Region 1

DAY OF ... 20... AT ... M...
OF THE COUNTY LAND SURVEYS/RIGHT OF
... RECEPTION NUMBER

FILING CERTIFICATION:
DEPOSITED THIS \_\_\_\_ IN BOOK \_\_\_\_\_ C
SURVEYS AT PAGE \_\_\_\_

18500 East Colfax Avenue Aurora, CD 80011 Phone: 303-365-7410 FAX: 303-365-7350 KAW

Sheet Revisions Sheet Revisions Sheet Revisions Initials XXX

WILSON

Right of way Flans								
Title Sheet								
roject Nu	roject Number: NHPP 030A-032							
roject Location: BRIDGE REPLACEMENT: SH30 (F-17-GP)								
oject Code:	Last Mod. Date	Subset	Sheet No.					
20248	12/19/2016	1.01 of 1.01	1.01					

Dight of Way Dlane

# DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

# RIGHT OF WAY PLANS OF PROPOSED PROJECT NO. NHPP 030A-032

State Highway 30 MP 9.6 TO 9.8 Section 1 and Section 12 Township 4 South, Range 67 West of the 6th Principal Meridian County of Arapahoe



SHEET NO.

3.01-3.03

2.01 4.01-4.03

5.01

7.00-7.01

INDEX OF SHEETS

Title Sheet

Tabulation of Properties

(3) Project Control Diagram Land Survey Control Diagram

Monumentation Sheets

(2) Plan Sheets Ownership Map

(12) Total Sheets

Scales of Original 11"x17" Drawings Plan Sheets 1"=100" Ownership Map 1"=100"

Basis of Beorings: Bearings used in the calculations of coordinates are based on a grid bearing of N88°52'23"E from CM-MP 9.6 to CM-MP 9.8. Both monuments are CDOT Type 5s, marked appropriately for their milepost location and control position. The survey data was obtained from a Global Navigation Satellite System (GNSS) survey base on the Continuously Operating Reference Station (CDRS).

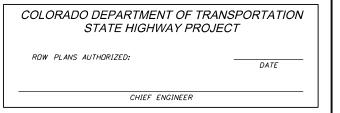
Bosis of Elevations: Project Elevations are GNSS derived and are 0.70' lower than the City of Aurora Vertical Datum Benchmark 4S6701SE001 being published as 5419.25'

CODRDINATE DATUM: Project coordinates are modified Colorado State Plane Central Zone NAD '83/(2011) coordinates. The combined elevation/scale factor used to modify the coordinates from state plane to project coordinates is 1.0002607048. The resulting project coordinates are truncated by 1,000,000 ft in the Northing and 3,000,000 ft in the Easting after converting from state plane coordinates to project coordinates. The CDRS are based on the NAD '83(2011)

Project Coordinates Northing US Survey Feet = ((State Plane Coordinate Northing \* 1.0002607048)) \* (3937/1200) - 1,000,000.

Project Coordinates Easting US Survey Feet = ((State Plane Coordinate Easting \* 1.0002607048)) \* (3937/1200) - 3,000,000.

NOTICE: According to Colorado low you must commence any legal action based upon any defect in this survey within three years after you first discover such defect. In no event may any action based upon any defect in this survey be commenced more than ten years from the date of the certification shown hereon.



#### SURVEYOR STATEMENT (ROW PLAN)

I, <u>Michael Heimbuck</u>, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation that based upon my knowledge, information and belief, research, calculations and evaluation of the survey evidence were performed and this Right-of-Way Plan was prepared under my responsible charge in accordance with applicable standards of practice defined by Colorado Department of Transportation publications. This statement is not a guaranty or warranty, either expressed or implied.

PLS No. 17488

SECTION CORNER QUARTER AND SIXTEENTH SECTION CORNERS (1) SET EASEMENT TEMPORARY RIGHT OF WAY MONUMENT EASEMENT POINT MARKER O NOAA  $\Diamond$ QUARTER AND SIXTEENTH BLM MARKER PROPERTY PIN NOAA MARKER SECTION CORNERS ⊙ wc O FED O USGS WC FEDERAL MONUMENT WITNESS CORNER BENCH MARK USGS MARKER ⊡ LOCAL OR PLSS SECONDARY CONTROL RIGHT OF WAY MONUMENT MONUMENT MARKER N 9.88 E 3.81 EL 0.00 <sup>©</sup>N 10.13 E 3.81 EL 0.00 N 10.38 E 3.81 EL 0.00 PROJECT CONTROL DENSIFICATION HIGH ACCURACY REFERENCE

PERMANENT, PROPERTY, SLOPE, & UTILITY EASEMENT LINE (PROPOSED AND EXISTING)

TEMPORARY EASEMENT LINE (PROPOSED AND EXISTING) \_\_\_\_P \_\_\_\_\_P \_\_ PROPERTY BOUNDARY LINE (PROPOSED AND EXISTING) ACCESS CONTROL LINE (PROPOSED AND EXISTING) —— III ——— III ——— III -BARRIER ACCESS CONTROL LINE (PROPOSED AND EXISTING) RIGHT OF WAY LINE (PROPOSED AND EXISTING) VIRGIN RIGHT OF WAY LINE (PROPOSED AND EXISTING) CDUNTY LINE QUARTER SECTION LINE SECTION LINE SIXTEENTH SECTION LINE STATE LINE TOWNSHIP LINE

#### SURVEY/ROW

TOP OF CUT

**TERRAIN** 

Note: For a complete listing of symbology used within this set of plans, please refer to the M-100-1 Standard Symbols of the Colorado Department of Transportation M&S Standards Publication dated July 2006. Existing topo features are shown as screened weight (gray scale). Proposed or new features are shown as full weight without screening, except as noted with the word (proposed).

PROJECT LOCATION MAP

TOE OF FILL

Region 1

18500 East Colfax Avenue Aurora, CD 80011 Phone: 303-365-7410 FAX: 303-365-7350

	Sheet Revisions			
ate	Description	Initials	Date	П
/dd/yy	XXXXXXX	XXX	mm/dd/yy	
				Г
				Г
		-		

		Sheet Revisions		
Initials		Description	Initials	1/5/
XXX	mm/dd/yy	XXXXXXX	XXX	IVV
				122
				$X \cup X$
				ENGIN
				ENGIN
				1

		Right	<u>of Way Pla</u>	ns					
ILSON	Tabulation of Properties								
	r i o ject ivu	mber: NHPP							
OMPANY	Project Lo	cation: BRID	GE REPLACEMENT:	SH30 (F-	17-				
EERS & ARCHITECTS									
	Project Code:	Last Mod. Date	Subset	Sheet No.					
	20240	10 /10 /2010	0.01 (0.01	0.01					

# Ownership Information - Main

Sheet Revisions

	TABULATION OF PROPERTIES IN ARAPA			Area In Square Feet (Acres)				Book and Page	Title		
Parcel No.	Ownership Name and Mailing Address	Site Address	Location	Area Of Parcel	Existing ROW	Net Area	Remainder Left	Remainder Right	No. And/Or Reception No.	Commitment No.	Remarks
RW-1	BENNOUNA RACHID	NONE	NE 1/4 SEC 12	170		9,337		9,167		NF02191	1973-12-1-01-001
	13209 E 6TH PLACE		LOT 1 BLOCK 3 GRAHAMS SUB	(0.004)		(0.214)		(0.210)			
	AURORA, CO 80011										
PE-1	BENNOUNA RACHID	NONE	NE 1/4 SEC 12	680		9,337		9,337		NF02191	1973-12-1-01-001
	13209 E 6TH PLACE		LOT 1 BLOCK 3 GRAHAMS SUB	(0.016)		(0.214)		(0.214)			Purpose is for maintenance of pedestrian brid
	AURORA, CO 80011			, ,		, ,		, ,			
RW-2	AURORA HOUSING AUTHORITY	601 POTOMAC ST	SE 1/4 Sec 1	160		137,852	137,692			NF02188	1973-01-4-29-001
	2280 S. XANADU WAY	AURORA, CO 80011	LOT 1, BLOCK 1, AURORA	(0.004)		(3.165)	(3.161)				
	AURORA, CO 80114		HOUSING SUBDIVISION FILING NO.1	, ,		, ,	, ,				
PE-2	AURORA HOUSING AUTHORITY	601 POTOMAC ST	SE 1/4 Sec 1	800		137,852	137,852			NF02188	1973-01-4-29-001
	2280 S. XANADU WAY	AURORA, CO 80011	LOT 1, BLOCK 1, AURORA	(0.018)		(3.165)	(3.165)				Purpose is for maintenance of pedestrian brid
	AURORA, CO 80114		HOUSING SUBDIVISION FILING NO.1	, ,		, ,	, ,				
RW-3	WELLS JAMES T	NONE	NE 1/4 SEC 12	160		8,771		8,611		NF02192	1973-12-1-01-002
	13309 E 6TH PLACE		LOT 2 BLOCK 3 GRAHAMS SUB	(0.004)		(0.201)		(0.197)			
	AURORA, CO 80011			,		,		,			
PE-3	WELLS JAMES T	NONE	NE 1/4 SEC 12	640		8,771		8,771		NF02192	1973-12-1-01-002
	13309 E 6TH PLACE		LOT 2 BLOCK 3 GRAHAMS SUB	(0.015)		(0.201)		(0.201)			Purpose is for maintenance of pedestrian brid
	AURORA, CO 80011			, ,				, ,			
RW-4	VIRVES NICOLAS MATEO	NONE	NE 1/4 SEC 12	24		8,756		8,732		NF02193	1973-12-1-01-003
	13409 E 6TH PLACE		LOT 3 BLOCK 3 GRAHAMS SUB	(0.001)		(0.201)		(0.200)			
	AURORA, CO 80011										
PE-4	VIRVES NICOLAS MATEO	NONE	NE 1/4 SEC 12	96		8,756		8,756		NF02193	1973-12-1-01-003
	13409 E 6TH PLACE		LOT 3 BLOCK 3 GRAHAMS SUB	(0.002)		(0.201)		(0.201)			Purpose is for maintenance of pedestrian brid
	AURORA, CO 80011										

$D \cap T$
DEPARTMENT OF TRANSPORTATION

Region 1

18500 East Colfax Avenue Aurora, CD 80011 Phone: 303-365-7410 FAX: 303-365-7350

	ŀ
65-7350	ŀ
KAW	

Π	Sheet Revisions				Sheet Revisions	Sheet Revisions			
Iſ	Date	Description	Initials	Date	Description	Initials	Date	Description	Initia
II	mm/dd/yy	XXXXXXX	XXX	mm/dd/yy	XXXXXXX	XXX	mm/dd/yy	XXXXXXX	XXX
IE									
IE									
Ш									
II									
Ш									
Ш									

WILSON	
	Pr
&COMPANY	Pr
ENGINEERS & ARCHITECTS	
	Pro

Project Control Diagram							
Title Sheet							
oject Number: NHPP 030A-032							
oject Location: BRIDGE REPLACEMENT: SH30 (F-17-GP)							

# DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

PROJECT CONTROL DIAGRAM

State Highway 30 MP 9.6 TO 9.8

Section 1 and Section 12

Township 4 South, Range 67 West

of the 6th Principal Meridian

County of Arapahoe

#### SHEET NO

#### (1) Title Sheet

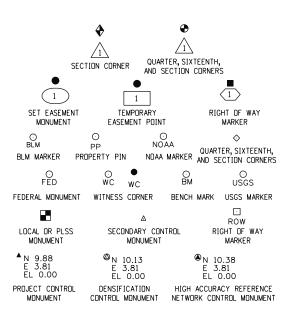
3.02 3.03

(1) Coordinate Tables

INDEX OF SHEETS

(1) Plan Sheet

(3) Total Sheets



Note: For a complete listing of symbology used within this set of plans, please refer to the M-100-1 Standard Symbols of the Colorado Department of Transportation M&S Standards Publication dated July 2006. Existing features are shown as screened weight (gray scale). Proposed or new features are shown as full weight without screening.



Typical Control Monument Cap Not to Scale



CM-MP - Control Point Monuments set by CDOT. They are CDOT Type 5 monuments, a 1.17" dia. brass control monument (as shown) drilled flush into concrete.

#### General Notes:

- 1. This Project Control Diagram is not a boundary survey of the adjoining property and is prepared for the Colorado Department of Transportation purposes only.
- 2. This plan set is subject to change and may not be the most current set. It is the user's responsibility to verify with CDDT that this set is the most current. The information contained on the attached drawing is not valid unless this copy bears an original signature of the Professional Land Surveyor hereon named.
- 3. Refer to the M-629-1 Survey Monuments of the Standard Plans dated July, 2006 found in The Colorado Department of Transportation, M & S Standards for typical survey monument descriptions.

.R67W S.R66W4 225 Begin ROW Project Station: 99+81.8 M.P.: 9.6 US 30 ATH) AVE End ROW Project Station: 101+59 M.P.: 9.8 PROJECT LOCATION MAP

> 2000' 1'' = 2000'

Basis of Beorings: Bearings used in the calculations of coordinates are based on a grid bearing of N88° 52'23"E from CM-MP 9.6 to CM-MP 9.8. Both monuments are CDDT Type 5s, marked appropriately for their milepost location and control position. The survey data was obtained from a Global Navigation Satellite System (GNSS) survey base on the Continuously Operating Reference Station (CDRS).

Bosis of Elevations: Project Elevotions are GNSS derived and are 0.70' lower than the City of Aurora Vertical Datum Benchmark 4S6701SE001 being published as 5419.25'

COORDINATE DATUM: Project coordinates are modified Colorado State Plane Central Zone NAD '83/(2011) coordinates. The combined elevation/scale factor used to modify the coordinates from state plane to project coordinates is 1.0002607048. The resulting project coordinates are truncated by 1,000,000 ft in the Northing and 3,000,000 ft in the Easting after converting from state plane coordinates to project coordinates. The CDRS are based on the NAD '83(2011) datum

Project Coordinates Northing US Survey Feet = ((State Plane Coordinate Northing \* 1.0002607048)) \* (3937/1200) - 1,000,000.

Project Coordinates Easting US Survey Feet = ((State Plane Coordinate Easting \* 1.0002607048)) \* (3937/1200) - 3,000,000.

NOTICE: According to Colorado law you must commence any legal action based upon any defect in this survey within three years after you first discover such defect. In no event may any action based upon any defect in this survey be commenced more than ten years from the date of the certification shown hereon.

#### SURVEYOR STATEMENT (PROJECT CONTROL DIAGRAM)

I, <u>Michael Hiembuck</u>, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation this Project Control Diagram was prepared and the field survey it represents was performed under my responsible charge and, based upon my knowledge, information and belief is in accordance with applicable standards of practice defined by Colorado Department of Transportation publications. This statement is not a guaranty or warranty, either expressed or implied.

PLS No. 17488

1/31/2017 tibriscoe 0.25.22 AM cw.//wils



18500 East Colfax Avenue Aurora, CD 80011 Phone: 303-365-7410 FAX: 303-365-7350

one: 303-365-7410 FAX: 303-365-735 **KAW** 

	Sheet Revisions		ons	Sheet Revisi		ons	Sheet Revision	
als 🚛 🖊	Description Init	als Date	Init	Description	Date	Initials	Description	Date
<u> </u>	XXXXXXXX XX	X mm/do	X	XXXXXXX	mm/dd/yy	XXX	XXXXXXX	nm/dd/yy
-1 o								
&		<b>⊣</b> I—						
EN								
-								
$\dashv$		┨├──						

WILSON Pro

Project ControlDiagram								
Coordinate Tables								
Project Nu	mber: NHPP	030A-032						
Project Lo	cation: BRID(	GE REPLACEMENT: S	SH30 (F-	17-GP)				
Project Code:	Last Mod. Date	Subset	Sheet No.					
20248	12-19-2016	3.01 TO 3.03	3.02					

	CORS GEODETIC COORDINATE SUMMARY TABLE											
CORS ID	Geodetic Coordinates NAD-83(2011)		Elip Height	Ortho Height	Ortho Height Mapping Angle		NAD 83(2011) Zone 0502		Description			
	Latitude(N)	Longitude (W)	(NAVD88) (m)	(m)	napping migic	orra boare ractor	SP Northing(m)	SP Easting(m)	Bescription			
COFC	40°35'36.10801"N	105°09'37.56853"W	1595.981	1611.173	0°12'50.97476"	1.000276282	611282.282	943153.867	PID: DL2742			
СТМС	39°43'17.49315"N	105°11'34.33560"W	1819.836	1835.589	0°11'37.33099"	0.999994491	514455.049	940734.791	PID: DM5962			
TMGO	40°07'51.34543"N	105°13'57.71653"W	1673.853	1689.774	0°10'06.90213"	1.000097631	559903.333	937186.225	PID: AF9516			

Δ

	GEODETIC COORDINATE TABLE											
Point No.	Geodetic Coordinates NAD-83(2011) (CORS)		Elip Height	Ortho Height Manning Angle		Le Grid Scale Factor	NAD 83(2011) Zone 0502		Description			
POINT NO.	Latitude (N)	Longitude (W)	(NAVD88) (m)	(m)	Mapping Migie	orra board raddor	SP Northing(m)	SP Easting(m)	Description			
CM-MP 9.6	39°43'32.73389"N	104°49'53.37907"W	1635.304	1652.904	0°25'17.83068"	0.999995295	515091.456	971715.045	Set Type 5s in sidewalk			
CM-MP 9.8	39°43'32.80551"N	104°49'45.83916"W	1634.846	1652.451	0°25'22.58602"	0.999995298	515094.988	971894.587	Set Type 5s in sidewalk			

Δ

	PROJECT COORDINATE TABLE									
Point No.	Project Co	oordinates	Elev(ft)	Description						
FOIRC NO.	Northing(ft) Easting(ft)		(NAVD88)	Description						
CM-MP 9.6	690369.792	188866.246	5422.90	Set Type 5s in sidewalk						
CM-MP 9.8	690381.383	189455.446	5421.42	Set Type 5s in sidewalk						



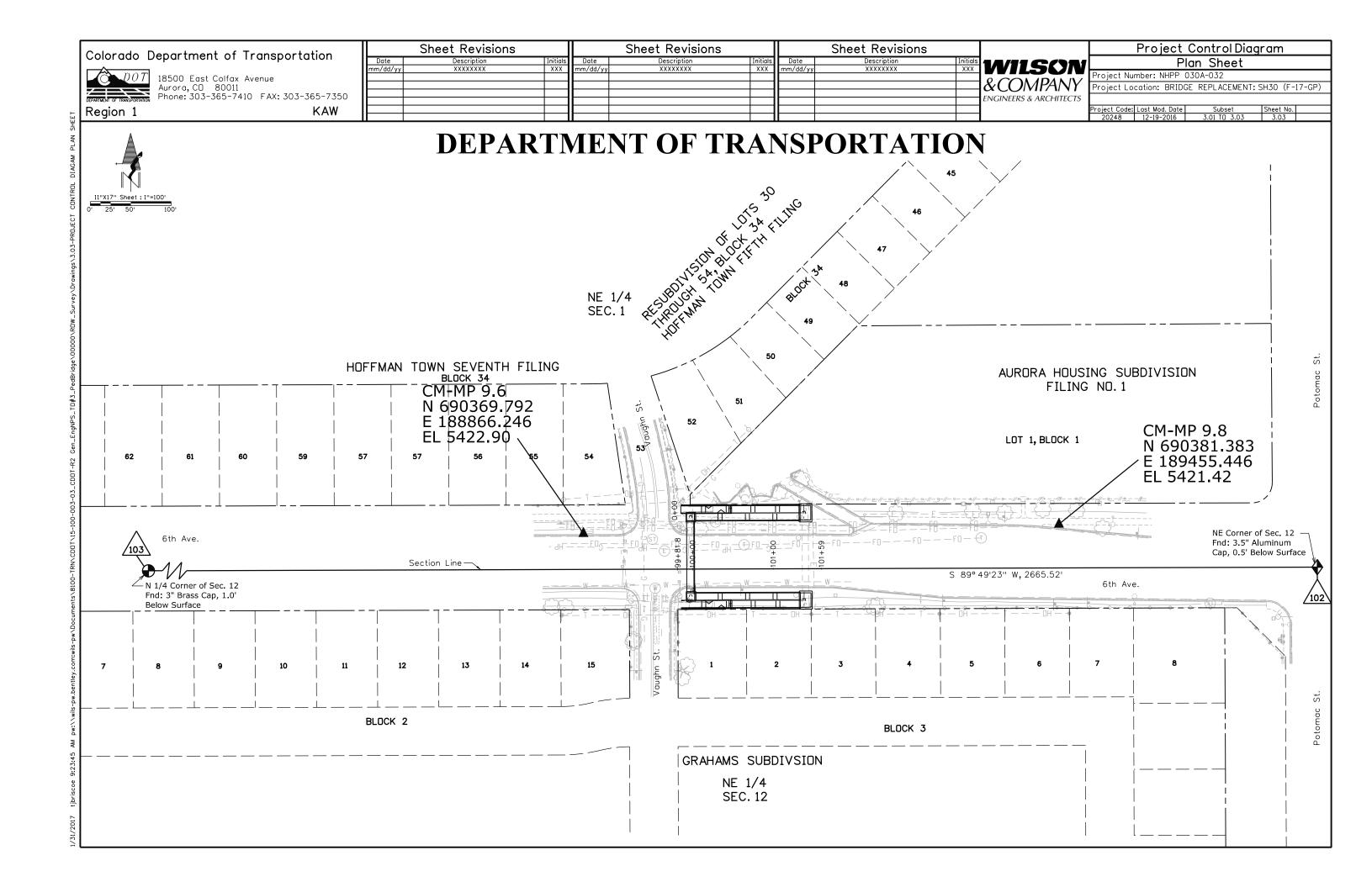
	FOUND ALIQUOT MONUMENT COORDINATE TABLE										
Point No.	Northing(ft)	Easting(ft)	Description								
102	690328.09	189775.58	3.5" Aluminum Cap 0.5' Below Surface, NE Corner of Sec. 12								
103	690319.86	187110.07	3" Brass Cap 1.0 Below Surface, N 1/4 Corner of Sec. 12								
105	690311.05	184444.55	3" Aluminum Cap .5 Below Surface, NW Corner of Sec. 12								

Basis of Bearings: Bearings used in the calculations of coordinates are based on a grid bearing of N88° 52′23″E from CM-MP 9.6 to CM-MP 9.8. Both monuments are CDOT Type 5s, marked appropriately for their milepost location and control position. The survey data obtained was by using Global Navigation Satellite System (GNSS) survey based on the Continuously Operating Reference Station (CDRS).

Basis of Elevations: Project Elevations are GNSS derived and are 0.70 lower than the City of Aurora Vertical Datum Benchmark 4S6701SE001 being published as 5419.25'

COORDINATE DATUM: Project coordinates are modified Colorado State Plane Central Zone NAD '83/(2011) coordinates. The combined elevation/scale factor used to modify the coordinates from state plane to project coordinates is 1.0002607048. The resulting project coordinates are truncated by 1,000,000 usft in the Northing and 3,000,000 usft in the Easting after converting from state plane coordinates to project coordinates. The CORS are based on the NAD '83(2011) datum.

Project Coordinates Northing US Survey Feet = ((State Plane Coordinate Northing \* 1.0002607048)) \* (3937/1200) - 1,000,000. Project Coordinates Easting US Survey Feet = ((State Plane Coordinate Easting \* 1.0002607048)) \* (3937/1200) - 3,000,000.



18500 East Colfax Avenue Aurora, CD 80011 Phone: 303-365-7410 FAX: 303-365-7350

KAW

	Sheet Revisions			Sheet Revisions			Sheet Revisions		Γ
Date	Description	Initials	Date	Description	Initials	Date	Description	Initials	]4
nm/dd/yy	XXXXXXX	XXX	mm/dd/yy	XXXXXXX	XXX	mm/dd/yy	XXXXXXX	XXX	] [
									1.
									1
									J,
									L
									1
							·		L

WILSON	
	Pro
&COMPANY	Pro
ENGINEERS & ARCHITECTS	
	Proje

	Edila Sarvey Control Diagram									
		Т	itle Sheet							
	Project Number: NHPP 030A-032									
	Project Location: BRIDGE REPLACEMENT: SH30 (F-17-GP)									
ı	Project Code:	Last Mod. Date	Subset	Sheet No.						
ı	20248	12-19-2016	4.01 of 4.03	4.01						

Land Survey Control Diggram

Region 1

	<b>�</b>	•		
	1	QUARTER, SIX	TEENTH	
SECT	TION CORNER	AND SECTION		
1	1		1	>
SET EASEMENT MONUMENT	TEMPOR EASEMENT		RIGHT D MARK	
⊙ BLM	⊙ PP	O NOAA	<b>♦</b>	
BLM MARKER PRO	PERTY PIN	NDAA MARKER	QUARTER, S AND SECTION	
O FED	⊙ • wc wc	⊙ BM	U	⊙ sgs
EDERAL MONUMENT	WITNESS COR	NER BENCH	MARK USG	S MARKER
		Δ	E RO	-
LOCAL OR PLSS MONUMENT		Y CONTROL UMENT	RIGHT ( MAR	
▲ N 9.88 E 3.81 EL 0.00	<sup>©</sup> N 10.13 E 3.81 EL 0.00		●N 10.38 E 3.81 EL 0.00	
PROJECT CONTROL MONUMENT	DENSIFICATI CONTROL MONU		ACCURACY R RK CONTROL	

Note: For a complete listing of symbology used within this set of plans, please refer to the M-100-1 Standard Symbols of the Colorado Department of Transportation M&S Standards Publication dated July 2006. Existing features are shown as screened weight (gray scale). Proposed or new features are shown as full weight without screening.

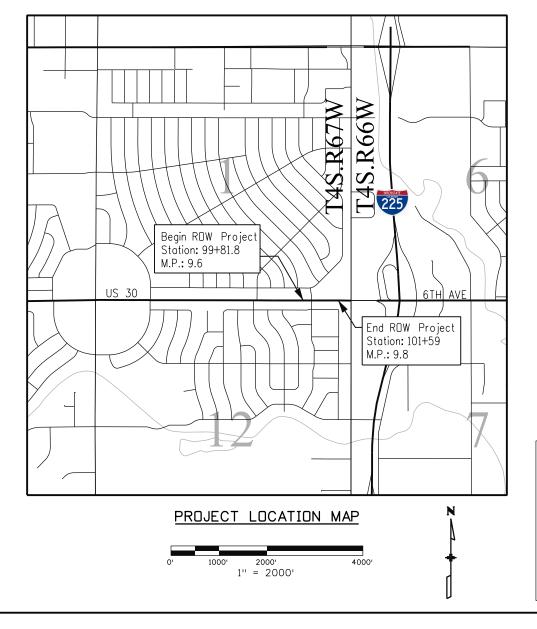
#### General Notes:

- 1. This Land Survey Control Diagram is not a boundary survey of the adjoining property and is prepared for the Colorado Department of Transportation purposes only. No determination has been made to determine if the found monuments as shown are in their proper position or if they are at the corners they are intended to monument.
- 2. Title policy, title commitment, and title research are not part of this survey, therefore easements, rights, and restrictions of record were not researched and are not shown on this diagram. The verification of the physical evidence with relation to easements, rights of ways, property boundaries, and restrictions, as described in the instruments of record, were not included in this control survey.
- 3. This plan set is subject to change and may not be the most current set. It is the user's responsibility to verify with CDOT that this set is the most current. The information contained on the attached drawing is not valid unless this copy bears an original signature of the Professional Land Surveyor hereon named.
- 4.Refer to the M-629-1 Survey Monuments of the Standard Plans dated July, 2012 found in The Colorado Department of Transportation, M & S Standards for typical survey monument descriptions.

# DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

## LAND SURVEY CONTROL DIAGRAM

State Highway 30 MP 9.6 TO 9.8 Section 1 and Section 12 Township 4 South, Range 67 West of the 6th Principal Meridian County of Arapahoe



#### SHEET NO.

#### (1) Title Sheet

4.02 4.03

Monument Coordinate Tables

INDEX OF SHEETS

(1) Plan Sheet

(3) Total Sheets

Basis of Beorings: Bearings used in the calculations of coordinates are based on a grid bearing of N88° 52'23"E from CM-MP 9.6 to CM-MP 9.8. Both monuments are CDOT Type 5s, marked appropriately for their milepost location and control position. The survey data was obtained from a Global Navigation Satellite System (GNSS) survey base on the Continuously Operating Reference Station (CORS).

Bosis of Elevations: Project Elevotions are GNSS derived and are 0.70' lower than the City of Aurora Vertical Datum Benchmark 4S6701SE001 being published as 5419.25'

CODRDINATE DATUM: Project coordinates are modified Colorado State Plane Central Zone NAD '83/(2011) coordinates. The combined elevation/scale factor used to modify the coordinates from state plane to project coordinates is 1.0002607048. The resulting project coordinates are truncated by 1,000,000 ft in the Northing and 3,000,000 ft in the Easting after converting from state plane coordinates to project coordinates. The CDRS are based on the NAD '83(2011)

Project Coordinates Northing US Survey Feet = ((State Plane Coordinate Northing \*1.0002607048)) \* (3937/1200) - 1,000,000.

Project Coordinates Easting US Survey Feet = ((State Plane Coordinate Easting \*1.0002607048)) \* (3937/1200) - 3,000,000.

NOTICE: According to Colorado low you must commence any legal action based upon any defect in this survey within three years after you first discover such defect. In no event may any action based upon any defect in this survey be commenced more than ten years from the date of the certification shown hereon.

#### SURVEYOR STATEMENT (PROJECT CONTROL DIAGRAM)

I, <u>Michael Heimbuck</u>, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation this Project Control Diagram was prepared and the field survey it represents was performed under my responsible charge and, based upon my knowledge, information and belief is in accordance with applicable standards of practice defined by Colorado Department of Transportation publications. This statement is not a quaranty or warranty. either expressed or implied.

PLS No. 17488



18500 East Colfax Avenue Aurora, CD 80011 Phone: 303-365-7410 FAX: 303-365-7350

KAW

		Sheet Revisions			Sheet Revisions	Sheet Revisions			
<b>3</b> 44	Initials	Description	Date	Initials	Description	Date	Initials	Description	ate
] V	XXX	XXXXXXX	mm/dd/yy	XXX	XXXXXXX	mm/dd/yy	XXX	XXXXXXX	′dd/yy
] 7									
٦X									
EN									
1									

WILSON COMPANY

Land Survey Control Diagram									
Monument Coordinate Tables									
Project Nu	Project Number: NHPP 030A-032								
Project Lo	cation: BRID	GE REPLACEMENT: S	SH30 (F-	17-GP)					
Project Code:	Last Mod. Date	Subset	Sheet No.						
20248	12-16-2016	4.01 TO 4.03	4.02						

	CORS GEODETIC COORDINATE SUMMARY TABLE										
CORS ID	Geodetic Coordinates NAD-83(2011)		Elip Height	Ortho Height	Manning Angle	pping Angle Grid Scale Factor	NAD 83(2011) Zone 0502		Description		
	Latitude(N)	Longitude (W)	(NAVD88) (m)	(m)	mapping migie	oria boare ractor	SP Northing(m)	SP Easting(m)	bescription		
COFC	40°35'36.10801"N	105°09'37.56853"W	1595.981	1611.173	0°12'50.97476"	1.000276282	611282.282	943153.867	PID: DL2742		
СТМС	39°43'17.49315"N	105°11'34.33560"W	1819.836	1835.589	0°11'37.33099"	0.999994491	514455.049	940734.791	PID: DM5962		
TMGO	40°07'51.34543"N	105°13'57.71653"W	1673.853	1689.774	0°10'06.90213"	1.000097631	559903.333	937186.225	PID: AF9516		

	GEODETIC COORDINATE TABLE											
Point No.	Geodetic Coordinates NAD-83(2011) (CORS)		Elip Height	Ortho Height Manning Angle		le Grid Scale Factor	NAD 83(2011) Zone 0502		Description			
POINT NO.	Latitude (N)	Longitude (W)	(NAVD88) (m) (m)	(m)	orra boare ractor	SP Northing(m)	SP Easting(m)	bescription				
CM-MP 9.6	39°43'32.73389"N	104°49'53.37907"W	1635.304	1652.904	0°25'17.83068"	0.999995295	515091.456	971715.045	Set Type 5s in sidewalk			
CM-MP 9.8	39°43'32.80551"N	104°49'45.83916"W	1634.846	1652.451	0°25'22.58602"	0.999995298	515094.988	971894.587	Set Type 5s in sidewalk			

	PROJECT COORDINATE TABLE								
Point No.	Project Co	oordinates	Elev(ft)	Description					
FOIRC NO.	Northing(ft)	Easting(ft)	(NAVD88)	bescription					
CM-MP 9.6	690369.792	188866.246	5422.90	Set Type 5s in sidewalk					
CM-MP 9.8	690381.383	189455.446	5421.42	Set Type 5s in sidewalk					



	FOUND ALIQUOT MONUMENT COORDINATE TABLE							
Point No.	Northing(ft)	Easting(ft)	Description					
102	690328.09	189775.58	3.5" Aluminum Cap 0.5' Below Surface, NE Corner of Sec. 12					
103	690319.86	187110.07	3" Brass Cap 1.0 Below Surface, N 1/4 Corner of Sec. 12					
105	690311.05	184444.55	3" Aluminum Cap .5 Below Surface, NW Corner of Sec. 12					

	TABULATION OF R.O.W. MONUMENTS							
Point No.	Northing(ft)	Easting(ft)	Description					
200	690407.47	189575.33	Found CDOT Type 1					
201	690277.47	189575.74	Found CDOT Type 1					
202	690274.23	188525.74	Was not set					
202A	690280.71	188533.36	Found CDOT Type 1, Stamped PNT. 202A 10' RM					
202B	690279.91	188515.17	Found CDOT Type 1, Stamped PNT. 202B 12' RM					
203	690404.23	188525.34	Found CDOT Type 1					

FOUND BOUNDARY MONUMENT COORDINATE TABLE							
Point No.	Northing(ft)	Easting(ft)	Description				
1002	690555.76	188896.11	No.3 Rebar				
1003	690159.14	189468.88	Cut X in Concrete Walk				
1004	690158.73	189308.88	Cut X in Concrete Walk				
1005	690166.21	189228.61	No.3 Rebar				
1006	690158.23	189148.75	Cut X in Concrete Walk				
1007	690158.04	189068.69	Cut X in Concrete Walk				
1008	690157.47	188923.70	Cut X in Concrete Walk				
1009	690151.69	188876.14	Cut X in Concrete Walk				
1010	690147.17	188838.72	Cut X in Concrete Walk				
1011	690146.97	188763.13	Cut X in Concrete Walk				
1012	690432.97	189719.69	Bent P/K in Concrete Walk				
1015	691147.96	189721.34	Pin in 6"x6" Concrete Pillar				
1016	691147.92	189725.34	Cut X in Concrete Curb				
1017	690418.26	188998.50	Yellow Plastic Cap PLS 28291				
1018	690627.27	189205.62	No.5 Rebar				
1019	690405.61	188985.94	Pin in 6"x6" Concrete Pillar				
1021	691196.48	189588.02	Nail and Washer PLS 28627				

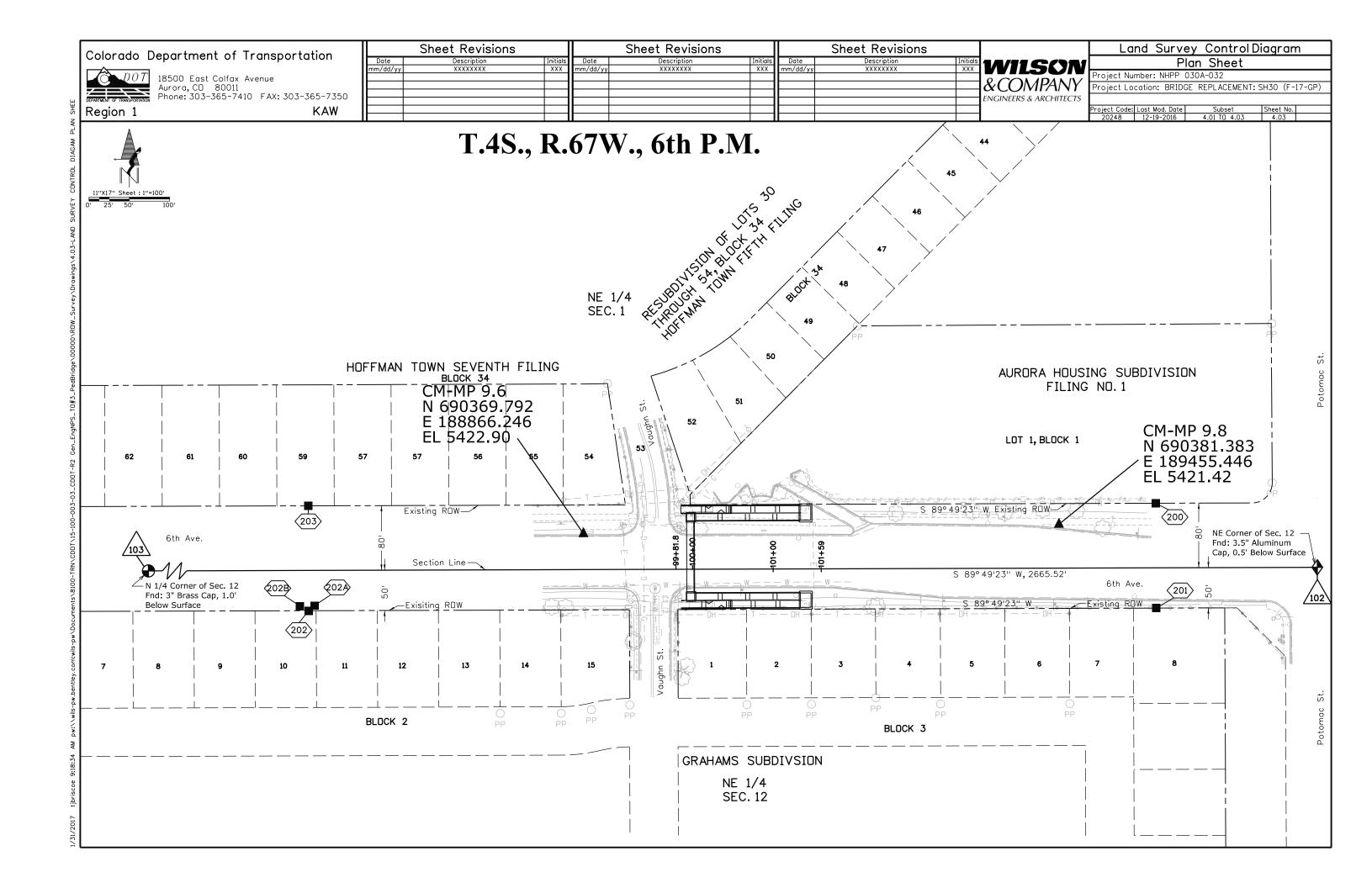
Basis of Bearings: Bearings used in the calculations of coordinates are based on a grid bearing of N88° 52'23"E from CM-MP 9.6 to CM-MP 9.8. Both monuments are CDOT Type 5s, marked appropriately for their milepost location and control position. The survey data obtained was by using Global Navigation Satellite System (GNSS) survey based on the Continuously Operating Reference Station (CDRS).

Basis of Elevations: Project Elevations are GNSS derived and are 0.70 lower than the City of Aurora Vertical Datum Benchmark 4S6701SE001 being published as 5419.25'

CDDRDINATE DATUM: Project coordinates are modified Colorado State Plane Central Zone NAD '83/(2011) coordinates. The combined elevation/scale factor used to modify the coordinates from state plane to project coordinates is 1.0002607048. The resulting project coordinates are truncated by 1,000,000 usft in the Northing and 3,000,000 usft in the Easting after converting from state plane coordinates to project coordinates. The CDRS are based on the NAD '83(2011) datum.

Project Coordinates Northing US Survey Feet = ((State Plane Coordinate Northing \* 1.0002607048)) \* (3937/1200) - 1,000,000. Project Coordinates Easting US Survey Feet = ((State Plane Coordinate Easting \* 1.0002607048)) \* (3937/1200) - 3,000,000.

 $\stackrel{\blacksquare}{\overset{}_{\times}}$ 



Region 1

18500 East Colfax Avenue Aurora, CD 80011 Phone: 303-365-7410 FAX: 303-365-7350

I		Sheet Revisions			Sheet Revisions			Sheet Revisions		
ı	Date	Description	Initials	Date	Description	Initials	Date	Description	Initials	414
ı	mm/dd/yy	XXXXXXX	XXX	mm/dd/yy	XXXXXXXX	XXX	mm/dd/yy	XXXXXXX	XXX	v
ı										0
ı										X
ı				<b>—</b>						ENC
ı	-			<b>-</b>						
ı				<b>—</b>						i

VILSON

Right of Way Plans Monumentation Sheet Project Number: NHPP 030A-032 Project Location: BRIDGE REPLACEMENT: SH30 (F-17-GP) Project Code: Last Mod. Date 20248 12-16-2016

 $\langle \overline{x} \overline{x} \rangle$ 

	TABULATION OF R.O.W. MONUMENTS TO BE SET								
Point No.	Northing(ft)	Easting(ft)	Description						
3000	690405.69	188998.54	CDOT Type 1 Monument to be set						
3001	690406.69	188998.54	CDOT Type 1 Monument to be set						
3002	690407.19	189158.54	CDOT Type 1 Monument to be set						
3003	690406.19	189158.54	CDOT Type 1 Monument to be set						
3004	690273.64	188983.20	CDOT Type 1 Monument to be set						
3005	690275.64	188983.19	CDOT Type 1 Monument to be set						
3006	690276.19	189160.24	CDOT Type 1 Monument to be set						
3007	690274.19	189160.25	CDOT Type 1 Monument to be set						



TABULATION OF PERMANENT EASEMENT POINTS								
Point No.	Northing (ft)	Easting(ft)		Description				
3010	690411.69	188998.52						
3011	690412.19	189158.52						
3012	690265.64	188983.24						
3013	690266.19	189160.28		_				

#### QUANTITY OF MONUMENTS TO BE SET

CAP	MONUMENT TYPE									
TYPE	1	1A	2	2A	3	<i>3A</i>	4	5	5(S)	6
REFERENCE										
ROW	8									
CONTROL										
ALIQUOT CORNER										
PERMANENT EASEMENT										
PROJECT POINTS										
WITNESS POST (REQUIRED)										

#### General Notes:

- 1. All centerline and offset stationing may not represent the centerline as constructed in the field.
- 2. Refer to the M-629-1 Survey Monuments of the Standard Plans dated July, 2012 found in The Colorado Department of Transportation, M & S Standards for survey monument descriptions.
- 3. This plan set is subject to change and may not be the most current set. It is the user's responsibility to verify with CDOT that this set is the most current. The information contained on the attached drawing is not valid unless this copy bears an original signature of the Professional Land Surveyor hereon named.

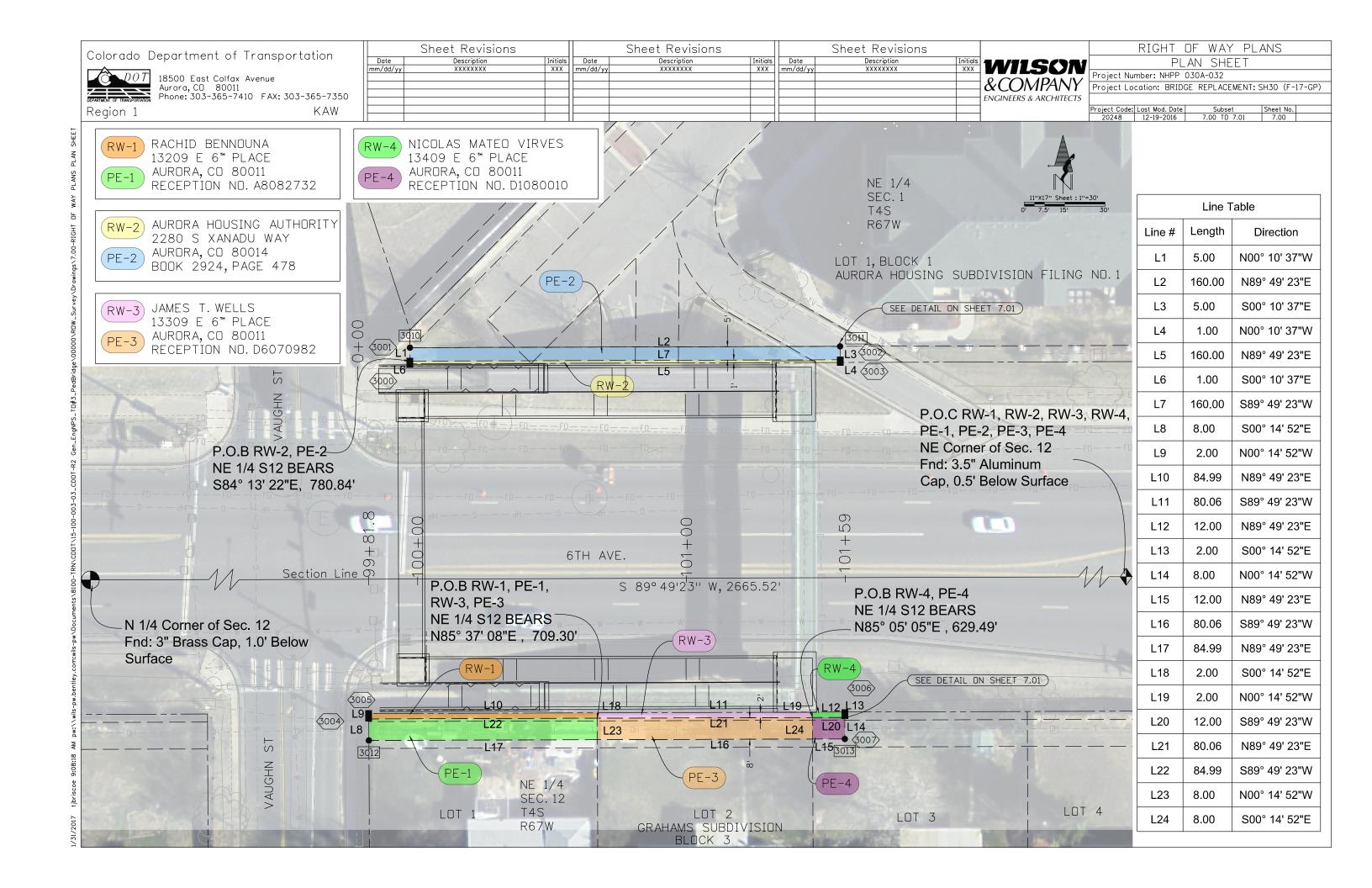
COORDINATE DATUM: Project coordinates are modified Colorado State Plane Central Zone NAD '83/(2011) coordinates. The combined elevation/scale factor used to modify the coordinates from state plane to project coordinates is 1.0002607048. The resulting project coordinates are truncated by 1,000,000 usft in the Northing and 3,000,000 usft in the Easting after converting from state plane coordinates to project coordinates. The CDRS are based on the NAD '83(2011) datum.

NOTICE: According to Colorado low you must commence any legal action based upon any defect in this survey within three years after you first discover such defect. In no event may any action based upon any defect in this survey be commenced more than ten years from the date of the certification shown hereon.

#### SURVEYOR STATEMENT (ROW PLAN)

I, <u>Michael Heimbuck</u>, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation that based upon my knowledge, information and belief, research, calculations and evaluation of the survey evidence were performed and this Right-of-Way Plan was prepared under my responsible charge in accordance with applicable standards of practice defined by Colorado Department of Transportation publications. This statement is not a guaranty or warranty, either expressed or implied.

PLS No. 17488



DOT

Region 1

18500 East Colfax Avenue Aurora, CD 80011 Phone: 303-365-7410 FAX: 303-365-7350

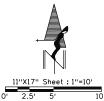
365-7350	
KAW	

	Sheet Revisions			Sheet Revisions			Sheet Revisions		
	Description	Initials	Date	Description	Initials	Date	Description	Initials	1/1//
уу	XXXXXXX	XXX	mm/dd/yy	XXXXXXX	XXX	mm/dd/yy	XXXXXXX	XXX	VV
									$\mathcal{X}(\cdot)$
									ENICINE
									ENGINE

		RIGHT	OF WAY	PLA	ANS	
ILSON		PLAN	SHEET [	DETA	ΙL	
	Project Nu	mber: NHPP				
OMPANY	Project Lo	cation: BRID(	GE REPLACEN	MENT: S	H30 (F-	17-GF
EERS & ARCHITECTS						
	Project Code:	Last Mod. Date	Subset		Sheet No.	
	20248	12-19-2016	7.00 TD 7	.01	7.01	

RW-1 RACHID BENNOUNA 13209 E 6™ PLACE AURORA, CO 80011

AURORA, CO 80011 RECEPTION NO. A8082732 RW-4 NICOLAS MATEO VIRVES 13409 E 6™ PLACE PE-4 AURORA, CO 80011 RECEPTION NO. D1080010



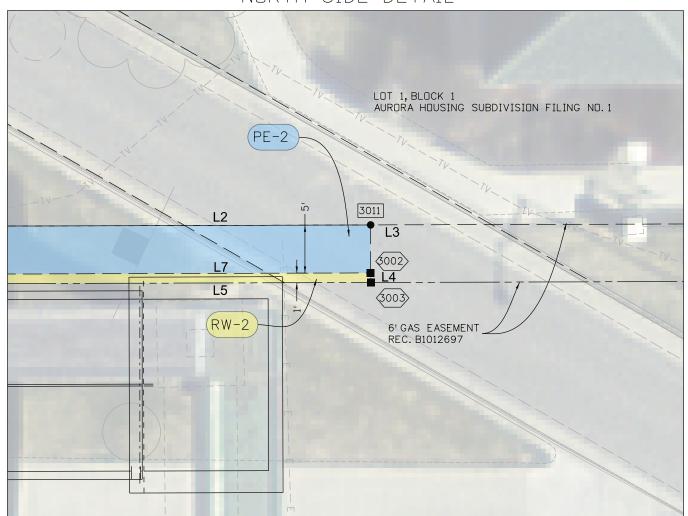
RW-2 AURORA HOUSING AUTHORITY
2280 S XANADU WAY
PE-2 AURORA, CO 80014

BOOK 2924, PAGE 478

RW-3 JAMES T. WELLS

13309 E 6™ PLACE PE-3 AURORA, CO 80011 RECEPTION NO. D6070982

NORTH SIDE DETAIL



# SOUTH SIDE DETAIL

