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Project Control Diagram	10.5			150-051	O. BRO CO	CL N	D PROJE	IIA JAS	EDE	I			
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INDEX OF	NO. SHEET				CORA		OE (	ATE	LS	DEPART Weld Co		Weld County Colorddo Public Works Department 1111 H Street Creeley. CD 80632 Phone 970-304-6496 FAX:970-304-6497	MEIL
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ct Location: RIVER	e [OTF BITM S	911M 1	<b>0</b>   (  <b> </b>  € <sub> </sub>	•								9712-035-076:XA3 £212-035-076-6non	AND THE PARTY OF T
ct Number: BRO C030-031											ļ	420 Second Street reeley, CO 80631	4:)
TITLE SHEET		LOCATION	PROJECT	Description Initials	VY\m	aloitini n	Description		Hole Date	ni no i †qi nosed	Dote VXV		<u> </u>
Right of Way Plans				Revisions			Revision		3, 3	snoisiveA teer		epartment of Transportation	Colorado D
									•				





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NOT TO SCALE JARICA TION CALLE O<sub>0</sub>7 FOUND 2-2" ALUMINUM CAP STAMPED: "LS 17662" SOIT SOID SECTION S4, T5N, R68W, T50, R68W, T50, R68W, T50, R68W, T50, R68W, T50, R68W, R6 of said Section 24. 23" Aluminum Cap stamped "PLS 19003" at the East Quarter Corner 17662" at the Southeast Corner of said Section 24 and a set 00.29.32" East, between a found 23" Aluminum Cap stamped PROJECT The East line of the Southeast quarter of Section 24, Township 5 South, Range 68 West of the 6th Principal Meridian, bearing North **b** BASIS OF BEARING: SO3

ZET 2
\*\*EL S
\*\*EL TUN CAP STAMPED: "PLS 19003"

SET 2
\*\*EL TUN R6BV, PLS 19003" to Greeley 🖚 to Loveland ₽£ SI ₽£ SL 6 15

BEGIN KOW PROJECT BRO C030-031

00+01 AT2

STA 12+80.00

BEGIN CONSTRUCTION PROJECT BRO C030-031

This Plan was prepared by:

Denver, Colorado 80204 1391 Speer Blvd. - Suite 390 HARRIS KOCHER SMITH

J. F. SATO AND ASSOCIATES 5898 South Ropp Street Littleton. Colorado 80120

91

Project Length 0.27 Miles Scale of Ownership Sheets: 1"=100" Scale of ROW Plan Sheets: 1"=100" TSN, R67W & R68W, 6th P.M.

CDOT PROJECT CODE NO. 14989

END KOW PROJECT BRO C030-031

00.03+EE AT2

END CONSTRUCTION PROJECT BRO C030-031

31VO/

RECION IV APPROVAL BLOCK PROCK

M-629-1 SURVEY MONUMENTS (2 SHEETS) M-100-1 STANDARD SYMBOLS (3 SHEETS)

**ΑΕ.ΣΣ+9Σ AT2** 

N 00° 29'

**Ψ** ξ

All of the

Weld County Colorado
Public Works Department
1111 H Street
Greeley, CD 80632
Phone 970-304-6496 FAX:970-304-6497

1420 Second Street
Greeley, CD 80631
Phone \$70-350-2153 FAX:970-350-2178
Region 4
DGM

Sheet Revisions Description Sheet Revisions Description Initials Date

Right of Way Plans
TABULATION SHEET
Project Number: BRO C030-031
Project Location: WCR 13 e BIG THOMPSON
Project Location: RIVER
Project Location: RIVER
Project Location: RIVER
14989 | 05-23-08 | 1 of 1 | 2.01 | 101 | 10. of Sharts

Colorado Department of Transportation Date mm/yy Sheet Revisions

Description Invitation

2	Owner	Address	Location	- 1	Evisting Britis Not Area	Not Area L	Remainder		No. 5	Remarks
						1 2 2	1077	Right		
_	COULSON EXCAVATING COMPANY INC A COLORADO CORPORATION	3609 N. CR 13 LOVELAND. CO 80538	UNPLATTED SW/4 19. TSN. R67W 6TH P.M.	9,490 SM 6TH P.M. 102,153 SF	<b>=</b> 40	9,490 SM 102,153 SF	,	446.058 SM 4.801.332 SF	-	REMAINDER BASED ON DEED
1-31	SAME AS ABOVE	SAME AS ABOVE	SAME AS ABOVE	356 SM 3.828 SF	ru .	356 SM 3.828 SF			15-1	TEMPORARY EASEMENT FOR CONSTRUCTION
TE-2	LOVELAND READY MIX CONCRETE, INC., A COLORADO CORPORATION	1339 S. CR 1 LOVELAND. CO 80537	UNPLATTED SE/4 24, T5N, R68W 6TH P.M.	1.194 SM 12.850 SF	1	1.194 SM 12.850 SF			TE-2	TEMPORARY EASEMENT FOR CONSTRUCTION
			0.00							

2 0

HARRIS KOCHER SMITH

1391 Speer Blvd. - Suite 390
Denver, Colorado 80204

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J. F. SATO AND ASSOCIATES 5898 South Rapp Street Littletan. Colorado 80120

Colorado Region 4 JNPLATTED 11 UNPLATTED CONTROL PNT #5 1420 Second Street Greeley, CD 80631 Phone \$70-350-2153 FAX:970-350-2223 Department of Weld County Colorado
Public Works Department
1111 H Street
Greeley, CO 80632
Phone \$70-304-6496 FAX:970-304-6497 SECTION 24, T5N, R68W, 6TH P.M. FOUND 2 1/2" ALUMINUM CAP STAMPED "LS 17682 IN MONUMENT BOX" Transportation Date Sheet Revisions NE OF THE SEA SEC. 24 Initiale Date SECONDARY PROJECT COORDINATES Sheet Revisions OWNER:
LOVELAND READY MIX CONCRETE, INC.
ADDRESS: 1339 S. COUNTY RD 1
LOVELAND, CO 80537 OWNER:
COULSON EXCAVATING CO. INC.
ADDRESS: 3609 N. CR 13
LOYELAND, CO 80538 UNPLATTED 22+00 234 Inttiale Date CONTROL PNT #4 Sheet Revisions 25+0 SUMMARY TABLE PLAN SCALE: (FEE 1"-100 18 T) GROUND EAST QUARTER CORNER
SECTION 24, TSN, R88W, 6TH P.M.
CAL CULATED POSITION BASED
ON TIES FROM MONUMENT
RECORD DATED JULY 6, 1988 PROJECT CONTROL DIAGRA
Project Number: BRO 0030-031
Project Location: WCR 13 @ BIG THOMPSON
Project Location: RIVER Project Codes Last Mod. Date Subset Sheets Sheet No. Total No. of Sheets 14989 05-23-08 1 of 1 3.01 11 Right of Way CONTROL PNT. Plans DIAGRAM

CONTROL POINT #
NORTHEAST CORN
TION 24, T5N, R88W, 8TH P
FOUND 3 \$\frac{1}{2}\text{ALUMINUM C}
STAMPED "LS 7242 19

CP-202 POINT CP-201 NAME CP-20 CP-5 CP-4 CP-3 CP-2 PROJECT COORDINATES

APPLIED AT SCALE POINT APPLIED AT ZERO, ZERO 1386294.742 1381033.977 1383666.418 1380971.006 1381753.070 1382571.762 1380995.031 3154632.405 3154598.824 3154554.179 3154572.823 3154593.857 3154630.439 3154635.811 1381376.729 1382134.771 1381352.704 1386674.947 1381412.739 1384045.902 1382953.466 3155502.002 3155439.015 3155464.003 3155497.593 3155459.034 3155496.633 3155420.371 **ELEVATION** (NAVD 88) 4813.66 4811.32 4809.69 4811.33 4809.69 4879.19 4809.61 SE/4 COR. SET #5 REBAR EE NE/4 COR SET #5 REBAR SET #5 REBAR SET #5 REBAR #5 REBAR SEC 24, 2 1/2" ALUM. CAP "LS 17662" SEC 24, 3 1/4" ALUM. CAP "LS 7242" DESCRIPTION

0.0

BASIS OF ELEVATION: Vertical control was established by differential leveling from The City of Greeley Control Network GIS Reference No. 27. The published orthometric height of No. 27 is 4997.82 ft NAVD 1988. Northing 1744019.918, Easting 3114988.848
\*NGVD 29 el=4994.78, difference between NGVD 29 and NAVD 1988 at this point is 3.04 feet.

coordinate DATUM: Geodetic coordinates were derived from GPS observations tied to Harm Station "KING". State Plane coordinates NAD 83 (1992) are Colorado Northern Zone. Project coordinates are modified State Plane coordinates in U.S. Survey Feet. To Convert Project coordinates to State Plane Coordinates, multiply by a combined scale factor of 0.9997258157 and applied at scale point Northing 1391643.180, Easting 3158130.712
"King" — Modified Colorado Northern Zone State Plane Coordinates:

Northing 1391643.180, Easting 3158130.712

NOTICE: According to Calorado 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 statement shown.

"King" — Geodetic Coordinate Data Latitude 40° 24° 25.46098 N Longitude 104° 55' 55.78931 W Ellip. Ht.= 1517.0 M

NOTE: This Project Control Diagram was prepared Weld purposes. It is not a Boundary Survey, Land of Way Plat.

for The County of Survey Plat or Right

BASIS OF BEARINGS: The East line of the Southeast quarter of Section 24, Township 5 North, Range 68 West of the 6th Principal Meridian, bearing North 00"29"32" East, between a found 2½" Aluminum Cap stamped "LS 17662" at the Southeast corner of said Section 24 and

the calculated position based on monument record ties at the East quarter corner of said Section 24.

# GEODETIC COORDINATES SUMMARY TABLE (FEET) (ADJUSTED FIELD

				ı				
	1380973.959 3154555.204	1380973.959	0.999959300	00"21"30"	4811.32	104.56.42.87278" W	40°22'40.25277" N 104°56'42.87278" W	CP-5
	1382574.282 3154631.445	1382574.282	0.999959472	00°21′31″	4809.61	104*56'41.75820" W	40°22'56.06229" N 104°56'41.75820" W	CP-4
STATE PLANE COORDINATES WHICH ARE SHOWN ABOVE BY 0.9997258157	1381755.811 3154573.843	1381755.811	0.999959383	00*21*31*	4809.69	40°22'47.97780" N 104°56'42.56872" W	40°22'47.97780" N	CP-3
(NAD 83(92), MULTIPLY THE MODIFIED	1380997.977 3154636.813		0.999959302	00°21°31″	4809.69	104*56'41.81632" W	40°22'40.48506" N   104°56'41.81632" W	CP-2
COLORADO NORTHERN ZONE, TO GET	EASTING	NORTHING	000	ANGLE	(NAVD 88)	LONGITUDE (W)	LATITUDE (N)	NAME
* SITE CONTROL COORDINATES ARE	NAD 83(92) GRID	NAD 83(	SCALE	ELEV. MAPPING	ELEV.	GEODETIC COORDINATES (NAD-83(92) (CHARN)	GEODETIC COORDINATE	POINT

SURVEYORS CERTIFICATION: 1, George G. Smith Jr., a Professional Land Surveyor in the State of Colorado, hereby certify that this Project Control Diagram was prepared under my direct supervision and checking this 24th day of October, 2007, from a Control Survey performed under my supervision and checking for and on behalf of the Department of Transportation, State of Colorado, and is not a Land Survey Plat or Right-of-Way Survey Plat and to the best of my knowledge and belief this Control Survey, as shown, meets the minimum Horizontal and Vertical Accuracy Tolerance for a CDOT Class B — Secondary Survey, and Topographic, Survey as shown, meets the applicable Minimum Horizontal and Vertical Accuracy Tolerance for a Class C or D TMOSS Survey in accordance with the CDOT Survey Manual.

**�** TIL LAND SUF SECTION CORNER AS DESCRIBED SURVEY CONTROL POINT TAMO SUR STOR

**FCEND** 

J. F. SATO AND ASSOCIATES 5898 South Rapp Street Littleton. Colorado 80120

NOTE: All found or set monuments were located or set from existing City of Greeley Control Network Monuments. The Primary Control Survey was performed at a higher degree of accuracy than the ROW survey shown on this diagram. HARRIS KOCHER SMITH 1391 Speer Blvd. - Suite 390 Denver, Colorado 80204

George G. Smith, PLS 19003

Region 4 Colorado © DOT 1420 Second Street Greeley, CD 80631 Phone 970-350-2153 FAX: 970-350-2178 Department of Transportation Date Sheet Description Revisions Date mm/yy Sheet Revisions Description

Date Date

Description Revisions

MONUMENTATION SHEET
Project Number: BRO CO30-031
Project Location: WCR 13 @ BIG THOMPSON
Project Location: RIVER

Project Code: Last Mod. Date Subset Sheets Sheet Mo. Total Mo. of Sheets 14989 05-23-08 1 of 1 4.01 11

Sheet



01. 0.

Weld County Colorado
Public Works Department
1111 H Street
Greeley, CO 80632
Phone 970-304-6496 FAX:970-304-6497



#### TABULATION OF R.O.W. MARKERS TO BE SET

NO.	NORTHING	EASTING
101	1383617.74	3154646.05
102	1383617.72	3154686.05
103	1381064.00	3154664.11

### TABULATION OF ALIQUOT CORNERS

3154616.47	1383667.21	203
3154593.86	1381033.98	201
EASTING	NORTHING	POINT NO.

D 1

SURVEYOR STATEMENT (ROW PLAN)

### TABULATION OF TEMPORARY EASEMENT POINTS TO BE STAKED

3154540.19	1382935.99	111	
3154515.19	1362936.20	110	
3154510.77	1382422.13	109	
3154535.76	1382421.91	108	
3154688.27	1382479.47	107	
3154689.56	1382862.20	106	
3154679.56	1382862.29	105 105	
3154676.27	1382479.55	104	
EASTING	NORTHING	POINT NO.	

## I.Gearge G. Smith Jr.. a professional land surveyor licensed in the State of Colarado, do hereby state to the Colarado Department of Transpartation 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 respansible charge in accordance with applicable standards of practice defined by Colarado Department of Transportation publications. This statement is not a guaranty or

### SURVEYOR STATEMENT (ROW MONUMENTS)

PLS No. 19003 granty. el

sted or implied.

i. George G. Smith Jr.. 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, adequate research, calculations and evaluation of survey evidence were performed and the Right-of-May manuscut depicted on this Right-of-May Plan were set 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. 19003

Date

HARRIS KOCHER SMITH

1391 Speer Blvd. - Suite 390

Denver, Colorado 80204

~ . . . .



J. F. SATO AND ASSOCIATES
5898 South Rapp Street
Littleton. Colorado 80120

QUANTITY OF MONUMENTS TO BE SET

010				<u>.</u>	N SPILL	HAMINUM TYPE	۱۱۳			-11
TYPE	1	14	2	24	24 3 34	34	4	5	5 5(5)	6
REFERENCE										
ROW	3									
CONTROL	•									
AL IQUOT CORNER										
PERMANENT EASEMENT										
PROJECT POINTS										
										1
WITNESS POST (REQUIRED)										

## 3. 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.

Warkers set from survey control points.

4. All R.O.W.

Survey Control Points set with a higher degree of accuracy than R.O.N. Markers.

This Right of Way plan is not a complete boundary survey of all adjoining owners and is prepared for Transportation Department purposes.

RAL NOTES

5. All center! not represent : stationing is line and offset stationing is theoretical only and may the centerline as constructed in the field. All approximate.

6. This survey does not constitute a Title search by Harris Kocher Smith to determine ownership ar easements of record. For all information regarding easements, right-of-way and title of record. Harris Kocher Smith relied upon the following commitments for Title insurance:

20072032-C-2-up-date dated May 6, 2008 at 8:00 A.M., 20072030 dated October 18, 2007 at 8:00 A.M., Supplied by Stewart Title Guaranty Campany.

Colorado Department of Region 4 HARRIS KOCHER SMITH

1391 Speer Blvd. – Suite 390

Denver, Colorado 80204 1420 Second Street Greeley, CO 80631 Phone 970-350-2153 FAX: 970-350-2178 Weld County Colorado
Public Works Department
1111 H Street
Greeley: CO 80632
Phone 970-304-6496 FAX:970-304-6497 (80. B.O.W.) J. F. SATO AND ASSOCIATES 5898 South Rapp Street Littleton. Colorado 80120 BEGIN ROW PROJECT STE M455-063 STA. 10 + 00 Transportation TEMPORARY CONSTRUCTION EASEMENT ROW ACQUISITION Date mm/yy Sheet Revisions Description CNT PT. 201 E \( \frac{1}{2} \) SEC. 24 DESCR. Initials Date PROJECT BASELINE CONTROL 36+33.34 1383667.21 10+00 Sheet Revisions STA Description 1381033.97 NORTHING EASTING 3154593.85 3154616.47 T5N, R68W, 6 P.M. T5N, R67W, 6 P.M. SW 1/4 SEC. 19 SE 1/4 SEC. 24 mm/yy Sheet Revisions Description 100 S89"30"28"E -00 28 Project Number: BRO CO30-031

Project Location: WCR 13 @ BIG THOMPSON

Project Location: RIVER

Project Location: RIVER

Project Location: RIVER

14989 05-23-08 1 of 1 5.01 11 EAST LINE DE THE SEA SEC. 24. END ROW PROJECT STE M455-063 STA. 36+ 33 2553.81° EAST QUARTER CORNER SECTION 24, T5N, R68W, 6TH P.M. SET 2 \( \frac{1}{2} \) ALUMINUM CAP STAMPED: "PLS 18003" Right of Way (3) \$89.58'11"E Plans (3)

0, 1 Colorado Department Region 4 1420 Second Street Greeley, CD 80631 Phone:970-350-2153 FAX:970-350-2178 Weld County Colorado
Public Works Department
1111 H Street
Greeley, CO 80632
Phone \$70-304-6496 FAX: 970-304-6497 of Transportation AND READY HAX CONCRETE, INC. ADDRESS: 9060 E. HWY 402 LOVELAND, CO 90637 DGM Sheet Revisions Shee+ Revisions Description E1/2 E1/2 SE 1/4 SEC. 24 T5N, R68W, 6 P.M. Initials Date mm/yy Sheet Revisions Description OWNER: CALIGNS, BARBARA U. ADDRESS: 8050 E. CR 18 LOVELAND, CO 80537 PLAN SCALE: 1"=200 200 Į OWNERSHIP SHEET

Project Number: BRO C030-031

Project Location: WCR 13 @ BIG THOMPSON

Project Location: RIVER

Project Code: Last Mcd. Date | Subset Sheet No. | Total No. | 14989 | 05-23-08 | 1 of 1 | 6.01 | 1 Right of Way Plans

CE 18 (80. EOM) SOUTHEAST CORNER
SECTION 24, T54, R88W, 6TH P.M.
FOUND 2 1/2" ALUMINUM CAP
FOUND 2 1/2" ALUMINUM CAP
STAMPED "LS 17882
IN MONUMENT BOX" T5N, R67W, 6 P. SW 1/4 SEC. 19 LARIMER COUNTY 一,但是一句句

BASIS OF BEARING:

The East line of the Southeast quarter of Section 24, Township 5 South, Range 68 West of the 6th Principal Meridian, bearing North 00°29°32" East, between a found 2½" Aluminum Cap stamped "LS 17662" at the Southeast Corner of said Section 24 and set a 2½" Aluminum Cap stamped: "PLS 19003" at the East Quarter Corner of said Section 24.

HARRIS KOCHER SMITH

1391 Speer Blvd. – Suite 390
Denver, Colorado 80204

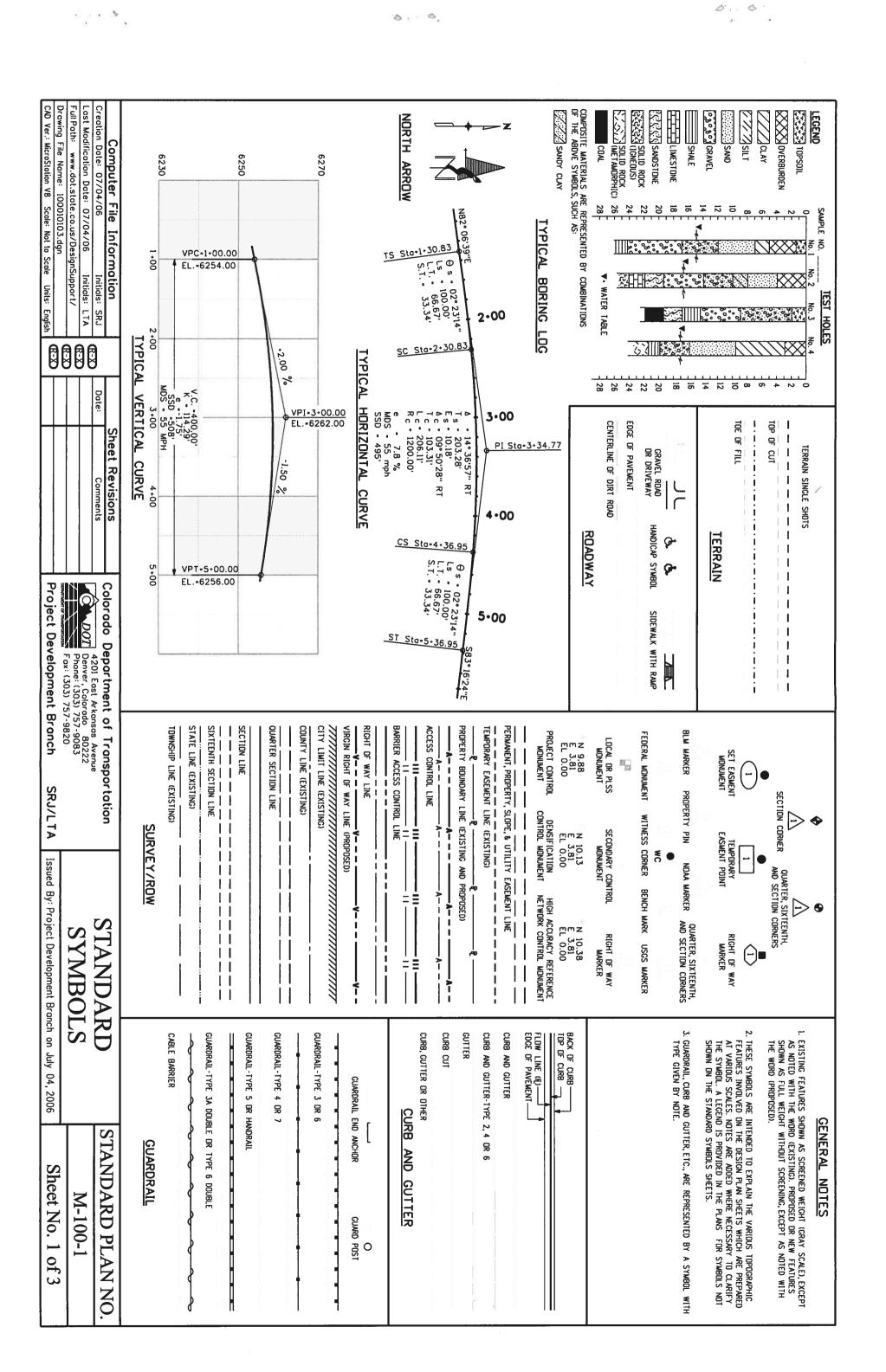
J. F. SATO AND ASSOCIATES
5898 South Rapp Street
Littleton, Colorado 80120

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ROW ACQUISITION

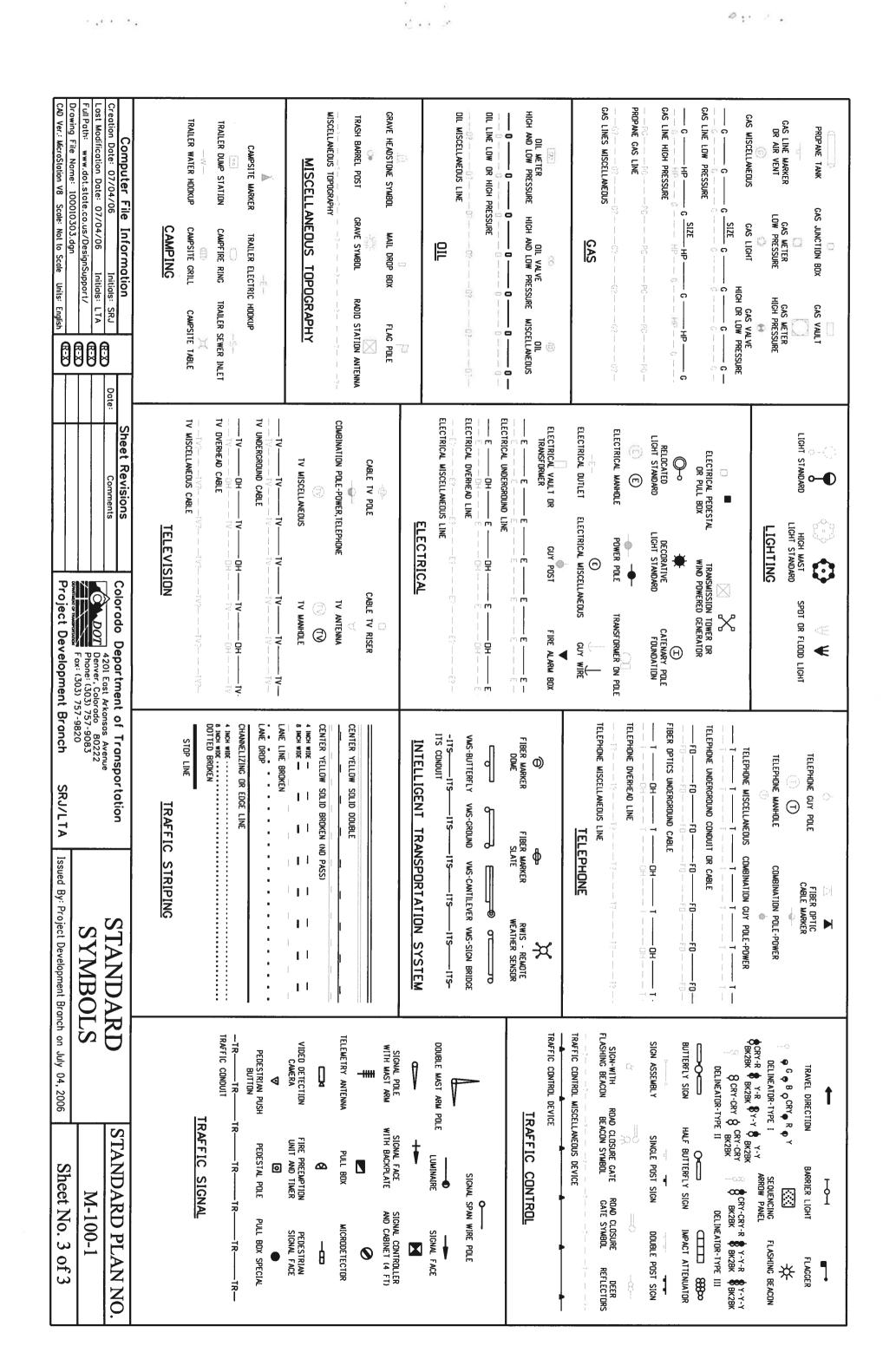
TEMPORARY CONSTRUCTION EASEMENT

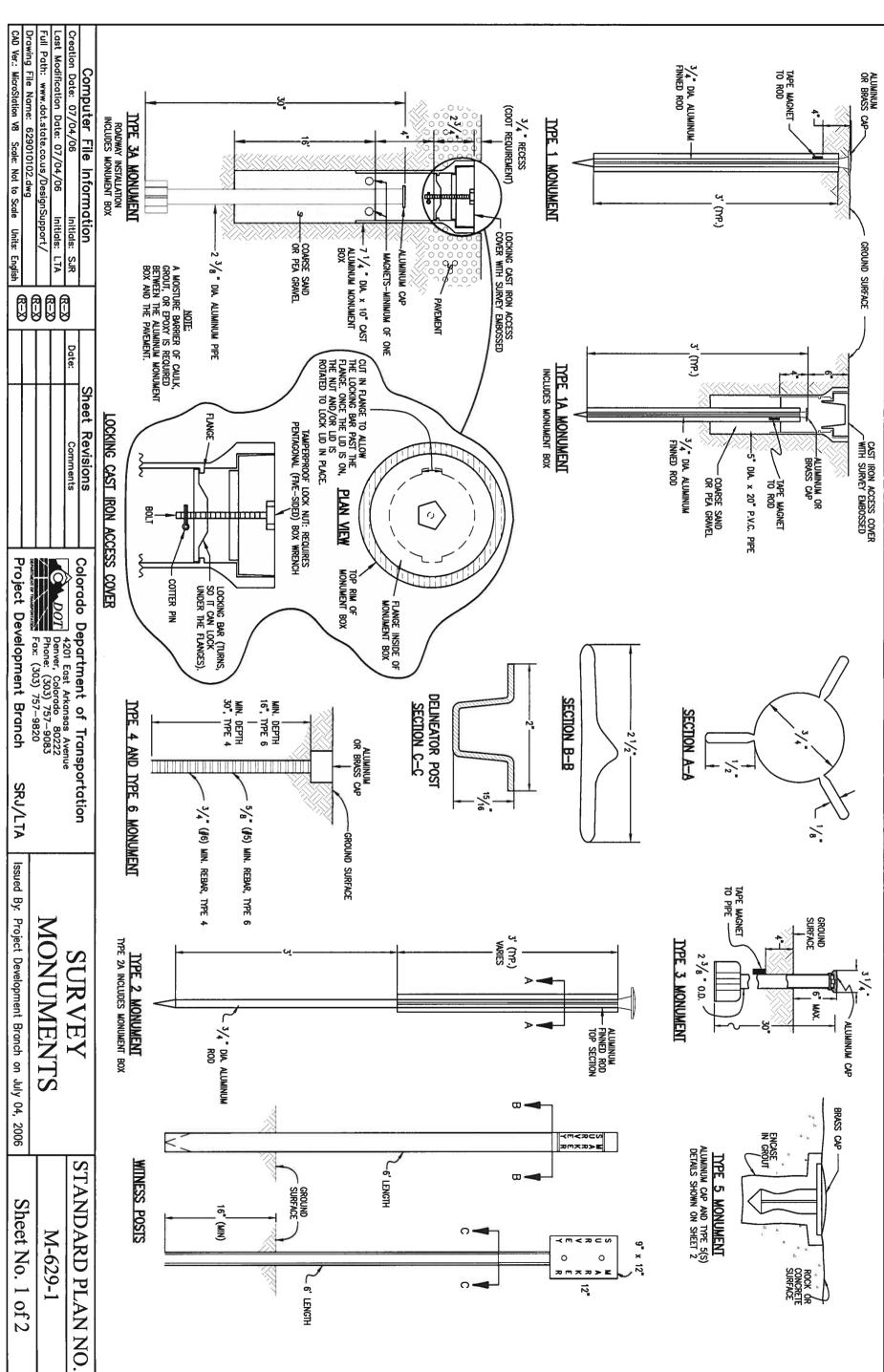
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Creation Date: 07/04/06 Initials: SRJ Last Modification Date: 07/04/06 Initials: LTA Full Path: www.dat.state.co.us/DesignSupport/ Drawing File Name: 100010203.dgn CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	RAILROAD  BOULDER UNDER 6FT GEDLOCY MISC SYMBOL MINESHAFT SYMBOL  ROCK OUTCROP  OCCOOCCOOCCOOCCOOCCOOCCOOCCOOCCOOCCO	RR TELEGRAPH POLE RR SWITCH RR GUY POLE  RR SIGNALS WITH OR WITHOUT GATE  RR SIGNAL CONTROLLER CABINET RR MISCELLANEOUS SYMBOL  RR TRACK CENTERLINE	MISCELLANEOUS BUILDING MISCELLANEOUS STRUCTURE (PRIMARY)  FOUNDATION OR PAD (CONCRETE OR BLOCK)  BUILDING STRUCTURES	ROCK, MASONRY OR MECHANICALLY STABILIZED WALL (FACE)  BRIDGE CURB  BRIDGE RAIL  BRIDGE RAIL-TYPE 3A  FLOW LINE CBC  STRUCTURES MISCELLANEOUS  STRUCTURES
Sheet Revisions  Comments  Colorado  Colorado  Project D	MISCELLANEOUS TREES  BENCH  SPRINKLER HEAD  TREES GROVE  HEDGE OR SHRUB GROVE	DECIDUOUS TREE  DECIDUOUS TREE  DECIDUOUS SHRUB  TEETER TOTTER SYMBOL  SWING SET SYMBOL  CONIFEROUS TREE  CONIFEROUS SHRUB	WIDDD FENCE WITH GATE  -/	COMBINATION WIRE FENCE WITH GATE  CHAIN LINK FENCE WITH GATE  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
SPORTATION STANDA SYMBC SRJ/LTA Issued By: Project Development	SANITARY SEWER MANHOLE SIZE, MATERIAL, DWNER  SANITARY SEWER PIPE  SANITARY SEWER PIPE  SANITARY SEWER PIPE MISCELLANEOUS	DEBRIS FENCE  -O	EROSION LOG DITCH CHECK	HAZARO WASTE  HAZARO WASTE  MONITORING WELL  CONCERN SITE  ROCK CHECK  CONCRETE WASHOUT  ROCK CHECK  CONCRETE WASHOUT  ROCK CHECK  CONCRETE WASHOUT  ROCK CHECK  STRUCTURE  ROSION PROTECTION  RIGID INLET  STORM DRAIN  PROTECTION  RIGID INLET  STORM DRAIN  ROSION CHECK  PROTECTION  ROSION CHECK
RD STANDARD PLAN NO.  M-100-1  Bronch July 04, 2006 Sheet No. 2 of 3	WATER SPIGOT WATER VALVE WATER MANHOLE  FIRE HYDRANT WATER METER WATER WELL SYMBOL  SIZE, MATERIAL, OWNER W W W W W W W W W W W W W W WATER LINE  WATER LINE  WATER MISCELLANEOUS LINE  WATER  WATER	E MISCELLANEOUS  STORM S  STORM S  STORM S	PONDS, STREAM OR RIVER  HES AND WATERWAY  IT TYPE C INLET TYPE D	METAL CONCRETE  HEADWALL  PIPE WITH END SECTION  PIPE MISCELLANEOUS  PIPES  CHECK DAM UNDER 4 FT  CHECK DAM UNDER 4 FT  CHECK DAM UNDER 4 FT  SPRING SYMBOL  SPRING SYMBOL  MISCELLANEOUS WATERWAYS  FLOW GAUGE  MISCELLANEOUS WATERWAYS

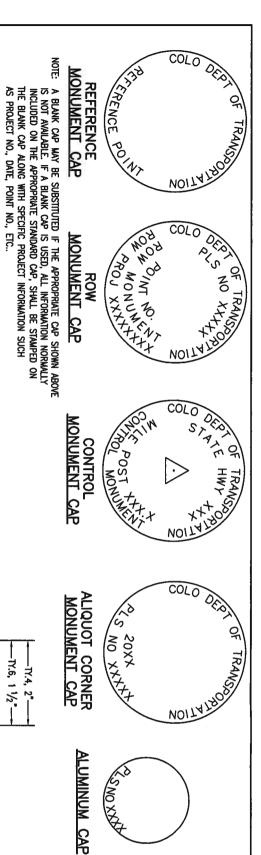
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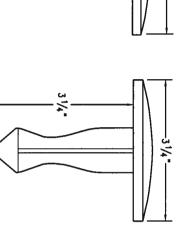




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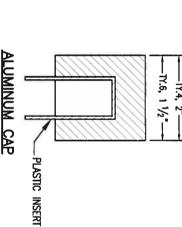
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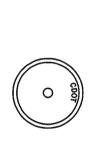


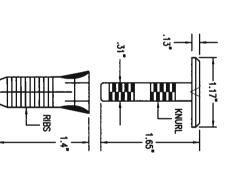


\21/32 MAGNET

-3 1/4"-







MONUMENT APPLICATION

USED WITH ALUMINUM ROD ALUMINUM CAP

FOR PLACING IN EXISTING CONCRETE OR ROCK ALUMINUM CAP

BRASS CAP
TYPE 5
FOR PLACING IN EXISTING
CONCRETE OR ROCK

FOR PLACING IN EXISTING SIDEWALK, CURB, OR GUTTER

WILL BE FURNISHED BY CDOT MARDS AS DETERMINED BY THE COLORADO STATE BOARD OF REGISTRATION OARD RULES).

ALL MONUMENTATION MATERIALS
THE MONUMENT TYPE SHALL MEET THE MINIMUM STAND,
FOR PROFESSIONAL LAND SURVEYORS RULES (STATE BO
THE CDOT SURVEY COORDINATOR SHALL APPROVE ALL F EXCEPTIONS FOR STAMPING MONUMENTS DIFFERING FROM THE STANDARDS.

TYPE 1 AND TYPE 1A ALUMINUM FINNED ROD MONUMENTS
THIS MONUMENT SHALL BE USED FOR ROW OR REFERENCE MONUMENTS OR MAY BE USED FOR AN ALUQUOT CORNER MONUMENT, WHEN USED AS AN ALUQUOT CORNER MONUMENT, INSTALLATION AND RECORD FILING REQUIREMENTS SHALL BE AS STATED FOR TYPE 3 AND TYPE 3A MONUMENTS.

MONUMENTS SHALL BE INSTALLED BY ATTACHING THE PROPER SIZE TIP TO ONE END OF A SECTION OF FINNED ROD, AND A 3 IN. LONG X 3/4 IN. DIA STAINLESS STEEL ADAPTER TO THE OTHER END. THE DRIVER IS THEN PLACED OVER THE STAINLESS STEEL ADAPTER FOR THE HAMMER TO CONTACT. TYPE 1 MONUMENTS SHALL USE A MINIMUM 3 FT. SECTION OF FINNED ROD. WHEN SUBSUAFACE ROCK OR IONCRETE IS ENCOUNTERED LESS THAN 3 FT. BELOW THE GROUND SUBFACE, THE ROD SHALL BE EMBEDDED IN THE ROCK OR IN CONCRETE AT LEAST 6 IN. AND GROUTED IN PLACE. THE ROD MAY BE SHORTENED

WHEN UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, HORIZONTAL AND VERTICAL STABILITY ARE REQUIRED. TO ACCOMMODATE THE CONDITIONS. ADDITIONAL SECTIONS OF ROD SHALL BE ADDED TO ACHIEVE STABILITY.

type 1A monument includes monument box. A locking cast iron access cover shall be installed when the monument Is located in the roadway pavement.

TYPE 2 AND TYPE 2A ALUMINUM FINNED ROD MONUMENTS THIS MONUMENT SHALL BE USED FOR HORIZONTAL AND VERTICAL CONTROL MONUMENTS, WHEN UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, ADDITIONAL SECTIONS OF ROD SHALL BE ADDED TO ACHIEVE STABILITY. HORIZONTAL AND VERTICAL STABILITY ARE REQUIRED. IN MOST SOIL CONDITIONS THE TYPE 2 MONUMENT IS EMBEDDED 6 FT. INTO THE GROUND. THE MONUMENT SHALL BE INSTALLED BY FIRST ATTACHING THE PROPER SIZE TIP TO A 3 FT. LONG  $\times$  3/4 IN. DIA, ROD, THEN DRIVING THE ROD AT LEAST 30 IN. INTO THE GROUND, ADDITIONAL 3 FT. LONG  $\times$  3/4 IN. FINNED SECTIONS SHALL BE ADDED AND DRIVEN FLUSH WITH THE GROUND UNTIL THE MONUMENT IS IN A STABLE POSITION. THE FINS ARE BENT OVER USING PLIERS TO ACCOMMODATE INSTALLING THE CAP. THE CAP IS FRMILY SEATED ONTO THE LAST FINNED SECTION OF ROD USING A DEAD BLOW SLEDGE HAMMER.

TYPE 2A MONUMENT INCLUDES MONUMENT BOX. A LOCKING CAST IRON ACCESS COVER SHALL BE INSTALLED WHEN THE MONUMENT IS LOCATED IN THE ROADWAY PAVEMENT.

TYPE 3 AND TYPE 3A ALUMINUM PIPE MONUMENTS
THIS MONUMENT SHALL BE USED FOR AN ALQUOT CORNER MONUMENT. THE INSTALLATION OF THIS MONUMENT AND RECORD
FILING SHALL BE DONE IN ACCORDANCE WITH THE STATE BOARD RULES. ALSO REFER TO THE CDOT SURVEY MANUAL AND
THE BUREAU OF LAND MANAGEMENT REQUIREMENTS FOR MONUMENT INSTALLATION. THE LAND SURVEYOR'S LICENSE NUMBER
AND THE YEAR SHALL BE STAMPED ON THE CAP.
TYPE 3A MONUMENT INCLUDES MONUMENT BOX. A LOCKING CAST IRON ACCESS COVER SHALL BE INSTALLED WHEN
THE MONUMENT IS LOCATED IN THE ROADWAY PAYMENT.

TYPE 4 ALUMINUM MONUMENT
THIS MONUMENT MAY BE INSTALLED IN LIEU OF REPLACING THE ENTIRE MONUMENT WHEN REBAR IS IN PLACE AT AN ALIQUOT CORNER LOCATION. REFER TO THE STATE BOARD RULES. A MINIMUM 2 IN. DIA. CAP SHALL BE USED ON 3/4 IN. (#6) REBAR.

TYPE 5 BRASS/ALUMINUM CAP INTINUE OF ALL OT THIS MONUMENT WAY BE INSTALLED IN LIEU OF ALL OT OR STABLE ROCK FORMATION. MONUMENT
THER COOT MONUMENTS, WHEN THE POSITION IS LOCATED IN CONCRETE

TYPE 5(S) COPPER ALLOY CAP NOTHIS MONUMENT MAY BE INSTALLED IN LIEU OF A TYPE CURB OR GUTTER, OR WHEN SETTING A TYPE 5 WOULD MONUMENT — SMALL
E 5 MONUMENT, WHEN THE POSITION IS LOCATED IN A CONCRETE SIDEWALK,
D COMPROMISE THE INTEGRITY OF THE RECEIVING STRUCTURE.

STAMPING REQUIREMENTS:

• "RP", WHEN THE APPLICATION IS A REFERENCE POINT.

"ROW", POINT NUMBER, "LS", AND REGISTRATION WHEN THE APPLICATION IS A ROW POINT. NUMBER

"PE", POINT NUMBER, "LS", AND REGISTRATION NUMBER, WHEN THE APPLICATION IS A PERMANENT EASEMENT POINT. "CP" AND A UNIQUE IDENTIFIER PROVIDED BY THE REGION SURVEY COORDINATOR, WHEN THE APPLICATION IS A CONTROL POINT.

"PP" AND POINT NUMBER, WHEN THE APPLICATION IS A PROJECT POINT.

TYPE 6 ALUMINUM MONUMENT THIS MONUMENT SHALL BE USED FOR PERMANENT EASEMENTS, PROJECT BENCH MARKS, PROJECT POINTS, AND REFERENCES. AN ALUMINUM CAP WITH A MINIMUM DIAMETER OF  $1^1/2$  in., Shall be used on 5/8 in. (#5) Minimum rebar.

WITNESS POSTS

COPPER ALLOY CAP

.47

MPE 5(S)

THE WITNESS POST WILL BE SUPPLIED BY COOT AND INSTALLATION SHALL BE INCLUDED IN THE WORK, IT SHALL BE DRIVEN WITHIN 1 FT. OF THE MONUMENT WHEN POSSIBLE. A DELINEATOR POST WITH A 9 IN. X 12 IN.METAL SIGN PANEL MAY BE USED IN LIEU OF THE PLASTIC POST. THIS POST SHALL CONFORM TO STANDARD PLAN S-612-1. A REQUIRED WITNESS POST MAY BE OMITTED WITH THE APPROVAL OF THE ENGINEER IF THE WITNESS POST LOCATION IS WITHIN A TRAVELED WAY, DRIVEWAY, OR ACCESS OPENING.

#### MONUMEN SURVEY TS

STANDARD PLAN NO.

M-629-1

Sheet No. of

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