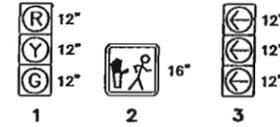


**SIGNAL FACES**



**PHASING**

- NORTHBOUND IS MAIN PHASE
- Ø1 S/B LEFT TURN
  - Ø2 N/B THROUGH
  - Ø3 W/B LEFT TURN
  - Ø4 E/B THROUGH
  - Ø5 N/B LEFT TURN
  - Ø6 S/B THROUGH
  - Ø7 E/B LEFT TURN
  - Ø8 W/B THROUGH

**NOTES**

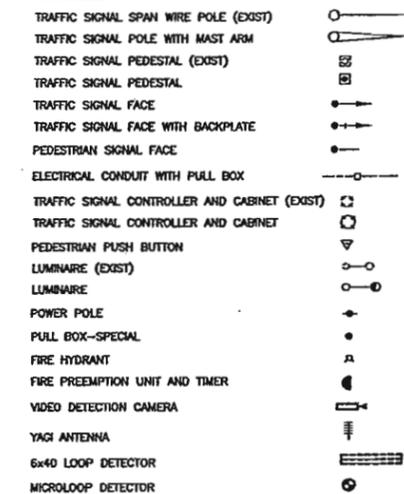
1. Controllers shall be a Type 170E-HCII. Controller Cabinet shall be a model 332D.
2. Luminaires shall be 250 Watt HPS (FLAT Lens).
3. All vehicle and pedestrian indicators shall be approved L.E.D. type.
4. All signal heads shall be YELLOW. Backplates shall be BLACK and louvered.
5. All Electrical conduit shall be schedule 80.
6. Pull boxes shall be Fiberglass Reinforced Polymer Concrete.
7. Conduit, pole, detector, and controller locations are approximate. Contractor shall call UNCC to locate the existing utilities, then contact CDOT R6 Traffic at (303) 757-9511 for "spotting" signal pole locations in the field. Contractor shall pothole to determine conflicts with existing utilities and the proposed signal pole locations. Contractor shall notify the Project Engineer immediately if a conflict is determined. TRAFFIC SIGNAL POLES AND MAST ARMS SHALL NOT BE ORDERED UNTIL THE EXACT LOCATION OF POLE BASES IS FIELD VERIFIED.
8. Controller shall include 6 Pedestrian Push Buttons and signs which shall not be paid for separately but shall be included in the cost of the controller. Pedestrian Push Button Signs shall be decal type.
- \* 9. The Removal of the existing signal system including their bases, the existing control cabinet, and any other existing signal items that conflict with the new signal system, shall be paid for under the "REM TRAF SIG EQUIPMENT" item.
- \*\*10. Reset of the Yagi Antenna, and all corresponding electronics, cable and connectors to reestablish communications shall be paid under the "Res Coordination Unit" item.
11. Caisson lengths shall be in accordance with CDOT Standards S-614-40 and S-614-40A
- \*12. All existing Signal Equipment shall remain the property of CDOT and shall be returned to R6 Headquarters yard. Contact R6 Signal shop for delivery.
13. Traffic signal poles, mast arms and light posts shall be POWDER COATED "Broomfield Gray" No. RAL7035.

**TABULATION OF QUANTITIES**

(CARRIED FORWARD TO THE SUMMARY OF APPROXIMATE QUANTITIES)

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
*202	REM TRAF SIG EQUIPMENT	LS	1
203	POTHOLING	HR	50
210	RES FLASHING BEACON	EA	2
210	RES FIRE PREEMPTION UNIT AND TIMER	EA	1
*210	RES COORDINATION UNIT	EA	1
503	DRILLED CAISSON (36 IN)	LF	36
503	DRILLED CAISSON (48 IN)	LF	21
503	DRILLED CAISSON (54 IN)	LF	21
613	2 IN ELEC COND (BORED)	LF	12675
613	3 IN ELEC COND (BORED)	LF	910
613	2 IN ELEC COND (P)	LF	630
613	3 IN ELEC COND (P)	LF	265
613	PULL BOX(SPECIAL)	EA	5
613	PULL BOX(24"x36"x24")	EA	10
613	PULL BOX(24"x36"x18")	EA	4
613	PULL BOX(30"x48"x24")	EA	6
613	WIRING	LS	1
613	LUMIN HPS (250 W)	EA	4
614	PEDESTRIAN SIGNAL FACE(16)	EA	6
614	TRAF SIG FACE (12-12-12)	EA	25
614	LOOP DETECTOR WIRE (PREFAB) SPECIAL	LF	2478
614	LOOP DETECTOR WIRE	LF	708
614	DETECT AMP (LOOP) (4)	EA	2
614	DETECT (MICRO)(NON-INVASIVE)	EA	6
614	SIG-LIGHT POLE STEEL (1-50 FT)	EA	1
614	SIG-LIGHT POLE STEEL (1-55 FT)	EA	1
614	SIG-LIGHT POLE STEEL (1-60 FT)	EA	1
614	SIG-LIGHT POLE STEEL (1-75 FT)	EA	1
614	TRAFFIC SIGNAL CONTROLLER(TYPE 170E-HCII)	EA	1
630	TRAFFIC SIGNAL (TEMP)	LS	1

**LEGEND**



**Computer File Information**

Creation Date:	01/27/2000	Initials:	PJN
Last Modification Date:	01/20/2006	Initials:	PJN
Full Path:	121_SHO M145_006_Broomfield Project SH121 & SH128		
Drawing File Name:	Signal Plan.dwg		
Scale:	1 INCH = 40 FEET		

**Sheet Revisions**

(R-1)	10MAR06	REVISED NOTE 13	PJNIII
0000			
0000			
0000			

Colorado Department of Transportation

Region 6 Traffic  
2000 S. Holly Street  
Denver, CO 80222  
Phone: 303-757-9511  
FAX: 303-757-9907

**As Constructed**

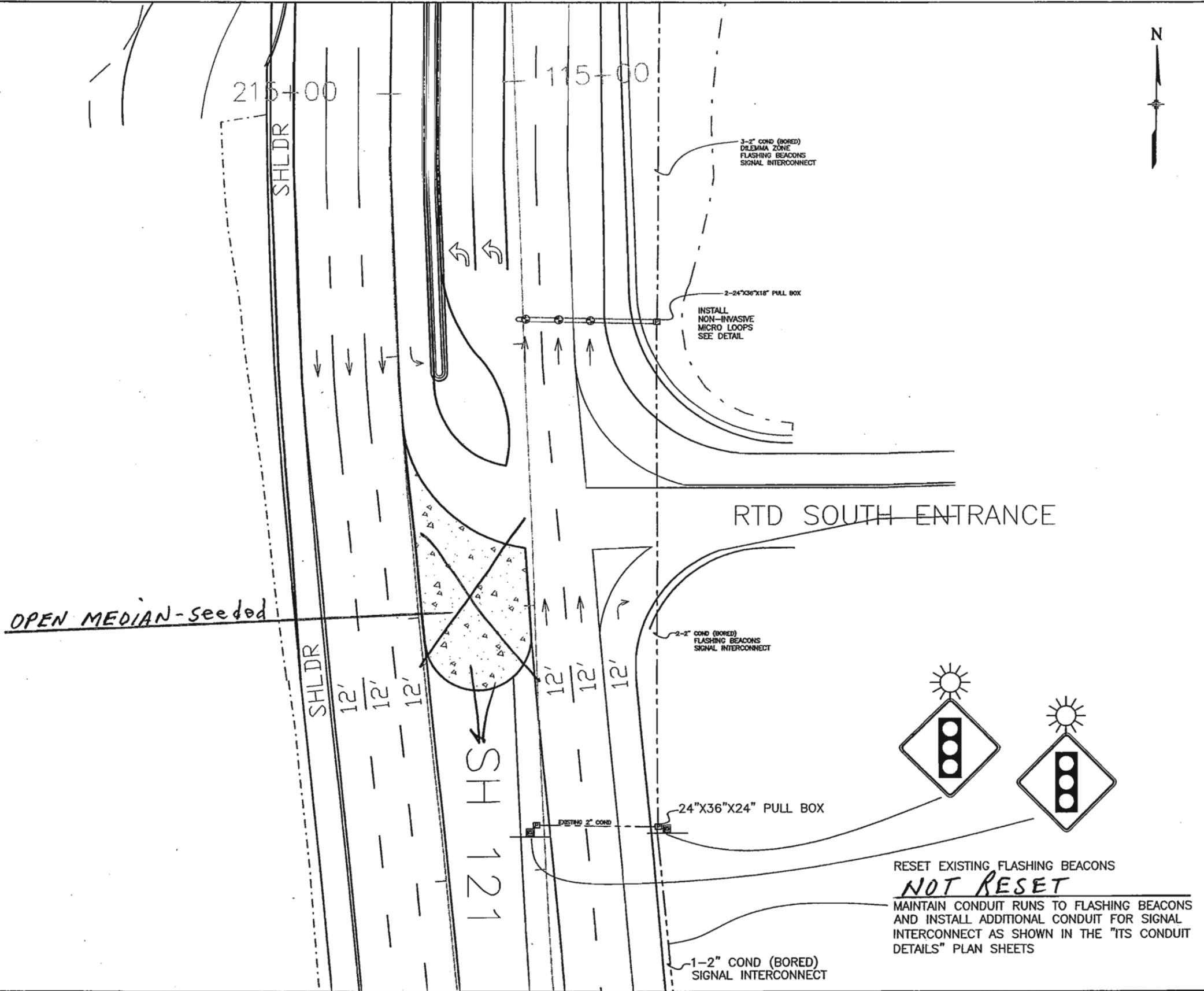
No Revisions:	
Revised:	7/9/07
Void:	

**SH121 & SH128 SIGNAL PLAN**

Designer:	PJN	Structure Numbers:	
Detailer:	PJN	Sheet Subset:	Subset Sheet Number: 1 OF 3

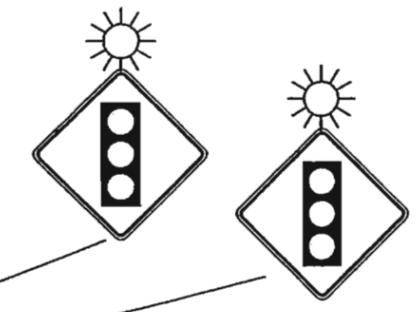
**Project No./Code**

SHO M145-006
14416
Sheet Number 113A



**LEGEND**

- TRAFFIC SIGNAL SPAN WIRE POLE (EXIST)
- TRAFFIC SIGNAL POLE WITH MAST ARM
- TRAFFIC SIGNAL PEDESTAL (EXIST)
- TRAFFIC SIGNAL PEDESTAL
- TRAFFIC SIGNAL FACE
- TRAFFIC SIGNAL FACE WITH BACKPLATE
- PEDESTRIAN SIGNAL FACE
- ELECTRICAL CONDUIT WITH PULL BOX
- TRAFFIC SIGNAL CONTROLLER AND CABINET (EXIST)
- TRAFFIC SIGNAL CONTROLLER AND CABINET
- PEDESTRIAN PUSH BUTTON
- LUMINAIRE (EXIST)
- LUMINAIRE
- POWER POLE
- PULL BOX-SPECIAL
- FIRE HYDRANT
- FIRE PREEMPTION UNIT AND TIMER
- VIDEO DETECTION CAMERA
- YAGI ANTENNA
- 6x40 LOOP DETECTOR
- MICROLOOP DETECTOR



RESET EXISTING FLASHING BEACONS  
**NOT RESET**  
 MAINTAIN CONDUIT RUNS TO FLASHING BEACONS AND INSTALL ADDITIONAL CONDUIT FOR SIGNAL INTERCONNECT AS SHOWN IN THE "ITS CONDUIT DETAILS" PLAN SHEETS

Computer File Information	
Creation Date:	01/27/2000 Initials: PJN
Last Modification Date:	01/20/2006 Initials: PJN
Full Path:	121_SHO M145_006_Broomfield Project SH121 & SH128
Drawing File Name:	Signal Plan.dwg
Scale:	1 INCH = 40 FEET

Sheet Revisions	

Colorado Department of Transportation



Region 6 Traffic  
 2000 S. Holly Street  
 Denver, CO 80222

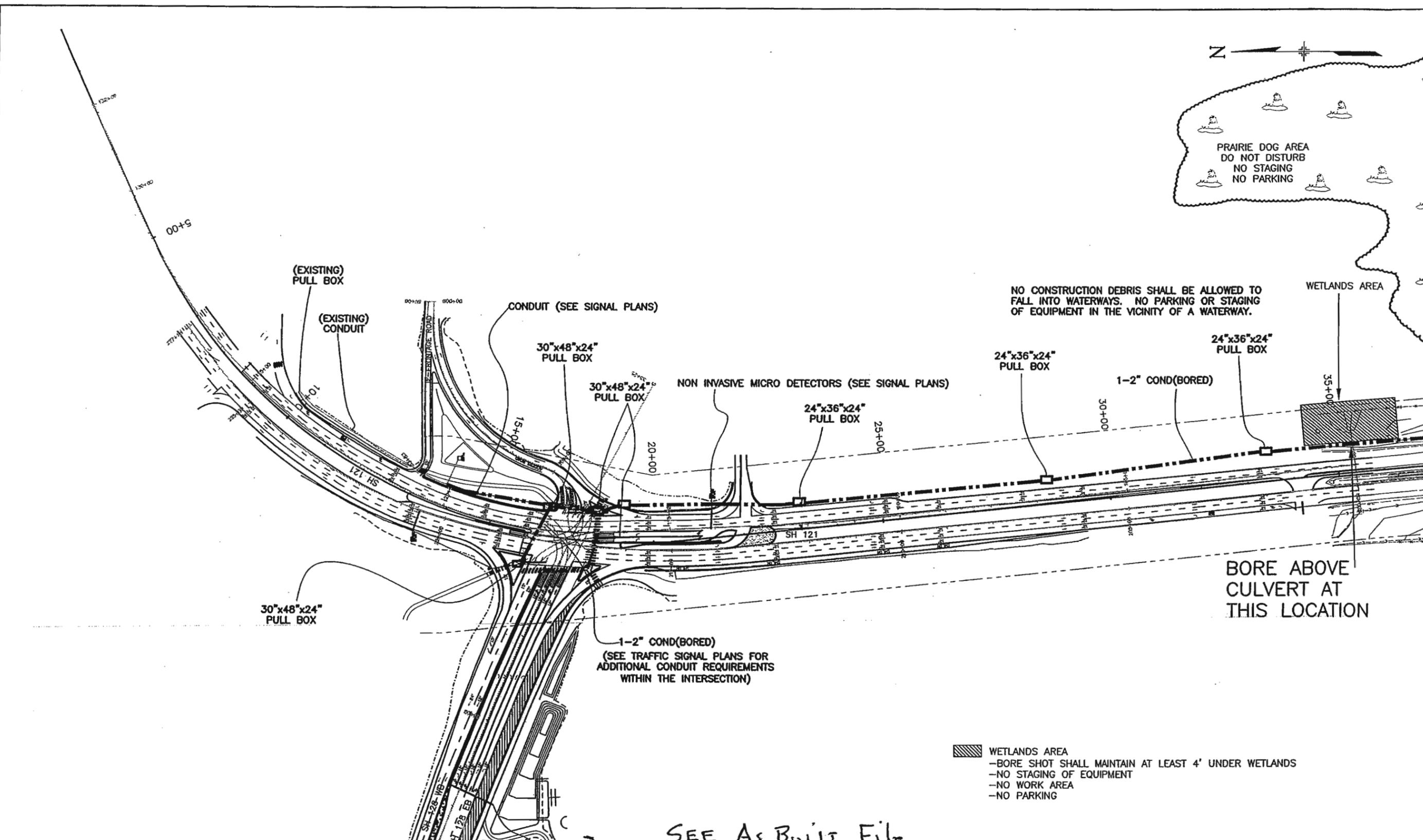
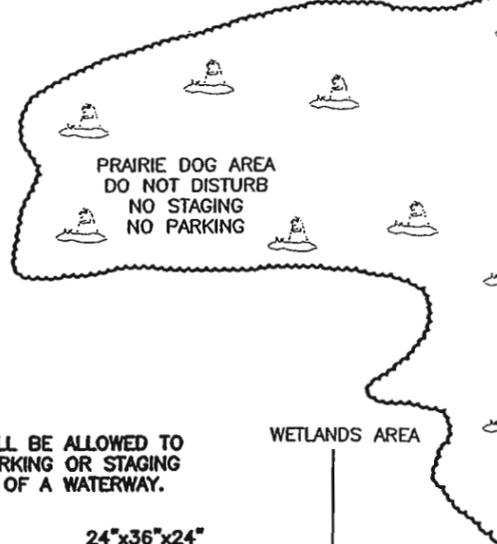
Phone: 303-757-9511  
 FAX: 303-757-9907

As Constructed
No Revisions:
Revised: 2/9/07
Void:

SH121 & SH128 SIGNAL PLAN	
Designer: PJN	Structure Numbers
Detailer: PJN	
Sheet Subset:	Subset Sheet Number: 2 OF 3

Project No./Code
SHO M145-006
14416
Sheet Number 114





NO CONSTRUCTION DEBRIS SHALL BE ALLOWED TO FALL INTO WATERWAYS. NO PARKING OR STAGING OF EQUIPMENT IN THE VICINITY OF A WATERWAY.

BORE ABOVE CULVERT AT THIS LOCATION

- WETLANDS AREA
- BORE SHOT SHALL MAINTAIN AT LEAST 4' UNDER WETLANDS
- NO STAGING OF EQUIPMENT
- NO WORK AREA
- NO PARKING

SEE As BUILT File

<b>Computer File Information</b>		<b>Sheet Revisions</b>		<b>Colorado Department of Transportation</b>		<b>As Constructed</b>		<b>ITS CONDUIT DETAILS</b>		<b>Project No./Code</b>	
Creation Date:	01/27/2000	Initials:	PJN				No Revisions:			SHO M145-006	
Last Modification Date:	01/07/2006	Initials:	PJN				Revised:	7/9/07		14416	
Full Path:	121_Broomfield Project SH121 & SH128						Void:			Sheet Number 128	
Drawing File Name:	000 ITS Conduit Plan.dwg							Designer:	PJN	Structure Numbers:	
Scale:	1:200							Detailer:	PJN	Subst Sheet Number:	1 OF 4
								Sheet Subst:			



Region 6 Traffic  
2000 S. Holly Street  
Denver, CO 80222  
Phone: 303-757-9511  
FAX: 303-757-9907