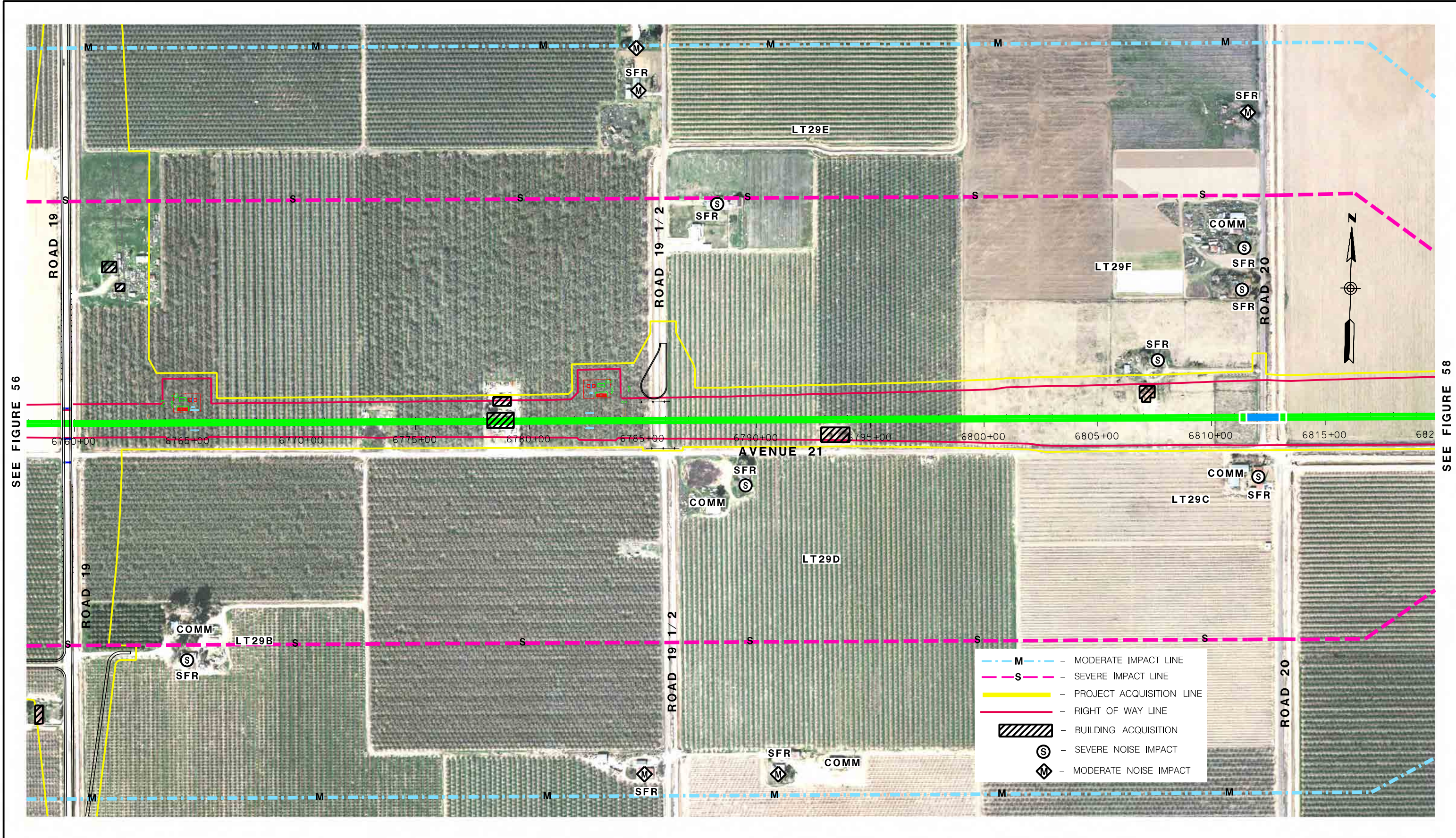
LEGEND		
Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	— - TRACK IN TRENCH
Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	— - TRACK AT GRADE
 - SOUNDWALL		— - TRACK ON AERIAL



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 NOISE IMPACTS AND MITIGATION
 AVENUE 21 TO ROAD 13 WYE ALTERNATIVE**

OCTOBER 17, 2016	FIGURE 56
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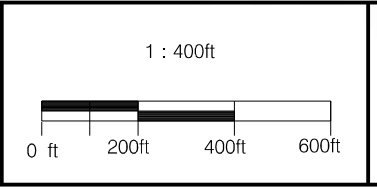
SEE FIGURE 56

SEE FIGURE 58

- M - MODERATE IMPACT LINE
- S - SEVERE IMPACT LINE
- PROJECT ACQUISITION LINE
- RIGHT OF WAY LINE
- BUILDING ACQUISITION
- SEVERE NOISE IMPACT
- MODERATE NOISE IMPACT

LEGEND

- ⊕ Nxx - NOISE MEASUREMENT SITE
- ⊕ Vxx - VIBRATION MEASUREMENT SITE
- SOUNDWALL
- SFR OR S - SINGLE FAMILY RESIDENTIAL
- COMM OR C - COMMERCIAL
- TRACK IN TRENCH
- TRACK AT GRADE
- TRACK ON AERIAL

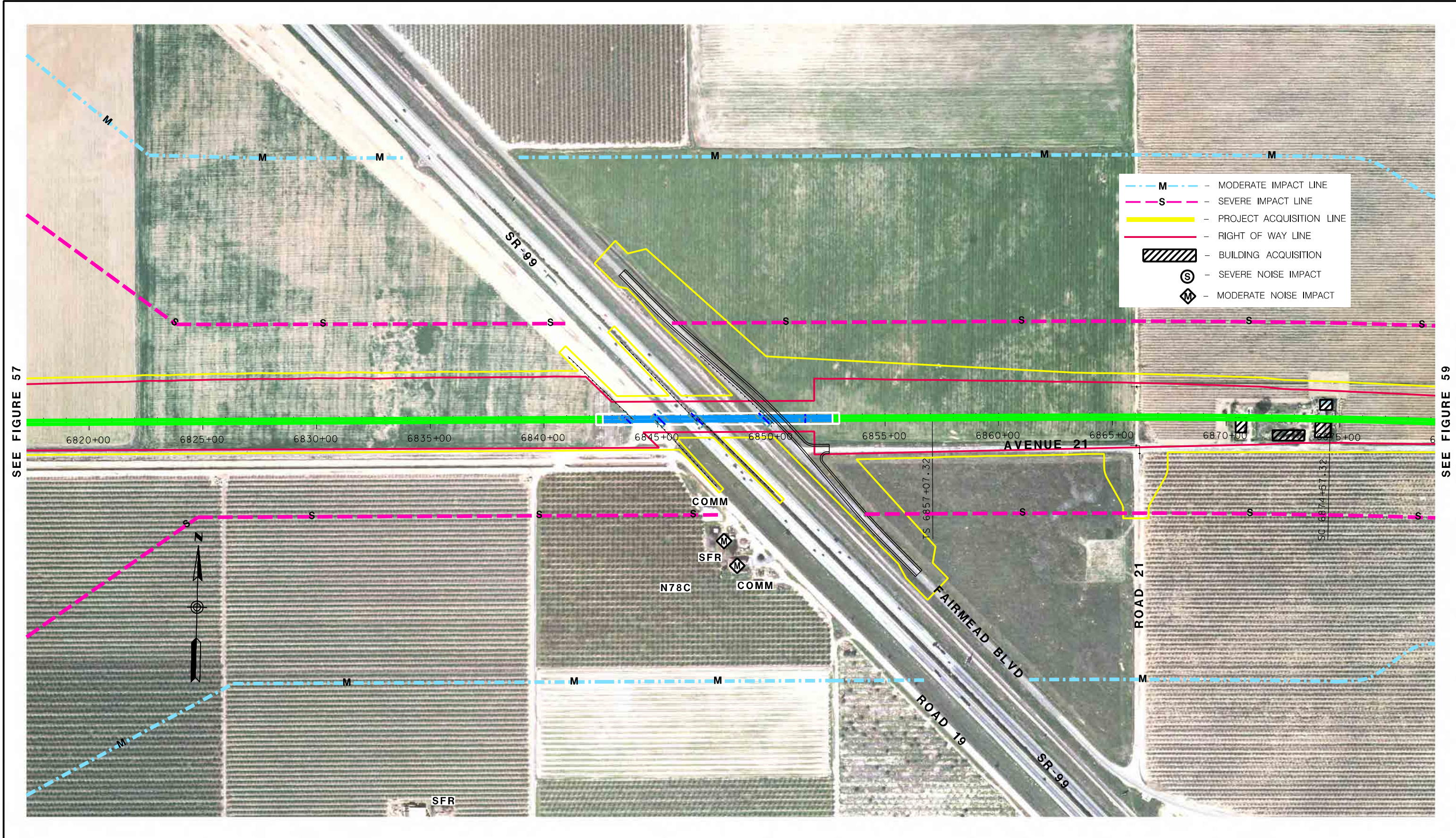


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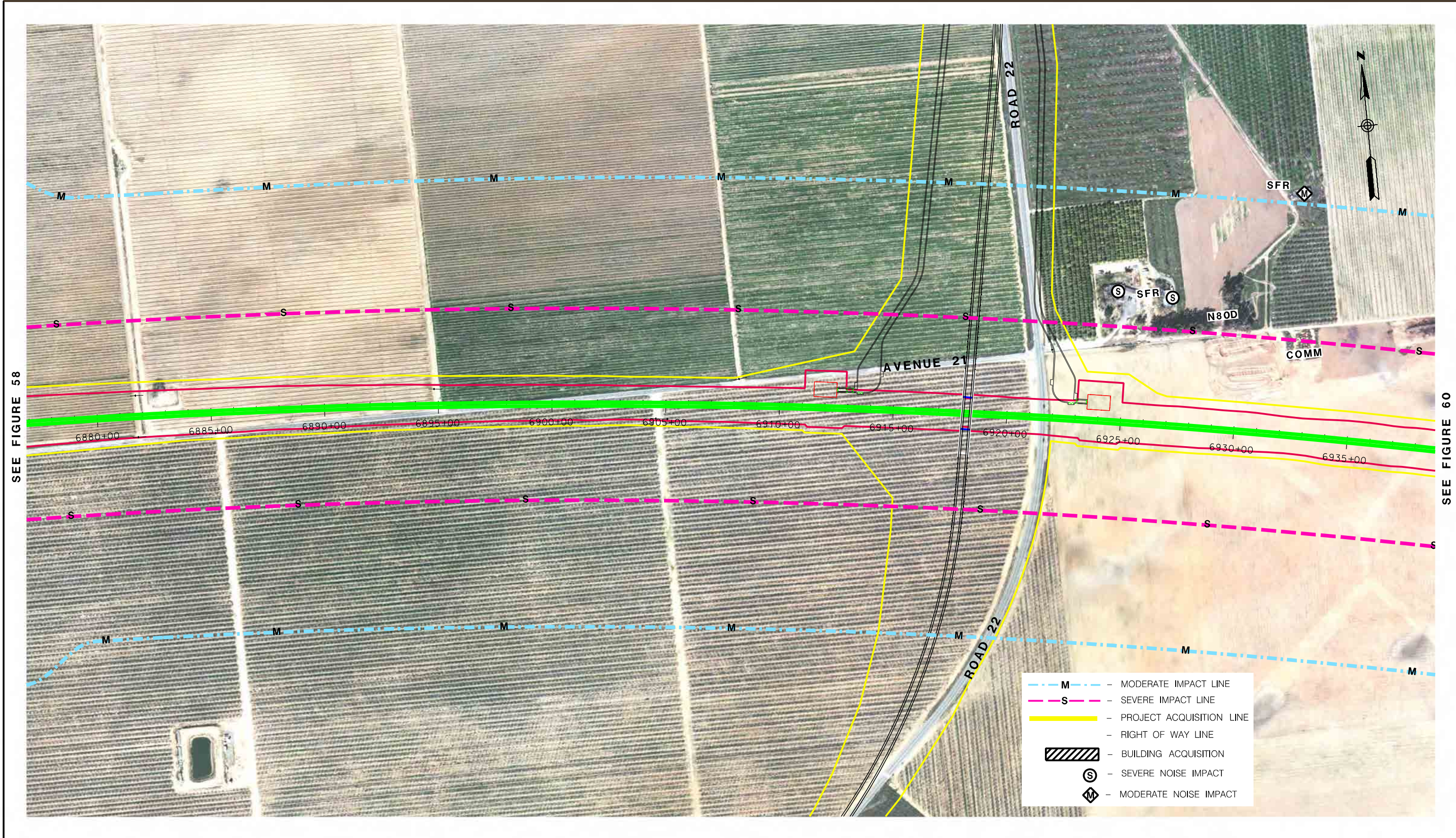
FIGURE 57



SEE FIGURE 57

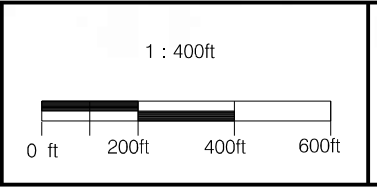
SEE FIGURE 59

<p>LEGEND</p> <ul style="list-style-type: none"> ⊕ Nxx - NOISE MEASUREMENT SITE ⊕ Vxx - VIBRATION MEASUREMENT SITE —○— SOUNDWALL 	<p>SFR OR S - SINGLE FAMILY RESIDENTIAL</p> <p>COMM OR C - COMMERCIAL</p>	<ul style="list-style-type: none"> — TRACK IN TRENCH — TRACK AT GRADE — TRACK ON AERIAL 	<p>1 : 400ft</p>	<p>PARSONS</p> <p>100 WEST WALNUT ST. PASADENA, CA 91124 (626) 440-6100</p>	<p>MERCED TO FRESNO SECTION: CENTRAL VALLEY WYE NOISE IMPACTS AND MITIGATION AVENUE 21 TO ROAD 13 WYE ALTERNATIVE</p> <p>OCTOBER 17, 2016</p> <p>FIGURE 58</p>
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LEGEND

- ⊕ Nxx - NOISE MEASUREMENT SITE
- ⊕ Vxx - VIBRATION MEASUREMENT SITE
- SOUNDWALL
- SFR OR S - SINGLE FAMILY RESIDENTIAL
- COMM OR C - COMMERCIAL
- TRACK IN TRENCH
- TRACK AT GRADE
- TRACK ON AERIAL

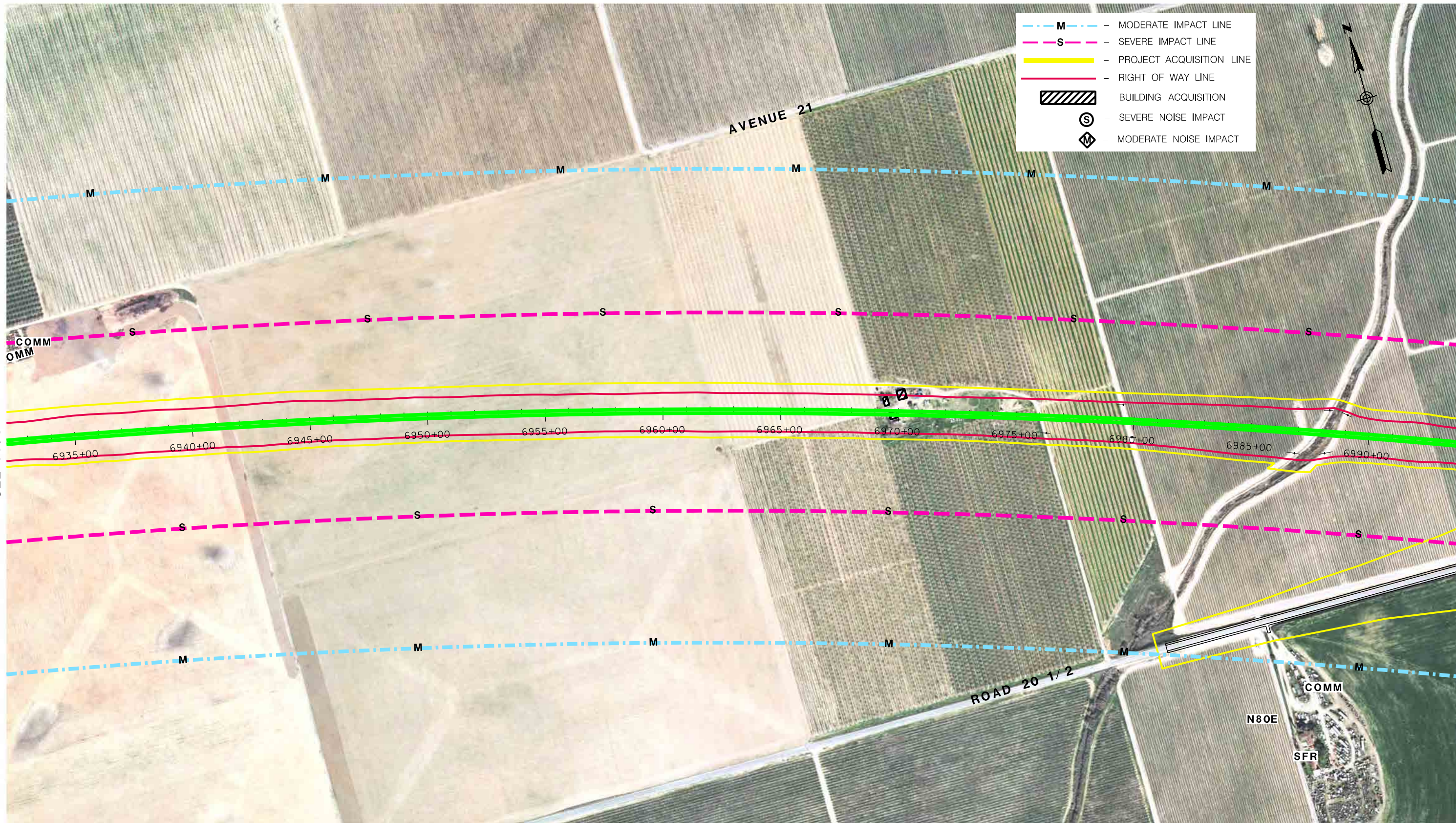


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 CENTRAL VALLEY WYE
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 AVENUE 21 TO ROAD 13 WYE ALTERNATIVE**

OCTOBER 17, 2016

FIGURE 59

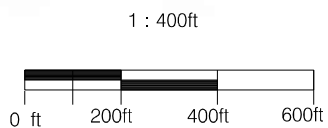


SEE FIGURE 59

SEE FIGURE 61

LEGEND

- ⊕Nxx - NOISE MEASUREMENT SITE
- ⊕Vxx - VIBRATION MEASUREMENT SITE
- - SOUNDWALL
- SFR OR S - SINGLE FAMILY RESIDENTIAL
- COMM OR C - COMMERCIAL
- - TRACK IN TRENCH
- - TRACK AT GRADE
- - TRACK ON AERIAL



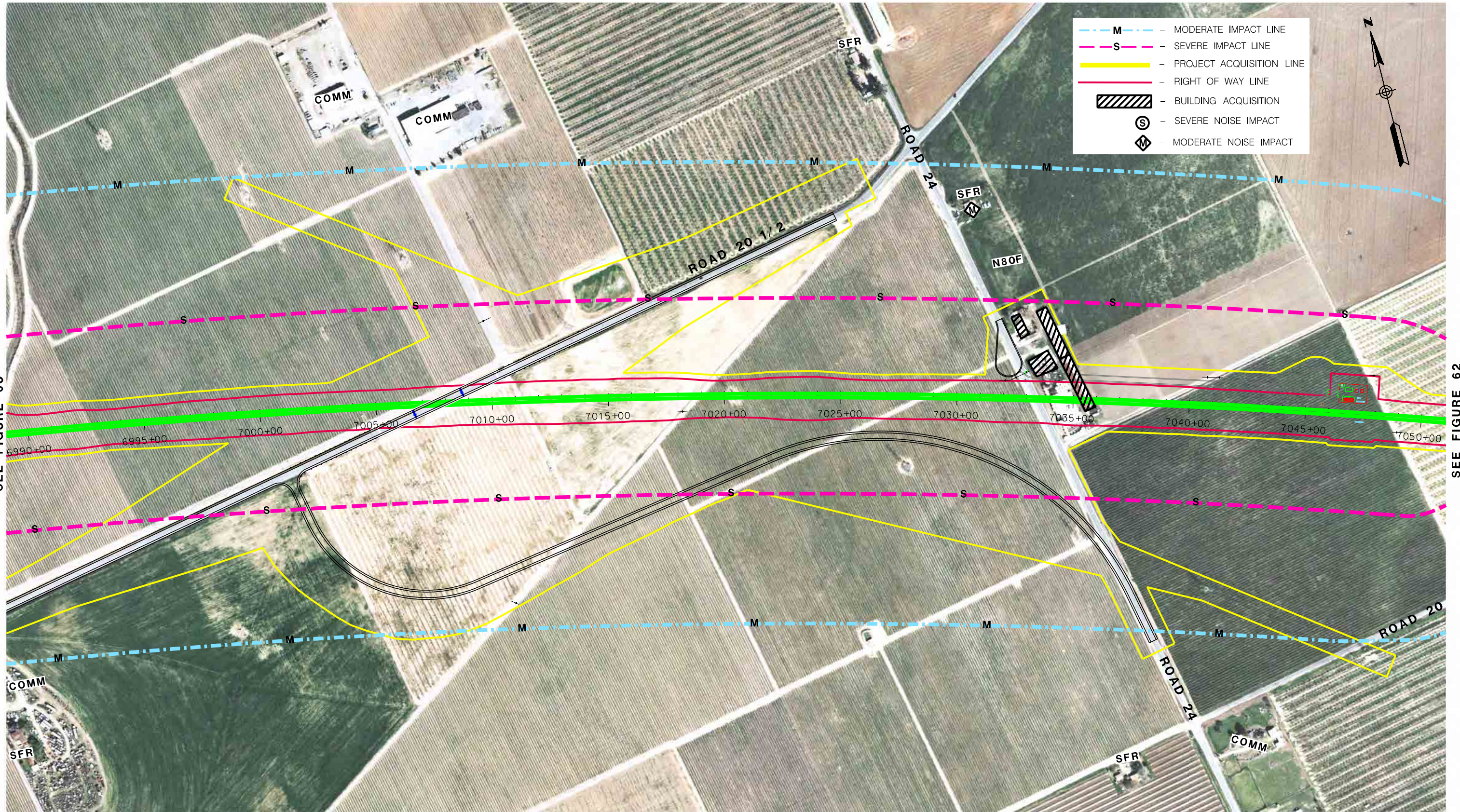
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AVENUE 21 TO ROAD 13 WYE ALTERNATIVE

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FIGURE 60

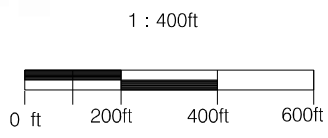


SEE FIGURE 60

SEE FIGURE 62

LEGEND

- ⊕ Nxx - NOISE MEASUREMENT SITE
- ⊕ Vxx - VIBRATION MEASUREMENT SITE
- SOUNDWALL
- SFR OR S - SINGLE FAMILY RESIDENTIAL
- COMM OR C - COMMERCIAL
- TRACK IN TRENCH
- TRACK AT GRADE
- TRACK ON AERIAL

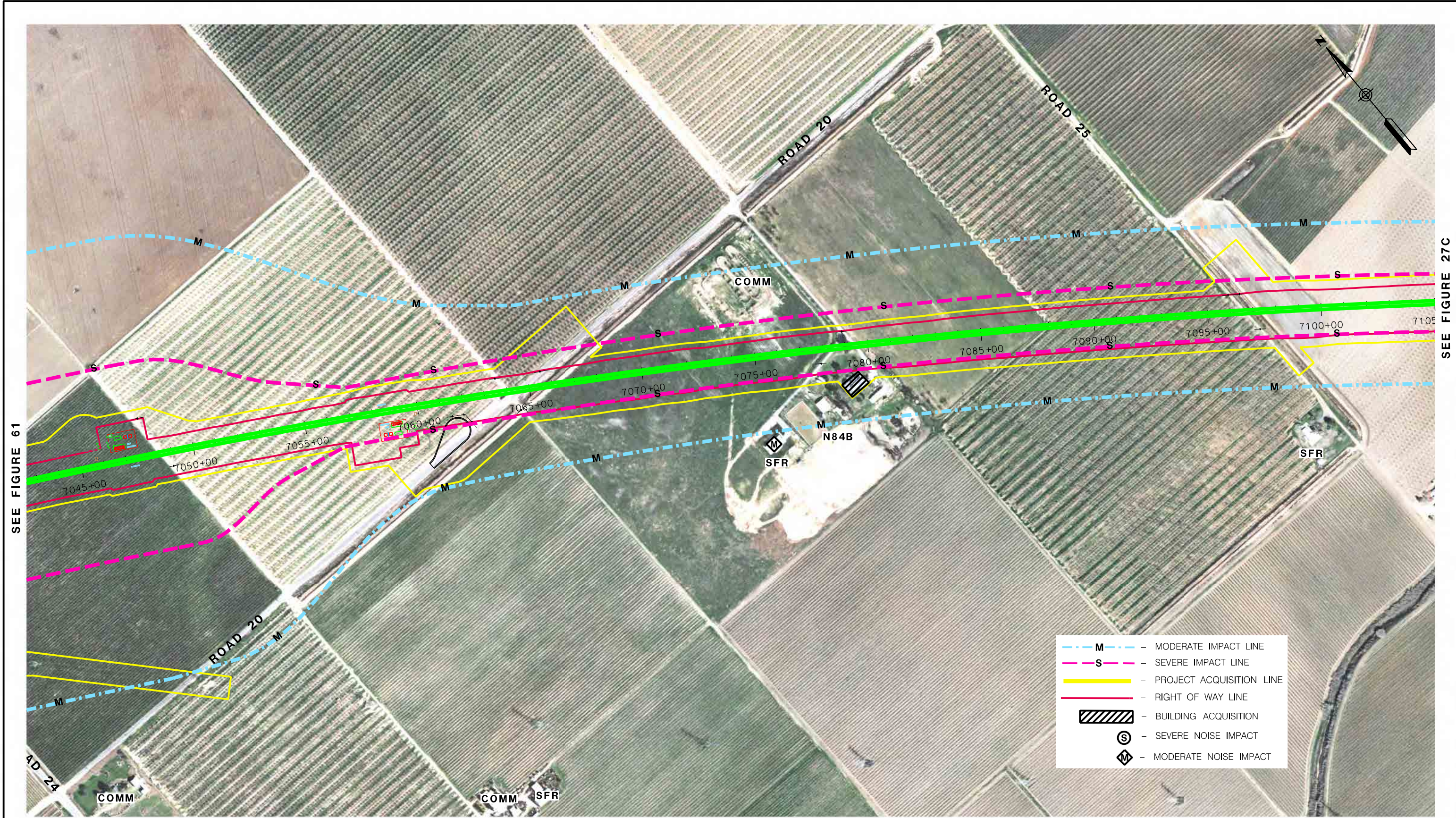


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 AVENUE 21 TO ROAD 13 WYE ALTERNATIVE

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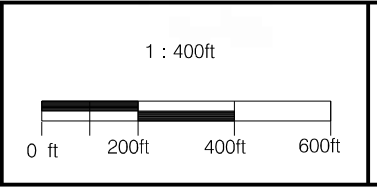
FIGURE 61



SEE FIGURE 61

SEE FIGURE 27C

LEGEND			
	Nxx - NOISE MEASUREMENT SITE		- TRACK IN TRENCH
	Vxx - VIBRATION MEASUREMENT SITE		- TRACK AT GRADE
	- SOUNDWALL		- TRACK ON AERIAL
	SFR OR S - SINGLE FAMILY RESIDENTIAL		
	COMM OR C - COMMERCIAL		

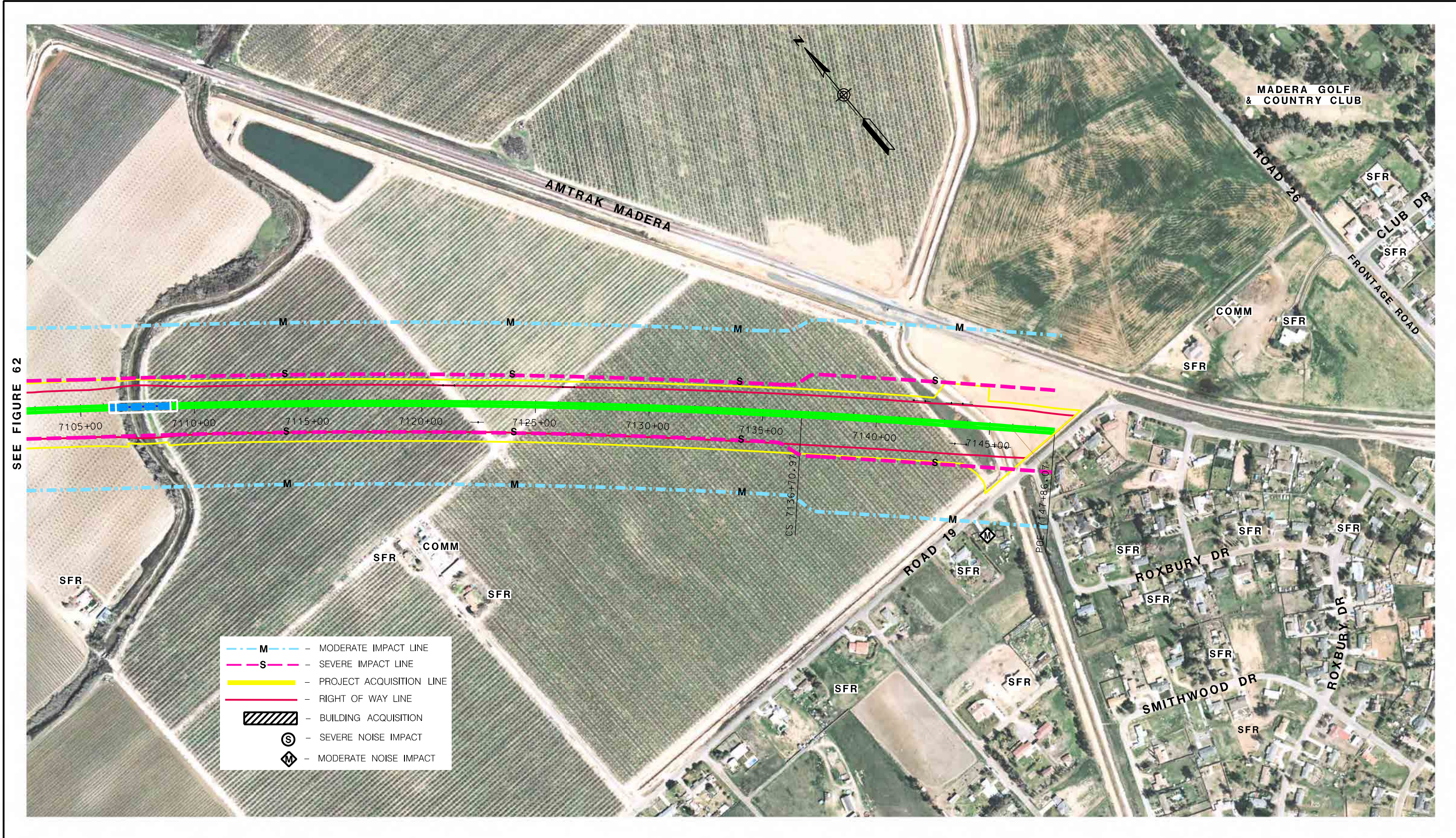


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 AVENUE 21 TO ROAD 13 WYE ALTERNATIVE

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FIGURE 62



SEE FIGURE 62

	M	- MODERATE IMPACT LINE
	S	- SEVERE IMPACT LINE
		- PROJECT ACQUISITION LINE
		- RIGHT OF WAY LINE
		- BUILDING ACQUISITION
		- SEVERE NOISE IMPACT
		- MODERATE NOISE IMPACT

LEGEND		
	Nxx	- NOISE MEASUREMENT SITE
	Vxx	- VIBRATION MEASUREMENT SITE
		- SOUNDWALL
SFR OR S		- SINGLE FAMILY RESIDENTIAL
COMM OR C		- COMMERCIAL
		- TRACK IN TRENCH
		- TRACK AT GRADE
		- TRACK ON AERIAL

1 : 400ft

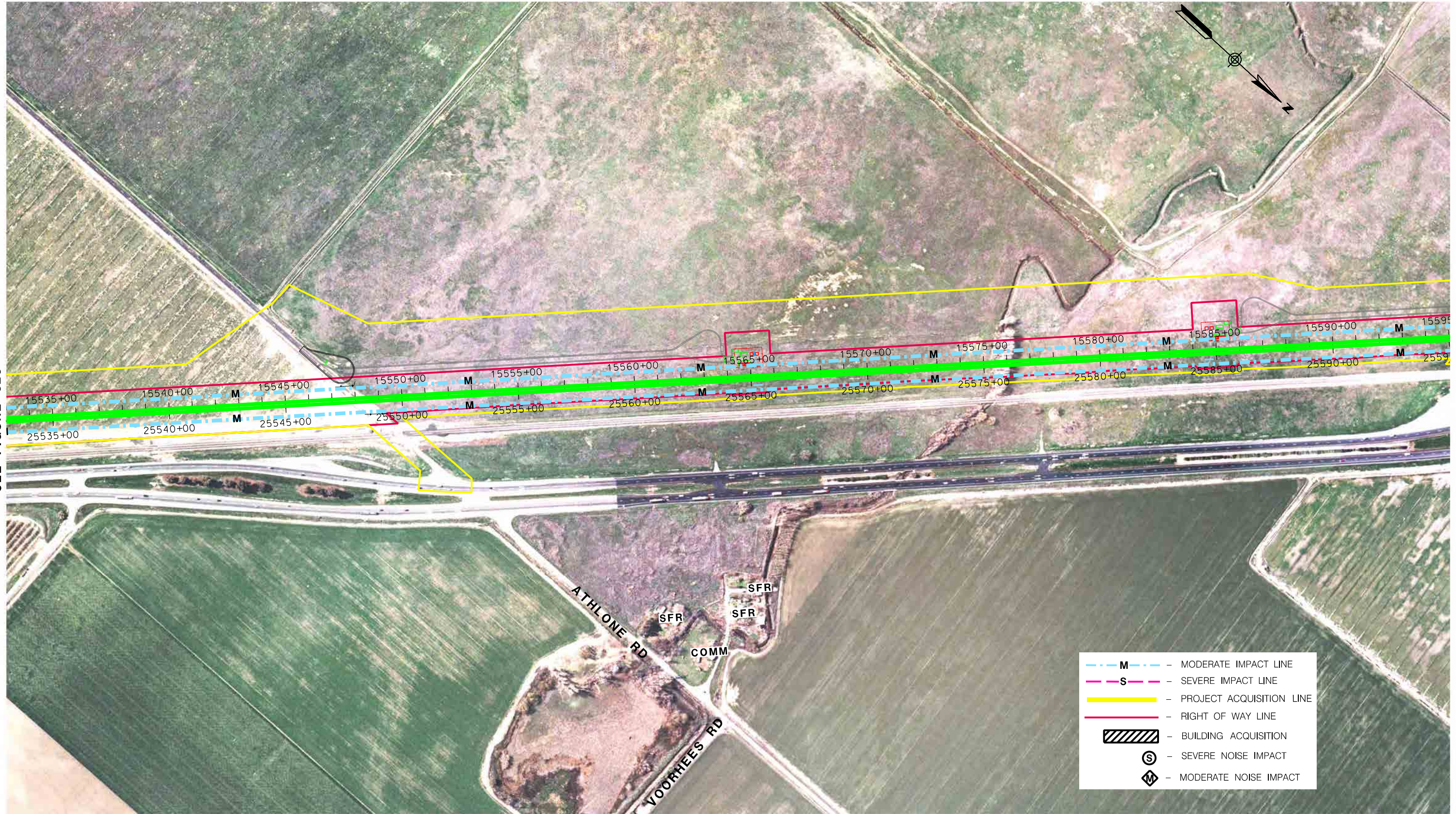
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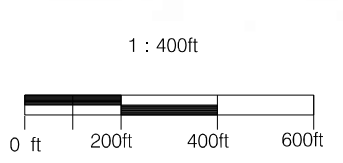
FIGURE 27C

SEE FIGURE 32C



	M	- MODERATE IMPACT LINE
	S	- SEVERE IMPACT LINE
		- PROJECT ACQUISITION LINE
		- RIGHT OF WAY LINE
		- BUILDING ACQUISITION
	S	- SEVERE NOISE IMPACT
	M	- MODERATE NOISE IMPACT

LEGEND			
	Nxx	- NOISE MEASUREMENT SITE	
	Vxx	- VIBRATION MEASUREMENT SITE	
		- SOUNDWALL	
	SFR OR S	- SINGLE FAMILY RESIDENTIAL	
	COMM OR C	- COMMERCIAL	
		- TRACK IN TRENCH	
		- TRACK AT GRADE	
		- TRACK ON AERIAL	



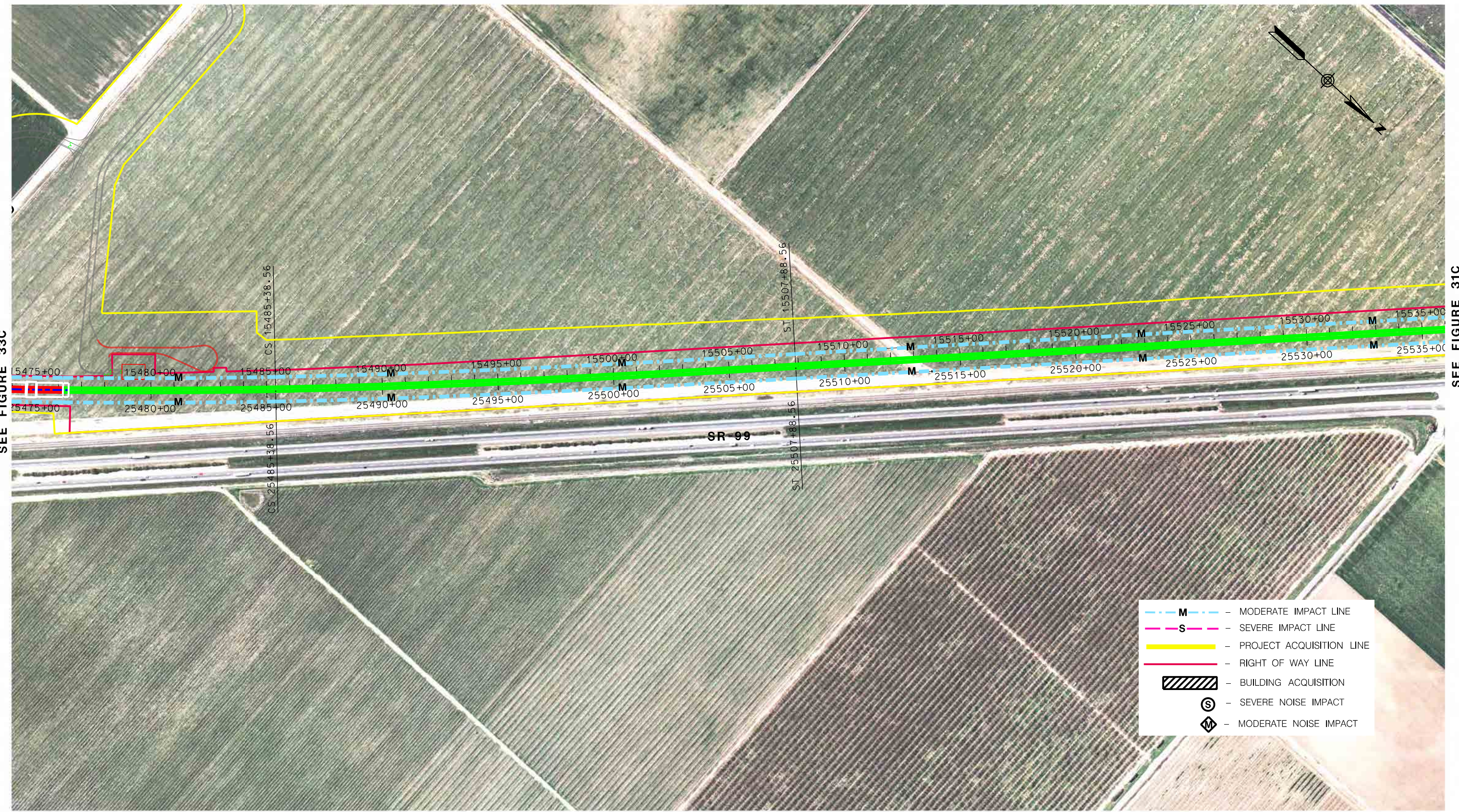
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OCTOBER 17, 2016 FIGURE 31C

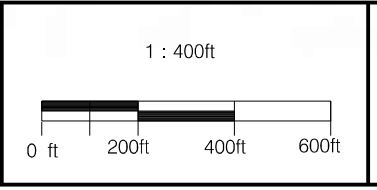
SEE FIGURE 33C

SEE FIGURE 31C



LEGEND

⊕ Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	— TRACK IN TRENCH
⊕ Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	— TRACK AT GRADE
— SOUNDWALL		— TRACK ON AERIAL



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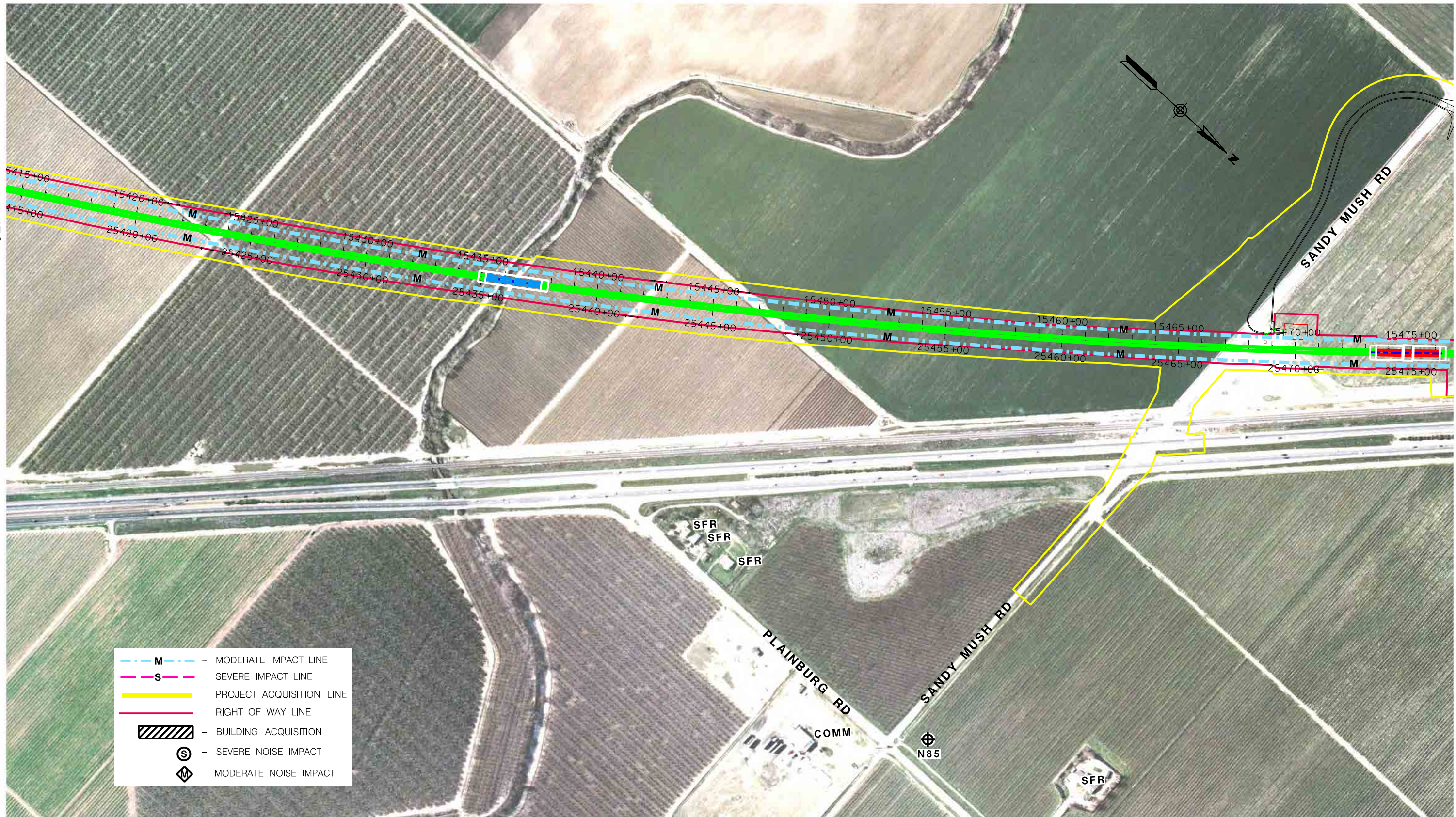
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 NOISE IMPACTS AND MITIGATION
 AVENUE 21 TO ROAD 13 WYE ALTERNATIVE**

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FIGURE 32C

SEE FIGURE 63C

SEE FIGURE 32C



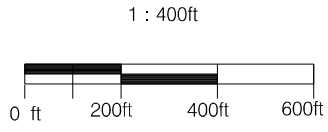
	- MODERATE IMPACT LINE
	- SEVERE IMPACT LINE
	- PROJECT ACQUISITION LINE
	- RIGHT OF WAY LINE
	- BUILDING ACQUISITION
	- SEVERE NOISE IMPACT
	- MODERATE NOISE IMPACT

LEGEND

- NOISE MEASUREMENT SITE
- VIBRATION MEASUREMENT SITE
- SOUNDWALL

- SFR OR S** - SINGLE FAMILY RESIDENTIAL
- COMM OR C** - COMMERCIAL

-
-
-



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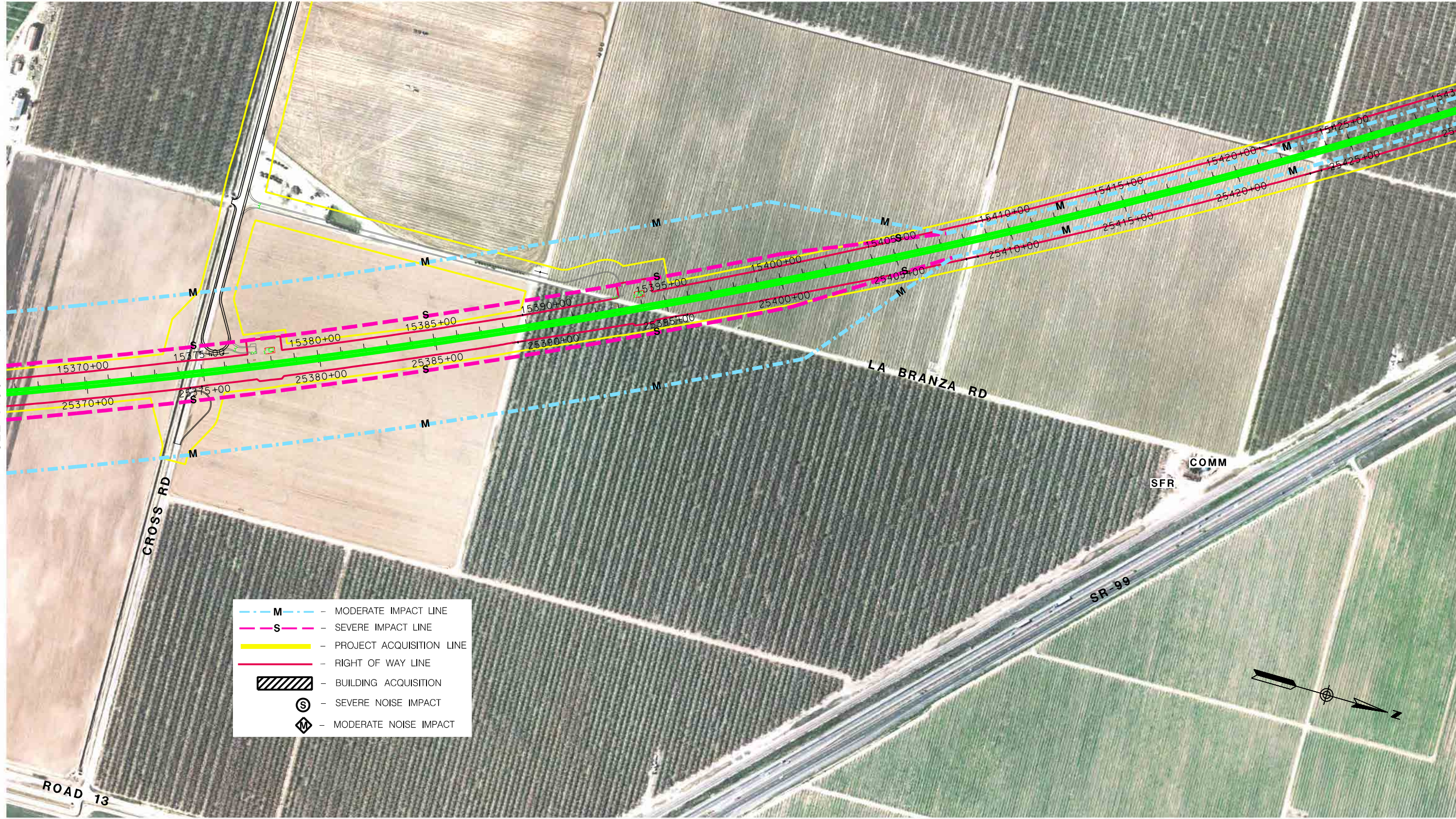
MERCED TO FRESNO SECTION:
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FIGURE 33C

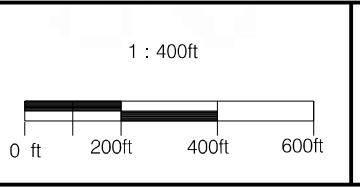
SEE FIGURE 64C

SEE FIGURE 33C



	- MODERATE IMPACT LINE
	- SEVERE IMPACT LINE
	- PROJECT ACQUISITION LINE
	- RIGHT OF WAY LINE
	- BUILDING ACQUISITION
	- SEVERE NOISE IMPACT
	- MODERATE NOISE IMPACT

LEGEND		
	- NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL
	- VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL
	- SOUNDWALL	
		- TRACK IN TRENCH
		- TRACK AT GRADE
		- TRACK ON AERIAL

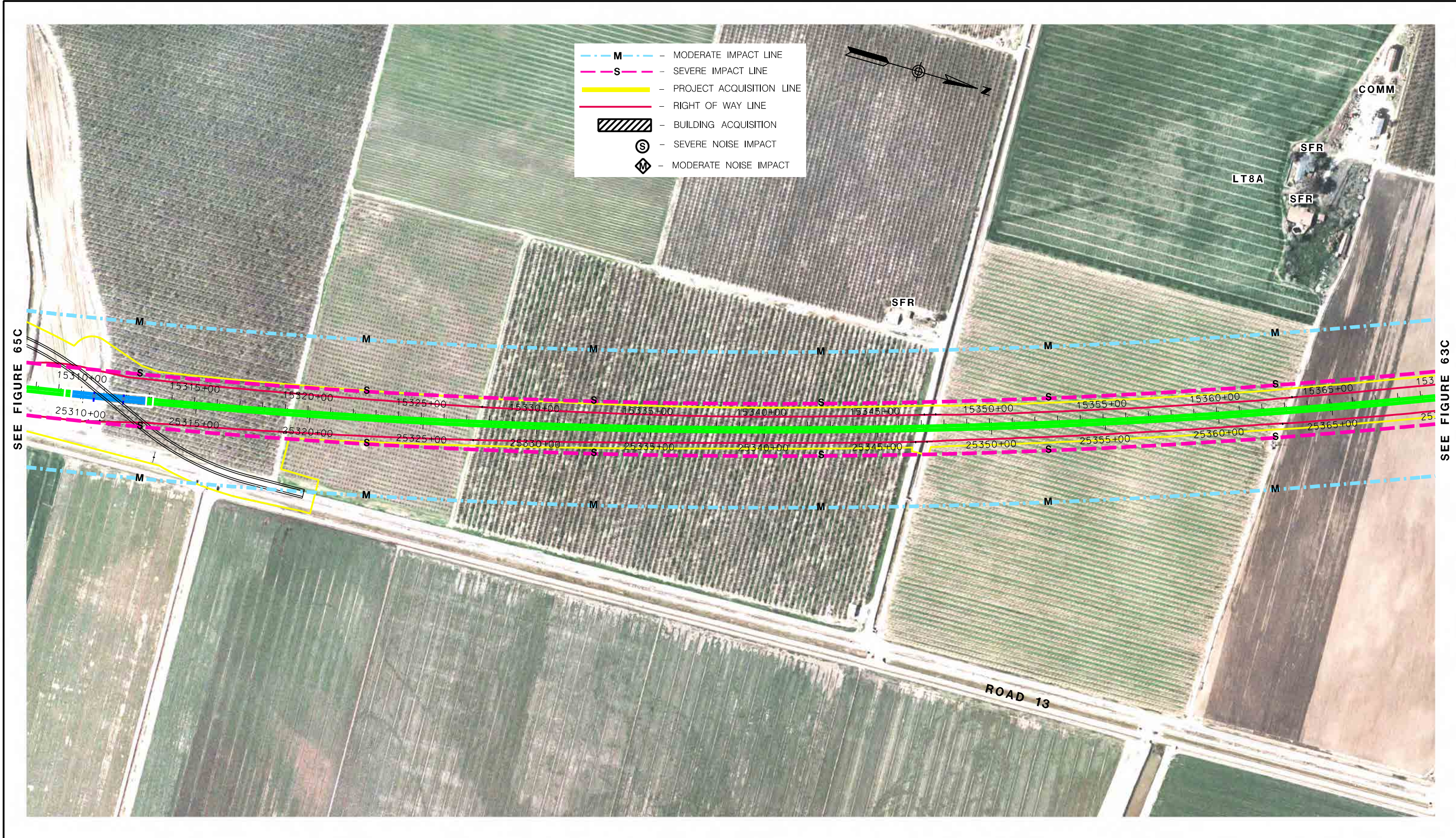


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 AVENUE 21 TO ROAD 13 WYE ALTERNATIVE

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FIGURE 63C



SEE FIGURE 65C

SEE FIGURE 63C

LEGEND

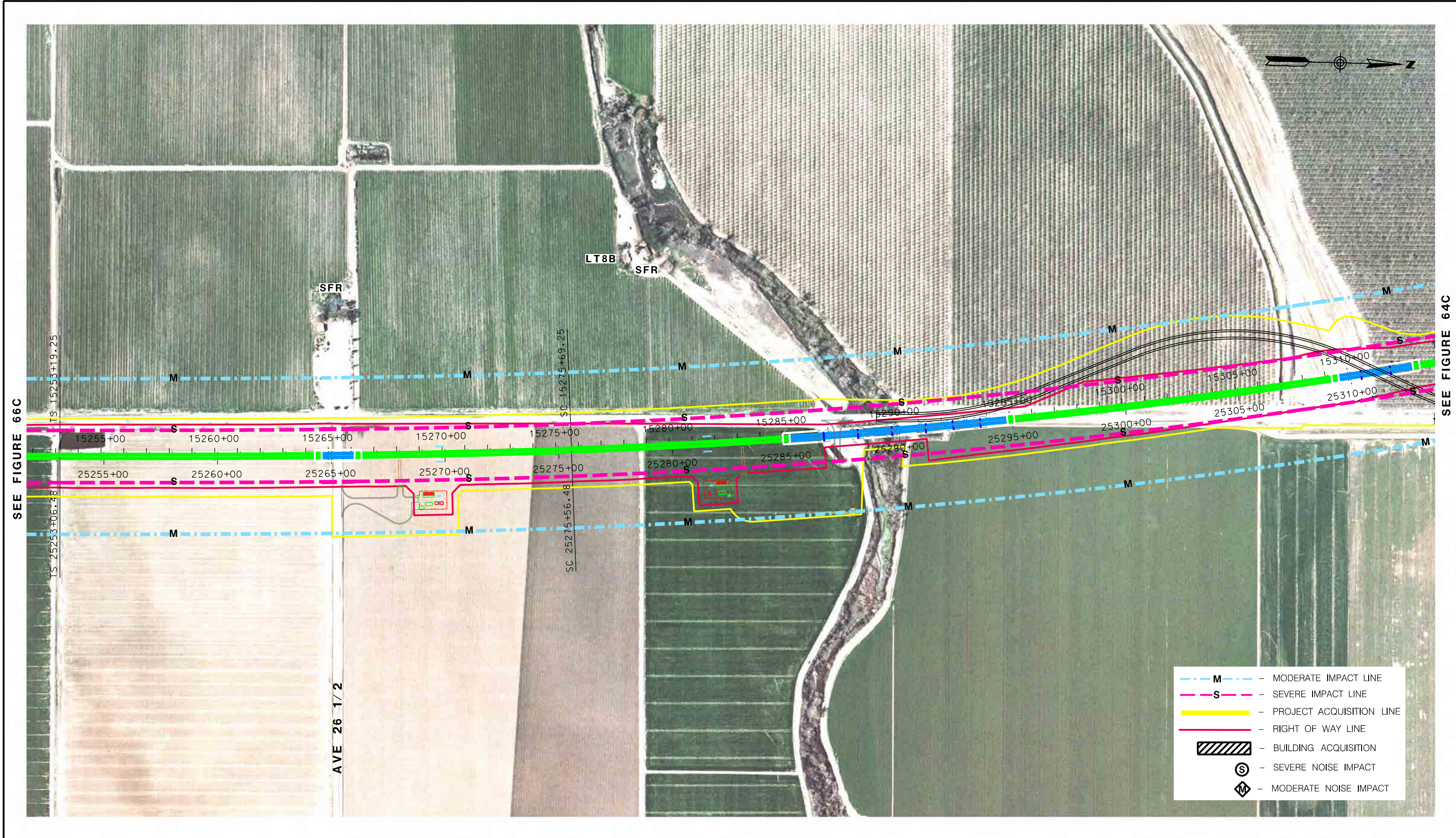
- NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	- TRACK IN TRENCH
- VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	- TRACK AT GRADE
- SOUNDWALL		- TRACK ON AERIAL

1 : 400ft

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 AVENUE 21 TO ROAD 13 WYE ALTERNATIVE**

OCTOBER 17, 2016	FIGURE 64C
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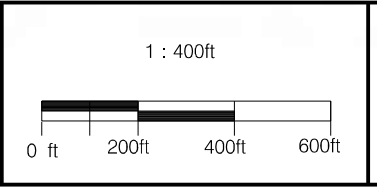
SEE FIGURE 66C

SEE FIGURE 64C

- M --- MODERATE IMPACT LINE
- S --- SEVERE IMPACT LINE
- --- PROJECT ACQUISITION LINE
- --- RIGHT OF WAY LINE
- BUILDING ACQUISITION
- SEVERE NOISE IMPACT
- MODERATE NOISE IMPACT

LEGEND

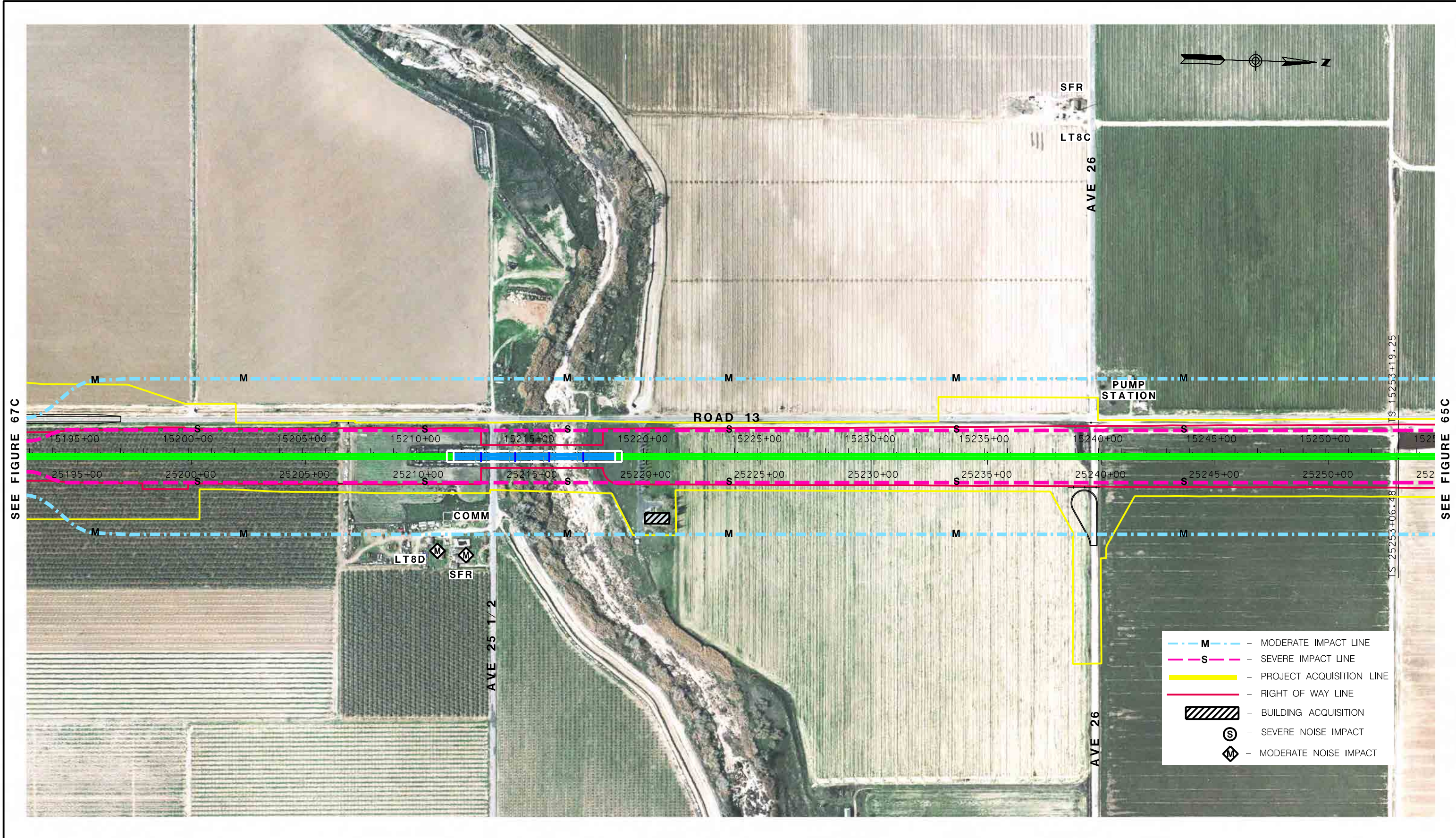
- NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	--- - TRACK IN TRENCH
- VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	--- - TRACK AT GRADE
- SOUNDWALL		--- - TRACK ON AERIAL



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OCTOBER 17, 2016 FIGURE 65C

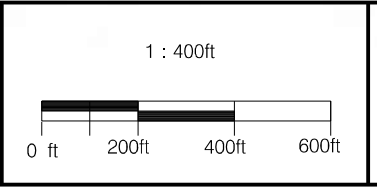


SEE FIGURE 67C

SEE FIGURE 65C

LEGEND

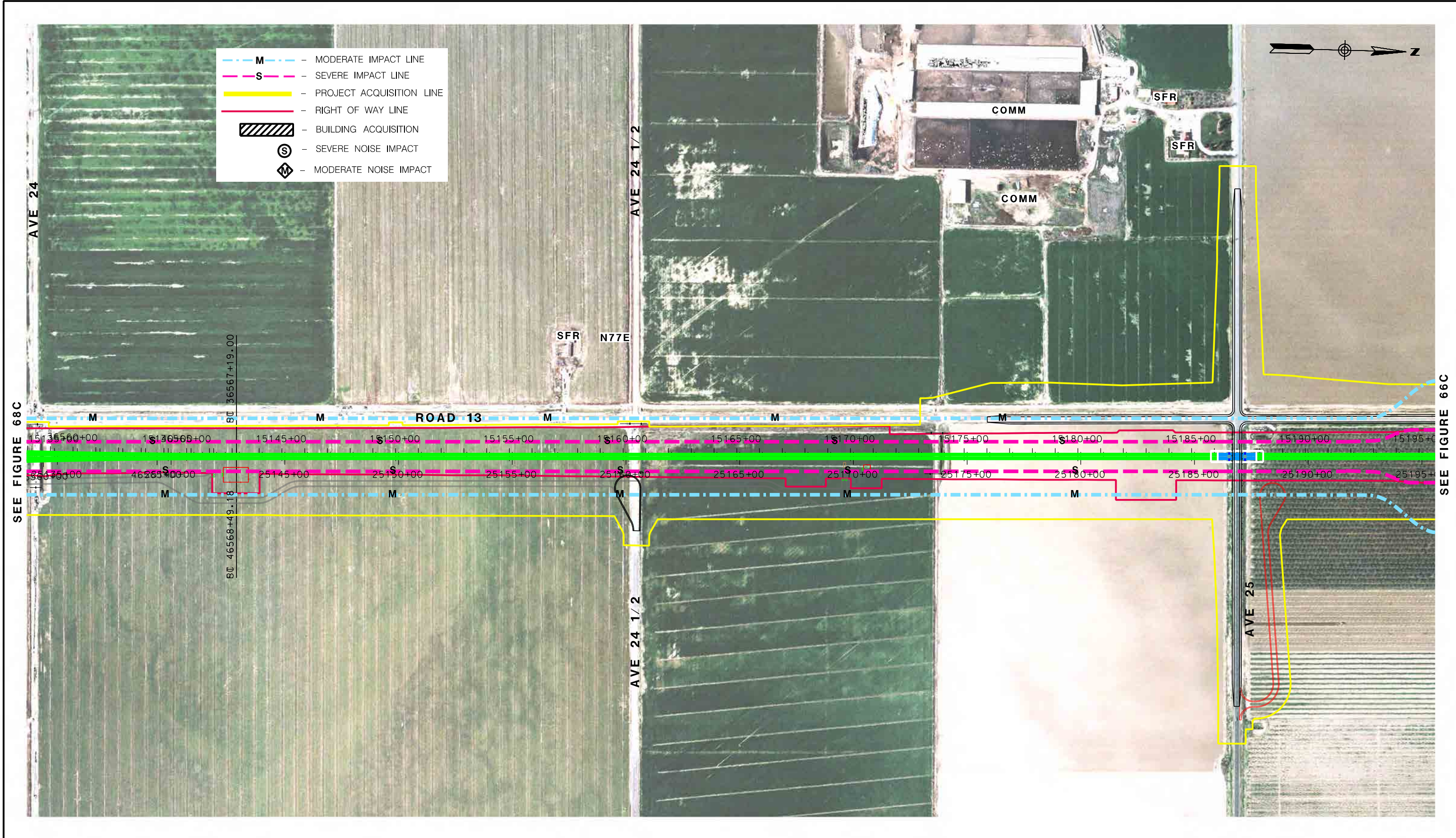
Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	- TRACK IN TRENCH
Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	- TRACK AT GRADE
- SOUNDWALL		- TRACK ON AERIAL



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 AVENUE 21 TO ROAD 13 WYE ALTERNATIVE**

OCTOBER 17, 2016 FIGURE 66C



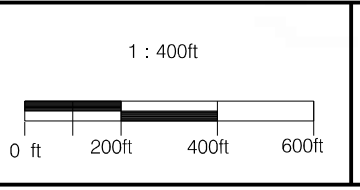
M - MODERATE IMPACT LINE
 S - SEVERE IMPACT LINE
 - PROJECT ACQUISITION LINE
 - RIGHT OF WAY LINE
 - BUILDING ACQUISITION
 S - SEVERE NOISE IMPACT
 M - MODERATE NOISE IMPACT

SEE FIGURE 68C

SEE FIGURE 66C

LEGEND

Nxx - NOISE MEASUREMENT SITE
 Vxx - VIBRATION MEASUREMENT SITE
 - SOUNDWALL
 SFR OR S - SINGLE FAMILY RESIDENTIAL
 COMM OR C - COMMERCIAL
 - TRACK IN TRENCH
 - TRACK AT GRADE
 - TRACK ON AERIAL

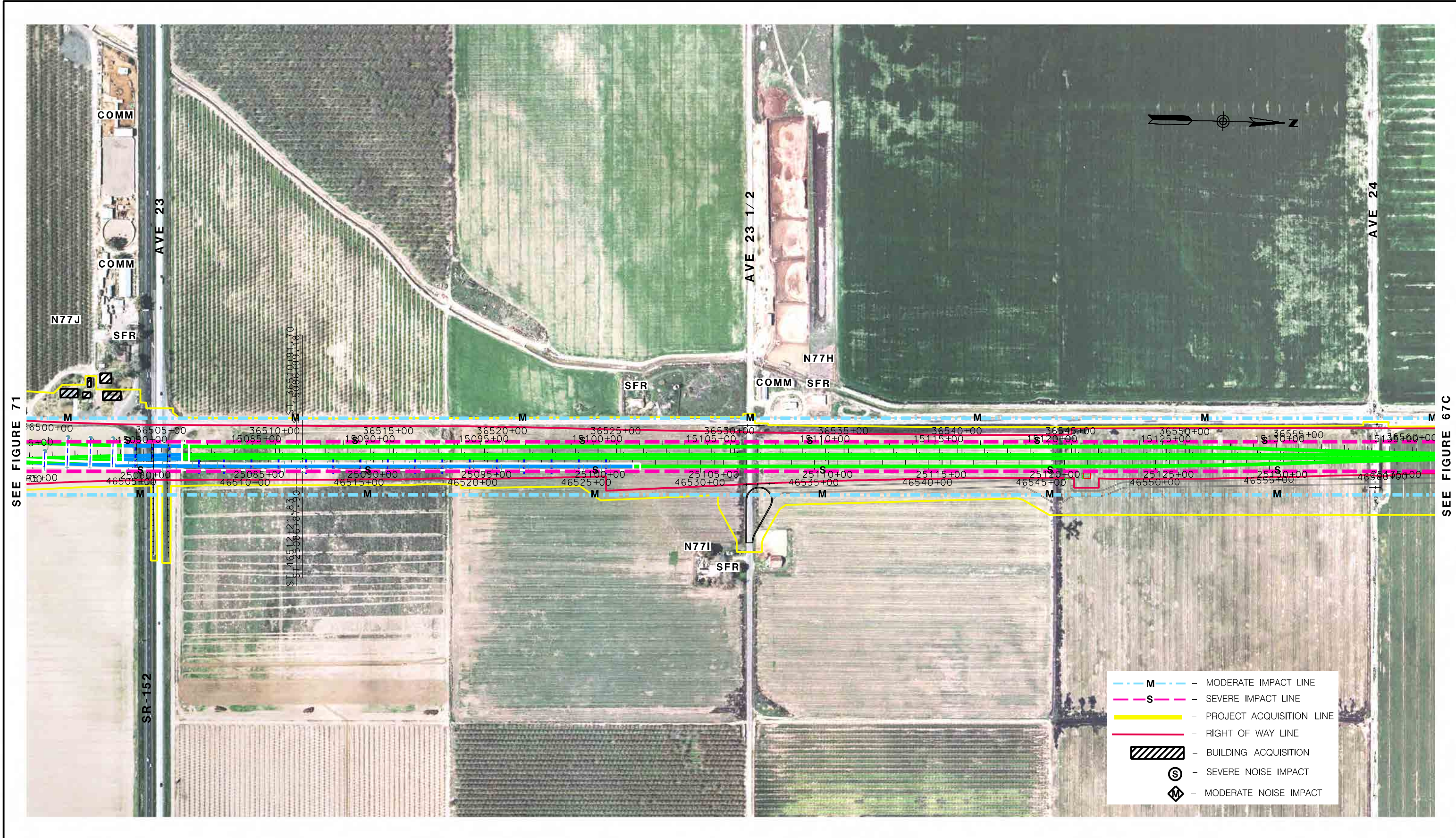


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 AVENUE 21 TO ROAD 13 WYE ALTERNATIVE**

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FIGURE 67C



SEE FIGURE 71

SEE FIGURE 67C

LEGEND

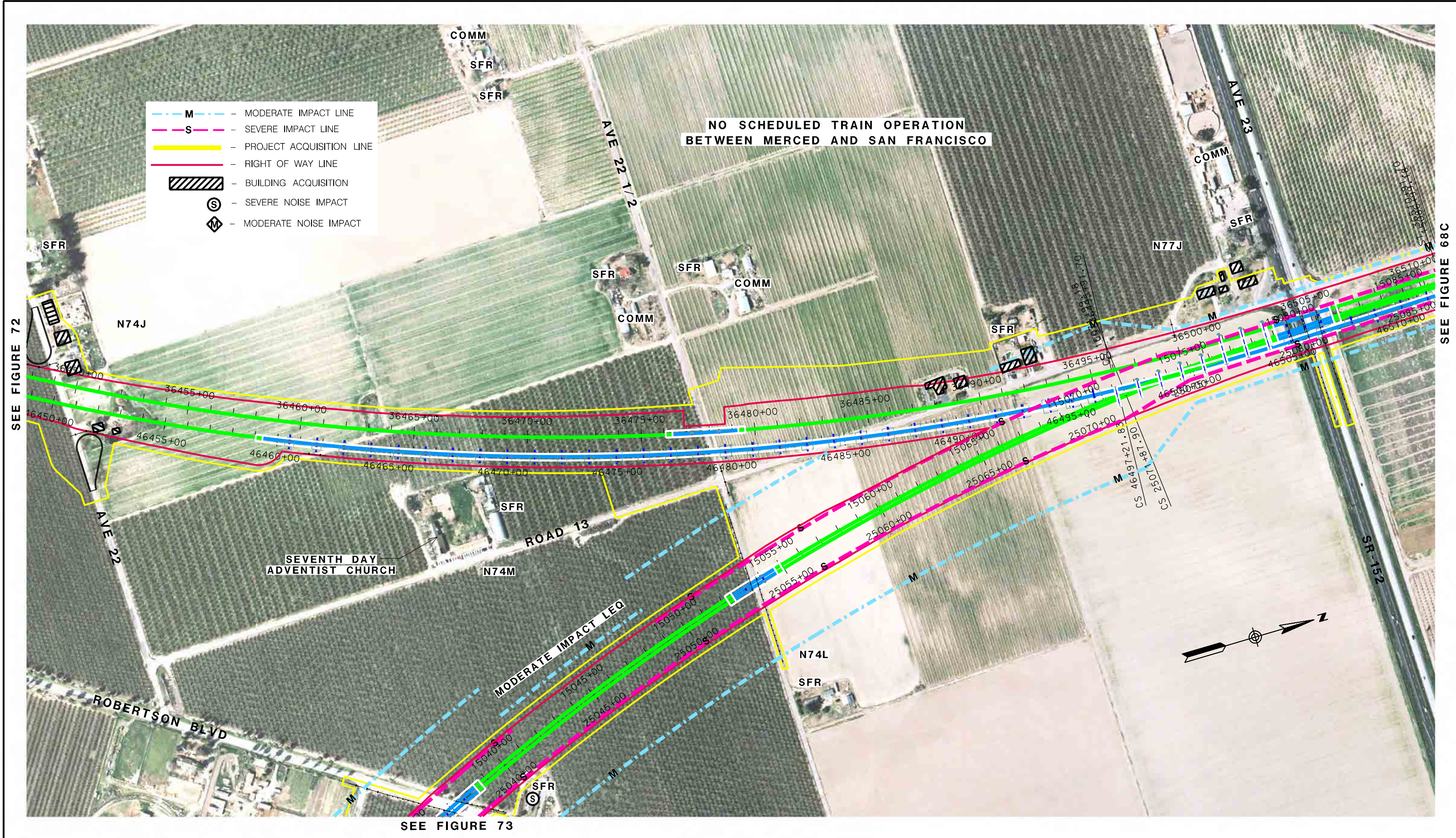
Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	- TRACK IN TRENCH
Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	- TRACK AT GRADE
- SOUNDWALL		- TRACK ON AERIAL

1 : 400ft

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 NOISE IMPACTS AND MITIGATION
 AVENUE 21 TO ROAD 13 WYE ALTERNATIVE**

OCTOBER 17, 2016	FIGURE 68C
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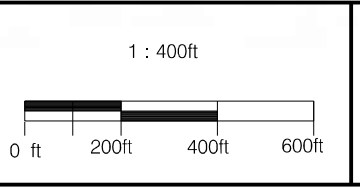
**NO SCHEDULED TRAIN OPERATION
BETWEEN MERCED AND SAN FRANCISCO**

SEE FIGURE 72

SEE FIGURE 68C

SEE FIGURE 73

LEGEND		
	Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL
	Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL
	- SOUNDWALL	
		- TRACK IN TRENCH
		- TRACK AT GRADE
		- TRACK ON AERIAL



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NOISE IMPACTS AND MITIGATION
AVENUE 21 TO ROAD 13 WYE ALTERNATIVE**

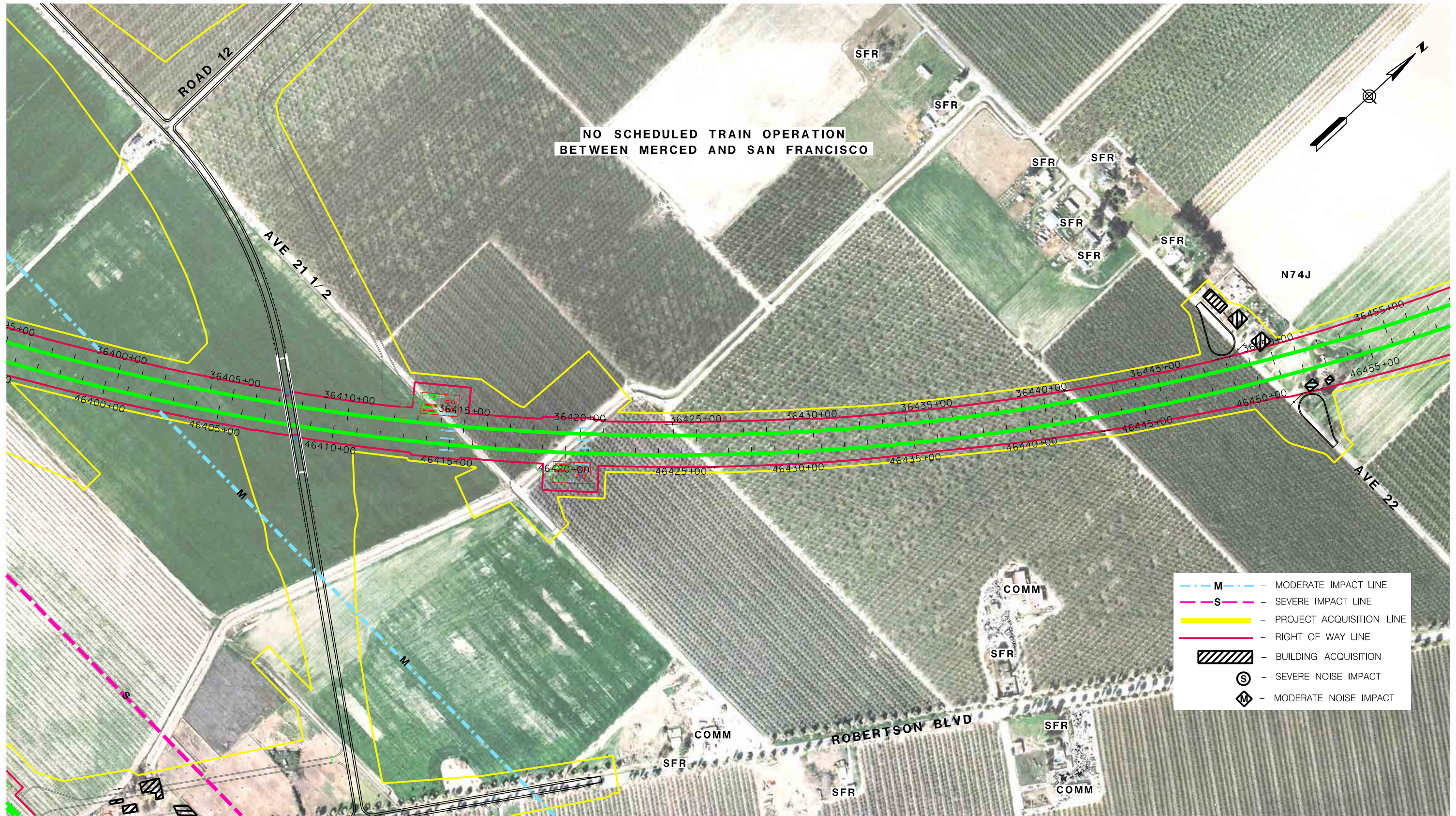
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FIGURE 71

NO SCHEDULED TRAIN OPERATION
BETWEEN MERCED AND SAN FRANCISCO

SEE FIGURE 50

SEE FIGURE 71



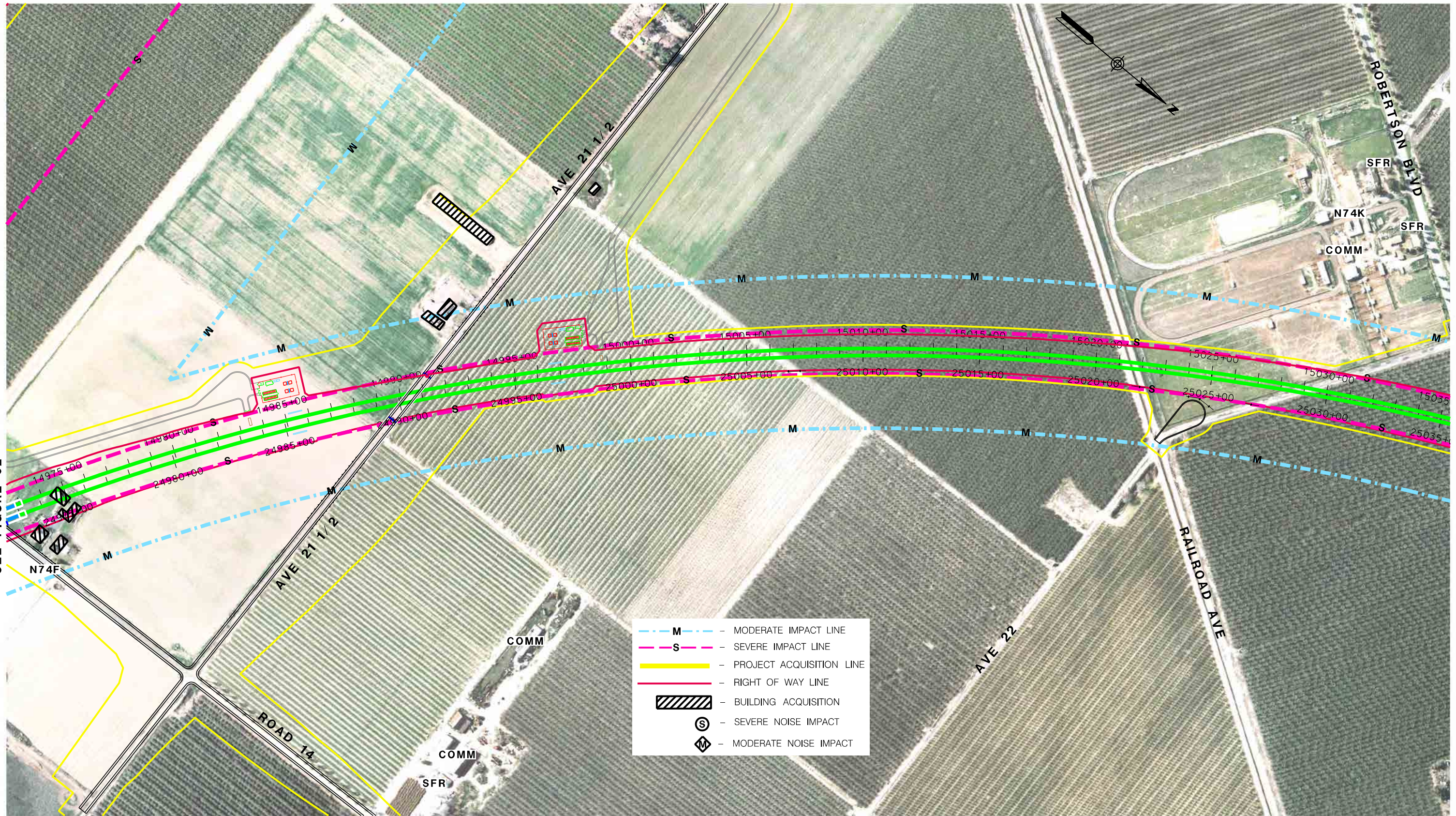
	M	- MODERATE IMPACT LINE
	S	- SEVERE IMPACT LINE
		- PROJECT ACQUISITION LINE
		- RIGHT OF WAY LINE
		- BUILDING ACQUISITION
		- SEVERE NOISE IMPACT
		- MODERATE NOISE IMPACT

	Nxx	- NOISE MEASUREMENT SITE	SFR OR S	- SINGLE FAMILY RESIDENTIAL		- TRACK IN TRENCH
	Vxx	- VIBRATION MEASUREMENT SITE	COMM OR C	- COMMERCIAL		- TRACK AT GRADE
		- SOUNDWALL				- TRACK ON AERIAL

1 : 400ft

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MERCED TO FRESNO SECTION: CENTRAL VALLEY WYE NOISE IMPACTS AND MITIGATION AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	
OCTOBER 17, 2016	FIGURE 72

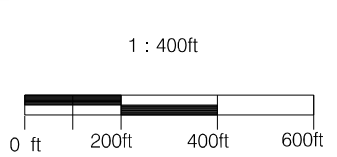


SEE FIGURE 52

SEE FIGURE 71

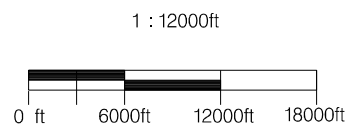
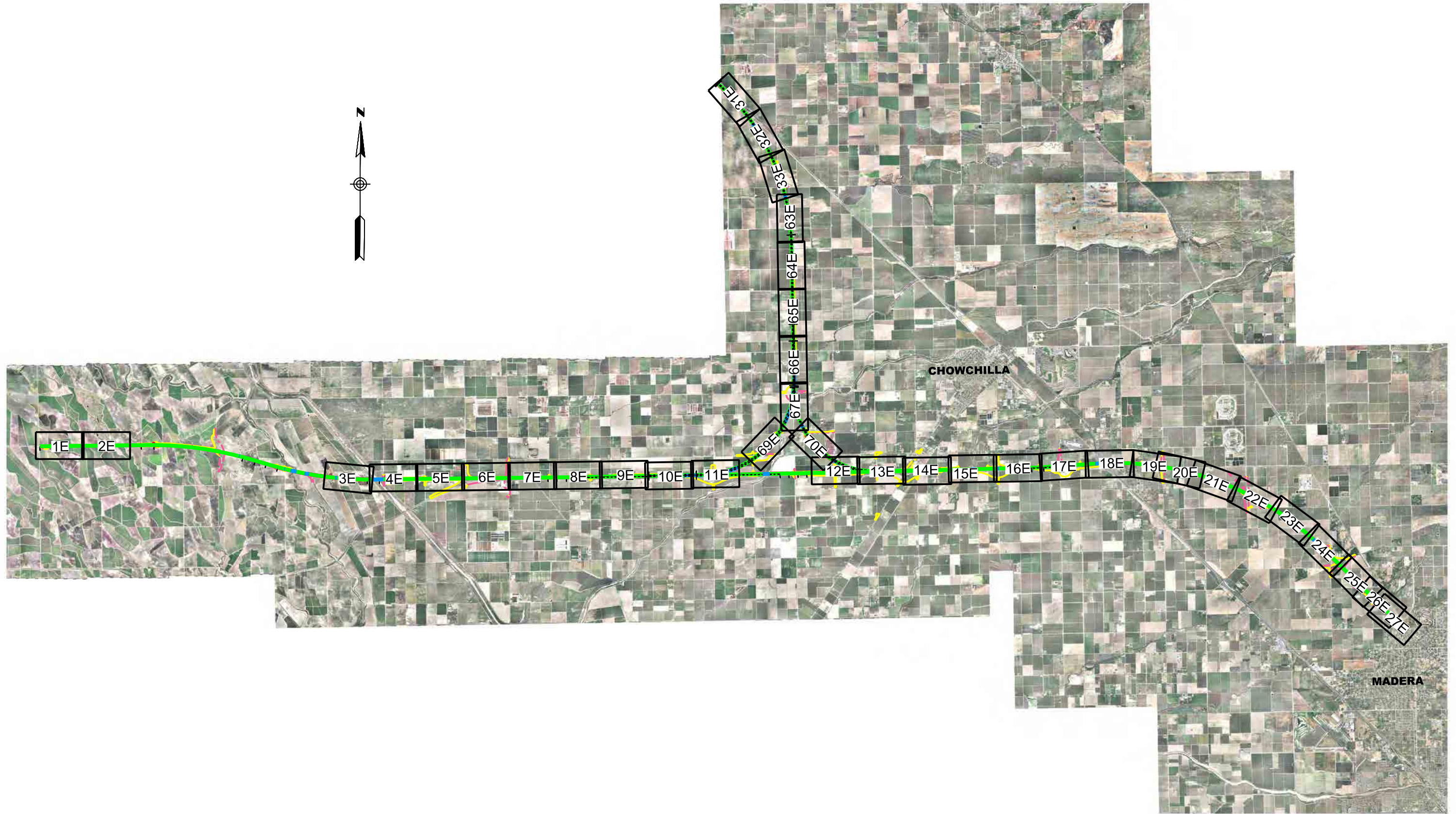
	- MODERATE IMPACT LINE
	- SEVERE IMPACT LINE
	- PROJECT ACQUISITION LINE
	- RIGHT OF WAY LINE
	- BUILDING ACQUISITION
	- SEVERE NOISE IMPACT
	- MODERATE NOISE IMPACT

LEGEND		
	- NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL
	- VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL
	- SOUNDWALL	
		- TRACK IN TRENCH
		- TRACK AT GRADE
		- TRACK ON AERIAL



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MERCED TO FRESNO SECTION: CENTRAL VALLEY WYE NOISE IMPACTS AND MITIGATION AVENUE 21 TO ROAD 13 WYE ALTERNATIVE	
OCTOBER 17, 2016	FIGURE 73

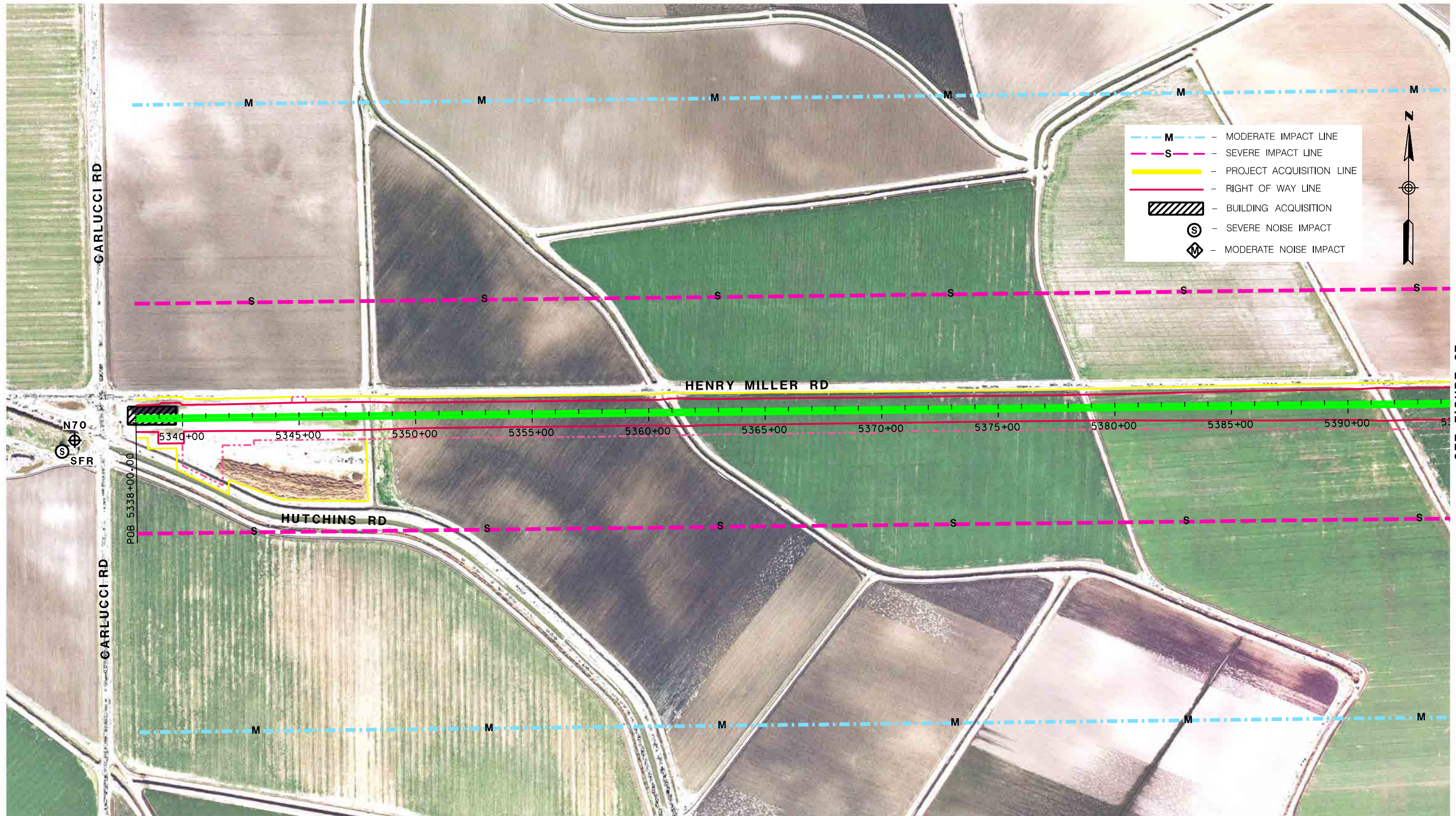


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KEY MAP

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 NOISE IMPACTS AND MITIGATION
 SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE

OCTOBER 17, 2016

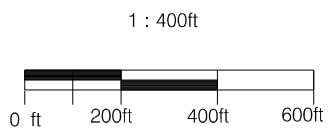


SEE FIGURE 2E

LEGEND
 ⊕ Nxx - NOISE MEASUREMENT SITE
 ⊕ Vxx - VIBRATION MEASUREMENT SITE
 —○— SOUNDWALL

SFR OR S - SINGLE FAMILY RESIDENTIAL
 COMM OR C - COMMERCIAL

— TRACK IN TRENCH
 — TRACK AT GRADE
 — TRACK ON AERIAL



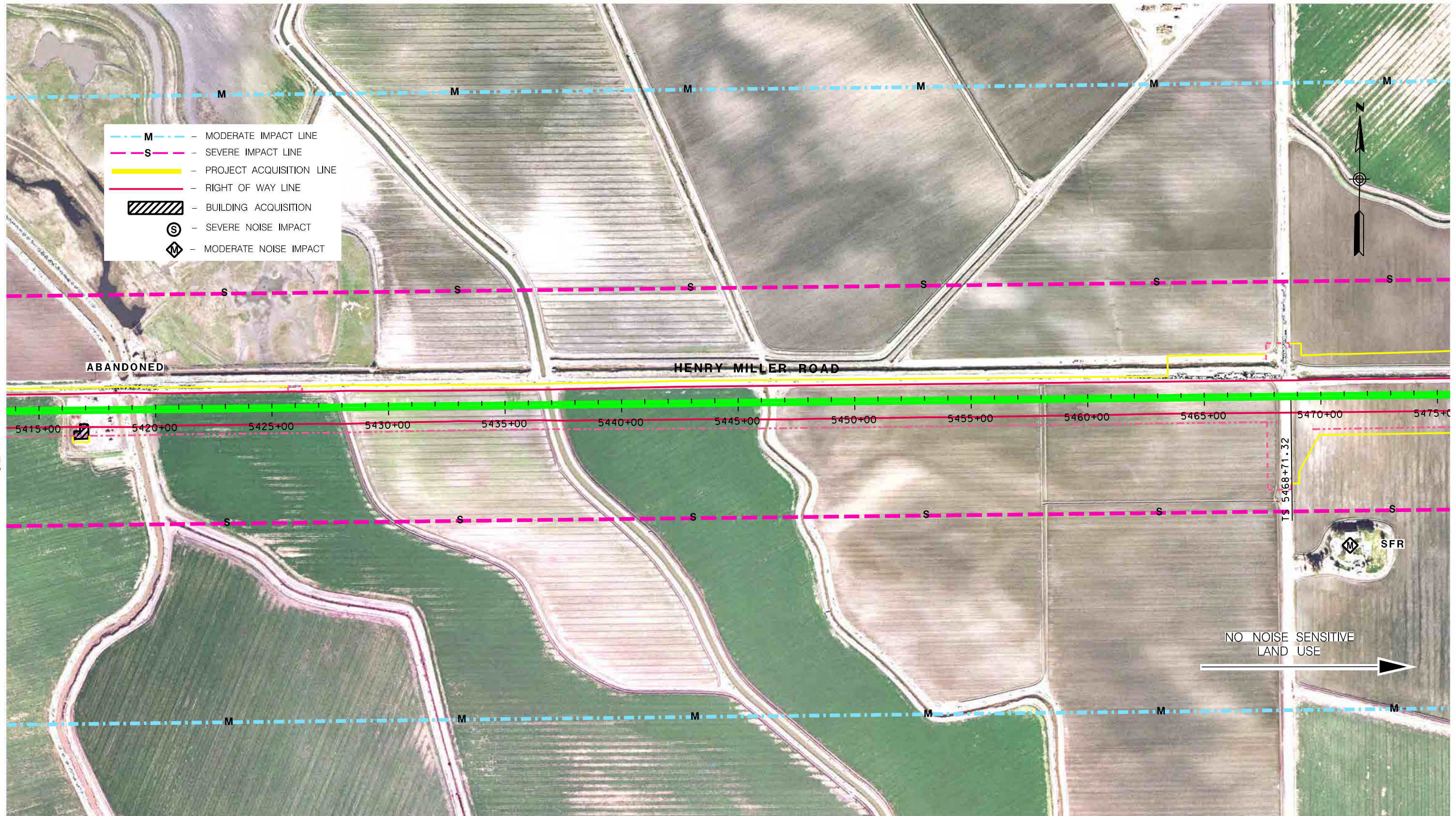
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 NOISE IMPACTS AND MITIGATION
 SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE

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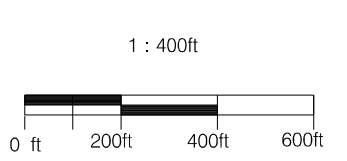
FIGURE 1E

SEE FIGURE 1E



- - - M - - - - MODERATE IMPACT LINE
- - - S - - - - SEVERE IMPACT LINE
- - PROJECT ACQUISITION LINE
- - RIGHT OF WAY LINE
- ▨ - BUILDING ACQUISITION
- S - SEVERE NOISE IMPACT
- M - MODERATE NOISE IMPACT

- LEGEND**
- ⊕Nxx - NOISE MEASUREMENT SITE
 - ⊕Vxx - VIBRATION MEASUREMENT SITE
 - ⊕ - SOUNDWALL
 - SFR OR S** - SINGLE FAMILY RESIDENTIAL
 - COMM OR C** - COMMERCIAL
 - - TRACK IN TRENCH
 - - TRACK AT GRADE
 - - TRACK ON AERIAL

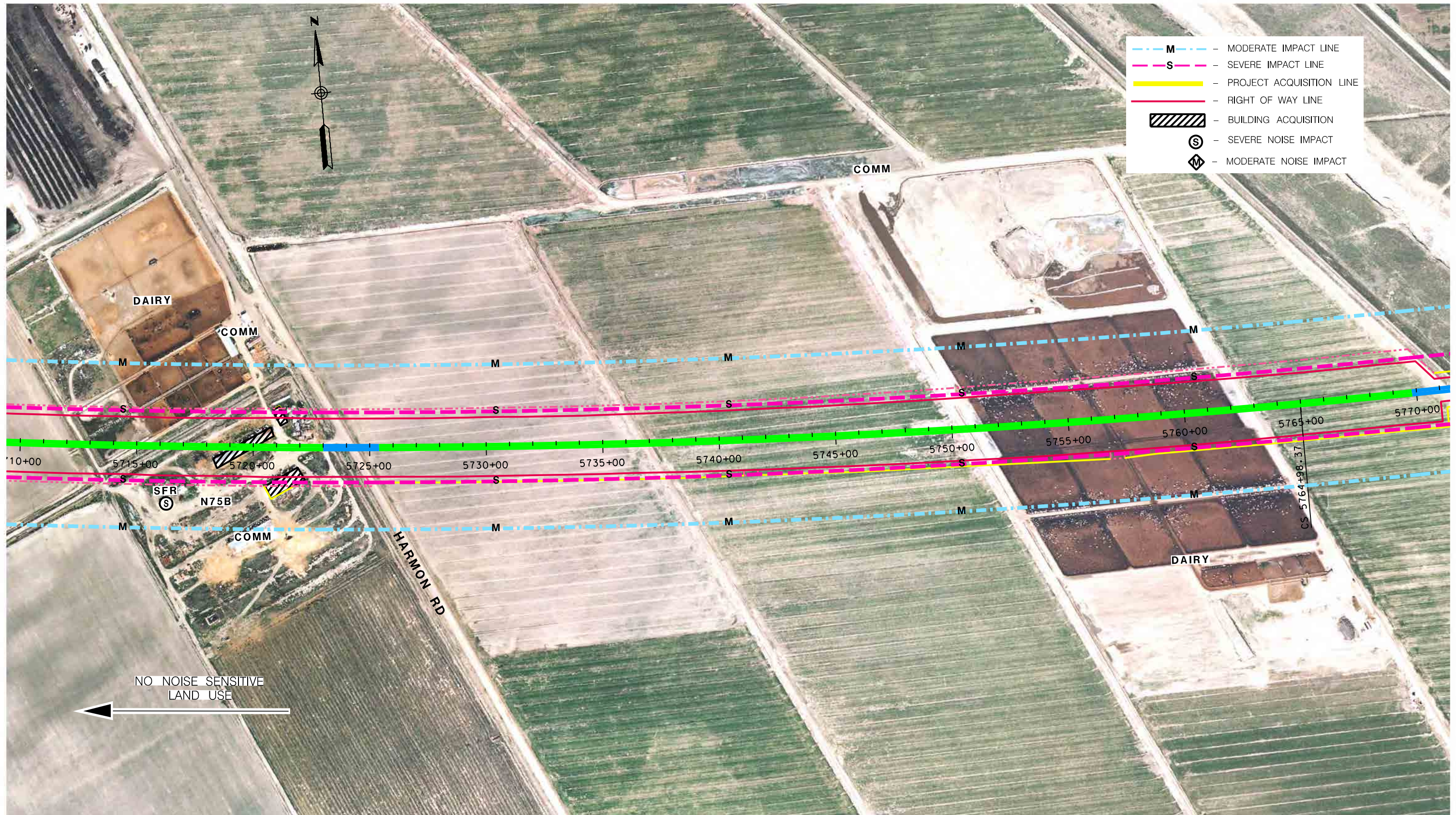


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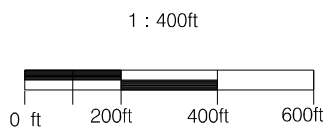
FIGURE 2E



SEE FIGURE 4E

LEGEND

- ⊕ Nxx - NOISE MEASUREMENT SITE
- ⊕ Vxx - VIBRATION MEASUREMENT SITE
- SOUNDWALL
- SFR OR S - SINGLE FAMILY RESIDENTIAL
- COMM OR C - COMMERCIAL
- TRACK IN TRENCH
- TRACK AT GRADE
- TRACK ON AERIAL



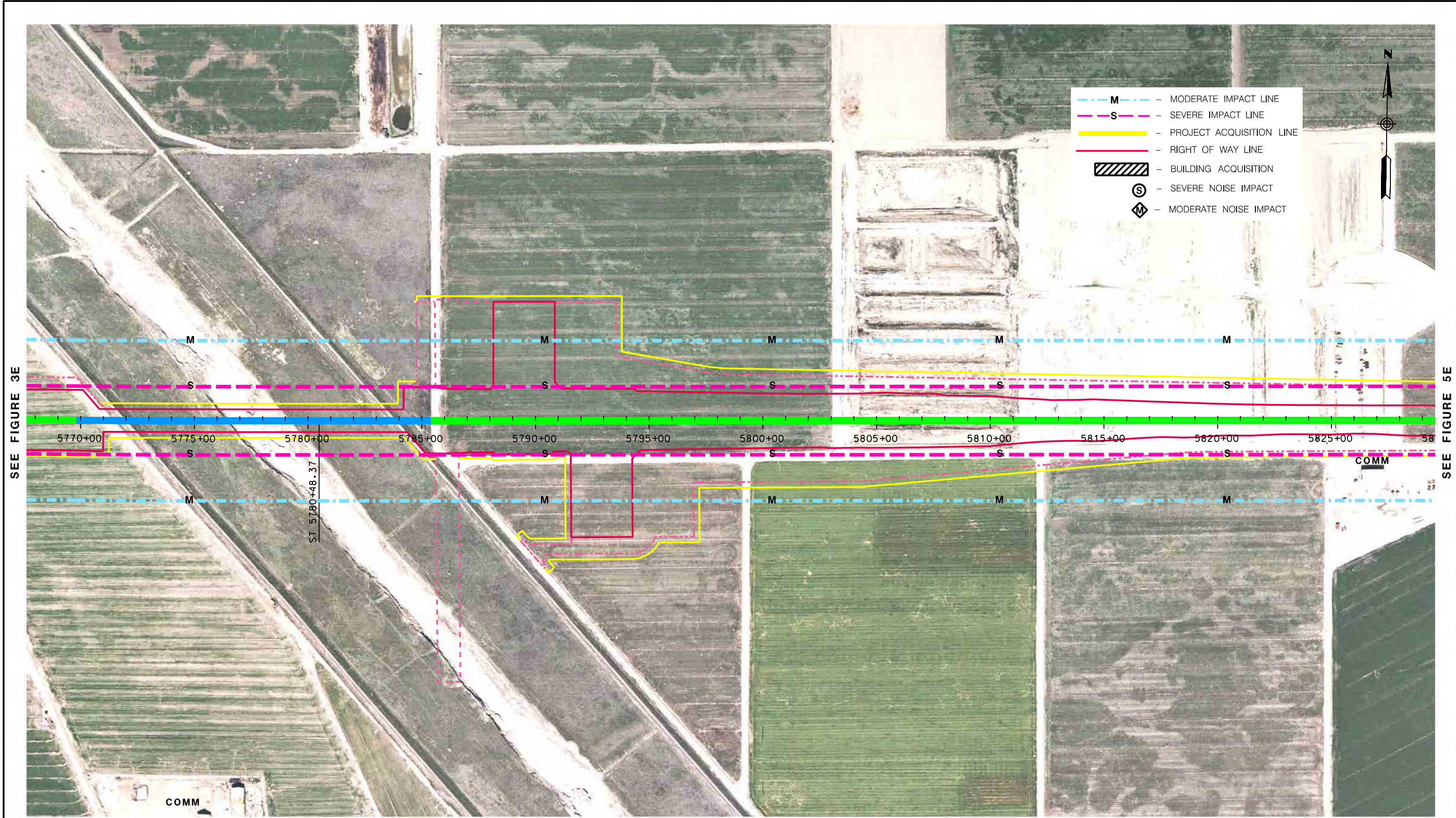
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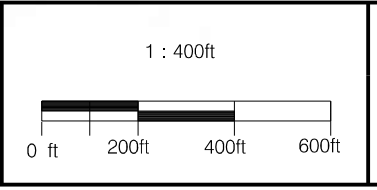
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FIGURE 3E



LEGEND

⊕ Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	— TRACK IN TRENCH
⊕ Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	— TRACK AT GRADE
— SOUNDWALL		— TRACK ON AERIAL

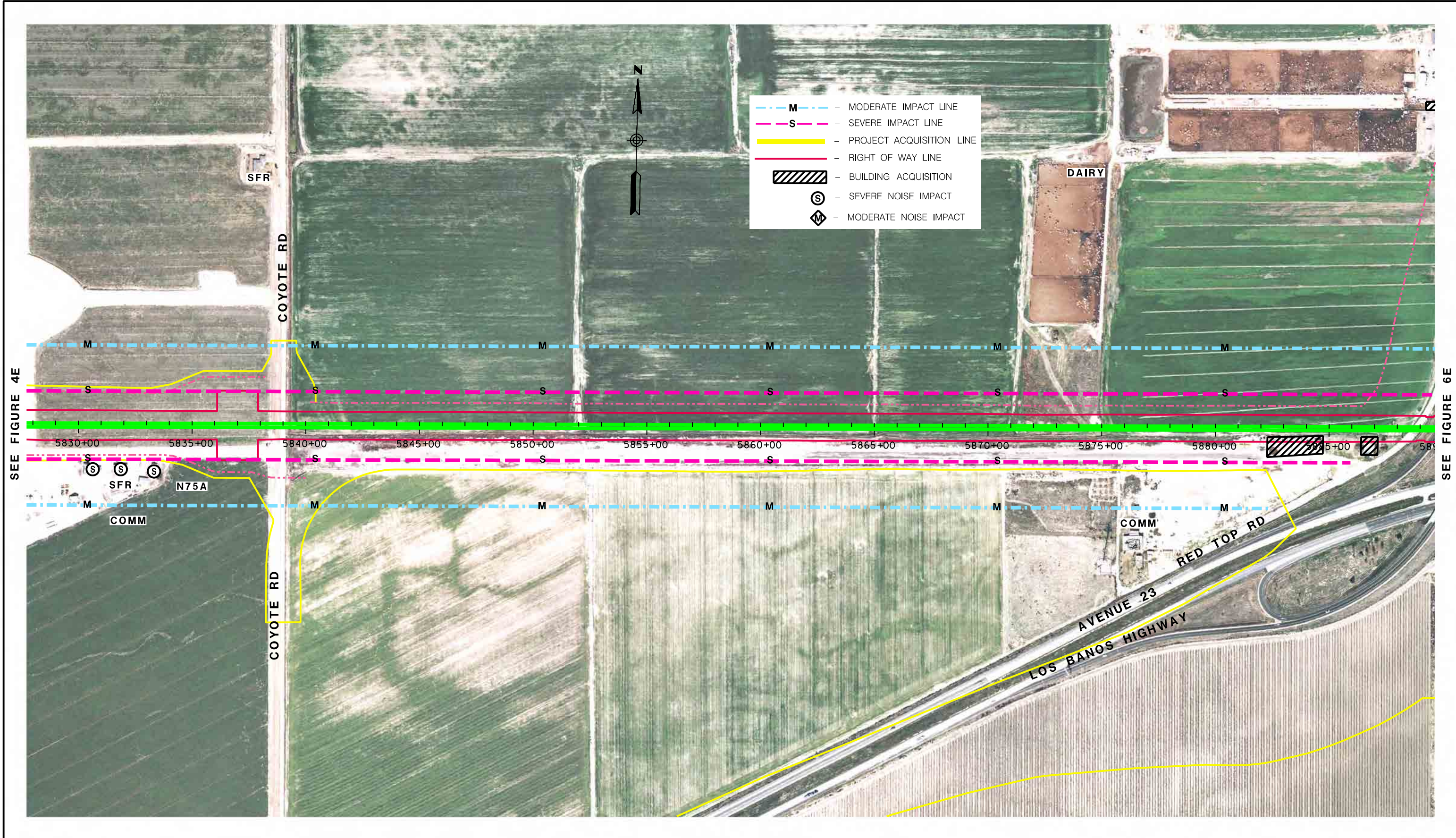


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 NOISE IMPACTS AND MITIGATION
 SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE

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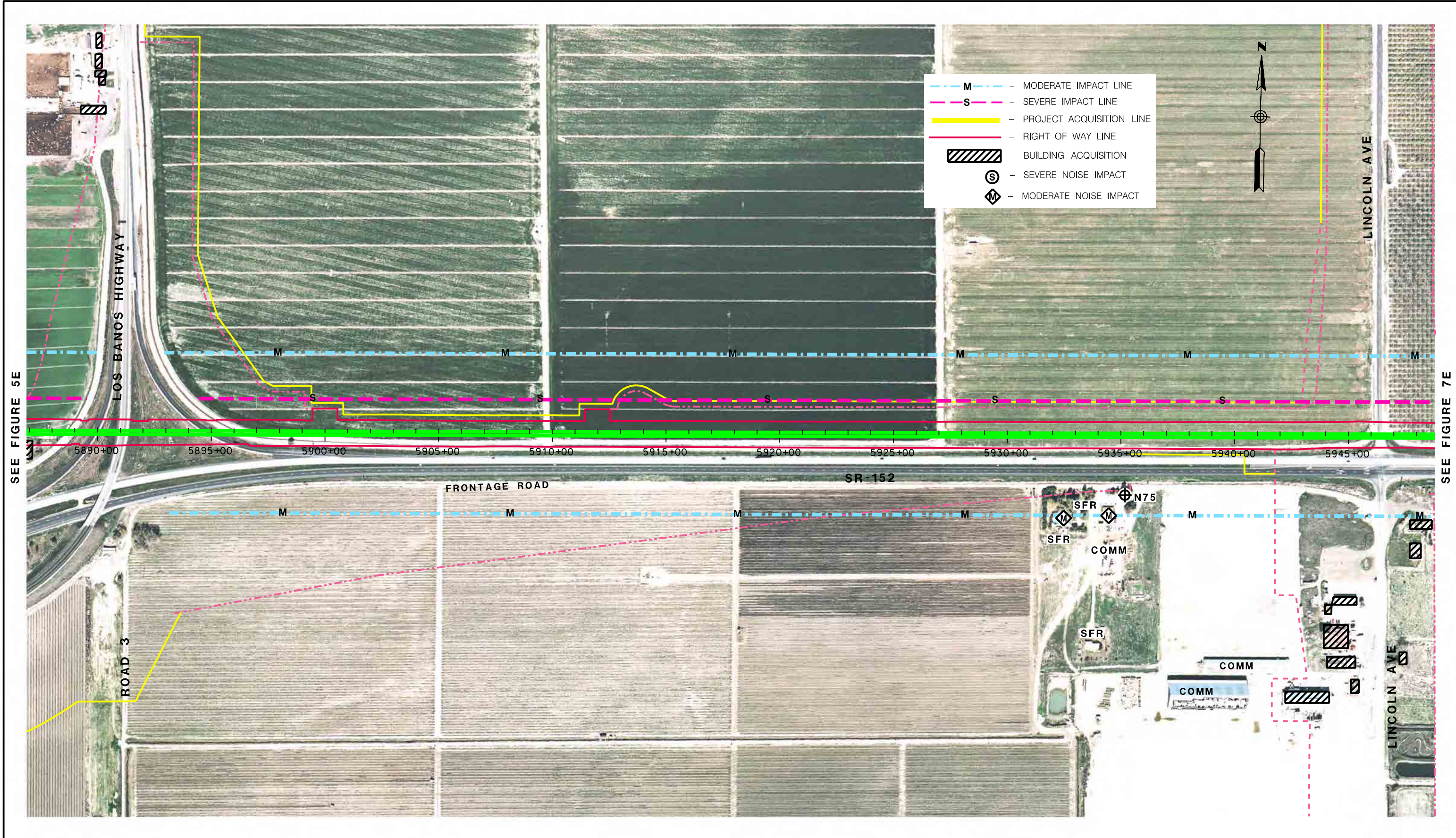
FIGURE 4E



SEE FIGURE 4E

SEE FIGURE 6E

<p>LEGEND</p> <ul style="list-style-type: none"> Nxx - NOISE MEASUREMENT SITE Vxx - VIBRATION MEASUREMENT SITE - SOUNDWALL 	<ul style="list-style-type: none"> SFR OR S - SINGLE FAMILY RESIDENTIAL COMM OR C - COMMERCIAL 	<ul style="list-style-type: none"> - TRACK IN TRENCH - TRACK AT GRADE - TRACK ON AERIAL 	<p>1 : 400ft</p>	<p>PARSONS</p> <p>100 WEST WALNUT ST. PASADENA, CA 91124 (626) 440-6100</p>	<p>MERCED TO FRESNO SECTION: CENTRAL VALLEY WYE NOISE IMPACTS AND MITIGATION SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE</p> <p>OCTOBER 17, 2016</p> <p>FIGURE 5E</p>
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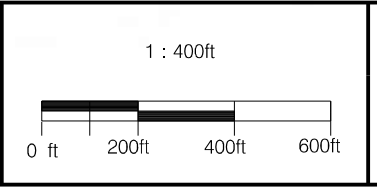
SEE FIGURE 5E

SEE FIGURE 7E

- M - MODERATE IMPACT LINE
- S - SEVERE IMPACT LINE
- - PROJECT ACQUISITION LINE
- - RIGHT OF WAY LINE
- BUILDING ACQUISITION
- SEVERE NOISE IMPACT
- MODERATE NOISE IMPACT

LEGEND

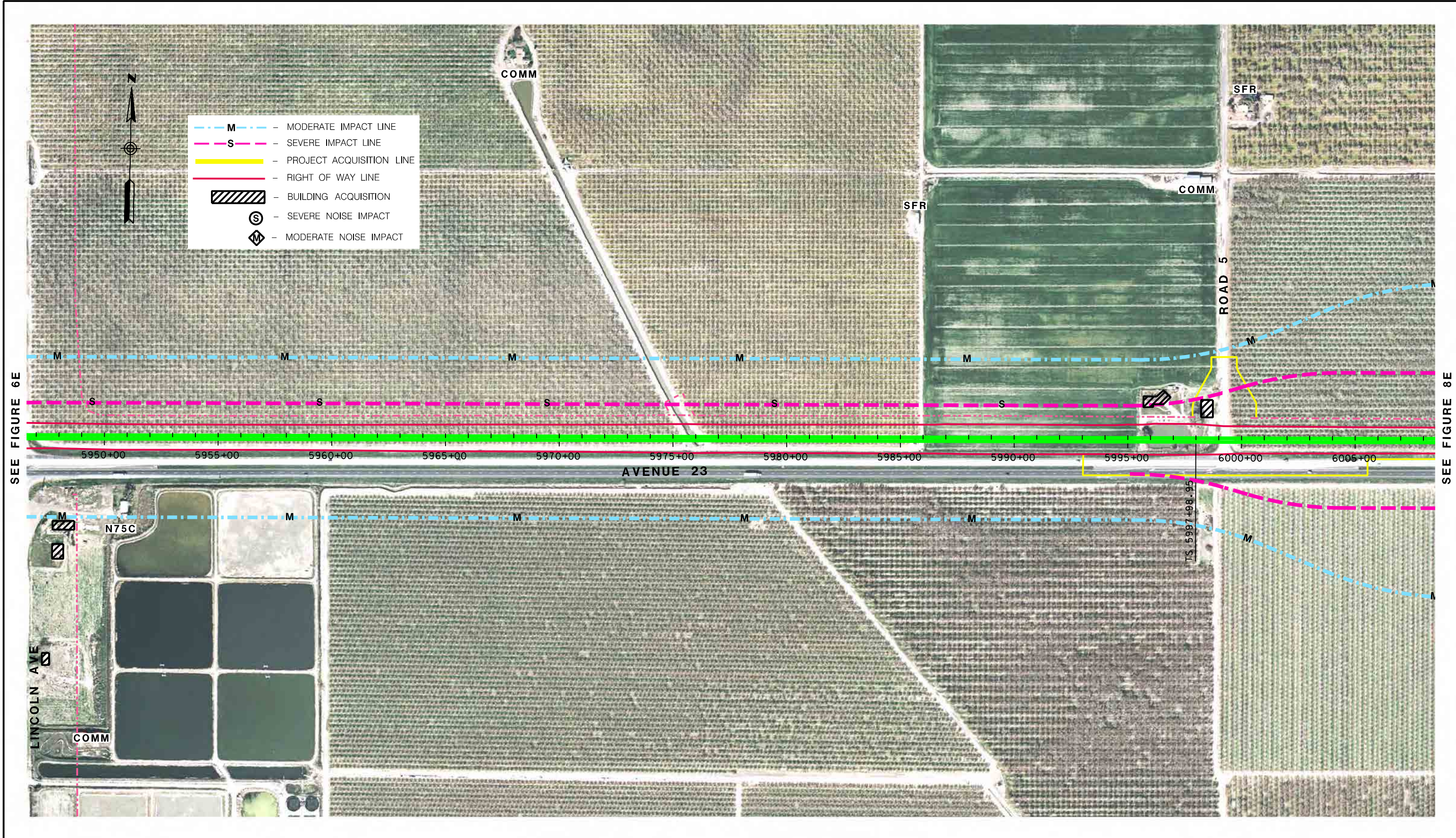
- NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	--- - TRACK IN TRENCH
- VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	--- - TRACK AT GRADE
- SOUNDWALL		--- - TRACK ON AERIAL



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 NOISE IMPACTS AND MITIGATION
 SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE**

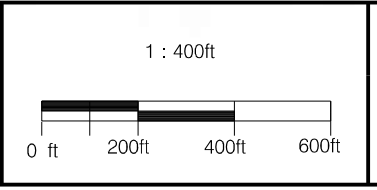
OCTOBER 17, 2016	FIGURE 6E
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SEE FIGURE 6E

SEE FIGURE 8E

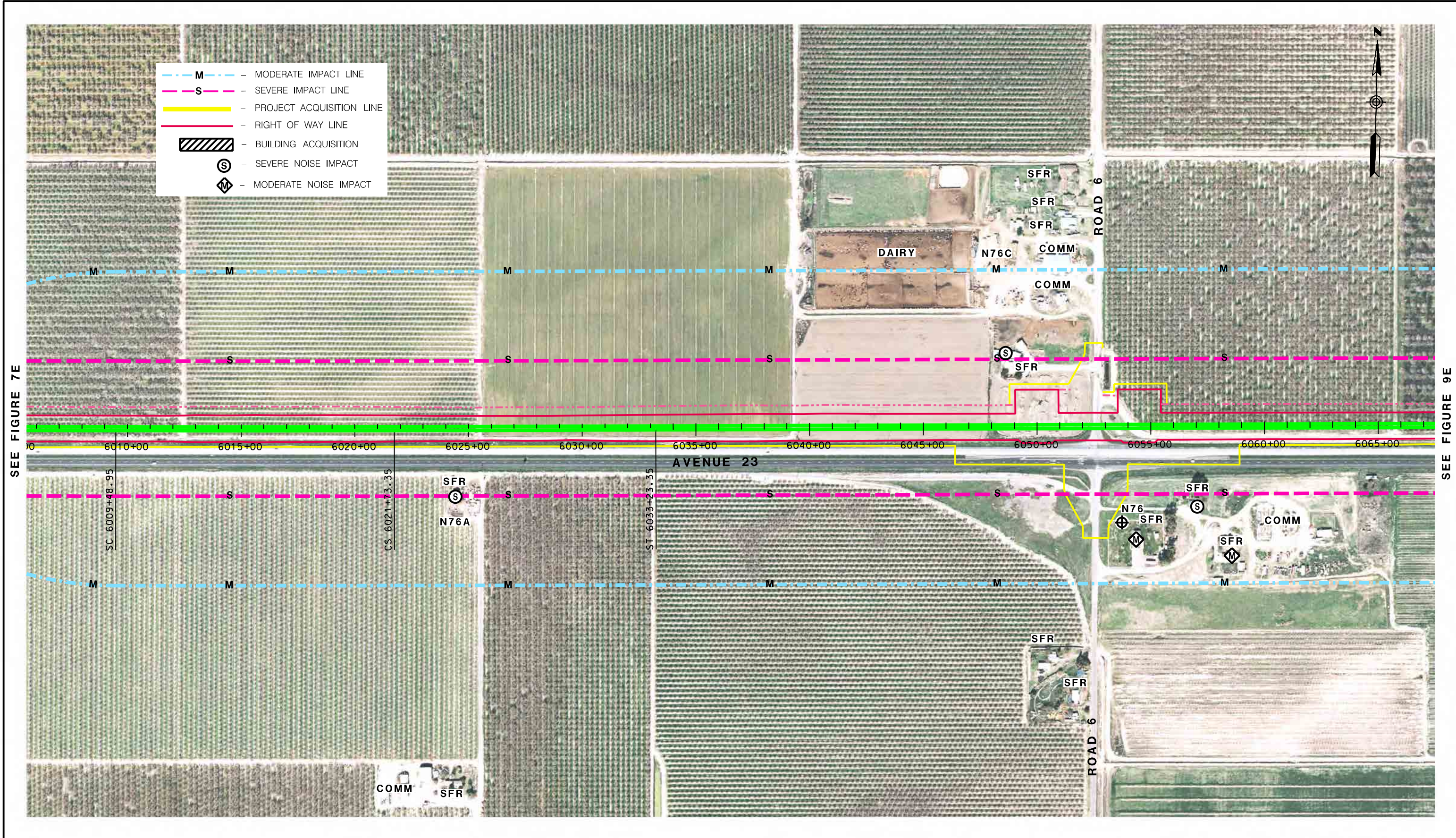
LEGEND			
	Nxx - NOISE MEASUREMENT SITE		- TRACK IN TRENCH
	Vxx - VIBRATION MEASUREMENT SITE		- TRACK AT GRADE
	- SOUNDWALL		- TRACK ON AERIAL
	SFR OR S - SINGLE FAMILY RESIDENTIAL		
	COMM OR C - COMMERCIAL		



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OCTOBER 17, 2016	FIGURE 7E
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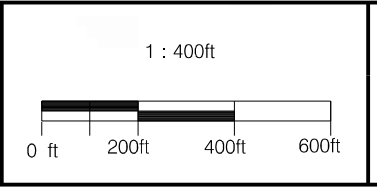


- - - M - MODERATE IMPACT LINE
- - - S - SEVERE IMPACT LINE
- - PROJECT ACQUISITION LINE
- - RIGHT OF WAY LINE
- BUILDING ACQUISITION
- S - SEVERE NOISE IMPACT
- M - MODERATE NOISE IMPACT

SEE FIGURE 7E

SEE FIGURE 9E

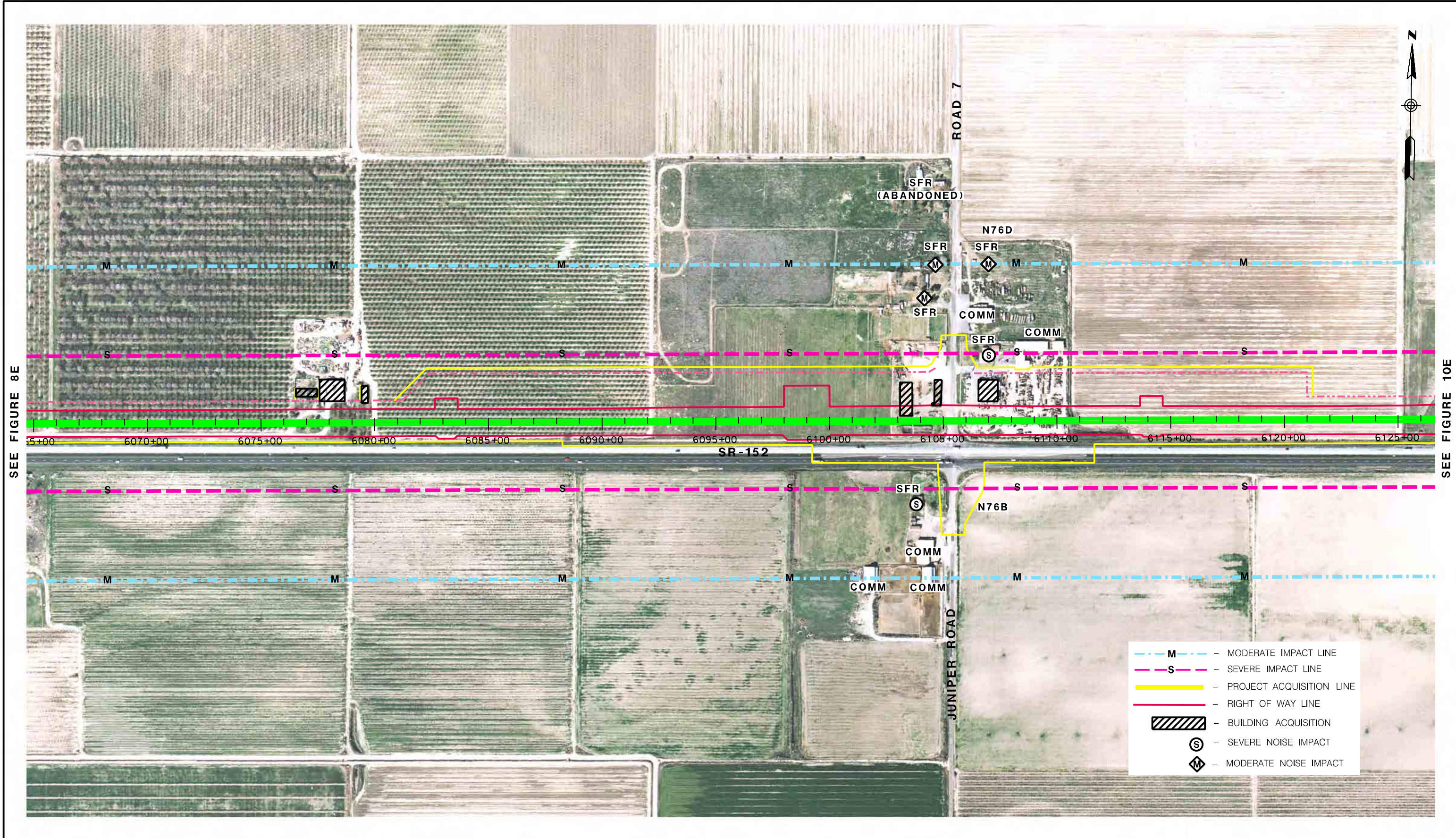
<p>LEGEND</p> <ul style="list-style-type: none"> Nxx - NOISE MEASUREMENT SITE Vxx - VIBRATION MEASUREMENT SITE - SOUNDWALL 	<ul style="list-style-type: none"> SFR OR S - SINGLE FAMILY RESIDENTIAL COMM OR C - COMMERCIAL 	<ul style="list-style-type: none"> — - TRACK IN TRENCH — - TRACK AT GRADE — - TRACK ON AERIAL
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OCTOBER 17, 2016	FIGURE 8E
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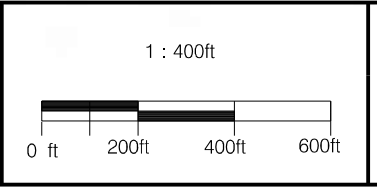


SEE FIGURE 8E

SEE FIGURE 10E

LEGEND

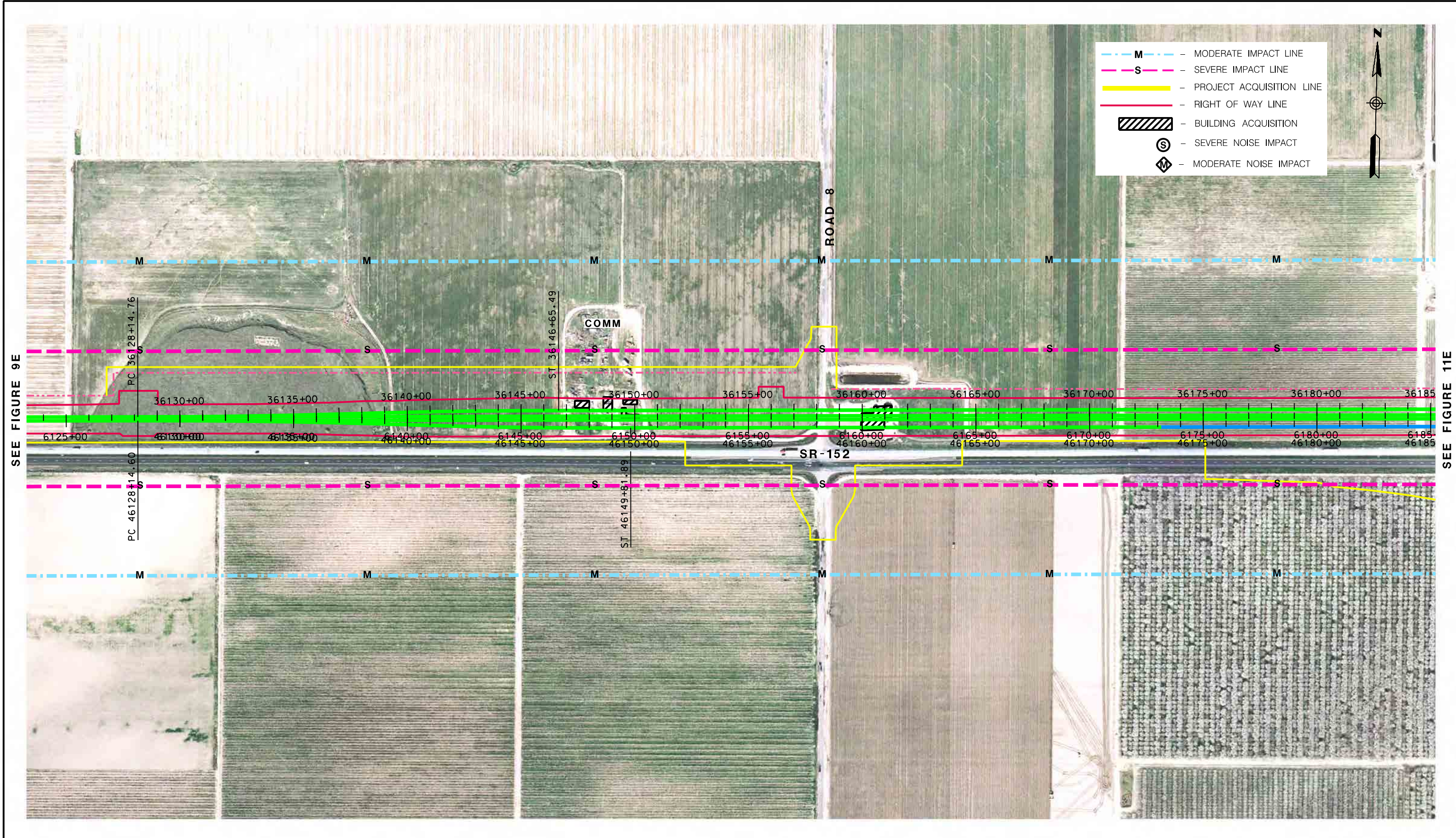
⊕ Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	— TRACK IN TRENCH
⊕ Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	— TRACK AT GRADE
— SOUNDWALL		— TRACK ON AERIAL



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OCTOBER 17, 2016	FIGURE 9E
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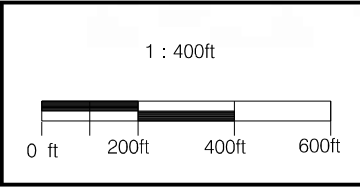
SEE FIGURE 9E

SEE FIGURE 11E

- M --- MODERATE IMPACT LINE
- S --- SEVERE IMPACT LINE
- --- PROJECT ACQUISITION LINE
- --- RIGHT OF WAY LINE
- BUILDING ACQUISITION
- SEVERE NOISE IMPACT
- MODERATE NOISE IMPACT

LEGEND

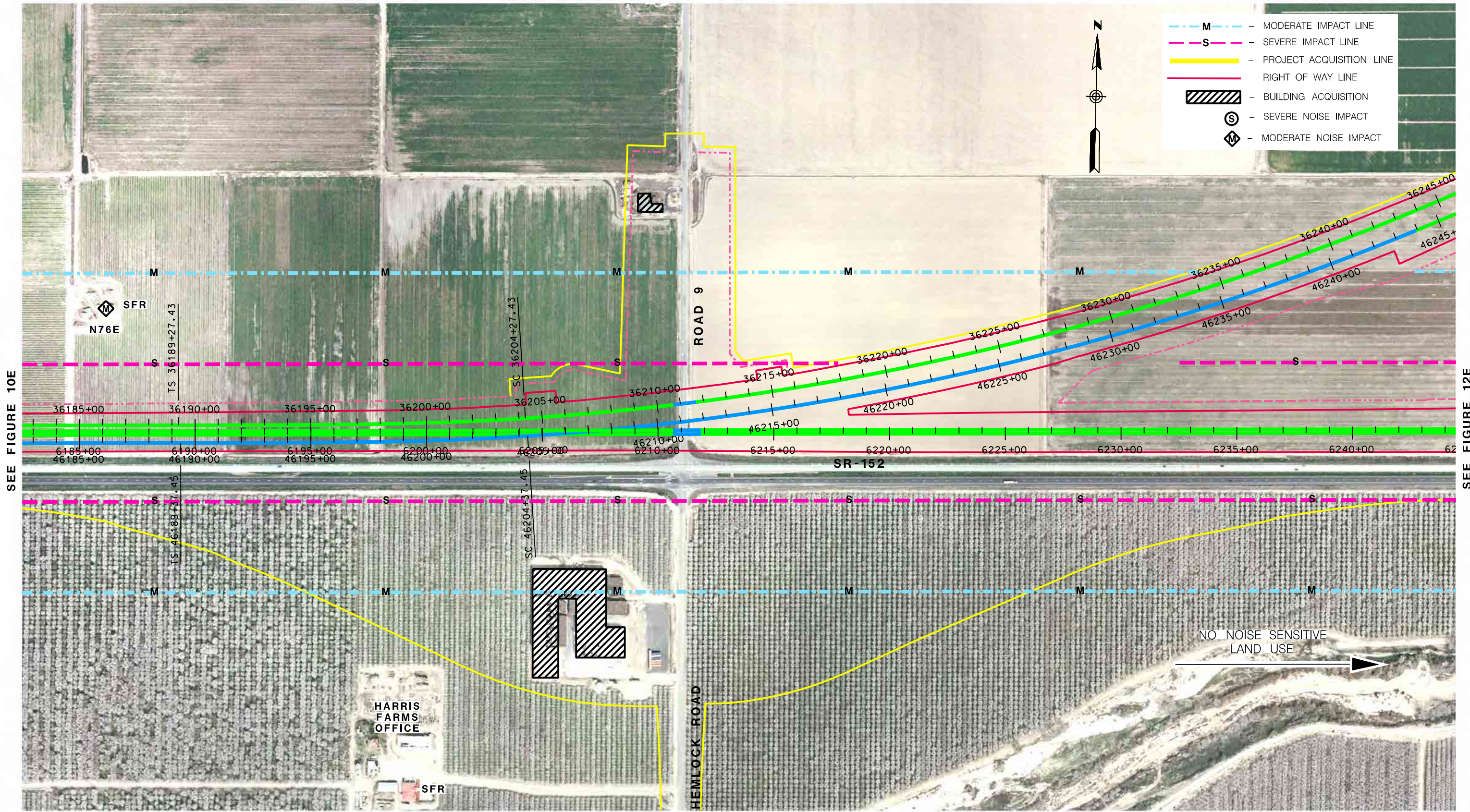
- NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	--- - TRACK IN TRENCH
- VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	--- - TRACK AT GRADE
- SOUNDWALL		--- - TRACK ON AERIAL



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OCTOBER 17, 2016	FIGURE 10E
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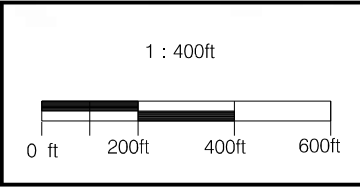


SEE FIGURE 10E

SEE FIGURE 12E

LEGEND

Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	- TRACK IN TRENCH
Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	- TRACK AT GRADE
- SOUNDWALL		- TRACK ON AERIAL



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OCTOBER 17, 2016 FIGURE 11E

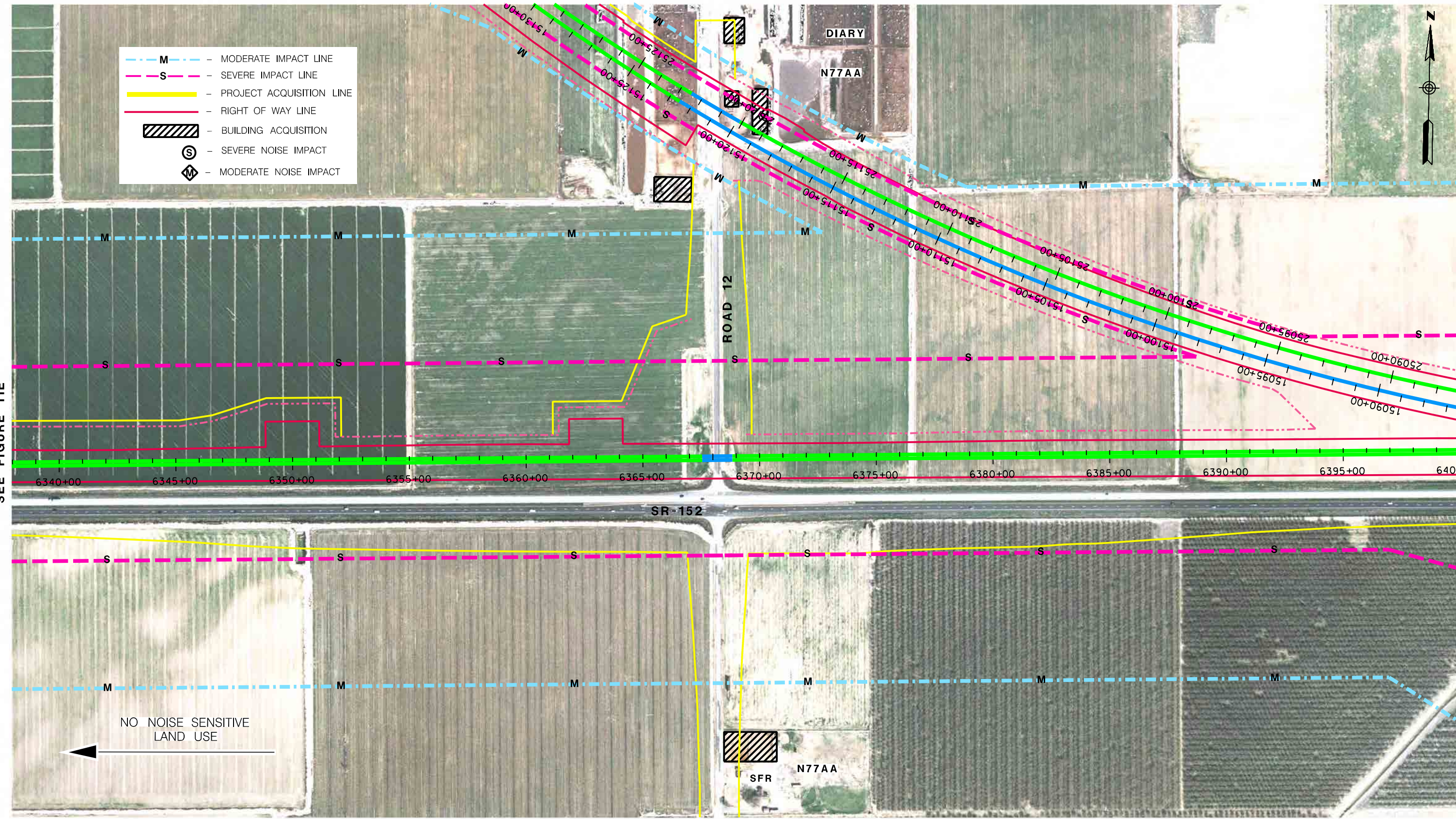
SEE FIGURE 70E

- - - M - MODERATE IMPACT LINE
- - - S - SEVERE IMPACT LINE
- - PROJECT ACQUISITION LINE
- - RIGHT OF WAY LINE
- BUILDING ACQUISITION
- SEVERE NOISE IMPACT
- MODERATE NOISE IMPACT



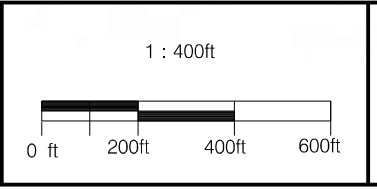
SEE FIGURE 11E

SEE FIGURE 13E



NO NOISE SENSITIVE
LAND USE
←

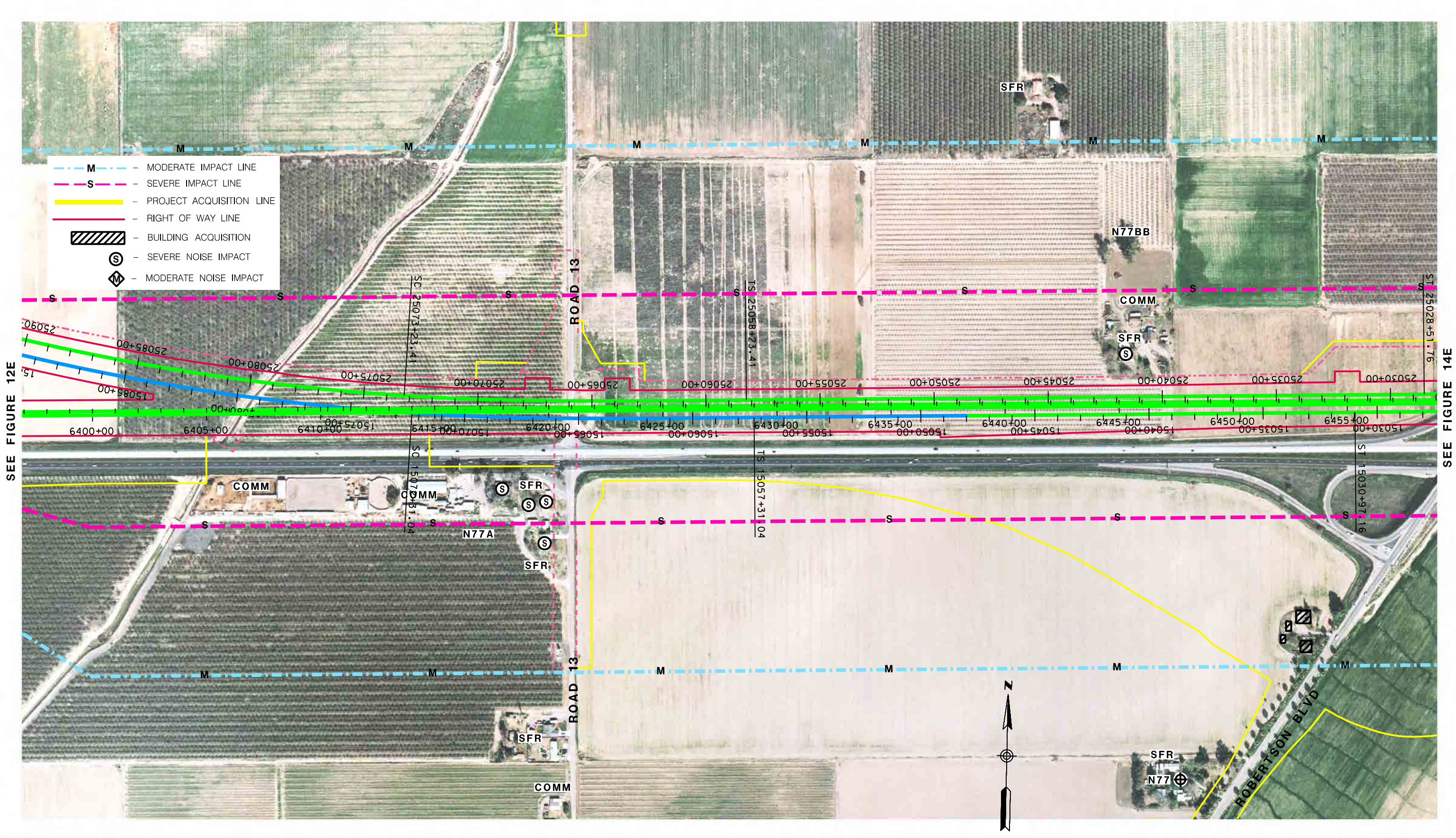
LEGEND		
- NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	— - TRACK IN TRENCH
- VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	— - TRACK AT GRADE
- SOUNDWALL		— - TRACK ON AERIAL



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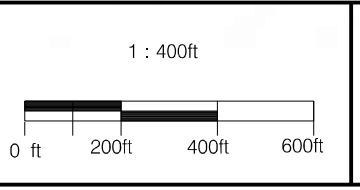
OCTOBER 17, 2016	FIGURE 12E
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SEE FIGURE 12E

SEE FIGURE 14E

LEGEND		
Nxx	- NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL
Vxx	- VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL
	- SOUNDWALL	- TRACK IN TRENCH
		- TRACK AT GRADE
		- TRACK ON AERIAL

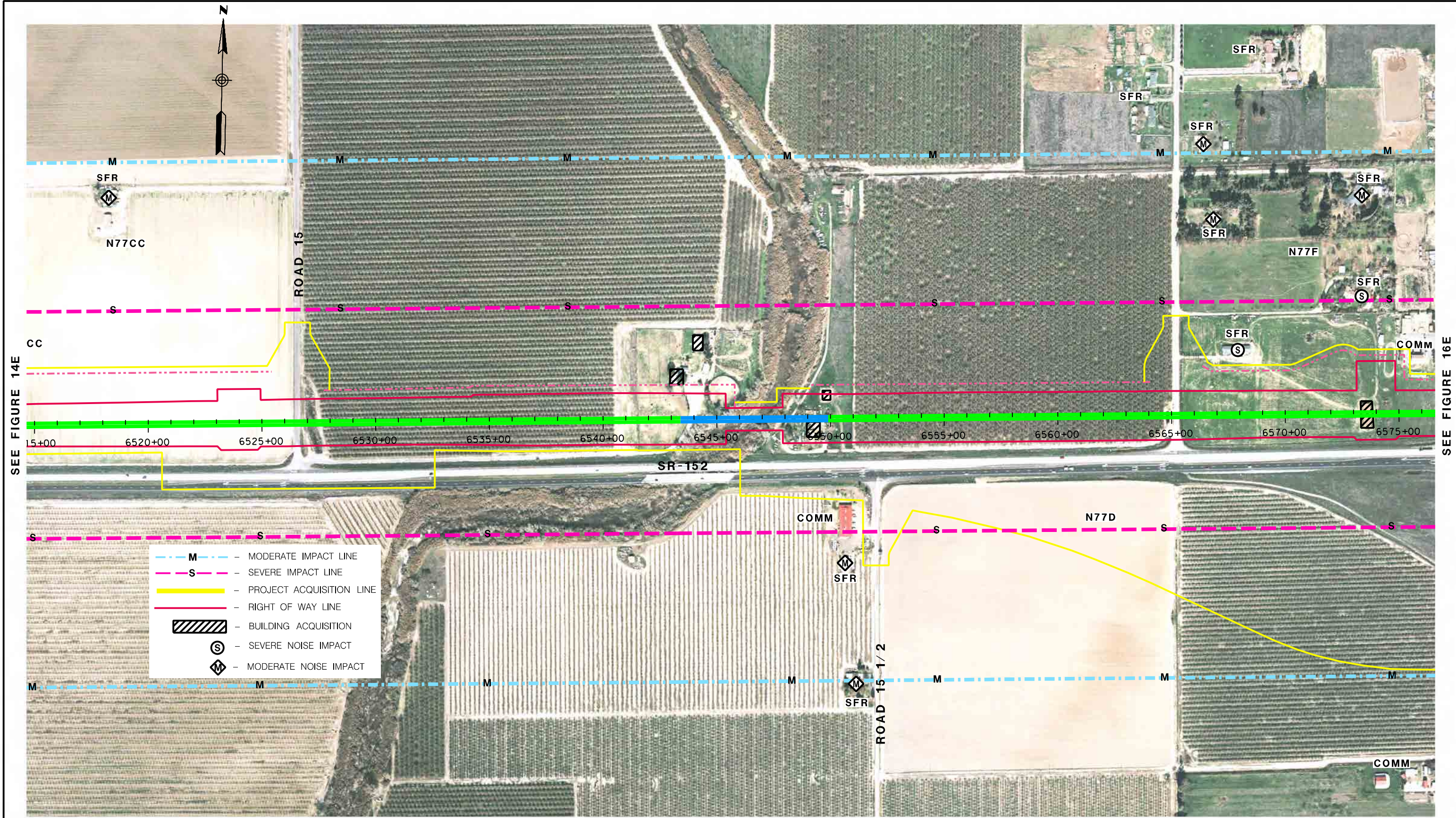


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FIGURE 13E



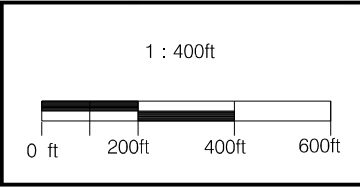
SEE FIGURE 14E

SEE FIGURE 16E

- - - M - - - MODERATE IMPACT LINE
- - - S - - - SEVERE IMPACT LINE
- PROJECT ACQUISITION LINE
- RIGHT OF WAY LINE
- BUILDING ACQUISITION
- S SEVERE NOISE IMPACT
- M MODERATE NOISE IMPACT

LEGEND

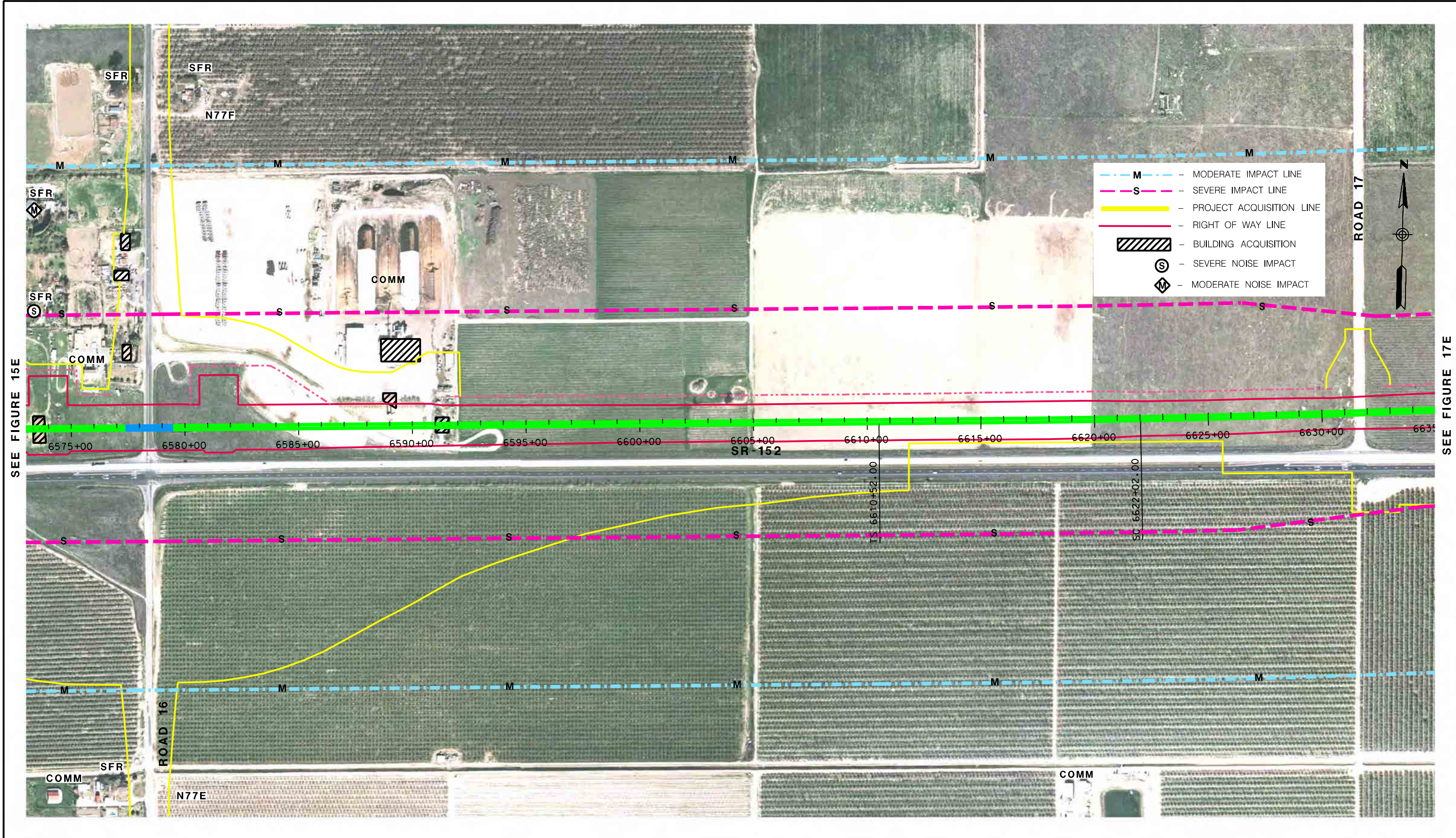
Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	— - TRACK IN TRENCH
Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	— - TRACK AT GRADE
○ - SOUNDWALL		— - TRACK ON AERIAL



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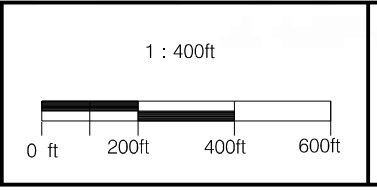
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 CENTRAL VALLEY WYE
 NOISE IMPACTS AND MITIGATION
 SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE**

OCTOBER 17, 2016	FIGURE 15E
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LEGEND

⊕ Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	Red line - TRACK IN TRENCH
⊕ Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	Green line - TRACK AT GRADE
—○— SOUNDWALL		Blue line - TRACK ON AERIAL

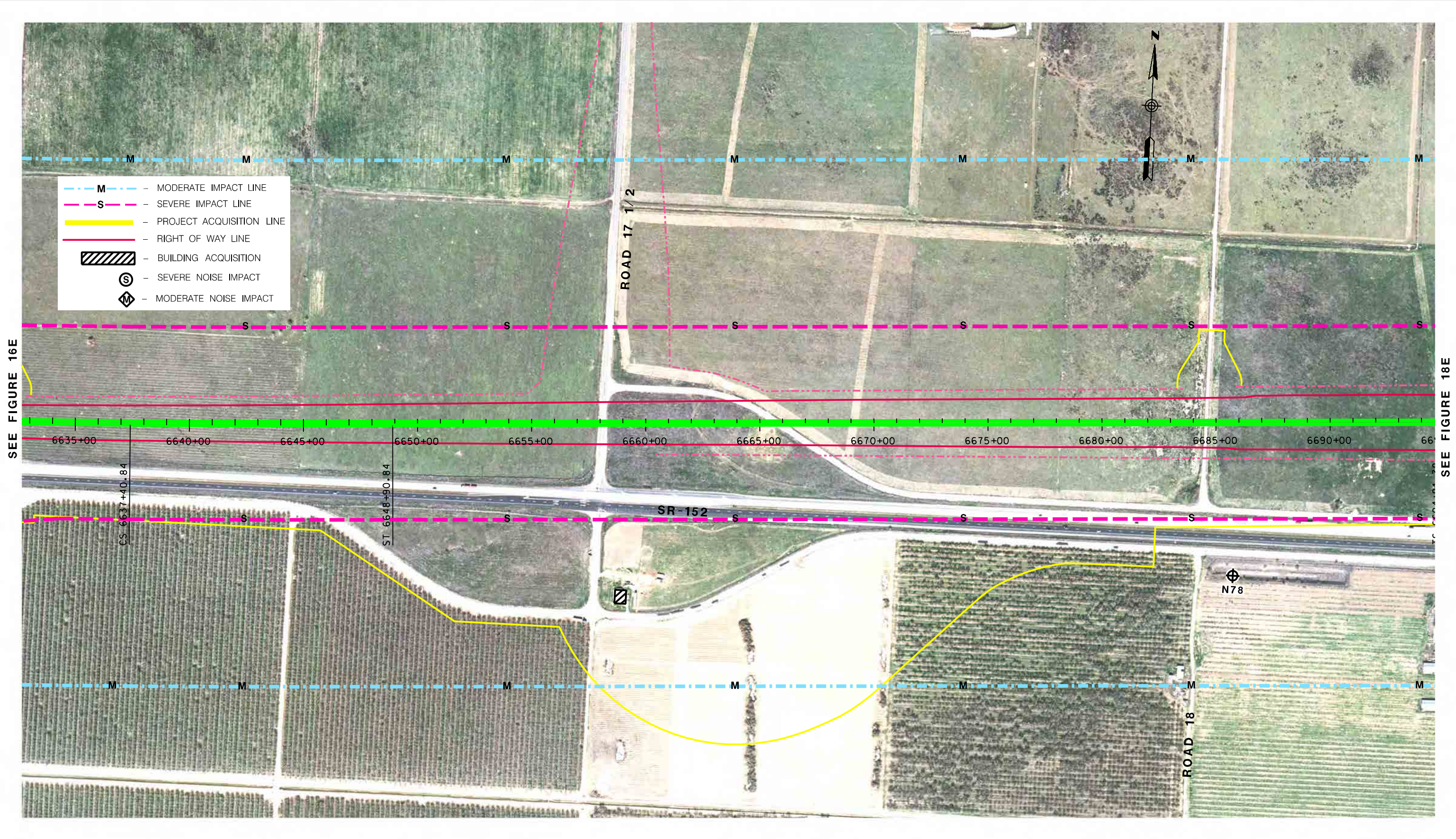


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FIGURE 16E

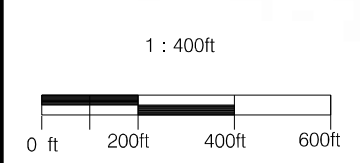


SEE FIGURE 16E

SEE FIGURE 18E

LEGEND

Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	- TRACK IN TRENCH
Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	- TRACK AT GRADE
- SOUNDWALL		- TRACK ON AERIAL



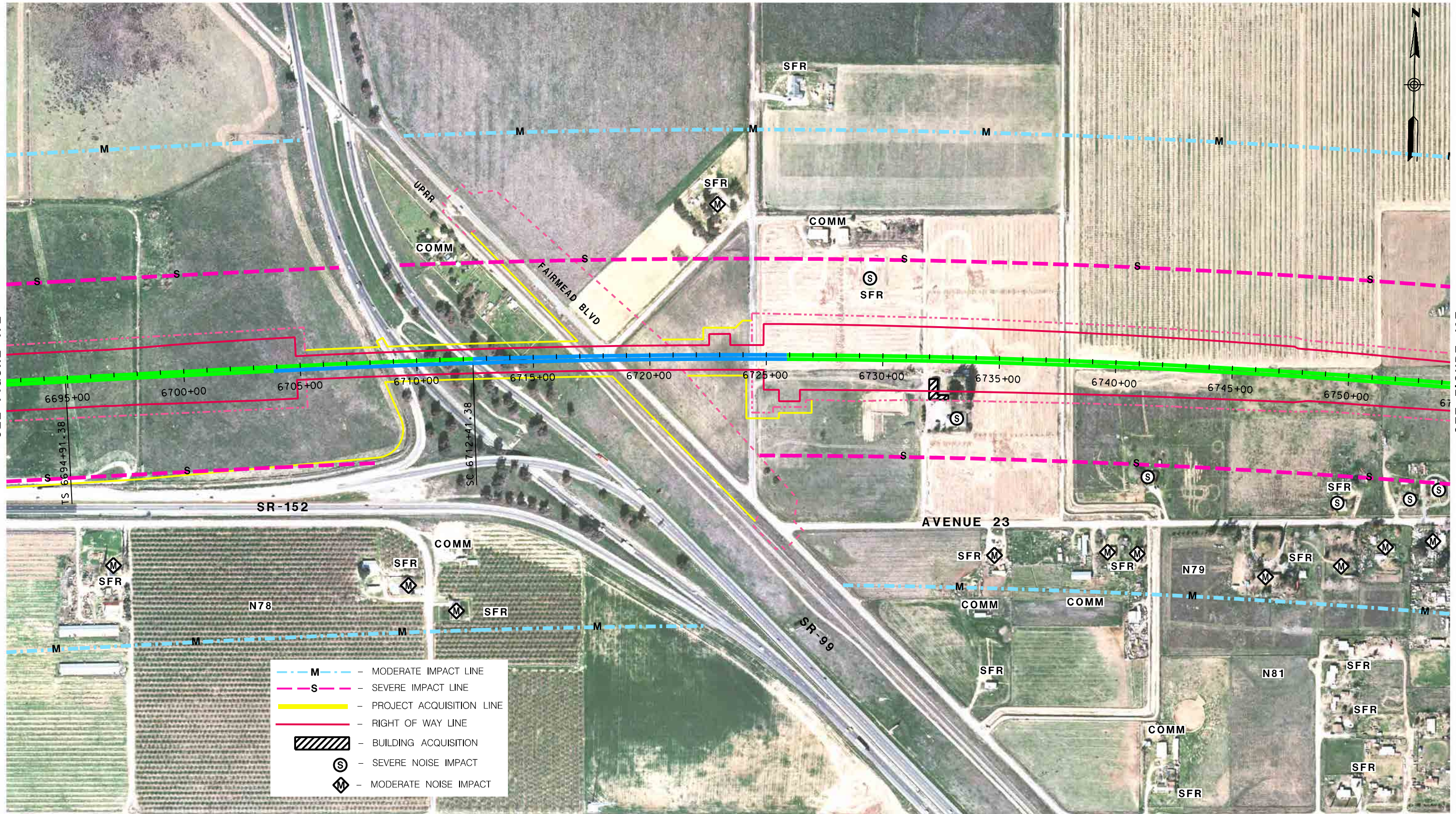
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OCTOBER 17, 2016	FIGURE 17E
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SEE FIGURE 17E

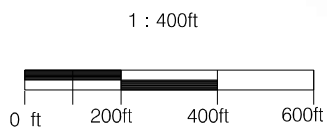
SEE FIGURE 19E



	- MODERATE IMPACT LINE
	- SEVERE IMPACT LINE
	- PROJECT ACQUISITION LINE
	- RIGHT OF WAY LINE
	- BUILDING ACQUISITION
	- SEVERE NOISE IMPACT
	- MODERATE NOISE IMPACT

LEGEND

- | | | | | | |
|--|------------------------------|------------------|-----------------------------|--|-------------------|
| | - NOISE MEASUREMENT SITE | SFR OR S | - SINGLE FAMILY RESIDENTIAL | | - TRACK IN TRENCH |
| | - VIBRATION MEASUREMENT SITE | COMM OR C | - COMMERCIAL | | - TRACK AT GRADE |
| | - SOUNDWALL | | | | - TRACK ON AERIAL |

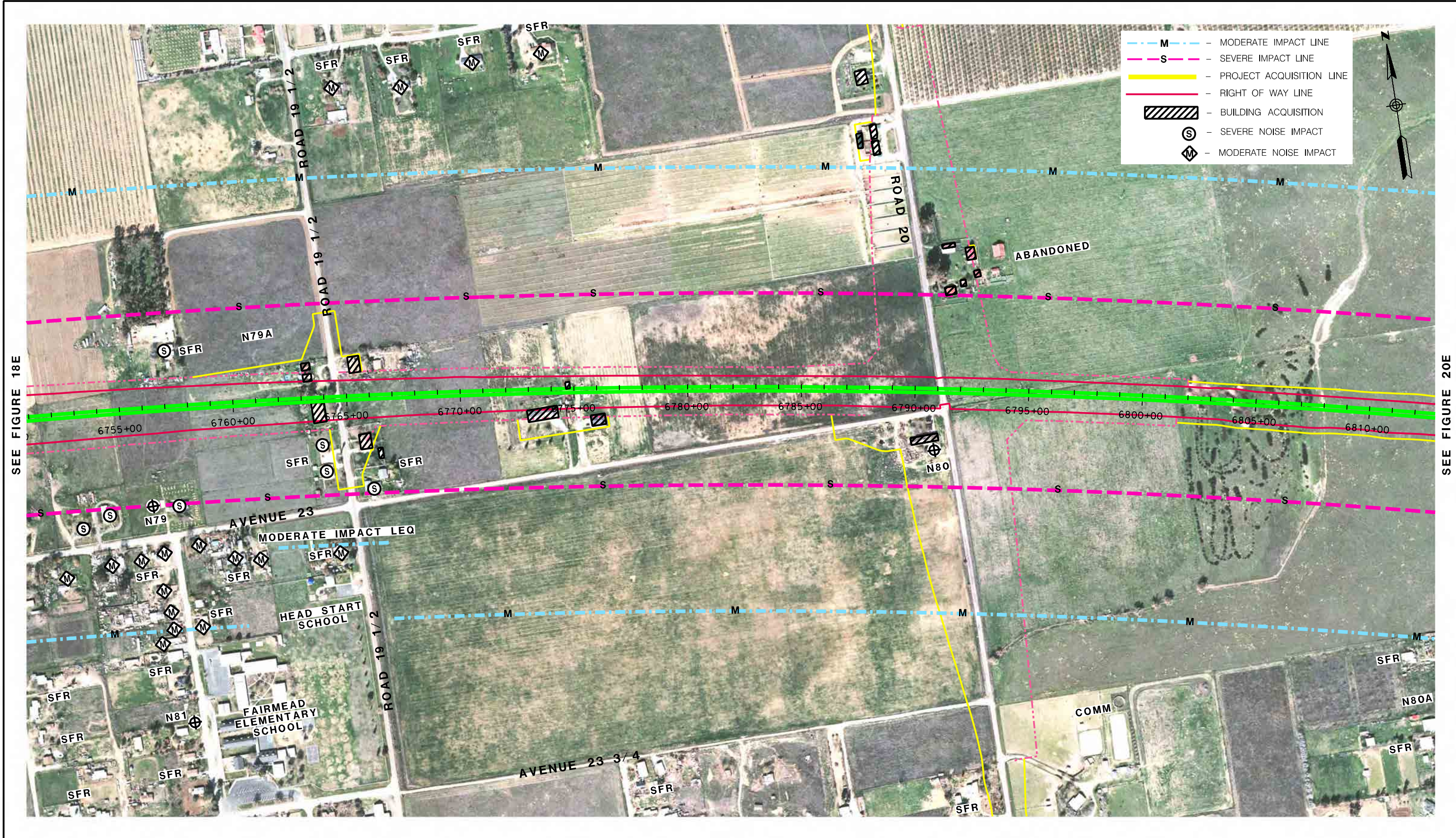


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FIGURE 18E

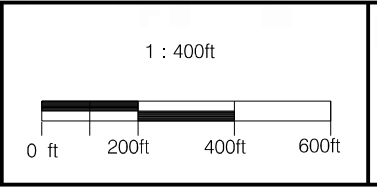


SEE FIGURE 18E

SEE FIGURE 20E

LEGEND

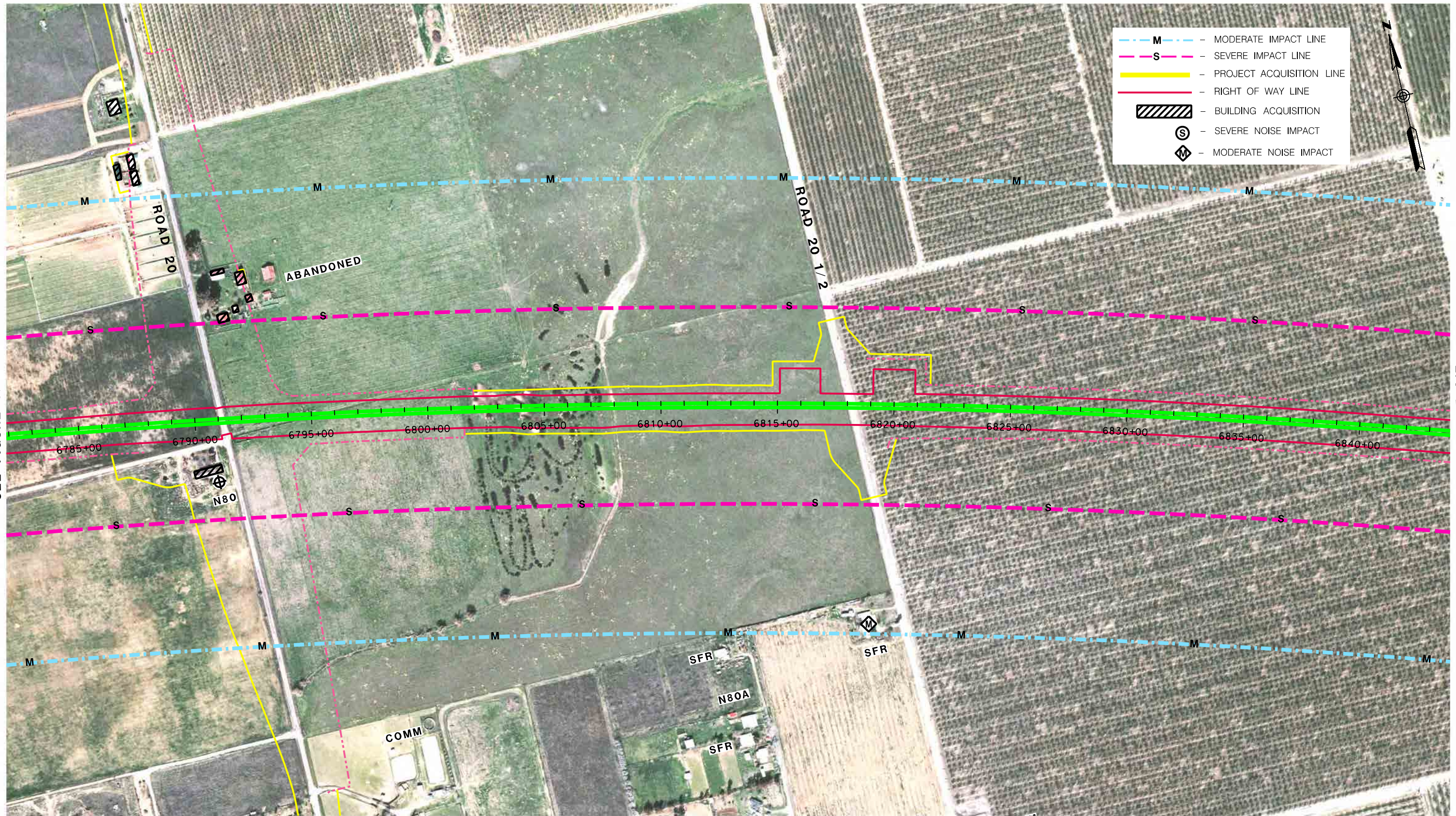
⊕ Nxx - NOISE MEASUREMENT SITE	SFR OR S - SINGLE FAMILY RESIDENTIAL	— TRACK IN TRENCH
⊕ Vxx - VIBRATION MEASUREMENT SITE	COMM OR C - COMMERCIAL	— TRACK AT GRADE
— SOUNDWALL		— TRACK ON AERIAL



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OCTOBER 17, 2016	FIGURE 19E
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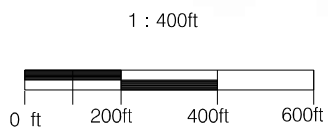


SEE FIGURE 19E

SEE FIGURE 21E

LEGEND

- ⊕ Nxx - NOISE MEASUREMENT SITE
- ⊕ Vxx - VIBRATION MEASUREMENT SITE
- SOUNDWALL
- SFR OR S - SINGLE FAMILY RESIDENTIAL
- COMM OR C - COMMERCIAL
- TRACK IN TRENCH
- TRACK AT GRADE
- TRACK ON AERIAL



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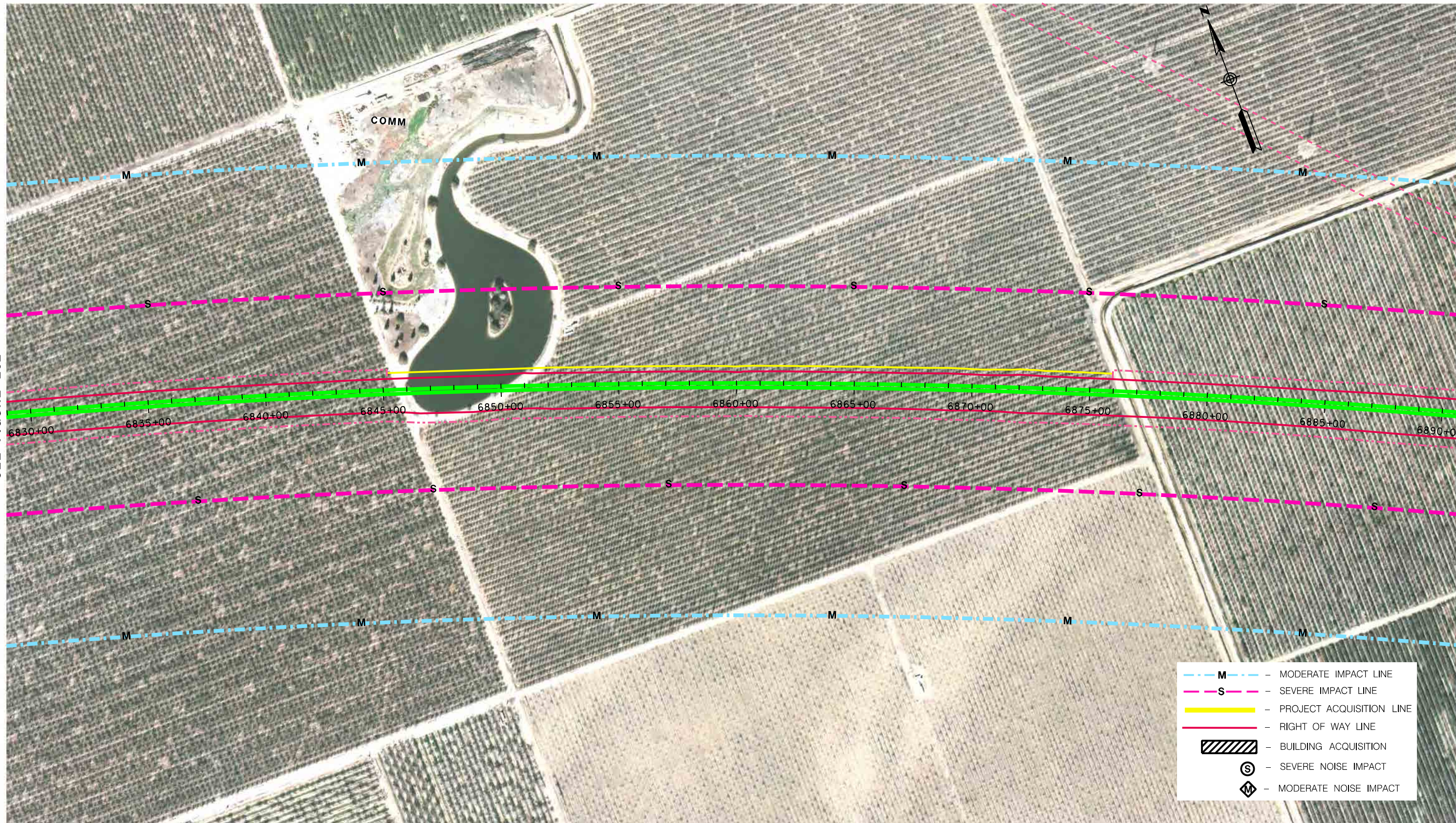
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 NOISE IMPACTS AND MITIGATION
 SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE**

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FIGURE 20E

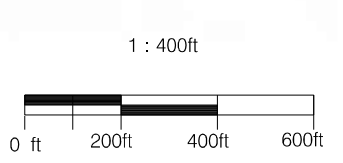
SEE FIGURE 20E

SEE FIGURE 22E



- - - M - MODERATE IMPACT LINE
- - - S - SEVERE IMPACT LINE
- - PROJECT ACQUISITION LINE
- - RIGHT OF WAY LINE
- BUILDING ACQUISITION
- S - SEVERE NOISE IMPACT
- M - MODERATE NOISE IMPACT

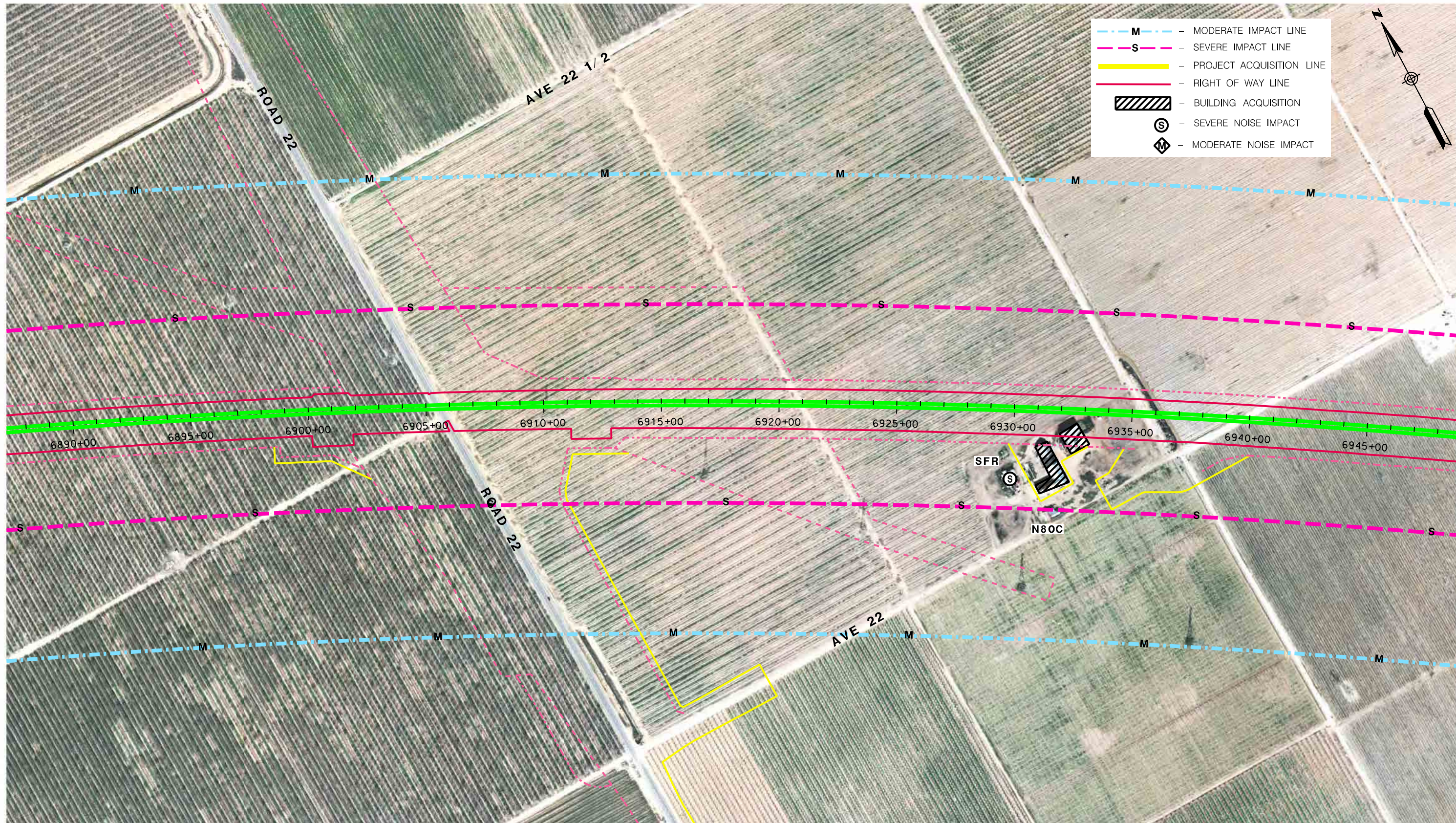
- LEGEND**
- Nxx - NOISE MEASUREMENT SITE
 - SFR OR S** - SINGLE FAMILY RESIDENTIAL
 - - TRACK IN TRENCH
 - Vxx - VIBRATION MEASUREMENT SITE
 - COMM OR C** - COMMERCIAL
 - - TRACK AT GRADE
 - - - - TRACK ON AERIAL
 - - SOUNDWALL



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FIGURE 21E

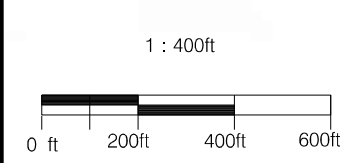


SEE FIGURE 21E

SEE FIGURE 23E

LEGEND

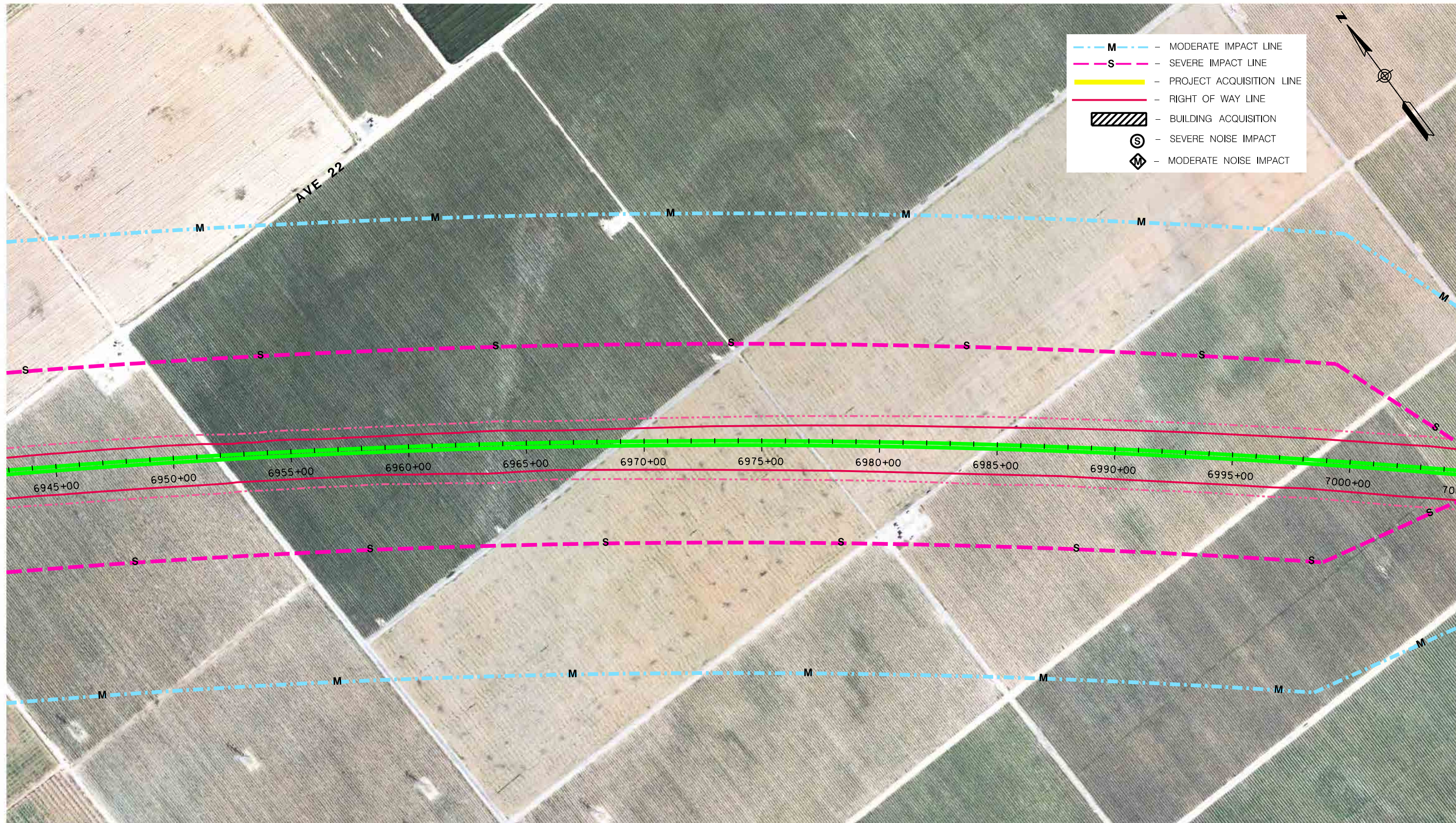
- ⊕Nxx - NOISE MEASUREMENT SITE
- ⊕Vxx - VIBRATION MEASUREMENT SITE
- - SOUNDWALL
- SFR OR S - SINGLE FAMILY RESIDENTIAL
- COMM OR C - COMMERCIAL
- (Red) — - TRACK IN TRENCH
- (Green) — - TRACK AT GRADE
- (Blue) — - TRACK ON AERIAL



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OCTOBER 17, 2016 FIGURE 22E



SEE FIGURE 22E

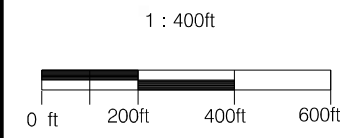
SEE FIGURE 24E

LEGEND

- Nxx - NOISE MEASUREMENT SITE
- Vxx - VIBRATION MEASUREMENT SITE
- SOUNDWALL

SFR OR S - SINGLE FAMILY RESIDENTIAL
 COMM OR C - COMMERCIAL

TRACK IN TRENCH
 TRACK AT GRADE
 TRACK ON AERIAL

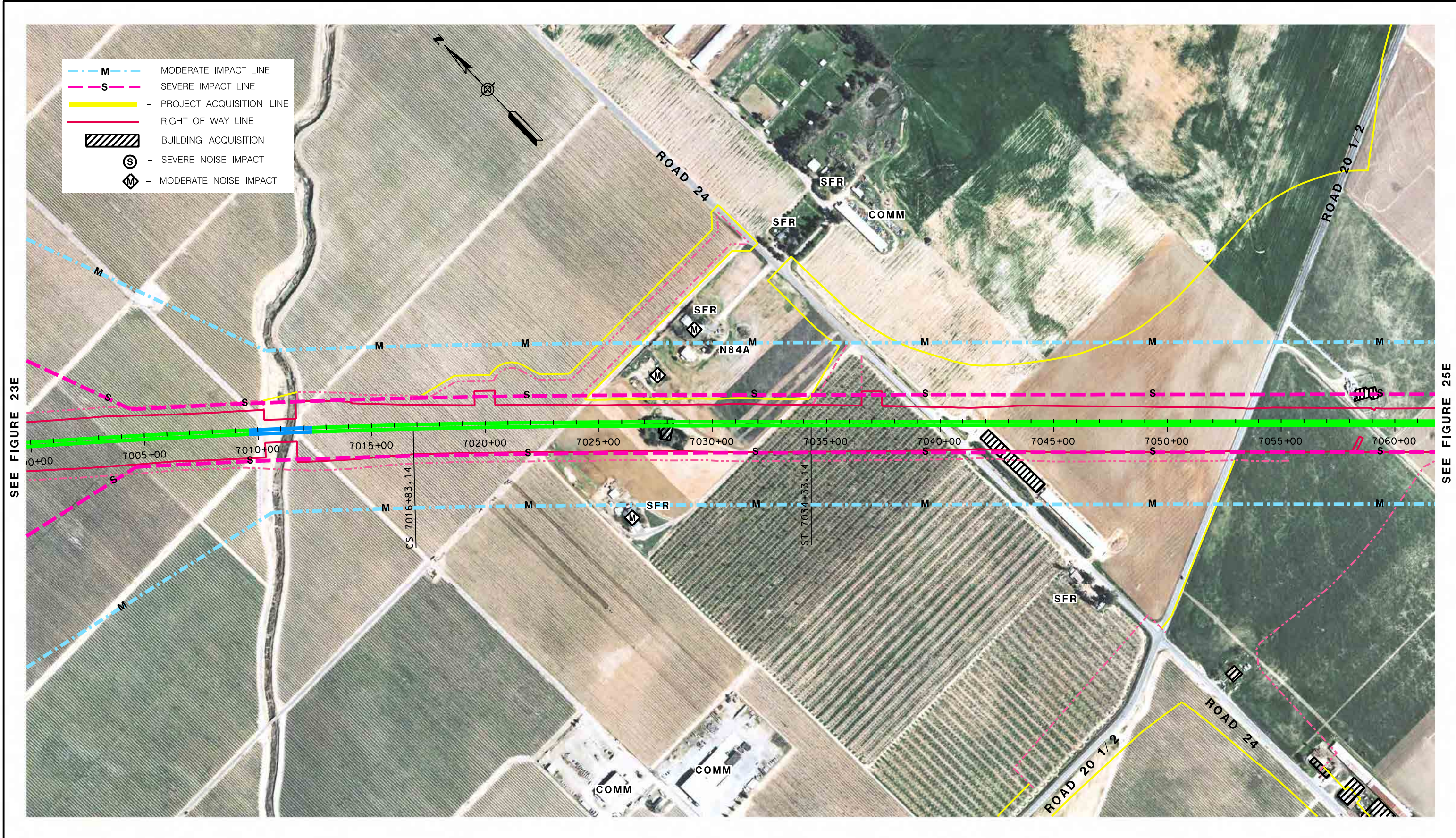


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FIGURE 23E

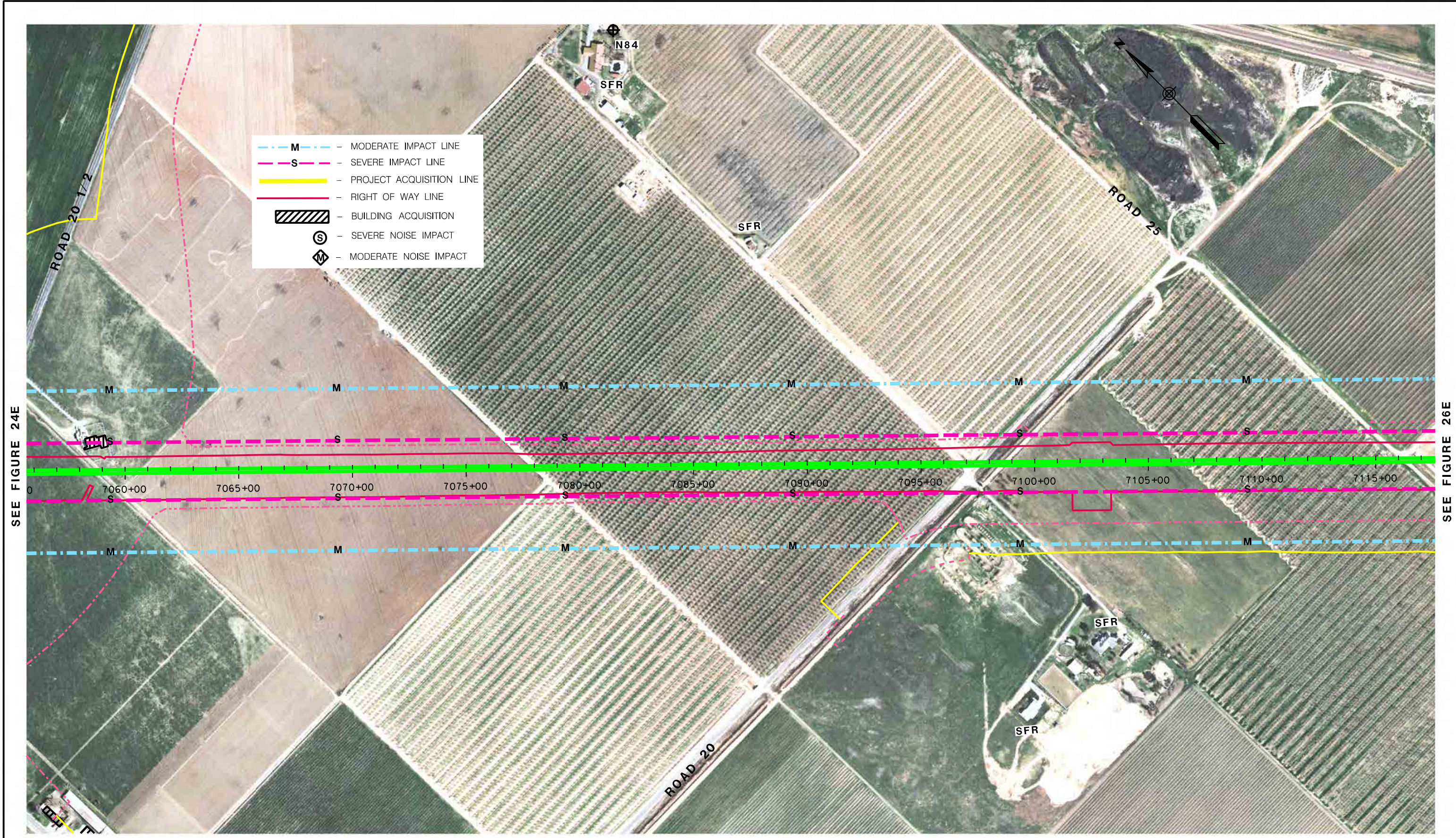


- - - M - MODERATE IMPACT LINE
- - - S - SEVERE IMPACT LINE
- - PROJECT ACQUISITION LINE
- - RIGHT OF WAY LINE
- BUILDING ACQUISITION
- SEVERE NOISE IMPACT
- MODERATE NOISE IMPACT

SEE FIGURE 23E

SEE FIGURE 25E

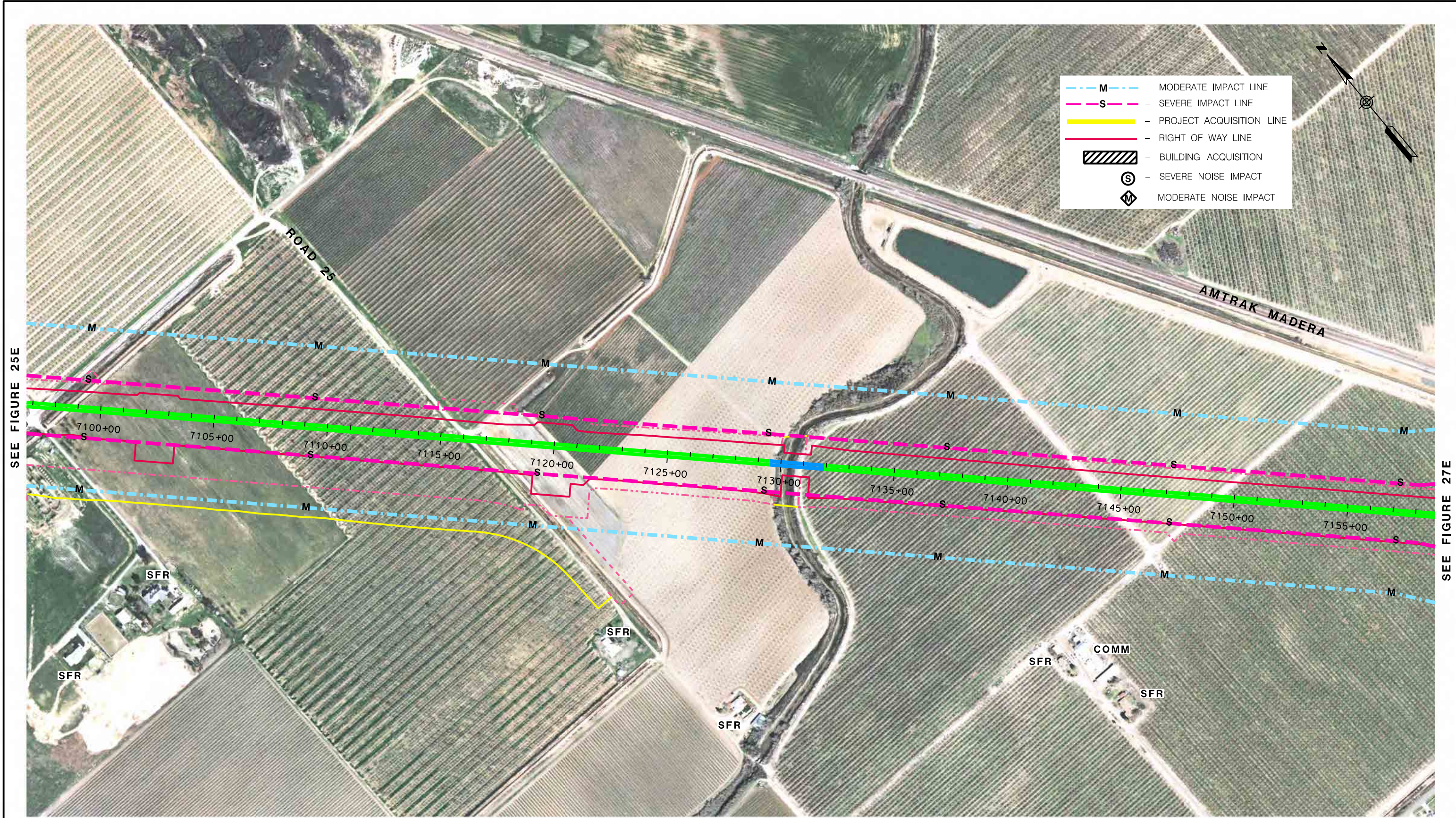
<p>LEGEND</p> <ul style="list-style-type: none"> - NOISE MEASUREMENT SITE - VIBRATION MEASUREMENT SITE - SOUNDWALL 	<ul style="list-style-type: none"> SFR OR S - SINGLE FAMILY RESIDENTIAL COMM OR C - COMMERCIAL 	<ul style="list-style-type: none"> — - TRACK IN TRENCH — - TRACK AT GRADE — - TRACK ON AERIAL 	<p>1 : 400ft</p>	<p>PARSONS</p> <p>100 WEST WALNUT ST. PASADENA, CA 91124 (626) 440-6100</p>		<p>MERCED TO FRESNO SECTION: CENTRAL VALLEY WYE NOISE IMPACTS AND MITIGATION SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE</p>
					OCTOBER 17, 2016	FIGURE 24E



SEE FIGURE 24E

SEE FIGURE 26E

<p>LEGEND</p> <ul style="list-style-type: none"> ⊕ Nxx - NOISE MEASUREMENT SITE ⊕ Vxx - VIBRATION MEASUREMENT SITE —○—○— SOUNDWALL 	<ul style="list-style-type: none"> SFR OR S - SINGLE FAMILY RESIDENTIAL COMM OR C - COMMERCIAL 	<ul style="list-style-type: none"> — TRACK IN TRENCH — TRACK AT GRADE — TRACK ON AERIAL 	<p>1 : 400ft</p>	<p>PARSONS</p> <p>100 WEST WALNUT ST. PASADENA, CA 91124 (626) 440-6100</p>	<p>MERCED TO FRESNO SECTION: CENTRAL VALLEY WYE NOISE IMPACTS AND MITIGATION SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE</p> <p>OCTOBER 17, 2016</p> <p>FIGURE 25E</p>
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	M	- MODERATE IMPACT LINE
	S	- SEVERE IMPACT LINE
		- PROJECT ACQUISITION LINE
		- RIGHT OF WAY LINE
		- BUILDING ACQUISITION
	S	- SEVERE NOISE IMPACT
	M	- MODERATE NOISE IMPACT

SEE FIGURE 25E

SEE FIGURE 27E

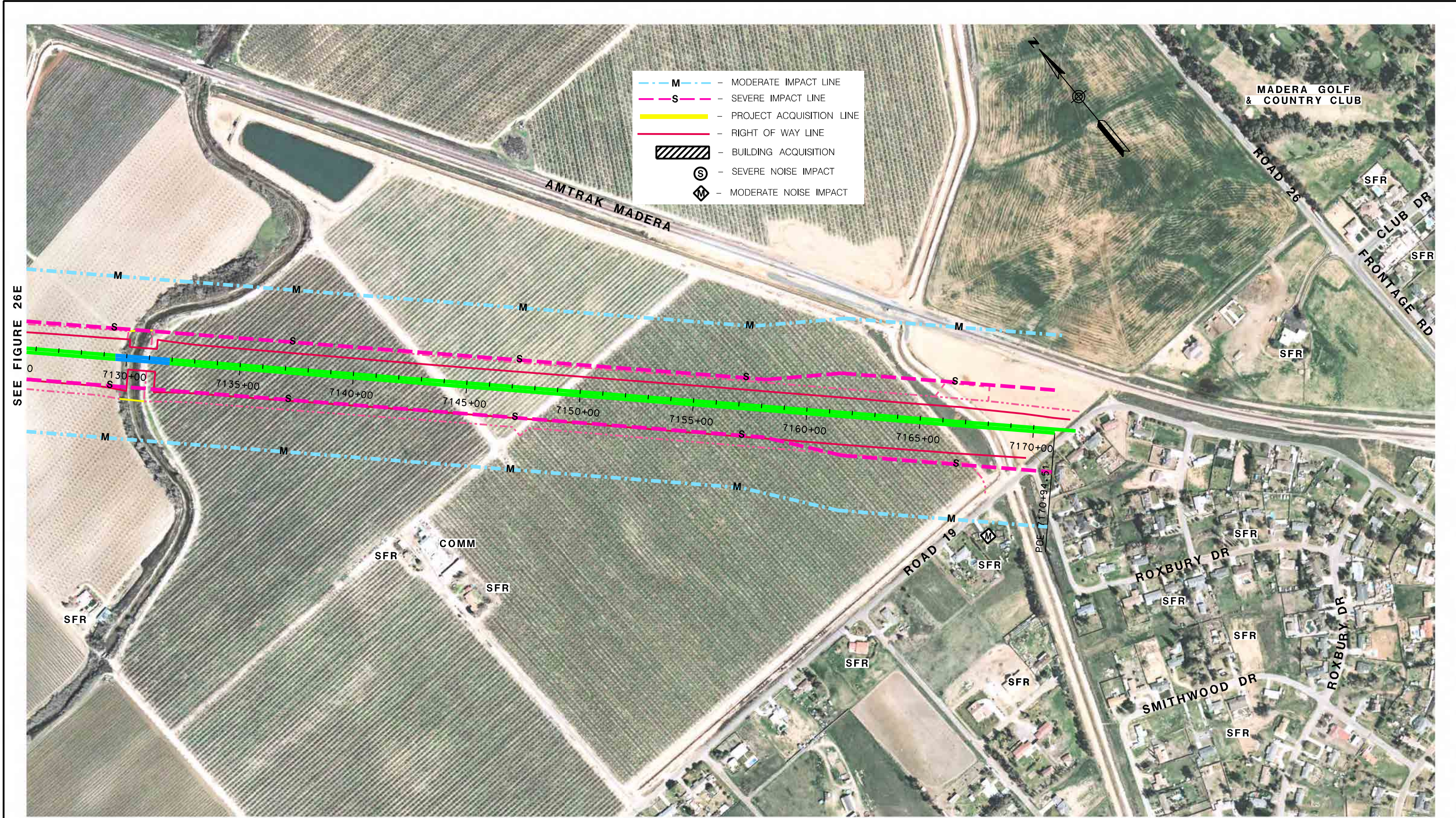
LEGEND		
	Nxx	- NOISE MEASUREMENT SITE
	Vxx	- VIBRATION MEASUREMENT SITE
		- SOUNDWALL
SFR OR S		- SINGLE FAMILY RESIDENTIAL
COMM OR C		- COMMERCIAL
		- TRACK IN TRENCH
		- TRACK AT GRADE
		- TRACK ON AERIAL

1 : 400ft

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OCTOBER 17, 2016	FIGURE 26E
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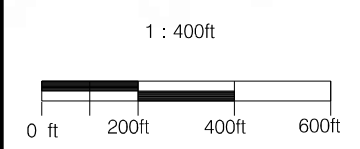
SEE FIGURE 26E

- M --- MODERATE IMPACT LINE
- S --- SEVERE IMPACT LINE
- --- PROJECT ACQUISITION LINE
- --- RIGHT OF WAY LINE
- BUILDING ACQUISITION
- SEVERE NOISE IMPACT
- MODERATE NOISE IMPACT

- LEGEND**
- NOISE MEASUREMENT SITE
 - VIBRATION MEASUREMENT SITE
 - SOUNDWALL

SFR OR S - SINGLE FAMILY RESIDENTIAL
 COMM OR C - COMMERCIAL

- - TRACK IN TRENCH
- - TRACK AT GRADE
- - TRACK ON AERIAL



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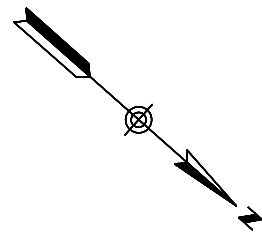
MERCED TO FRESNO SECTION:
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FIGURE 27E

SEE FIGURE 32E

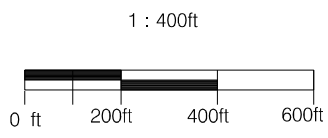
- M --- MODERATE IMPACT LINE
- S --- SEVERE IMPACT LINE
- --- PROJECT ACQUISITION LINE
- --- RIGHT OF WAY LINE
- BUILDING ACQUISITION
- S --- SEVERE NOISE IMPACT
- M --- MODERATE NOISE IMPACT



- LEGEND**
- Nxx - NOISE MEASUREMENT SITE
 - Vxx - VIBRATION MEASUREMENT SITE
 - SOUNDWALL

- SFR OR S** - SINGLE FAMILY RESIDENTIAL
- COMM OR C** - COMMERCIAL

- - TRACK IN TRENCH
- - TRACK AT GRADE
- - TRACK ON AERIAL



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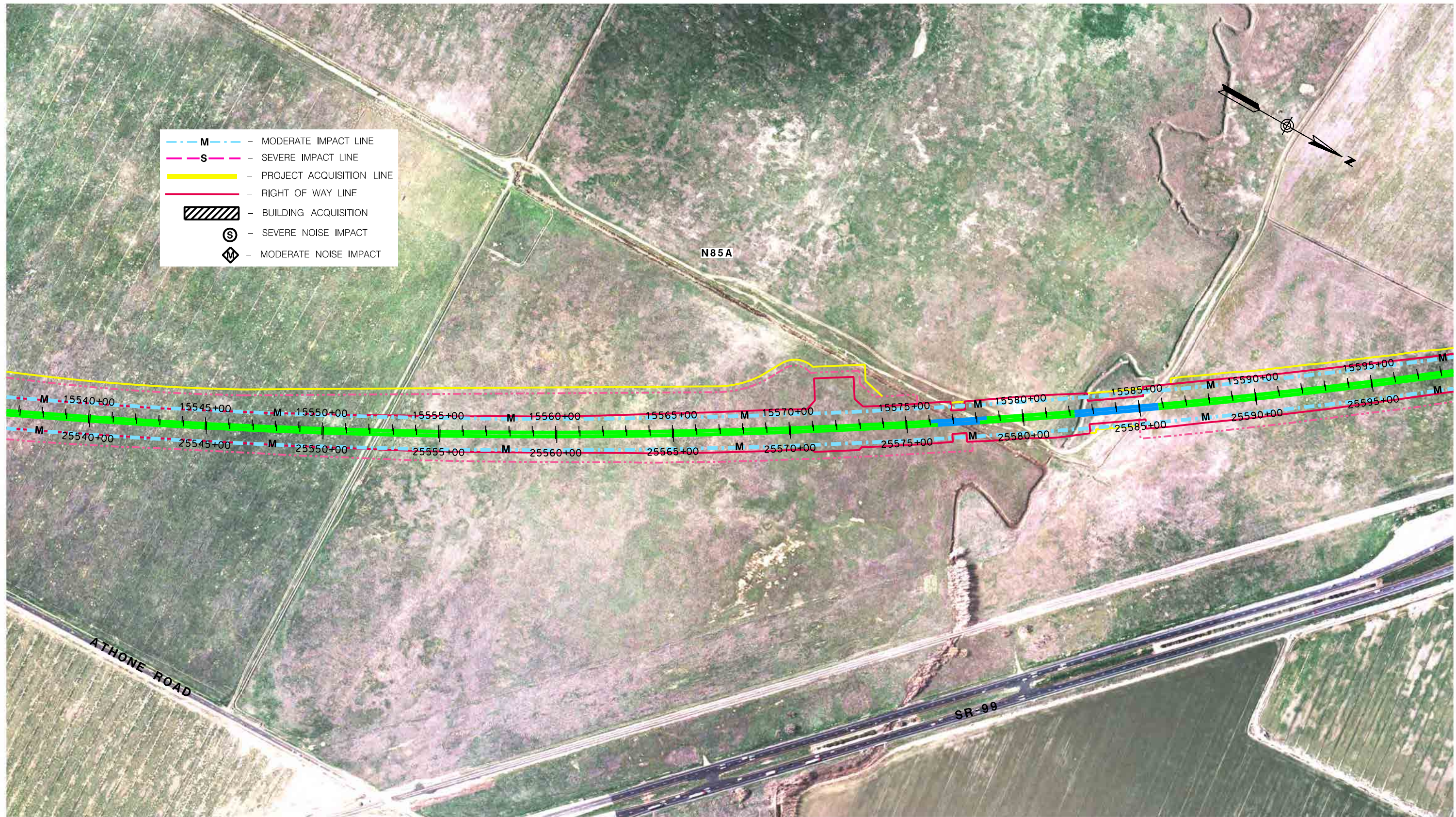
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 NOISE IMPACTS AND MITIGATION
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FIGURE 31E

SEE FIGURE 33E

SEE FIGURE 31E



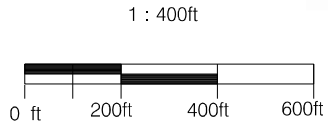
- M --- MODERATE IMPACT LINE
- S --- SEVERE IMPACT LINE
- --- PROJECT ACQUISITION LINE
- --- RIGHT OF WAY LINE
- BUILDING ACQUISITION
- S --- SEVERE NOISE IMPACT
- M --- MODERATE NOISE IMPACT

LEGEND

- Nxx - NOISE MEASUREMENT SITE
- Vxx - VIBRATION MEASUREMENT SITE
- SOUNDWALL

- SFR OR S** - SINGLE FAMILY RESIDENTIAL
- COMM OR C** - COMMERCIAL

- - TRACK IN TRENCH
- - TRACK AT GRADE
- - TRACK ON AERIAL

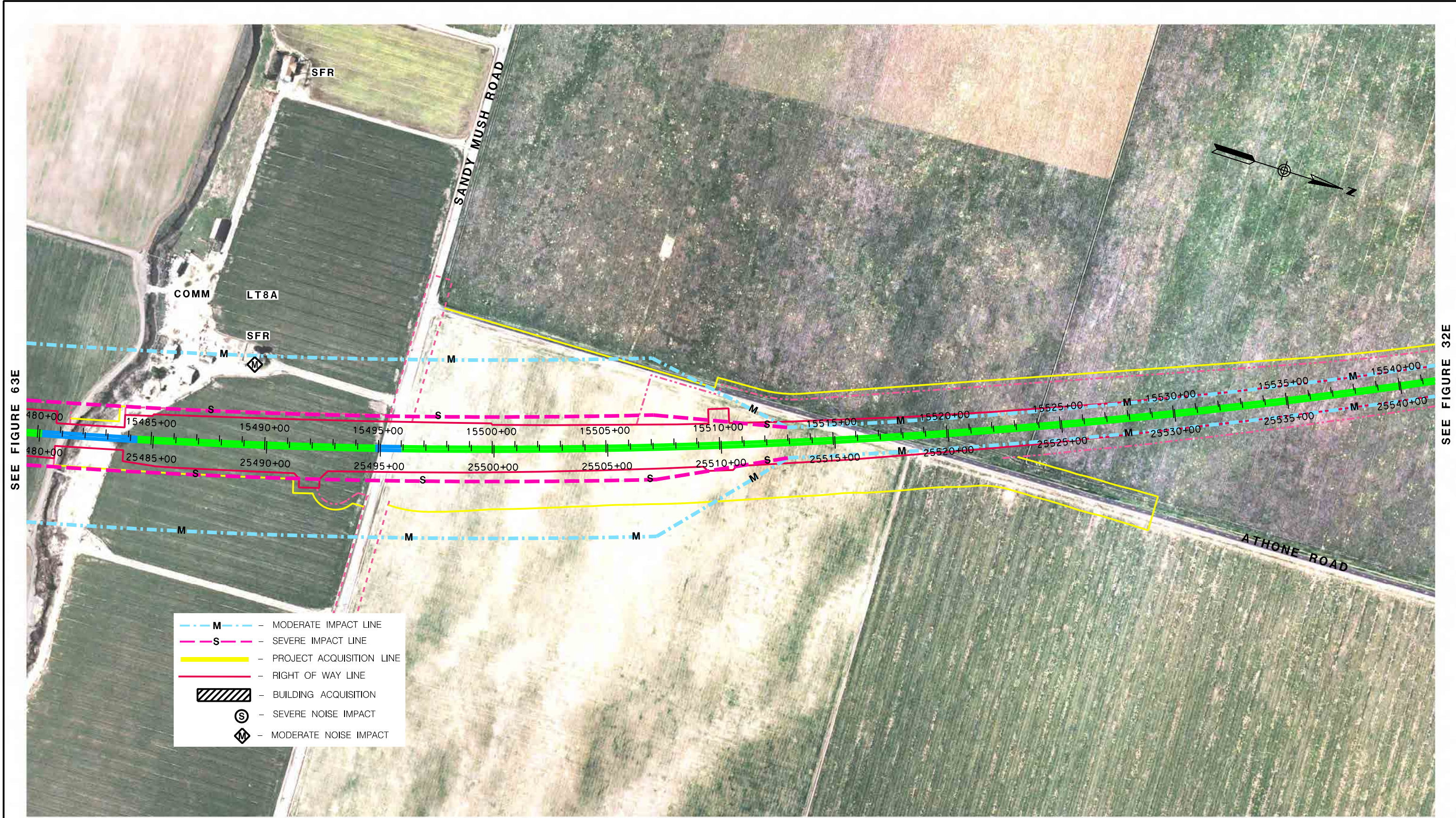


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FIGURE 32E

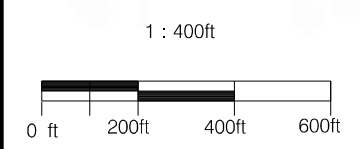


LEGEND

- Nxx - NOISE MEASUREMENT SITE
- Vxx - VIBRATION MEASUREMENT SITE
- SOUNDWALL

SFR OR S - SINGLE FAMILY RESIDENTIAL
 COMM OR C - COMMERCIAL

TRACK IN TRENCH
 TRACK AT GRADE
 TRACK ON AERIAL

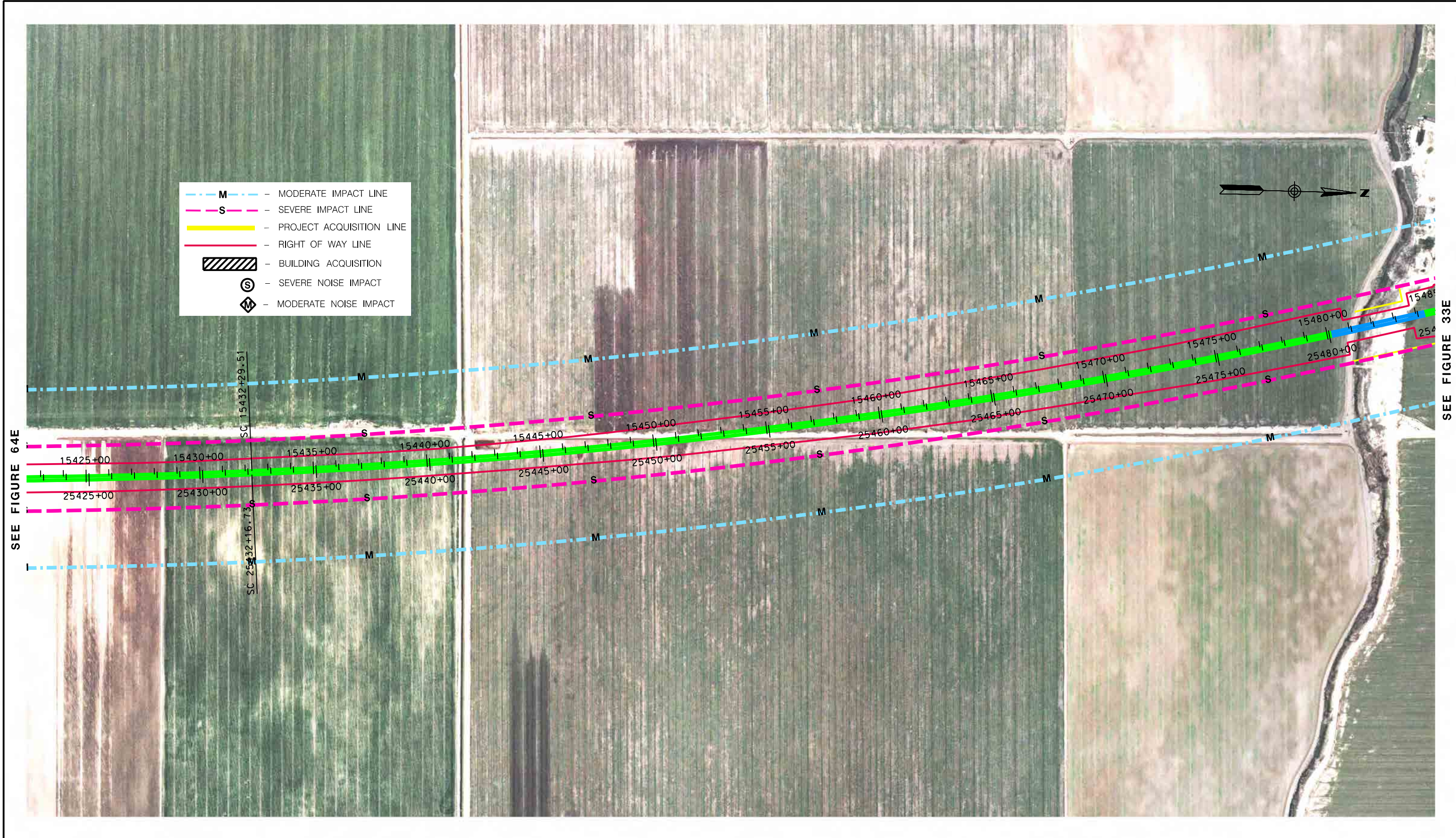


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FIGURE 33E



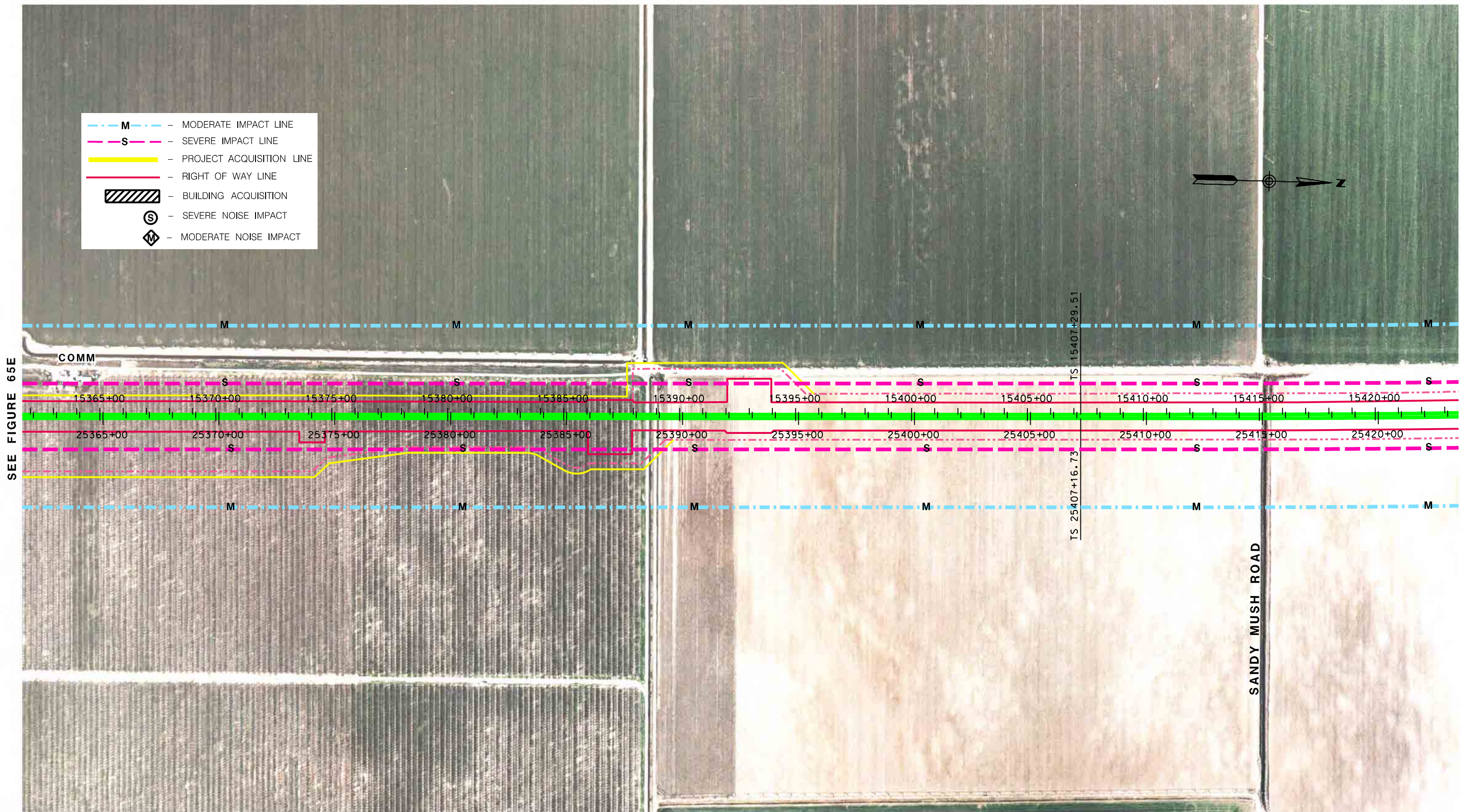
- - - M - MODERATE IMPACT LINE
- - - S - SEVERE IMPACT LINE
- PROJECT ACQUISITION LINE
- RIGHT OF WAY LINE
- BUILDING ACQUISITION
- S - SEVERE NOISE IMPACT
- M - MODERATE NOISE IMPACT

SEE FIGURE 64E

SEE FIGURE 33E

<p>LEGEND</p> <ul style="list-style-type: none"> Nxx - NOISE MEASUREMENT SITE Vxx - VIBRATION MEASUREMENT SITE - SOUNDWALL 	<ul style="list-style-type: none"> SFR OR S - SINGLE FAMILY RESIDENTIAL COMM OR C - COMMERCIAL 	<ul style="list-style-type: none"> - TRACK IN TRENCH - TRACK AT GRADE - TRACK ON AERIAL 	<p>1 : 400ft</p>	<p>PARSONS</p> <p>100 WEST WALNUT ST. PASADENA, CA 91124 (626) 440-6100</p>	<p>MERCED TO FRESNO SECTION: CENTRAL VALLEY WYE NOISE IMPACTS AND MITIGATION SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE</p>
					<p>OCTOBER 17, 2016</p>
					<p>FIGURE 63E</p>

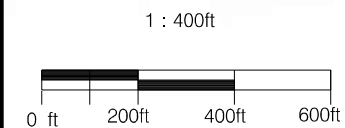
- - - M - - - - MODERATE IMPACT LINE
- - - S - - - - SEVERE IMPACT LINE
- - - - PROJECT ACQUISITION LINE
- - - - RIGHT OF WAY LINE
- BUILDING ACQUISITION
- S - SEVERE NOISE IMPACT
- M - MODERATE NOISE IMPACT



- LEGEND**
- Nxx - NOISE MEASUREMENT SITE
 - Vxx - VIBRATION MEASUREMENT SITE
 - SOUNDWALL

- SFR OR S** - SINGLE FAMILY RESIDENTIAL
- COMM OR C** - COMMERCIAL

- - - - TRACK IN TRENCH
- - - - TRACK AT GRADE
- - - - TRACK ON AERIAL

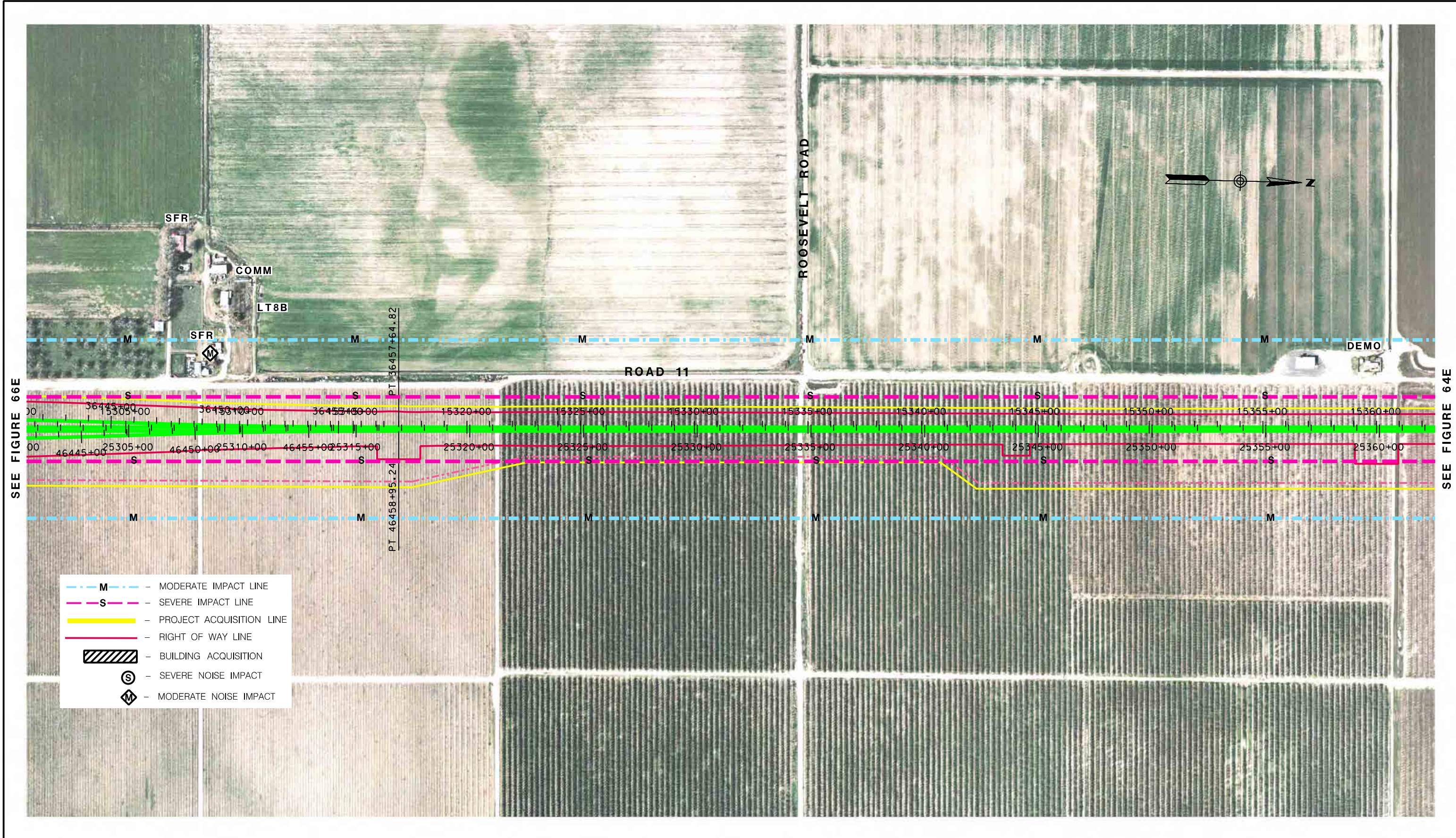


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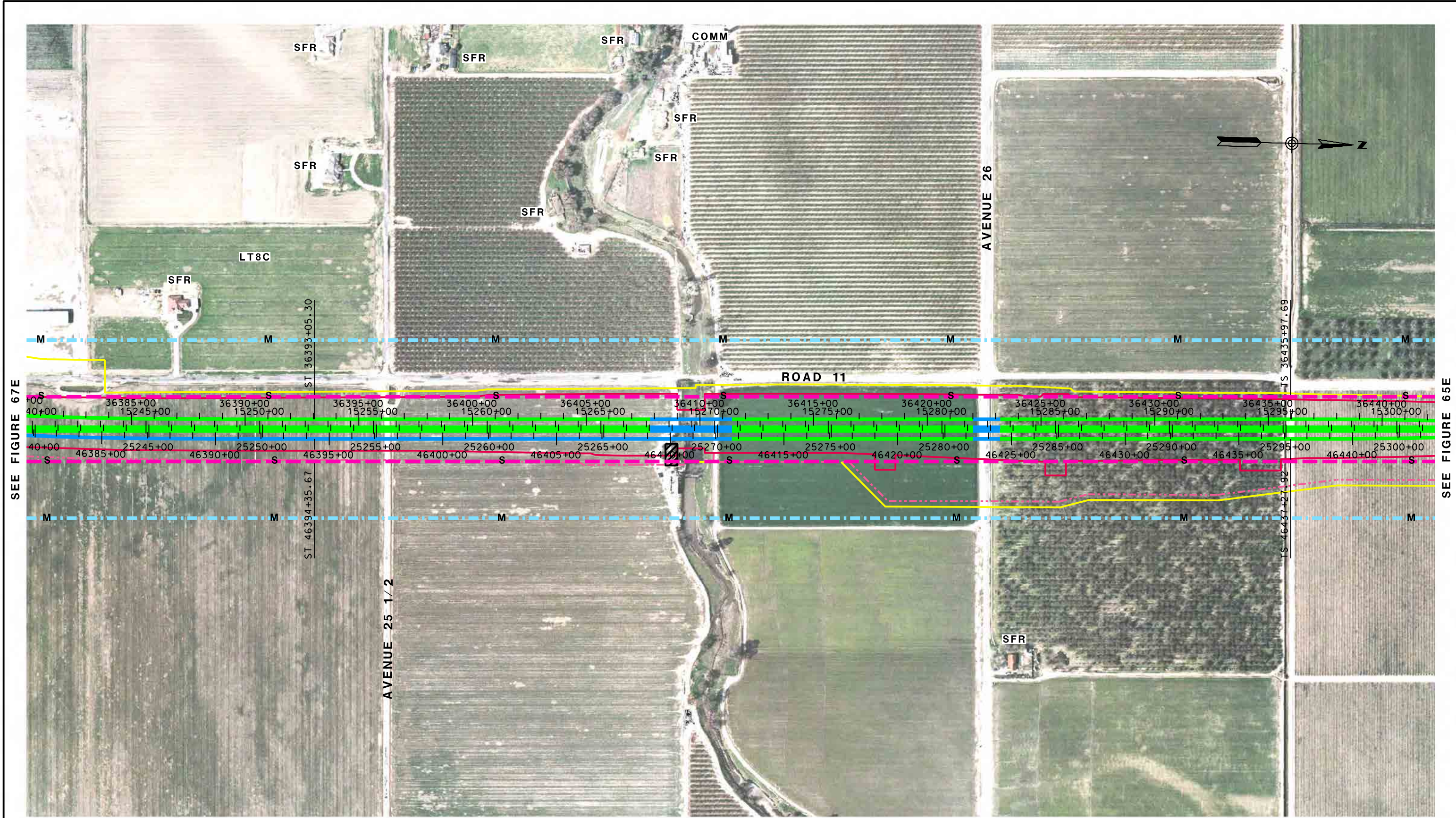
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FIGURE 64E



- - - M - - - MODERATE IMPACT LINE
 - - - S - - - SEVERE IMPACT LINE
 - - - PROJECT ACQUISITION LINE
 - - - RIGHT OF WAY LINE
 ▨ - BUILDING ACQUISITION
 ⊕ S - SEVERE NOISE IMPACT
 ⊕ M - MODERATE NOISE IMPACT

LEGEND ⊕ Nxx - NOISE MEASUREMENT SITE ⊕ Vxx - VIBRATION MEASUREMENT SITE ○ - SOUNDWALL	SFR OR S - SINGLE FAMILY RESIDENTIAL COMM OR C - COMMERCIAL	- TRACK IN TRENCH - TRACK AT GRADE - TRACK ON AERIAL	1 : 400ft 	PARSONS 100 WEST WALNUT ST. PASADENA, CA 91124 (626) 440-6100	MERCED TO FRESNO SECTION: CENTRAL VALLEY WYE NOISE IMPACTS AND MITIGATION SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE OCTOBER 17, 2016 FIGURE 65E
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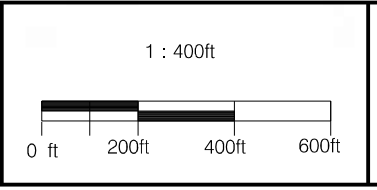


SEE FIGURE 67E

SEE FIGURE 65E

LEGEND

- Nxx - NOISE MEASUREMENT SITE
- Vxx - VIBRATION MEASUREMENT SITE
- SOUNDWALL
- SFR OR S - SINGLE FAMILY RESIDENTIAL
- COMM OR C - COMMERCIAL
- TRACK IN TRENCH
- TRACK AT GRADE
- TRACK ON AERIAL



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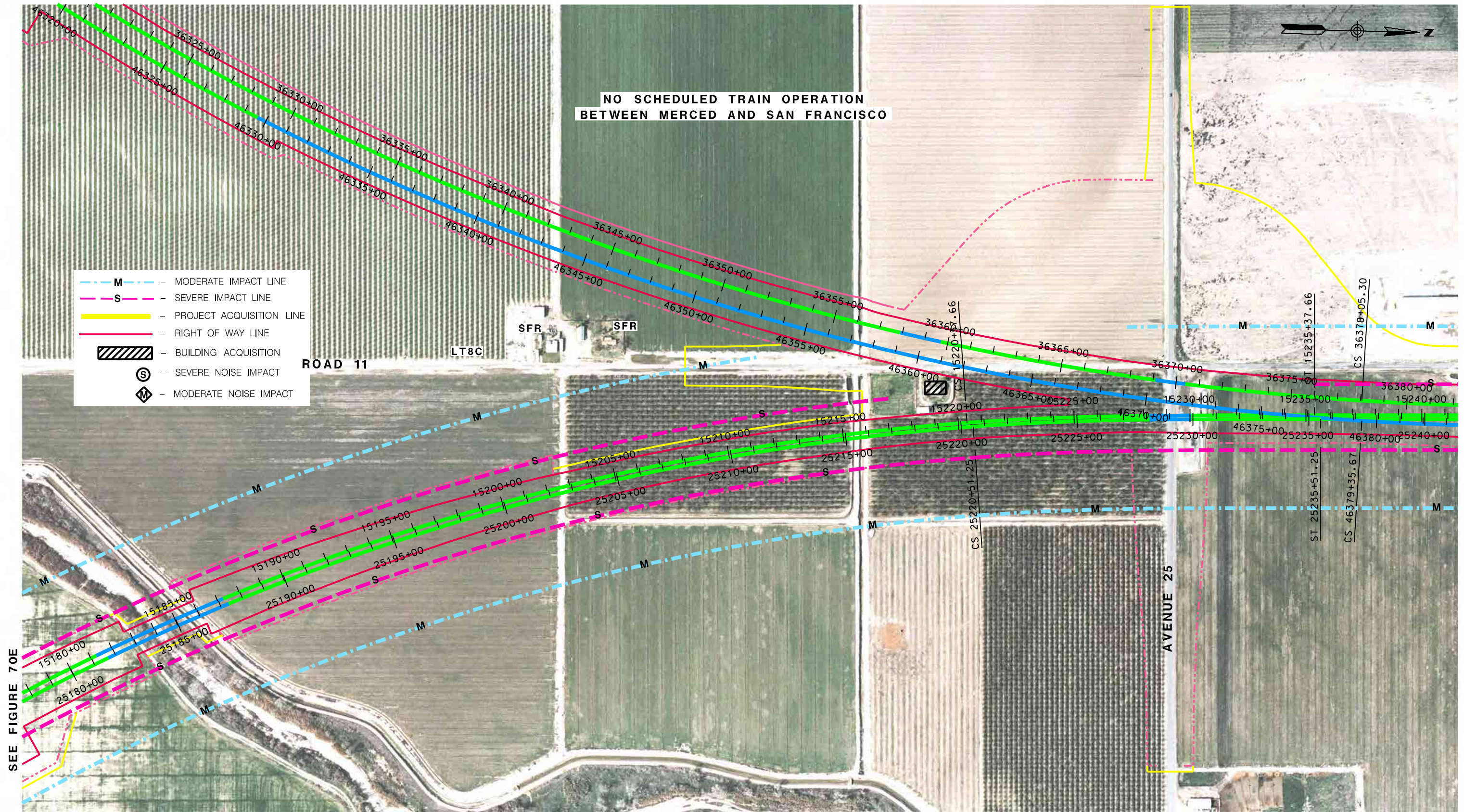
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FIGURE 66E

SEE FIGURE 69E

NO SCHEDULED TRAIN OPERATION
BETWEEN MERCED AND SAN FRANCISCO

- M --- MODERATE IMPACT LINE
- S --- SEVERE IMPACT LINE
- --- PROJECT ACQUISITION LINE
- --- RIGHT OF WAY LINE
- BUILDING ACQUISITION
- SEVERE NOISE IMPACT
- MODERATE NOISE IMPACT

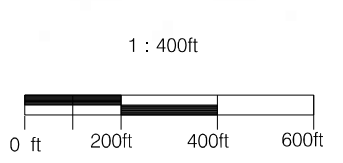


SEE FIGURE 70E

SEE FIGURE 66E

LEGEND

- Nxx --- NOISE MEASUREMENT SITE
- Vxx --- VIBRATION MEASUREMENT SITE
- SOUNDWALL
- SFR OR S --- SINGLE FAMILY RESIDENTIAL
- COMM OR C --- COMMERCIAL
- --- TRACK IN TRENCH
- --- TRACK AT GRADE
- --- TRACK ON AERIAL



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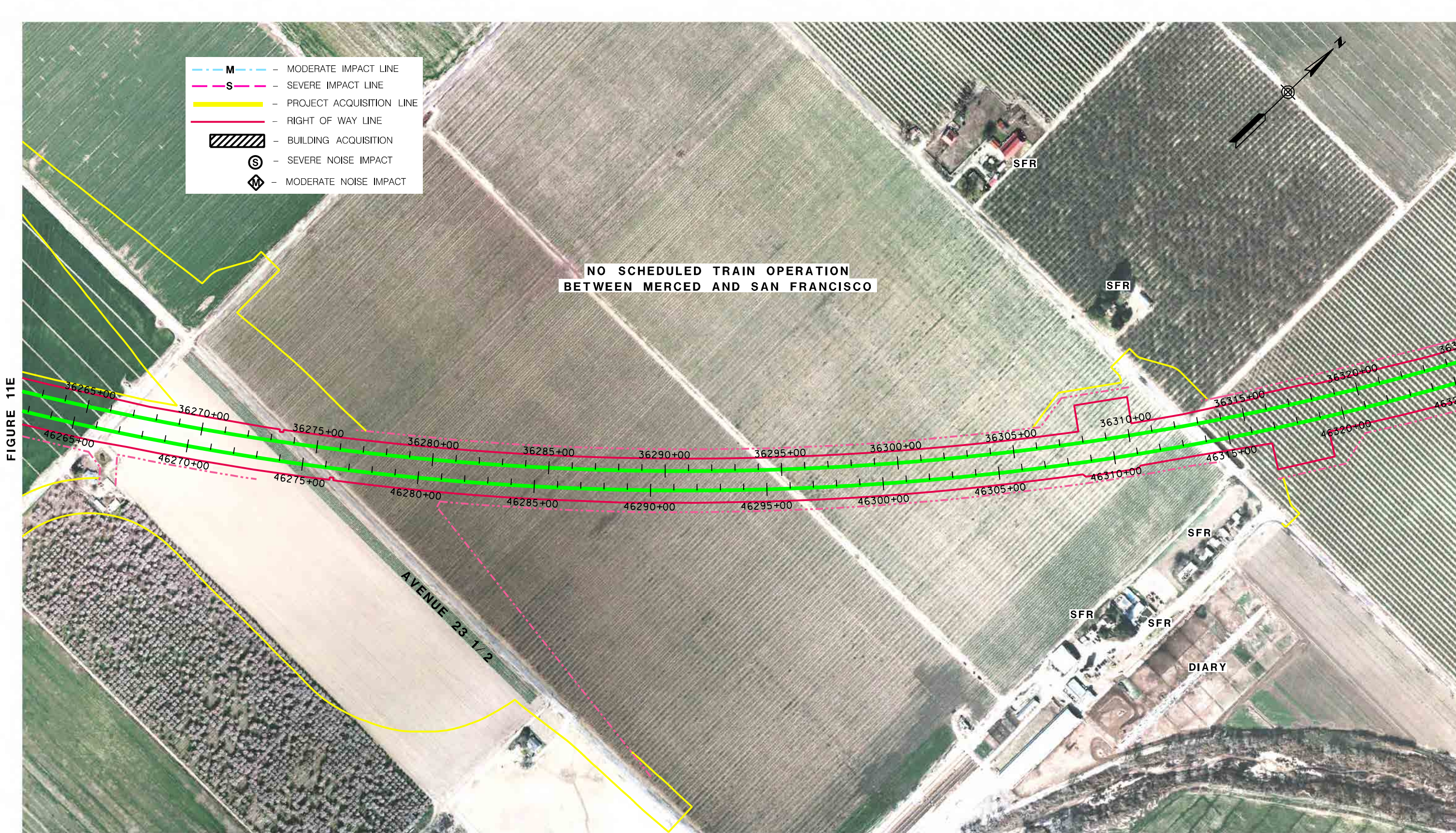


FIGURE 11E

FIGURE 67E

<p>LEGEND</p> <ul style="list-style-type: none"> ⊕ Nxx - NOISE MEASUREMENT SITE ⊕ Vxx - VIBRATION MEASUREMENT SITE —○—○— SOUNDWALL 	<ul style="list-style-type: none"> SFR OR S - SINGLE FAMILY RESIDENTIAL COMM OR C - COMMERCIAL 	<ul style="list-style-type: none"> — TRACK IN TRENCH — TRACK AT GRADE — TRACK ON AERIAL 	<p>1 : 400ft</p>	<p>PARSONS</p> <p>100 WEST WALNUT ST. PASADENA, CA 91124 (626) 440-6100</p>	<p>MERCED TO FRESNO SECTION: CENTRAL VALLEY WYE NOISE IMPACTS AND MITIGATION SR 152 (NORTH) TO ROAD 11 WYE ALTERNATIVE</p> <p>OCTOBER 17, 2016</p> <p>FIGURE 69E</p>
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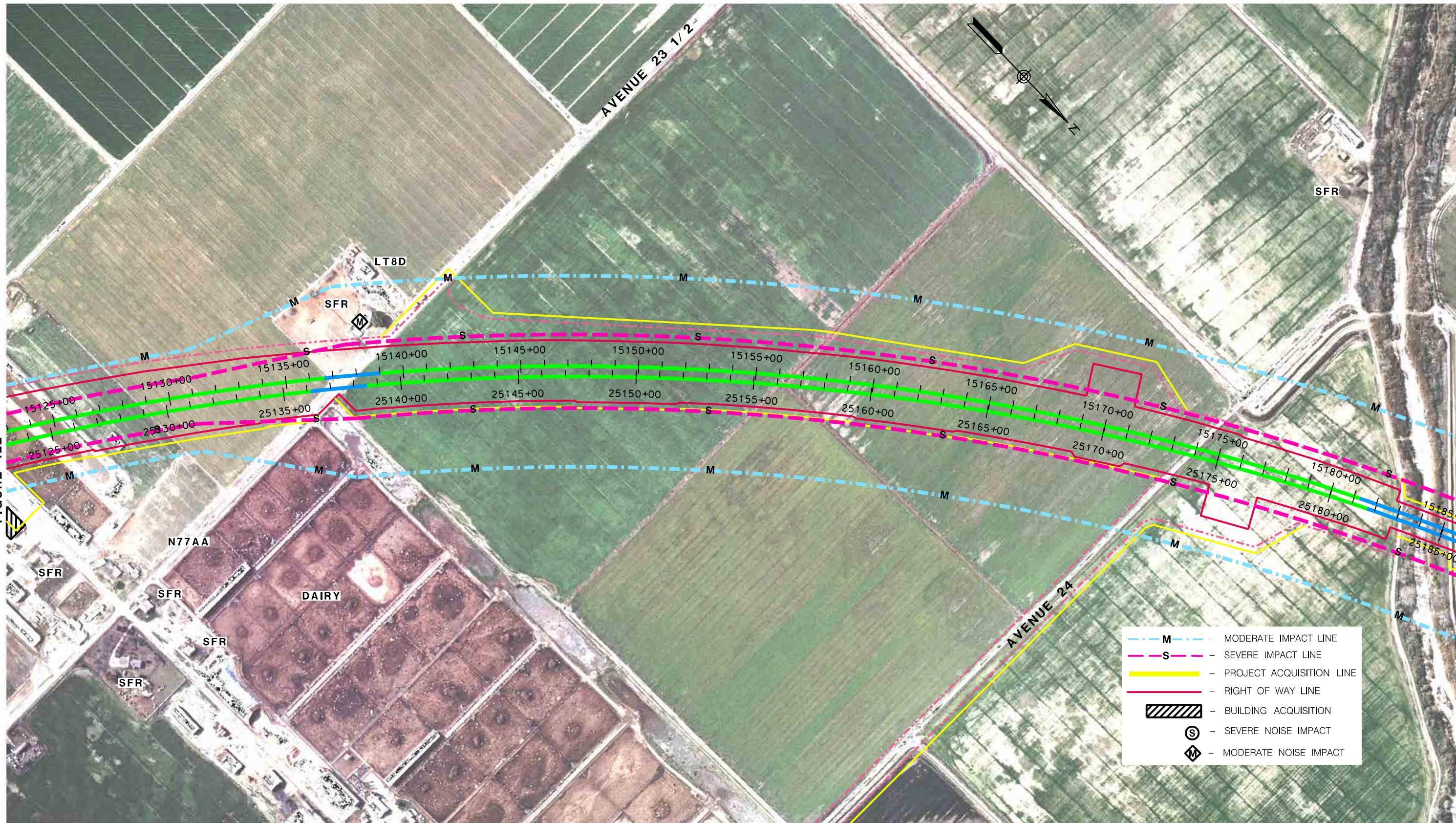
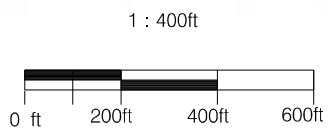


FIGURE 12E

FIGURE 67E

LEGEND

- ⊕ Nxx - NOISE MEASUREMENT SITE
- ⊕ Vxx - VIBRATION MEASUREMENT SITE
- SOUNDWALL
- SFR OR S - SINGLE FAMILY RESIDENTIAL
- COMM OR C - COMMERCIAL
- TRACK IN TRENCH
- TRACK AT GRADE
- TRACK ON AERIAL



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FIGURE 70E