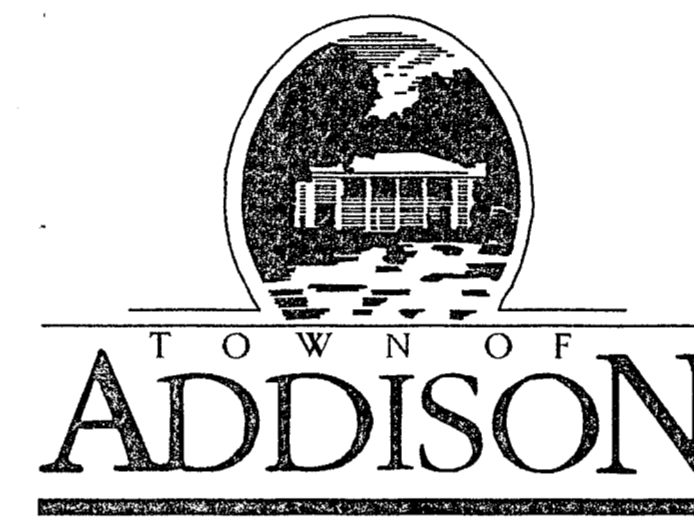


SIGNAL DESIGN PLANS

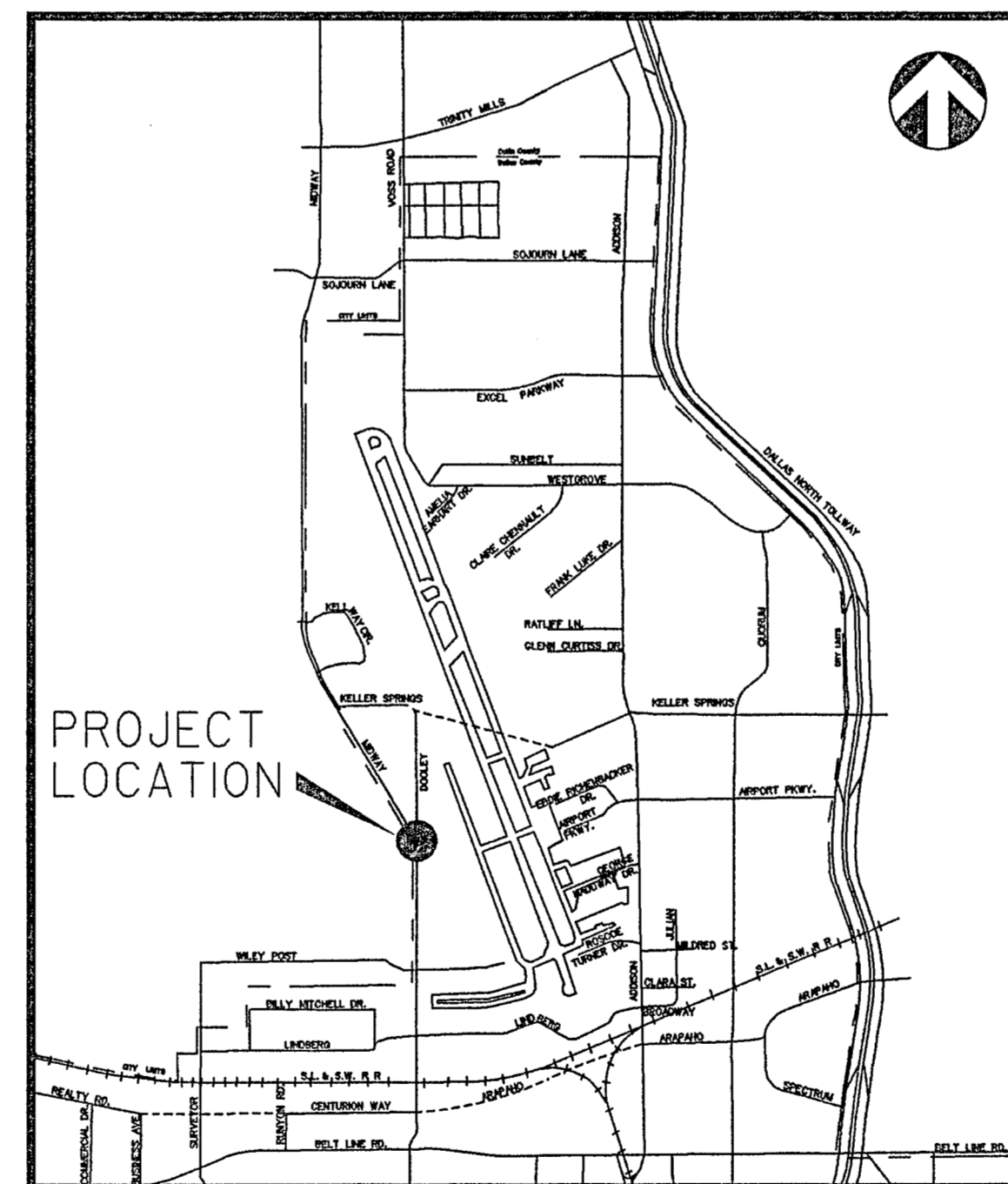
FOR

MIDWAY ROAD AT DOOLEY ROAD



INDEX OF DRAWINGS

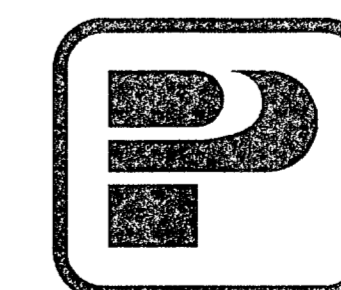
<u>SHEET DESCRIPTION</u>	<u>PAGE #</u>
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SIGNAL LAYOUT PLANS - CONVENTIONAL LOOP DETECTORS	2
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CONTROLLER FOUNDATION / GROUND BOX INSTALLATION	11
TRANSFORMER BASE DETAILS	12
SERVICE POLE AND GROUNDING DETAILS	13
TRAFFIC CONTROL PLAN DETAILS	14-15



LOCATION MAP

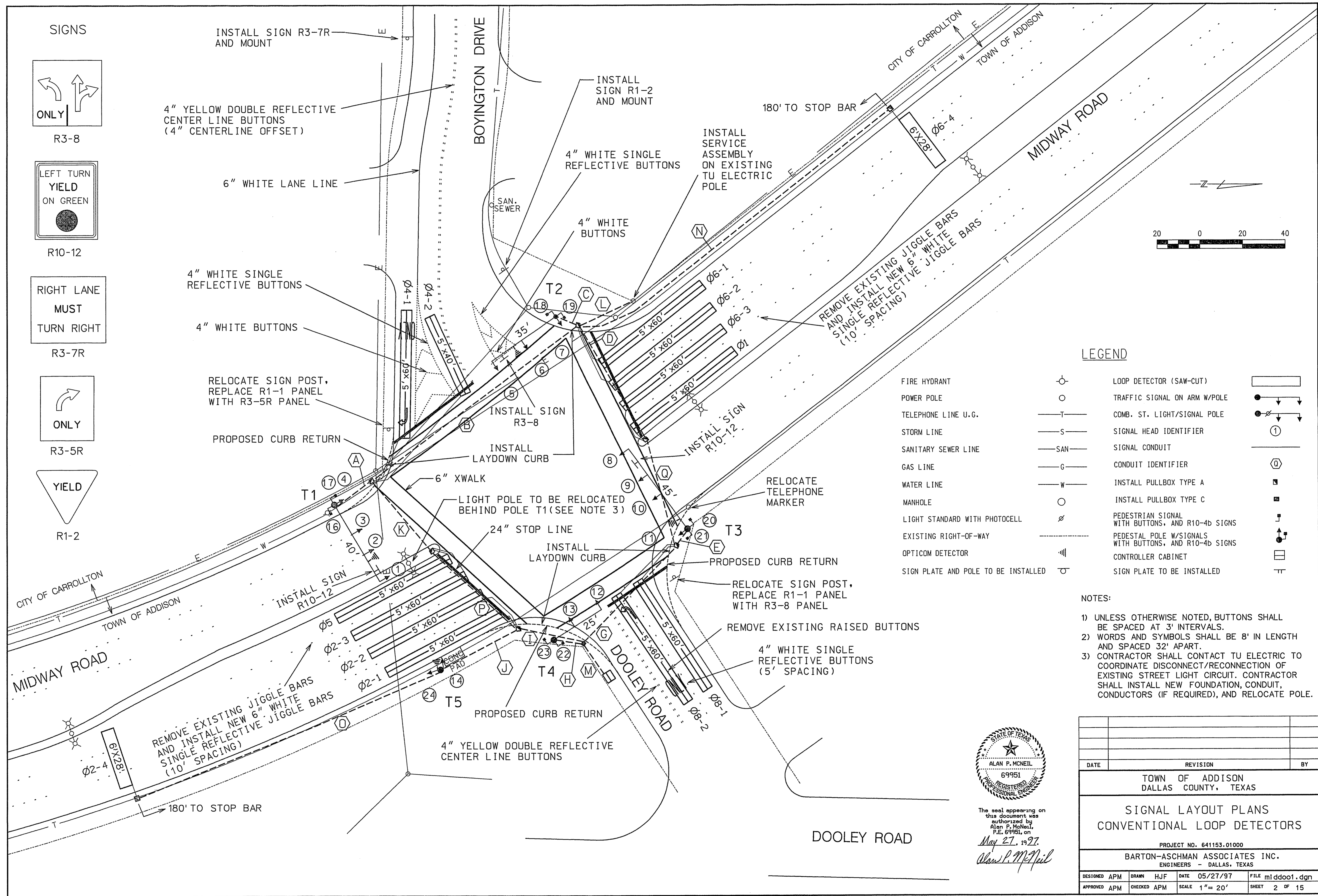


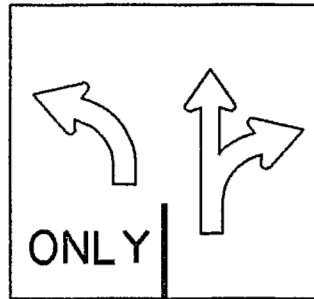
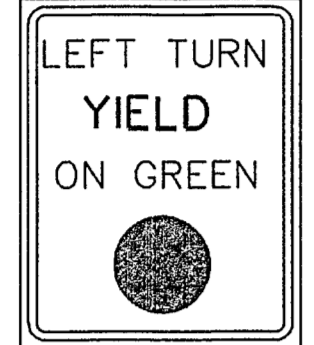
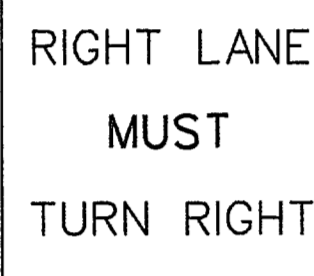
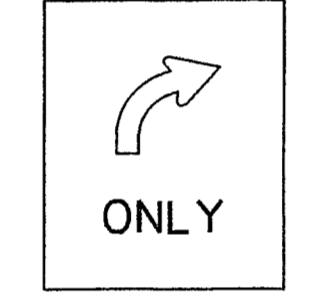
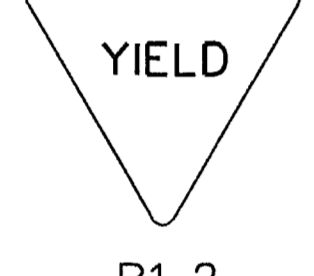
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Alan P. McNeil



























BARTON-ASCHMAN ASSOCIATES, INC.

5485 BELT LINE RD. #199 • DALLAS, TEXAS 75240 • (972) 991-1900
PARSONS TRANSPORTATION GROUP



- SIGNS**
-  R3-8
 -  R10-12
 -  R3-7R
 -  R3-5R
 -  R1-2

- LEGEND**
-  FIRE HYDRANT
 -  POWER POLE
 -  TELEPHONE LINE U.G.
 -  STORM LINE
 -  SANITARY SEWER LINE
 -  GAS LINE
 -  WATER LINE
 -  MANHOLE
 -  LIGHT STANDARD WITH PHOTOCELL
 -  EXISTING RIGHT-OF-WAY
 -  OPTICOM DETECTOR
 -  SIGN PLATE AND POLE TO BE INSTALLED
 -  LOOP DETECTOR (SAW-CUT)
 -  TRAFFIC SIGNAL ON ARM W/POLE
 -  COMB. ST. LIGHT/SIGNAL POLE
 -  SIGNAL HEAD IDENTIFIER
 -  SIGNAL CONDUIT
 -  CONDUIT IDENTIFIER
 -  INSTALL PULLBOX TYPE A
 -  INSTALL PULLBOX TYPE C
 -  PEDESTRIAN SIGNAL WITH BUTTONS, AND R10-4b SIGNS
 -  PEDESTAL POLE W/SIGNALS WITH BUTTONS, AND R10-4b SIGNS
 -  CONTROLLER CABINET
 -  SIGN PLATE TO BE INSTALLED

- NOTES:**
- 1) UNLESS OTHERWISE NOTED, BUTTONS SHALL BE SPACED AT 3' INTERVALS.
 - 2) WORDS AND SYMBOLS SHALL BE 8" IN LENGTH AND SPACED 32' APART.
 - 3) CONTRACTOR SHALL CONTACT TU ELECTRIC TO COORDINATE DISCONNECT/RECONNECTION OF EXISTING STREET LIGHT CIRCUIT. CONTRACTOR SHALL INSTALL NEW FOUNDATION, CONDUIT, CONDUCTORS (IF REQUIRED), AND RELOCATE POLE.



The seal appearing on this document was authorized by Alan P. McNeil, P.E. 69951, on May 27, 1997.
 Alan P. McNeil

DATE	REVISION	BY
TOWN OF ADDISON DALLAS COUNTY, TEXAS		
SIGNAL LAYOUT PLANS CONVENTIONAL LOOP DETECTORS		
PROJECT NO. 641153.01000 BARTON-ASCHMAN ASSOCIATES INC. ENGINEERS - DALLAS, TEXAS		
DESIGNED APM	DRAWN HJF	DATE 05/27/97
APPROVED APM	CHECKED APM	SCALE 1" = 20'
		FILE mlddoo1.dgn
		SHEET 2 OF 15

CONDUIT RUNS														
RUN NO.	QUANTITY	SIZE	TYPE	METHOD	*6 XHHW	*6 BARE	*18 SH. PR.	4 CNDR OPTICOM	7 CNDR	12 CNDR	19 CNDR	CONDUIT LENGTH	CABLE LENGTH	RUN NO.
A	1	3"	PVC	Trench		1		1				23	28	A
B	1	3"	PVC	Bored								124	134	B
C	1	3"	PVC	Trench		1		1				15	20	C
D	1	3"	PVC	Bored	2	1	3	1				65	75	D
E	1	3"	PVC	Trench		1		1				13	18	E
F														F
G	1	3"	PVC	Bored	2	1	7	2				66	76	G
H	1	3"	PVC	Trench		1				1		17	22	H
I	1	3"	PVC	Trench		1	7	2				24	29	I
J	1	3"	PVC	Trench		1	1	1				45	55	J
K	1	3"	PVC	Bored		1	2	1				46	56	K
L	1	2"	PVC	Trench	2	1						31	36	L
M	3	3"	PVC	Trench	2	1	14	4				25	30	M
N	1	2"	PVC	Trench			1			2	3	183	193	N
O	1	2"	PVC	Trench			1					158	168	O
P	1	3"	PVC	Bored		1	4	1				54	64	P
Q	1	3"	PVC	Bored	2	1	5	1				57	67	Q
TOTAL (LF)					568	576	2499	713			166	599		

CABLE TERMINATION CHART										
CABLE CONDUCTOR	T-1 (19 CNDR)		T-2 (19 CNDR)		T-3 (19 CNDR)		T-4 (12 CNDR)		T-5 (12 CNDR)	
	S.H. NO.	INDICATION	S.H. NO.	INDICATION	S.H. NO.	INDICATION	S.H. NO.	INDICATION	S.H. NO.	INDICATION
BLACK	1	← Y			8	← Y	SPARE		14	Y →
WHITE		COMMON		COMMON		COMMON		COMMON		COMMON
RED	1-4	R	5-7	R	8-11	R	12-13	R	14	R
* GREEN	1-4	G	5-7	G	8-11	G	12-13	G	14	G
ORANGE	1-4	Y	5-7	Y	8-11	Y	12-13	Y	14	Y
BLUE	1	← G			8	← G	PB 22	∅2	14	G →
WHT/BLK	SPARE		SPARE		SPARE			PB COM	SPARE	
RED/BLK	16	DW	18	DW	20	DW	22	DW	24	R
GRN/BLK	16	W	18	W	20	W	22	W	24	G
ORN/BLK	SPARE		SPARE		SPARE		23	DW	24	Y
BLUE/BLK	SPARE		SPARE		SPARE		23	W	SPARE	
BLK/WHT	PB 16	∅4	PB 18	∅6	PB 20	∅8	PB 23	∅4	SPARE	
RED/WHT	17	DW	19	DW	21	DW				
GRN/WHT		PB COM		PB COM		PB COM				
BLUE/WHT	17	W	19	W	21	W				
BLK/RED	SPARE		SPARE		SPARE		∅2			
WHT/RED	PB 17	∅6	PB 19	∅8	PB 21	∅2				
ORN/RED	SPARE		SPARE		SPARE					
BLUE/RED	SPARE		SPARE		SPARE					

* ALSO FOR ←G ON SIGNAL HEADS 5 AND 12

SIGNAL HEAD AND POLE PLACEMENT

POLE NUMBER	A	B	C	D	E	FND
T-1	4	15	11	14	40	36-A
T-2	5	17	17		35	30-A
T-3	5	19	11	15	45	36-A
T-4	7	10	15		25	30-A
T-5	4					PEDESTAL POLE 24-A

POLE NUMBER	4-CNDR	5-CNDR	7-CNDR
T-1	60	125	65
T-2	50	130	
T-3	35	130	70
T-4		55	50
T-5	15	15	15
TOTAL (LF)	160	455	200

NO	TYPE	PHASE	BACKPLATE		12" VEH SEC	PED SIG SEC
			3 SEC	4 SEC		
1	V4LT*	∅1+∅6		1	4	
2	V3	∅6	1		3	
3	V3	∅6	1		3	
4	V3	∅6	1		3	
5	V4LT	∅8		1	4	
6	V3	∅8	1		3	
7	V3	∅8	1		3	
8	V4LT*	∅2+∅5		1	4	
9	V3	∅2	1		3	
10	V3	∅2	1		3	
11	V3	∅2	1		3	
12	V4LT	∅4		1	4	
13	V3	∅4	1		3	
14	V4RT*	∅4+∅L A		1	4	
16,23	PED	∅4				2
17,18	PED	∅6				2
19,20	PED	∅8				2
21,22	PED	∅2				2
24 Δ	V3	∅2			3	
TOTALS			9	5	50	8

* -Use green/yellow fiber optic turn arrow.
Δ NO BACKPLATE REQUIRED

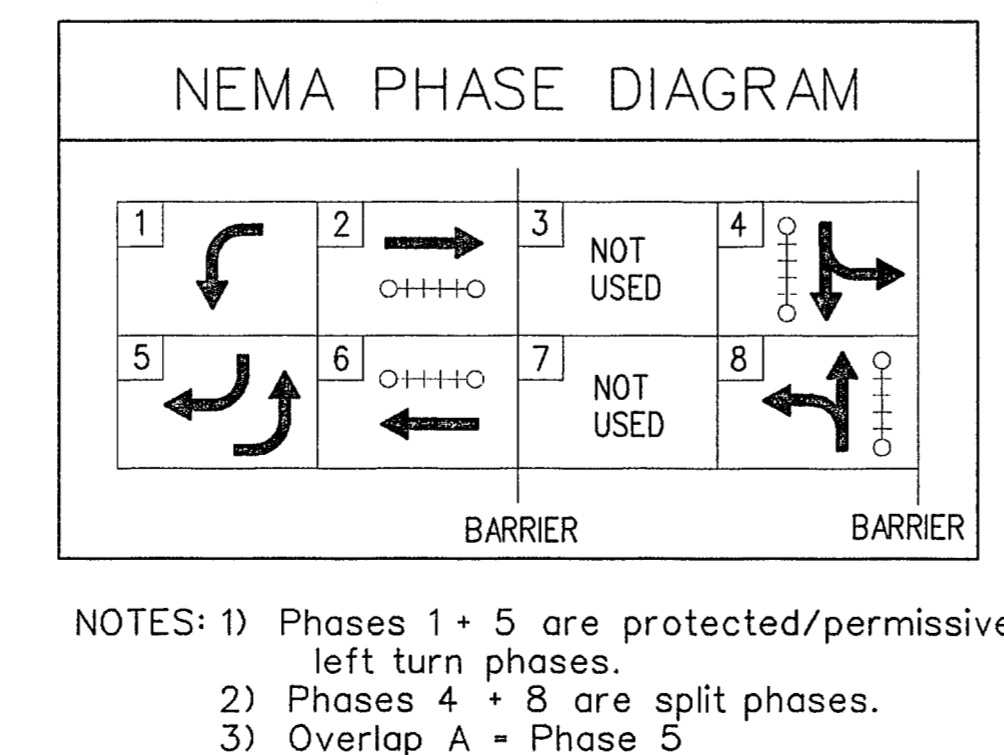
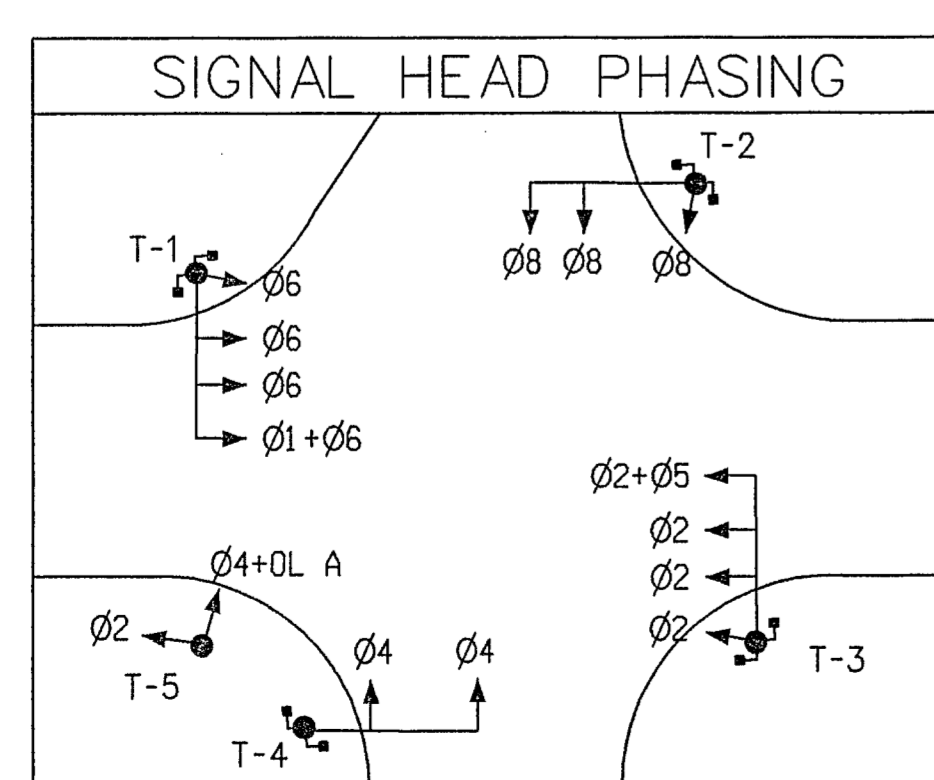
SIGN SUMMARY			
LOCATION	SIGN NO.	TYPE OF SIGN	SIZE
POLE T-1	R10-12	LEFT TURN YIELD	30"x36"
POLE T-3	R10-12	LEFT TURN YIELD	30"x36"
S.W. CORNER	R3-5R	RIGHT ONLY	30"x30"
200' WEST OF INTERSECTION	R3-7R	RIGHT LANE MUST TURN RIGHT	30"x30"
475' S. OF INTERSECTION NORTHBOUND	W3-3	SIGNAL AHEAD	36"x36"
POLE T-2	R3-8	LANE ASSIGNMENT	30"x36"
N.E. CORNER	R3-8	LANE ASSIGNMENT	30"x36"
N.W. CORNER	R1-2	YIELD	36"x36"x36"

LAYDOWN CURB SUMMARY	
LOCATION	FT.
S.W. CORNER	12.0
N.W. CORNER	12.0
S.E. CORNER	12.0
N.E. CORNER	12.0
TOTAL	48.0

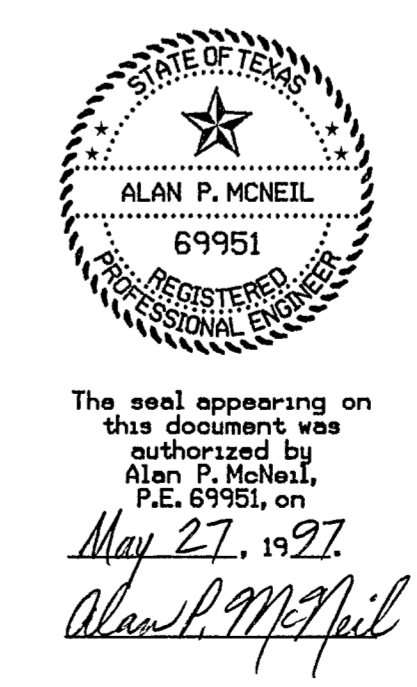
DETECTOR DETAILS						
LOOP	DIMENSION	TYPE	TURNS	COLOR	SAW CUT	1" PVC
∅1	5'x60'	QUAD	2-4-2	GREEN	193	4
∅2-1	5'x60'	QUAD	2-4-2	WHITE	194	4
∅2-2	5'x60'	QUAD	2-4-2	BLACK	210	4
∅2-3	5'x60'	QUAD	2-4-2	ORANGE	206	4
∅2-4	6'x28'	STND	3	WHITE	70	6
∅8-1	5'x60'	QUAD	2-4-2	WHITE	210	4
∅8-2	5'x60'	QUAD	2-4-2	BLACK	222	4
∅4-1	5'x60'	QUAD	2-4-2	WHITE	212	4
∅4-2	5'x40'	QUAD	2-4-2	BLACK	187	4
∅5	5'x60'	QUAD	2-4-2	GREEN	194	4
∅6-1	5'x60'	QUAD	2-4-2	WHITE	203	4
∅6-2	5'x60'	QUAD	2-4-2	BLACK	215	4
∅6-3	5'x60'	QUAD	2-4-2	ORANGE	205	4
∅6-4	6'x28'	STND	3	WHITE	70	6
TOTAL (LF)					2591	60

GROUND BOX SUMMARY	
TYPE	EA
A	8
C	1

CONDUIT SUMMARY		
SIZE	TYPE	LENGTH (LF)
1" PVC	Trench	60
2" PVC	Trench	372
3" PVC	Trench	187
3" PVC	Bore	412



PAVEMENT MARKINGS		
TYPE	QUANTITY	UNIT
6" SOLID WHITE ALKYD THERMOPLASTIC	850	FT
24" SOLID WHITE ALKYD THERMOPLASTIC	185	FT
SOLID WHITE ALKYD THERMO. RIGHT ARROW	2	EA
SOLID WHITE ALKYD THERMO. "ONLY"	2	EA
4" YELLOW BIDIRECTIONAL RETROREFLECTIVE RAISED BUTTON	164	EA
4" WHITE UNIDIRECTIONAL RETROREFLECTIVE RAISED BUTTON	72	EA
4" WHITE RAISED BUTTON	26	EA
6" x 6" WHITE UNIDIRECTIONAL RETROREFLECTIVE JIGGLE BAR	24	EA
REMOVE RAISED BUTTON / JIGGLE BAR	30	EA



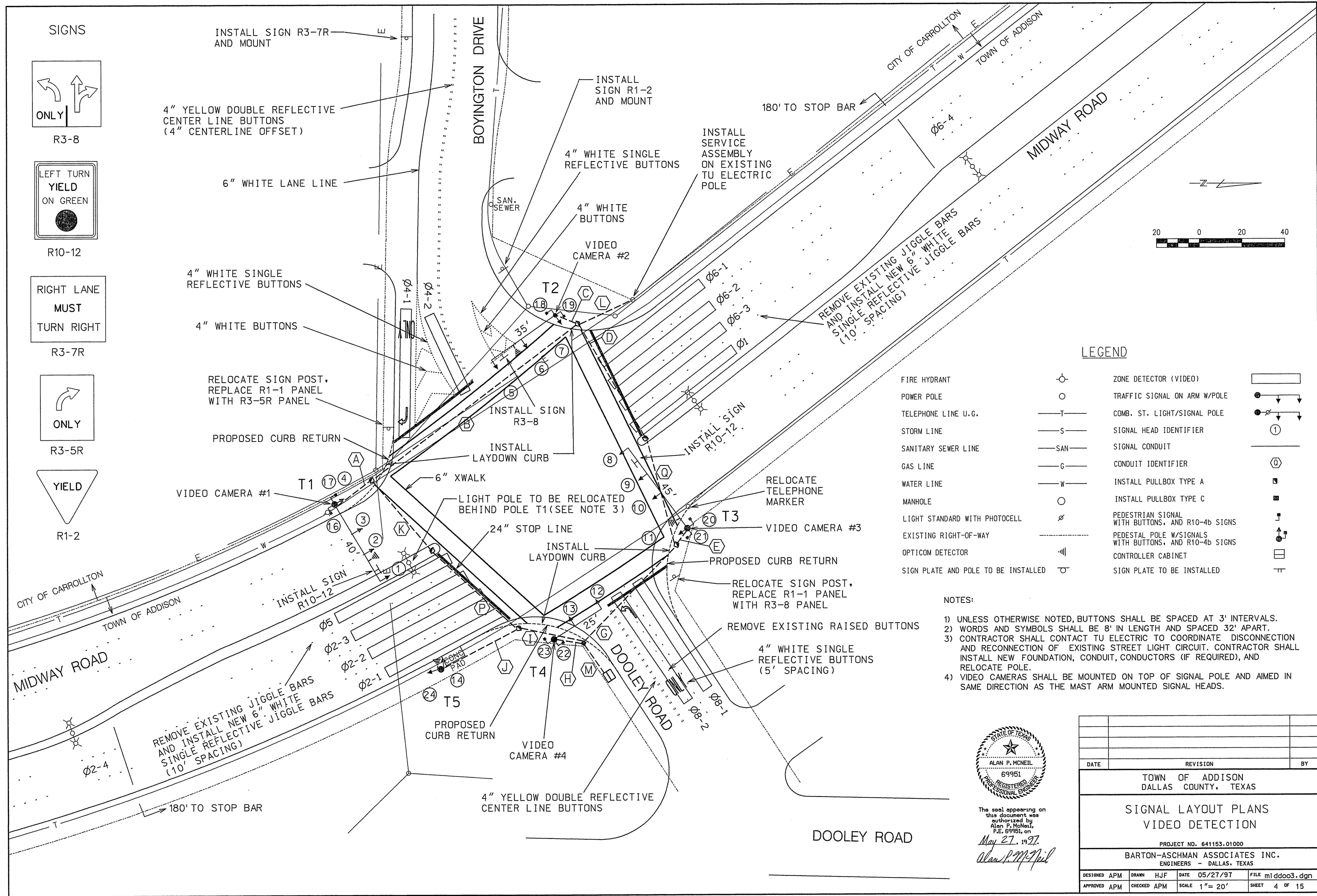
DATE	REVISION	BY

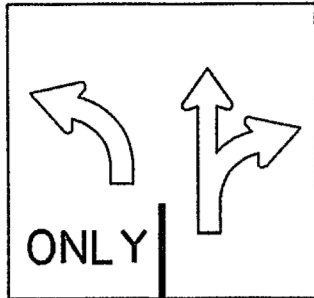
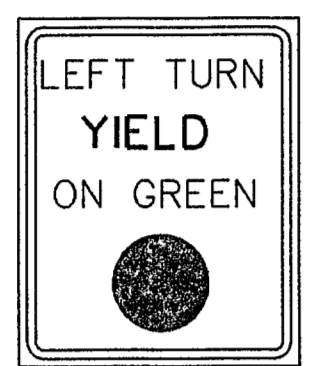
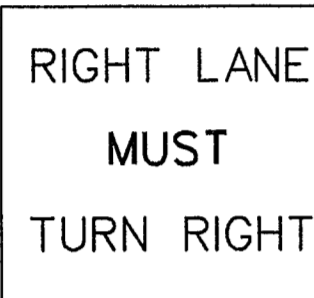
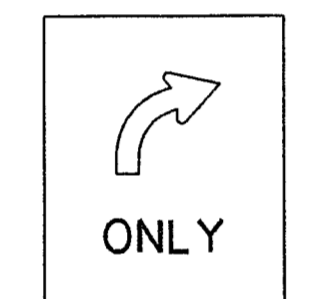
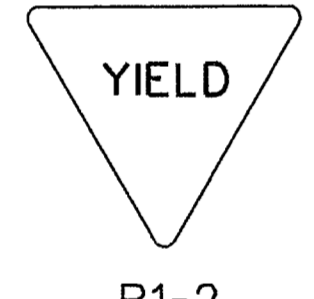
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

SIGNAL LAYOUT TABLES CONVENTIONAL LOOP DETECTORS

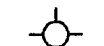
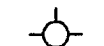


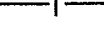
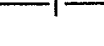




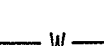
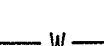












PROJECT NO. 641153.01000
BARTON-ASCHMAN ASSOCIATES INC.
ENGINEERS - DALLAS, TEXAS

DESIGNED APM	DRAWN HJF	DATE 05/27/97	FILE mtdoo2.dgn
APPROVED APM	CHECKED APM	SCALE 1" = 20'	SHEET 3 OF 15



- SIGNS**
-  R3-8
 -  R10-12
 -  R3-7R
 -  R3-5R
 -  R1-2

LEGEND

	FIRE HYDRANT		ZONE DETECTOR (VIDEO)
	POWER POLE		TRAFFIC SIGNAL ON ARM W/POLE
	TELEPHONE LINE U.G.		COMB. ST. LIGHT/SIGNAL POLE
	STORM LINE		SIGNAL HEAD IDENTIFIER
	SANITARY SEWER LINE		SIGNAL CONDUIT
	GAS LINE		CONDUIT IDENTIFIER
	WATER LINE		INSTALL PULLBOX TYPE A
	MANHOLE		INSTALL PULLBOX TYPE C
	LIGHT STANDARD WITH PHOTOCELL		PEDESTRIAN SIGNAL WITH BUTTONS, AND R10-4b SIGNS
	EXISTING RIGHT-OF-WAY		PEDESTAL POLE W/SIGNALS WITH BUTTONS, AND R10-4b SIGNS
	OPTICOM DETECTOR		CONTROLLER CABINET
	SIGN PLATE AND POLE TO BE INSTALLED		SIGN PLATE TO BE INSTALLED

- NOTES:**
- UNLESS OTHERWISE NOTED, BUTTONS SHALL BE SPACED AT 3' INTERVALS.
 - WORDS AND SYMBOLS SHALL BE 8' IN LENGTH AND SPACED 32' APART.
 - CONTRACTOR SHALL CONTACT TU ELECTRIC TO COORDINATE DISCONNECTION AND RECONNECTION OF EXISTING STREET LIGHT CIRCUIT. CONTRACTOR SHALL INSTALL NEW FOUNDATION, CONDUIT, CONDUCTORS (IF REQUIRED), AND RELOCATE POLE.
 - VIDEO CAMERAS SHALL BE MOUNTED ON TOP OF SIGNAL POLE AND AIMED IN SAME DIRECTION AS THE MAST ARM MOUNTED SIGNAL HEADS.



The seal appearing on this document was authorized by Alan P. McNeil, P.E. 69951, on May 27, 1997.

DATE	REVISION	BY
TOWN OF ADDISON DALLAS COUNTY, TEXAS		
SIGNAL LAYOUT PLANS VIDEO DETECTION		
PROJECT NO. 641153.01000		
BARTON-ASCHMAN ASSOCIATES INC. ENGINEERS - DALLAS, TEXAS		
DESIGNED APM	DRAWN HJF	DATE 05/27/97
APPROVED APM	CHECKED APM	SCALE 1" = 20'
FILE m1ddoo3.dgn		SHEET 4 OF 15

RUN NO.	QUANTITY	SIZE	TYPE	METHOD	*6 XHHW	*6 BARE	COAX CABLE	4 CNDR OPTICOM	3 CNDR (VIDEO)	12 CNDR	19 CNDR	CONDUIT LENGTH	CABLE LENGTH	RUN NO.
A	1	3"	PVC	Trench		1	1	1	1			23	28	A
B	1	3"	PVC	Bored								124	134	B
C	1	3"	PVC	Trench		1	1	1	1			15	20	C
D	1	3"	PVC	Bored	2	1	1	1	1			65	75	D
E	1	3"	PVC	Trench		1	1	1	1			13	18	E
F														F
G	1	3"	PVC	Bored	2	1	2	2	2			66	76	G
H	1	3"	PVC	Trench		1	1	1	1			17	22	H
I	1	3"	PVC	Trench		1	1	2	1	1		24	29	I
J	1	3"	PVC	Trench		1		1		1		45	55	J
K	1	3"	PVC	Bored		1	1	1	1			46	56	K
L	1	2"	PVC	Trench	2	1						31	36	L
M	3	3"	PVC	Trench	2	1	4	4	4	2	3	25	30	M
N														N
O														O
P	1	3"	PVC	Bored		1	1	1	1			54	64	P
Q	1	3"	PVC	Bored	2	1	1	1	1			57	67	Q
TOTAL (LF)					568	576	651	713	651	166	599			

CABLE CONDUCTOR	T-1 (19 CNDR)		T-2 (19 CNDR)		T-3 (19 CNDR)		T-4 (12 CNDR)		T-5 (12 CNDR)	
	S.H. NO.	INDICATION	S.H. NO.	INDICATION	S.H. NO.	INDICATION	S.H. NO.	INDICATION	S.H. NO.	INDICATION
BLACK	1	← Y			8	← Y			14	Y →
WHITE		COMMON		COMMON		COMMON		COMMON		COMMON
RED	1-4	R	5-7	R	8-11	R	12-13	R	14	R
* GREEN	1-4	G	5-7	G	8-11	G	12-13	G	14	G
ORANGE	1-4	Y	5-7	Y	8-11	Y	12-13	Y	14	Y
BLUE	1	← G			8	← G	PB 22	Ø2	14	G →
WHT/BLK	SPARE		SPARE		SPARE			PB COM	SPARE	
RED/BLK	16	DW	18	DW	20	DW	22	DW	24	R
GRN/BLK	16	W	18	W	20	W	22	W	24	G
ORN/BLK	SPARE		SPARE		SPARE		23	DW	24	Y
BLUE/BLK	SPARE		SPARE		SPARE		23	W	SPARE	
BLK/WHT	PB 16	Ø4	PB 18	Ø6	PB 20	Ø8	PB 23	Ø4	SPARE	
RED/WHT	17	DW	19	DW	21	DW				
GRN/WHT		PB COM		PB COM		PB COM				
BLUE/WHT	17	W	19	W	21	W				
BLK/RED	SPARE		SPARE		SPARE					
WHT/RED	PB 17	Ø6	PB 19	Ø8	PB 21	Ø2				
ORN/RED	SPARE		SPARE		SPARE					
BLUE/RED	SPARE		SPARE		SPARE					

* ALSO FOR ←G ON SIGNAL HEADS 5 AND 12

SIGNAL HEAD AND POLE PLACEMENT

POLE NUMBER	A	B	C	D	E	FND
T-1	4	15	11	14	40	36-A
T-2	5	17	17	35	30-A	
T-3	5	19	11	15	45	36-A
T-4	7	10	15	25	30-A	
T-5	4	PEDESTAL POLE				24-A

POLE NUMBER	4-CNDR	5-CNDR	7-CNDR	COAX	3-CNDR
T-1	60	125	65	35	35
T-2	50	130		35	35
T-3	35	130	70	35	35
T-4		55	50	35	35
T-5	15	15	15		1
TOTAL (LF)	160	455	200	140	140

NO	TYPE	PHASE	BACKPLATE		12" VEH SEC	PED SIG SEC
			3 SEC	4 SEC		
1	V4LT+	Ø1+Ø6		1	4	
2	V3	Ø6	1		3	
3	V3	Ø6	1		3	
4	V3	Ø6	1		3	
5	V4LT	Ø8		1	4	
6	V3	Ø8	1		3	
7	V3	Ø8	1		3	
8	V4LT+	Ø2+Ø5		1	4	
9	V3	Ø2	1		3	
10	V3	Ø2	1		3	
11	V3	Ø2	1		3	
12	V4LT	Ø4		1	4	
13	V3	Ø4	1		3	
14	V4RT+	Ø4+ØL A		1	4	
16,23	PED	Ø4				2
17,18	PED	Ø6				2
19,20	PED	Ø8				2
21,22	PED	Ø2				2
24 Δ	V3	Ø2			3	
TOTALS			9	5	50	8

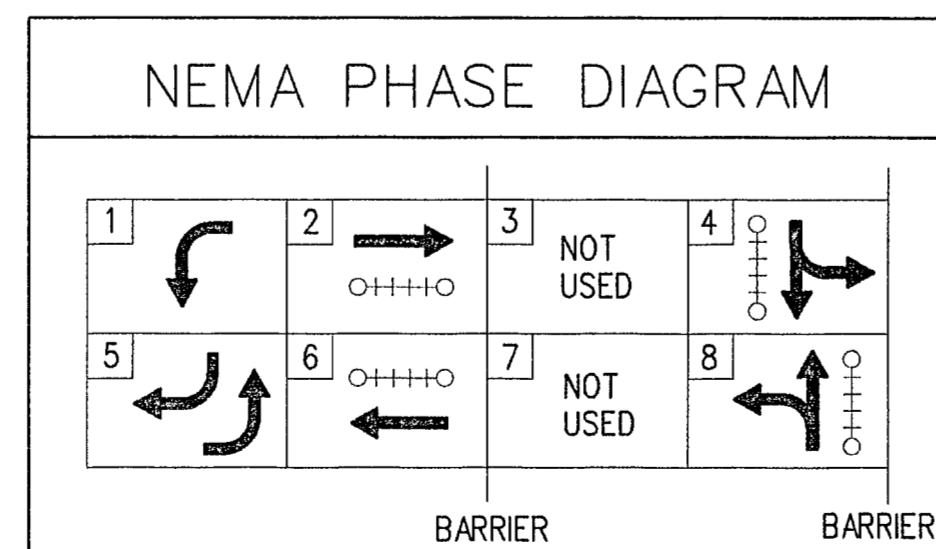
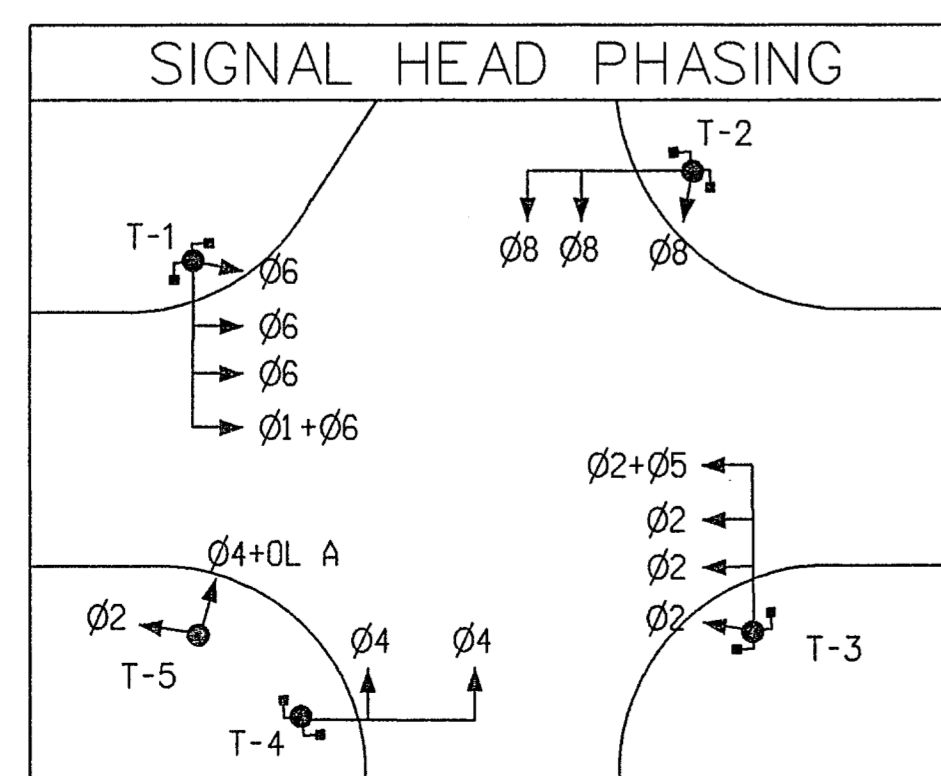
* -Use green/yellow fiber optic turn arrow.
 Δ NO BACKPLATE REQUIRED

LOCATION	SIGN NO.	TYPE OF SIGN	SIZE
POLE T-1	R10-12	LEFT TURN YIELD	30"x36"
POLE T-3	R10-12	LEFT TURN YIELD	30"x36"
S.W. CORNER	R3-5R	RIGHT ONLY	30"x30"
200' WEST OF INTERSECTION	R3-7R	RIGHT LANE MUST TURN RIGHT	30"x30"
475' S. OF INTERSECTION NORTHBOUND	W3-3	SIGNAL AHEAD	36"x36"
POLE T-2	R3-8	LANE ASSIGNMENT	30"x36"
N.E. CORNER	R3-8	LANE ASSIGNMENT	30"x36"
N.W. CORNER	R1-2	YIELD	36"x36"x36"

TYPE	EA
A	6
C	1

SIZE	TYPE	LENGTH (LF)
2"	PVC Trench	31
3"	PVC Trench	187
3"	PVC Bore	412

LOCATION	FT.
S.W. CORNER	12.0
N.W. CORNER	12.0
S.E. CORNER	12.0
N.E. CORNER	12.0
TOTAL	48.0



NOTES: 1) Phases 1 + 5 are protected/permissive left turn phases.
 2) Phases 4 + 8 are split phases.
 3) Overlap A = Phase 5

TYPE	QUANTITY	UNIT
6" SOLID WHITE ALKYD THERMOPLASTIC	850	FT
24" SOLID WHITE ALKYD THERMOPLASTIC	185	FT
SOLID WHITE ALKYD THERMO. RIGHT ARROW	2	EA
SOLID WHITE ALKYD THERMO. "ONLY"	2	EA
4" YELLOW BIDIRECTIONAL RETROREFLECTIVE RAISED BUTTON	164	EA
4" WHITE UNIDIRECTIONAL RETROREFLECTIVE RAISED BUTTON	72	EA
4" WHITE RAISED BUTTON	26	EA
6" x 6" WHITE UNIDIRECTIONAL RETROREFLECTIVE JIGGLE BAR	24	EA
REMOVE RAISED BUTTON / JIGGLE BAR	30	EA



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 Alan P. McNeil

DATE	REVISION	BY

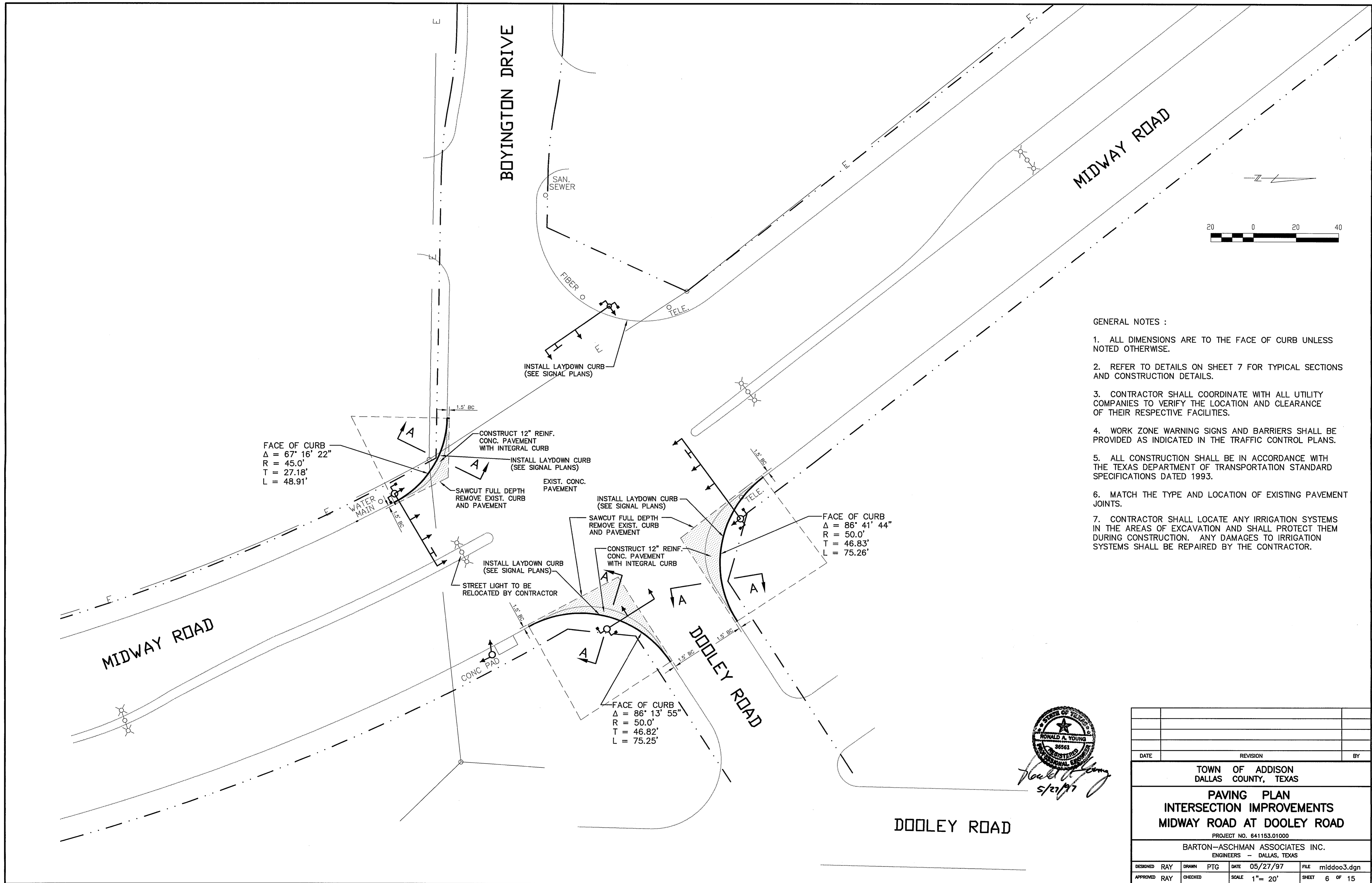
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

SIGNAL LAYOUT TABLES
VIDEO DETECTION

PROJECT NO. 641153-01000
BARTON-ASCHMAN ASSOCIATES INC.
ENGINEERS - DALLAS, TEXAS


DESIGNED	DRAWN	DATE	FILE
APM	HJF	05/27/97	mi ddo04.dgn
APPROVED	CHECKED	SCALE	SHEET
APM	APM	1" = 20'	5 OF 15

20017330004.dwg



GENERAL NOTES :

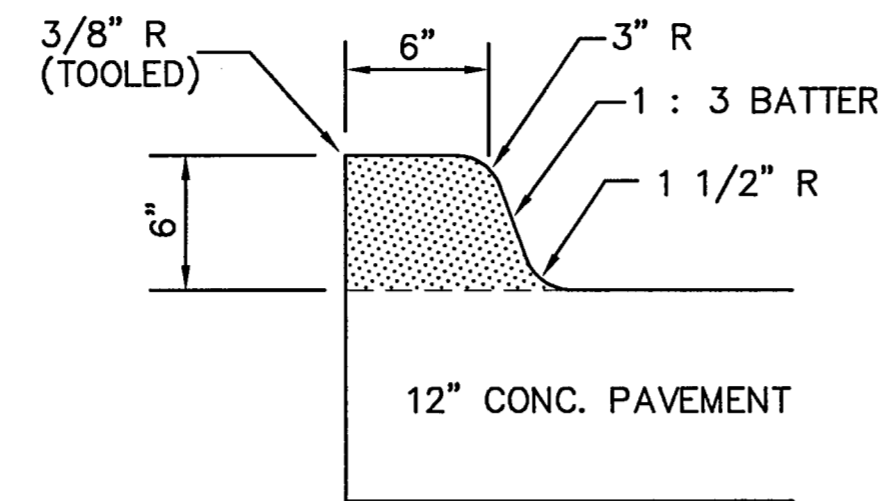
1. ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS NOTED OTHERWISE.
2. REFER TO DETAILS ON SHEET 7 FOR TYPICAL SECTIONS AND CONSTRUCTION DETAILS.
3. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO VERIFY THE LOCATION AND CLEARANCE OF THEIR RESPECTIVE FACILITIES.
4. WORK ZONE WARNING SIGNS AND BARRIERS SHALL BE PROVIDED AS INDICATED IN THE TRAFFIC CONTROL PLANS.
5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 1993.
6. MATCH THE TYPE AND LOCATION OF EXISTING PAVEMENT JOINTS.
7. CONTRACTOR SHALL LOCATE ANY IRRIGATION SYSTEMS IN THE AREAS OF EXCAVATION AND SHALL PROTECT THEM DURING CONSTRUCTION. ANY DAMAGES TO IRRIGATION SYSTEMS SHALL BE REPAIRED BY THE CONTRACTOR.


 Ronald A. Young
 5/27/97

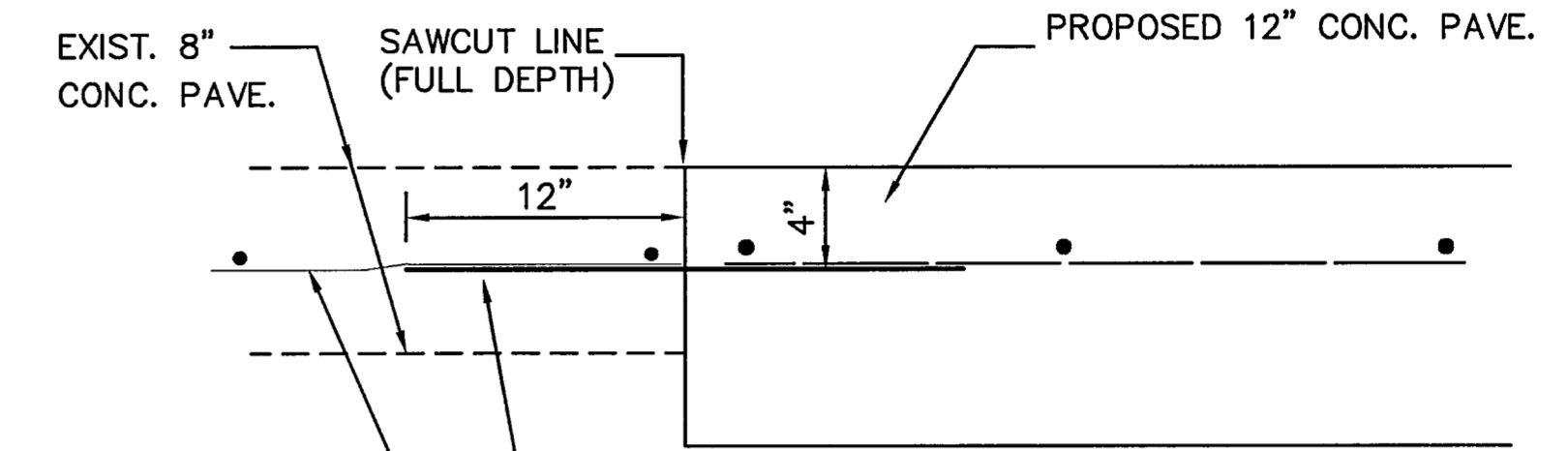
DATE	REVISION	BY

TOWN OF ADDISON
 DALLAS COUNTY, TEXAS
PAVING PLAN
INTERSECTION IMPROVEMENTS
MIDWAY ROAD AT DOOLEY ROAD
 PROJECT NO. 641153.01000
 BARTON-ASCHMAN ASSOCIATES INC.
 ENGINEERS - DALLAS, TEXAS

DESIGNED	RAY	DRAWN	PTG	DATE	05/27/97	FILE	mid003.dgn
APPROVED	RAY	CHECKED		SCALE	1" = 20'	SHEET	6 OF 15



6" INTEGRAL CURB
NOT TO SCALE



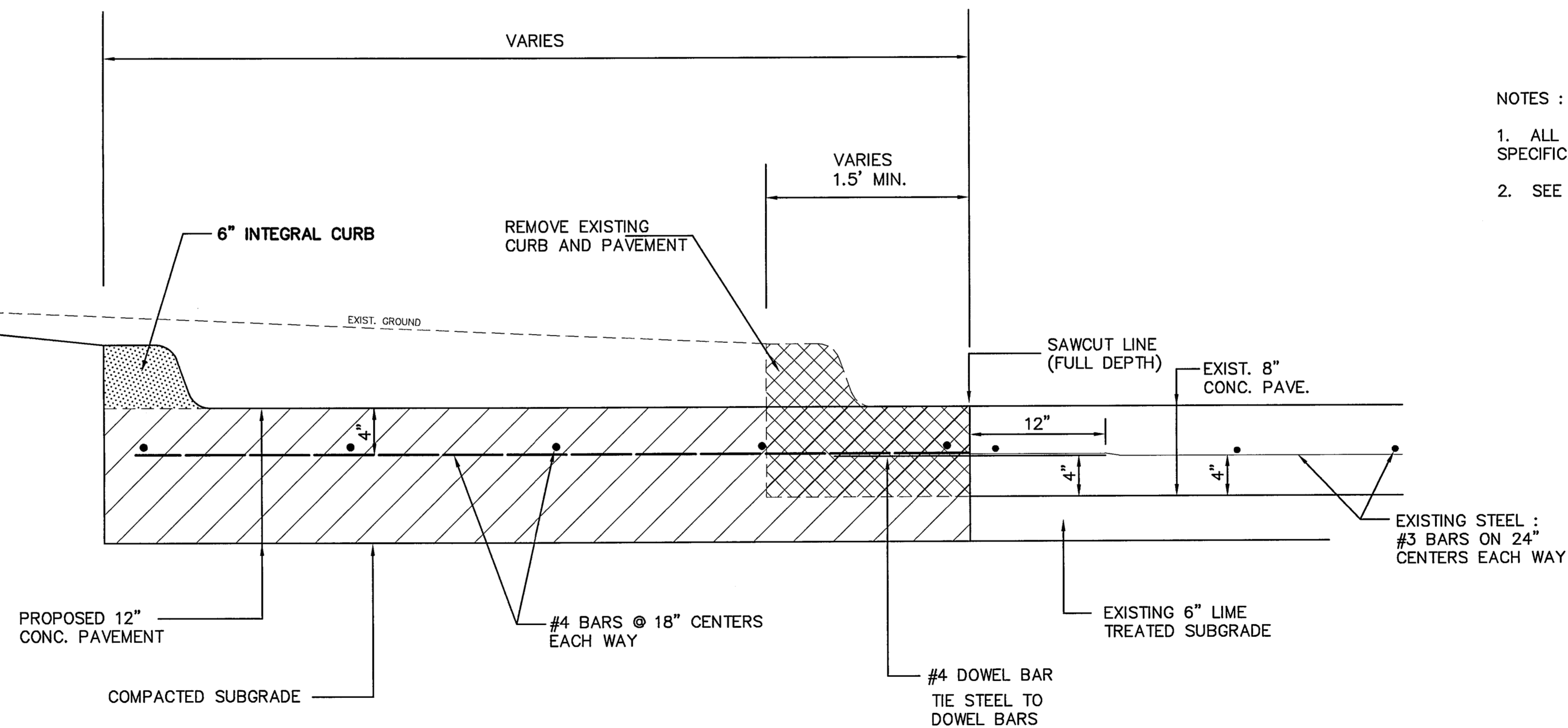
EXISTING STEEL :
#3 BARS ON 18"
CENTERS EACH WAY

#4 x 2'-6" DOWELS PLACED ON 18" CENTERS
THE CONTRACTOR SHALL DRILL A 5/8" DIA.
HOLE, BLOW INSIDE CLEAN AND COAT DOWEL
WITH AN APPROVED EPOXY RESIN BEFORE
INSERTION INTO HOLE

DOWEL CONNECTION
NOT TO SCALE

CAUTION !!
IRRIGATION SYSTEMS MAY EXIST
IN THE AREA OF EXCAVATION.
CONTRACTOR SHALL LOCATE
IRRIGATION SYSTEMS AND REPAIR
ANY DAMAGES THAT MAY OCCUR.

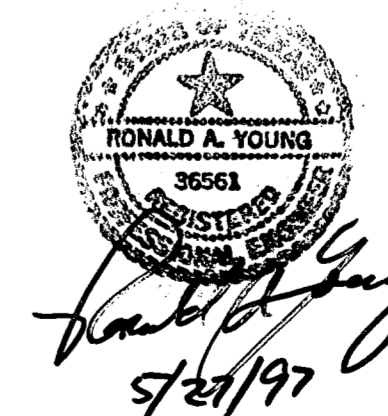
REGRADE AND PLACE SOD ON
EXPOSED GROUND. (MATCH
THE TYPE OF EXISTING GRASS)



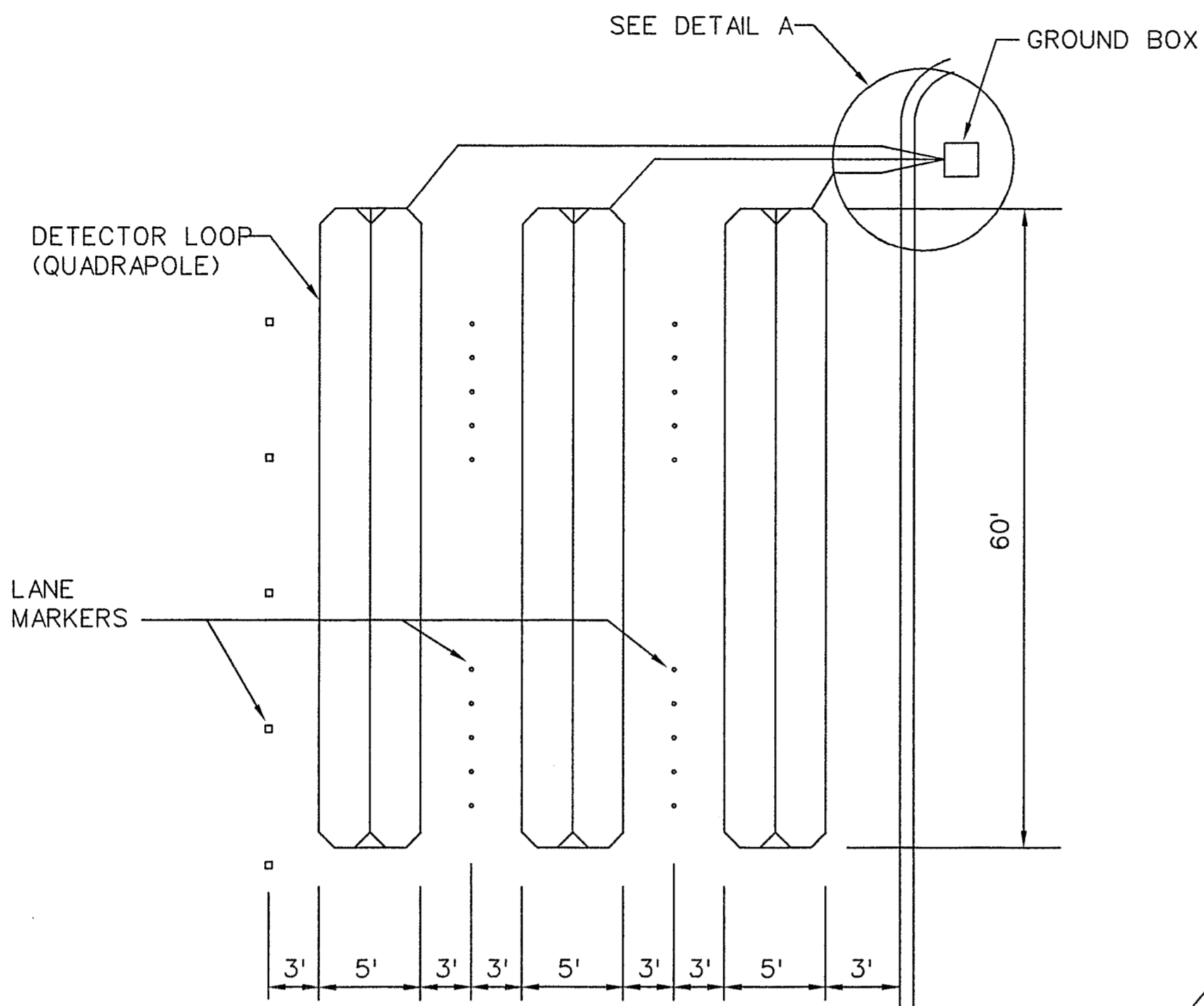
NOTES :

1. ALL CONCRETE SHALL BE CLASS A CONCRETE PER TXDOT SPECIFICATIONS.
2. SEE SHEET 6 FOR PAVING PLAN.

SECTION A - A
PROPOSED CONCRETE PAVEMENT
PLACED ADJACENT TO EXIST. CONC. PAVEMENT
NOT TO SCALE

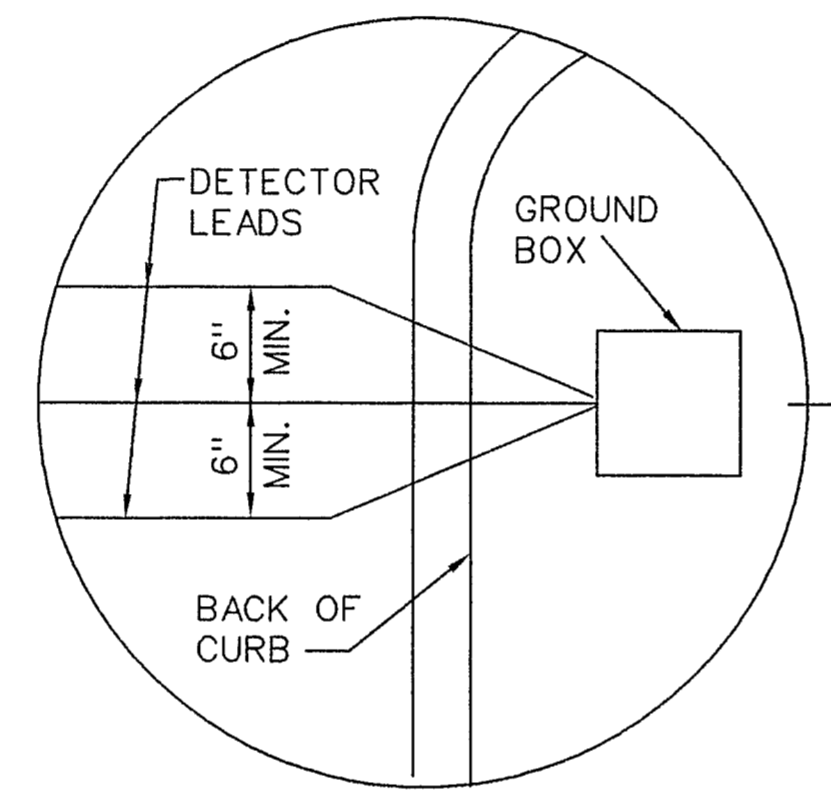


DATE	REVISION	BY
TOWN OF ADDISON DALLAS COUNTY, TEXAS		
PAVING DETAILS INTERSECTION IMPROVEMENTS MIDWAY ROAD AT DOOLEY ROAD		
PROJECT NO. 641153.01000		
BARTON-ASCHMAN ASSOCIATES INC. ENGINEERS - DALLAS, TEXAS		
DESIGNED RAY	DRAWN PTG	DATE 05/27/97
APPROVED RAY	CHECKED	SCALE 1" = 20'
		FILE mid00.dgn
		SHEET 7 OF 15

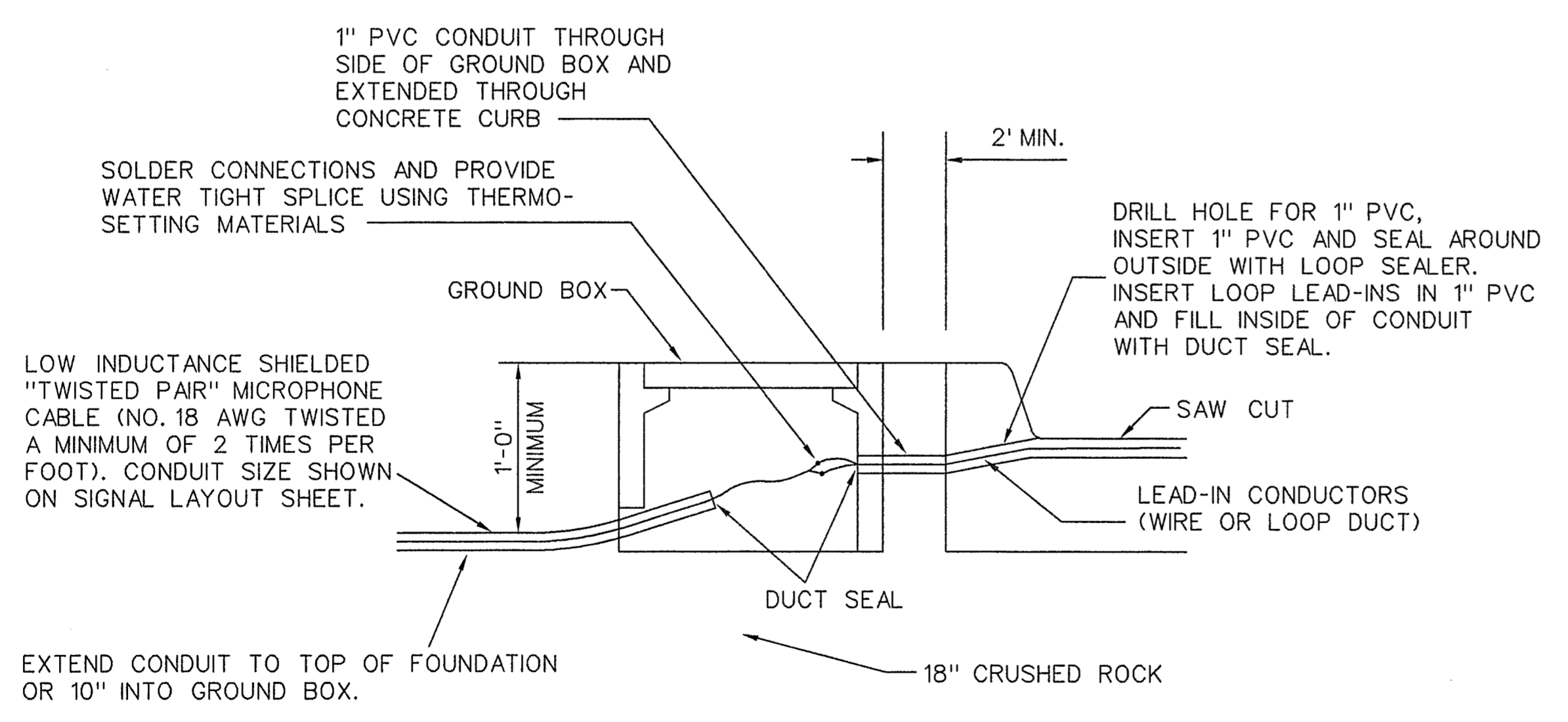


- NOTES :
1. CONTRACTOR TO PROVIDE 1" PVC CONDUIT THRU CURB FOR WIRE LEAD-IN CONDUCTORS.
 2. SPLICE IN GROUND BOXES SHALL BE SOLDERED AND WEATHER SEALED.

PLAN



DETAIL A



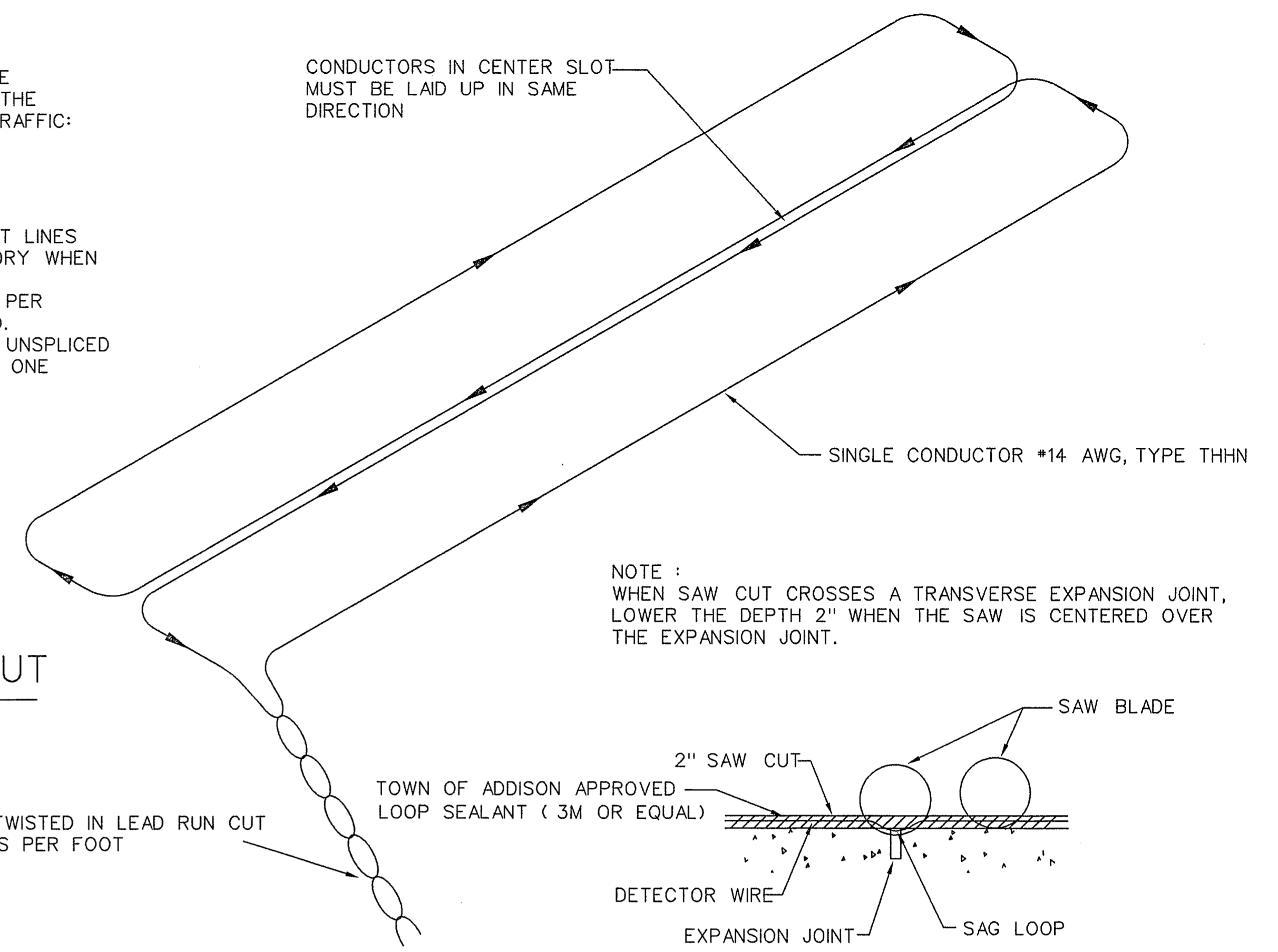
SECTION A-A

VEHICLE LOOP DETECTOR LAYOUT

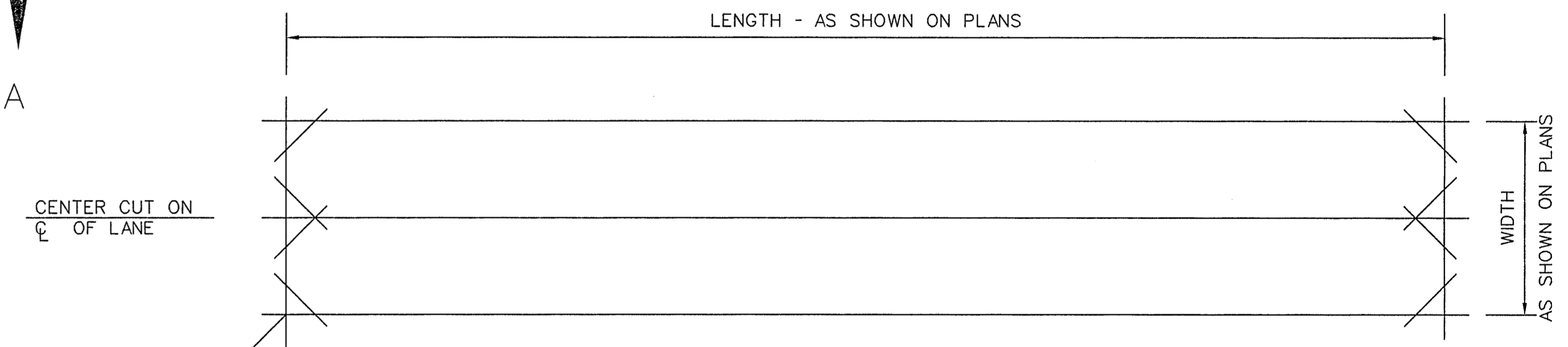
1. INSTALLATION OF WIRE LOOPS IS TO BE MADE IN THE SHORTEST TIME PRACTICAL. NOT TO EXCEED A 4 HR. MAX. AND SCHEDULED DURING THE OFF-PEAK HOURS LISTED BELOW TO MINIMIZE DELAY TO VEHICLE TRAFFIC:
 MONDAY - FRIDAY 9 A.M. TO 3:30 P.M.
 SATURDAY - SUNDAY 7 A.M. TO 7 P.M.
2. THE PAVEMENT CUT IS TO BE CUT WITH A CONCRETE SAW TO NEAT LINES AND LOOSE MATERIAL REMOVED. THE CUT SHOULD BE CLEAN AND DRY WHEN THE SEALING COMPOUND IS PLACED.
3. THE LEAD-IN WIRES ARE TO BE TWISTED A MINIMUM OF FIVE TURNS PER FOOT AND REMAIN UNDISTURBED AFTER THE LOOP HAS BEEN TUNED.
4. EACH LOOP IS TO BE RETURNED TO CONTROLLER VIA ONE PAIR OF UNSPLICED SHIELDED LEAD-IN WIRES. MULTIPLE, TWISTED LEADS TO MORE THAN ONE LOOP IN SINGLE LEAD RUN SAW SLOT ARE NOT PERMISSIBLE.
5. ALL LOOPS TO PENETRATE CURB IN A SEPARATE CONDUIT.

TYPICAL LOOP LAYOUT

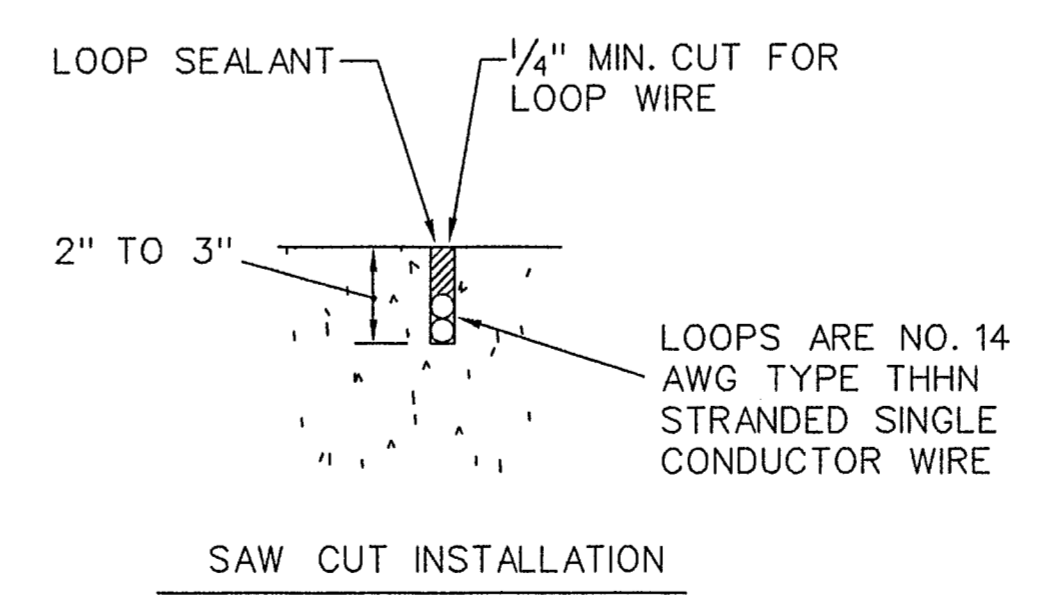
1 - 2 - 1 QUADRAPOLE



WIRES TWISTED IN LEAD RUN CUT 5 TURNS PER FOOT



PLAN



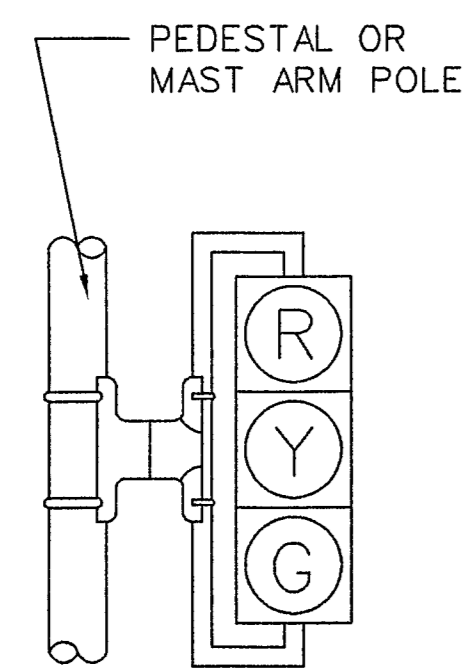
SAW CUT INSTALLATION



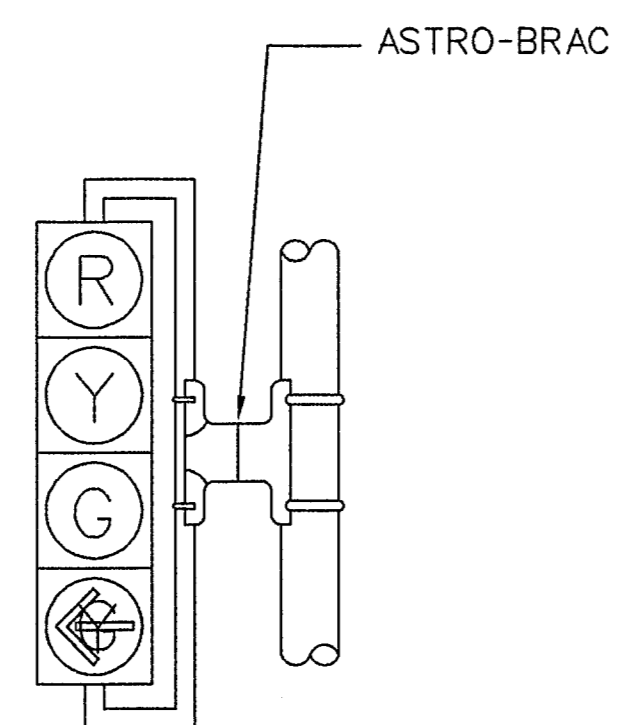
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DATE	REVISION	BY
TOWN OF ADDISON DALLAS COUNTY, TEXAS		
LOOP INSTALLATION DETAILS		
PROJECT NO. 641153-01000		
BARTON-ASCHMAN ASSOCIATES INC. ENGINEERS - DALLAS, TEXAS		
DESIGNED	DRAWN	DATE
APPROVED APM	CHECKED APM	05/27/97
SCALE 1" = 20'		FILE sigdet11.dgn
SHEET 8		OF 15

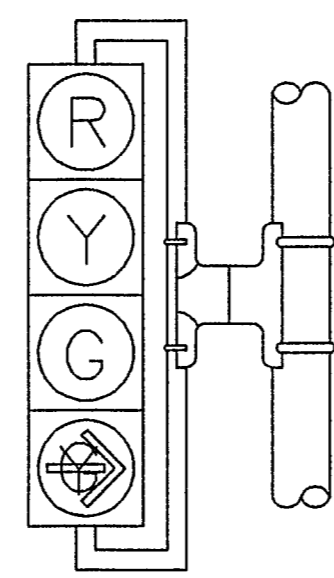
SAW CUT PATTERN FOR DETECTOR LOOPS



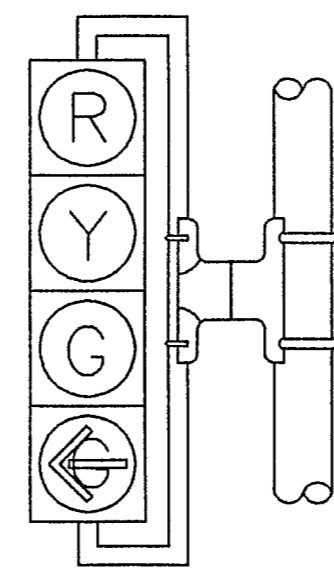
V3



V4LT(F)

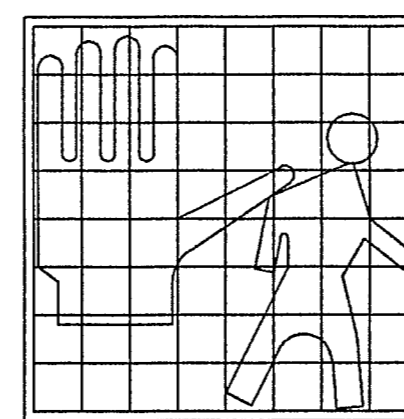


V4RT(F)

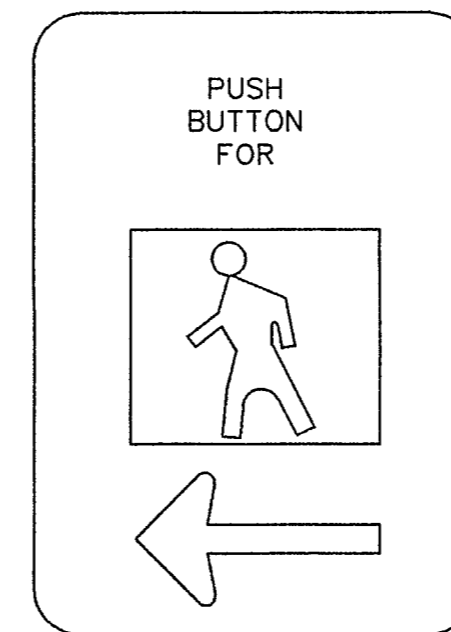


V4LT

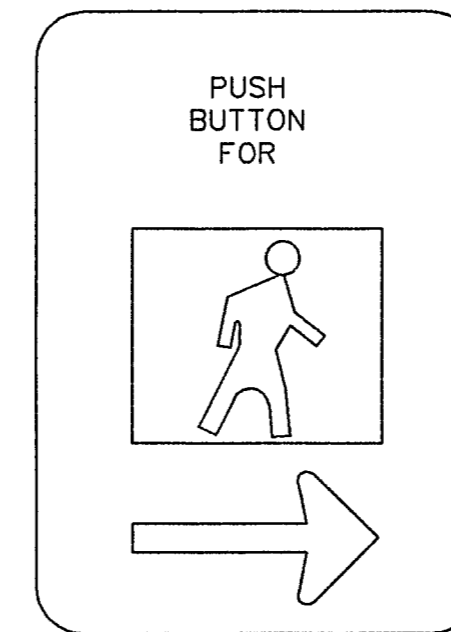
FIBEROPTIC ARROWS



PEDESTRIAN SIGNAL HEAD



SIGN R10-4bL
9" x 12"

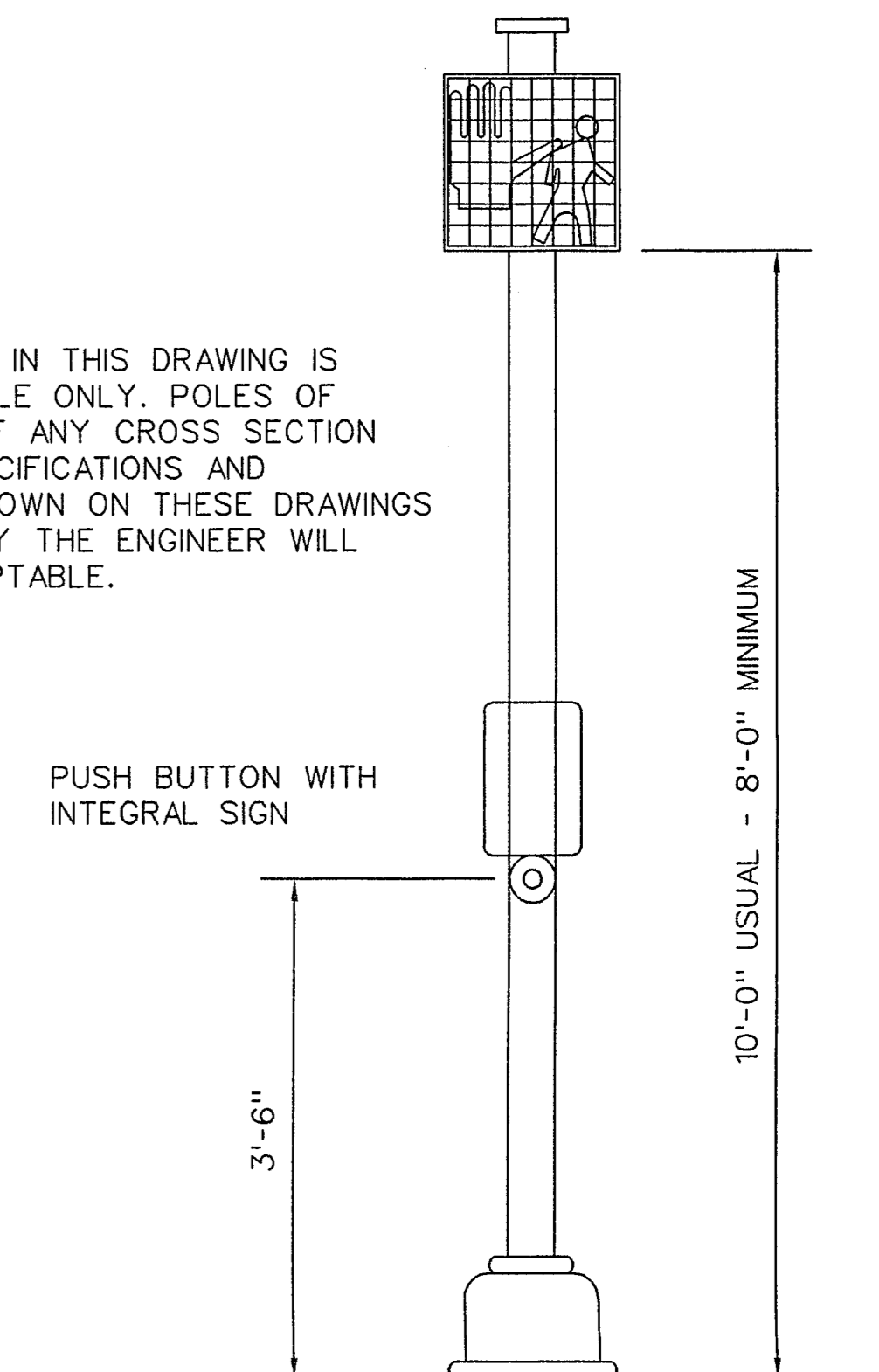


SIGN R10-4bR
9" x 12"

PEDESTRIAN PUSH BUTTON SIGN DETAILS

NOTE :

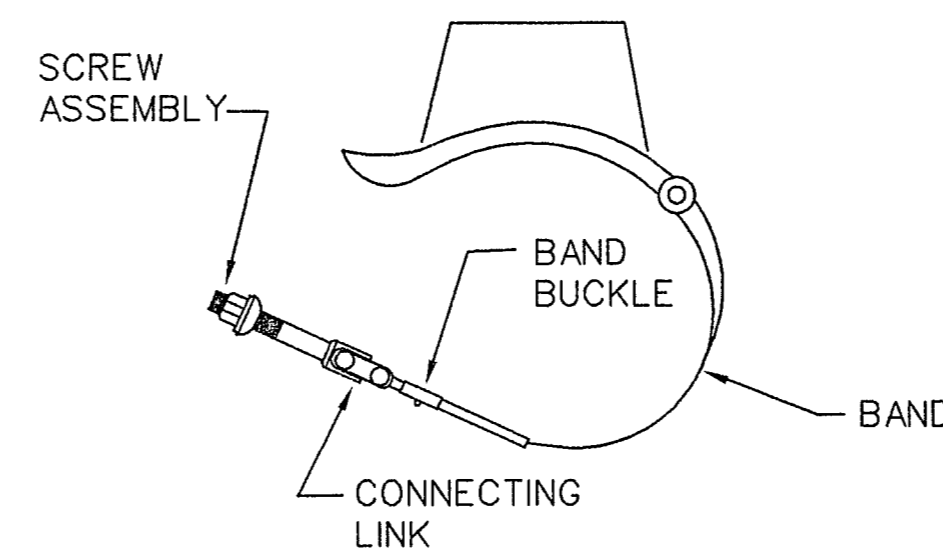
THE POLE SHOWN IN THIS DRAWING IS SHOWN AS EXAMPLE ONLY. POLES OF SIMILAR DESIGN OF ANY CROSS SECTION AND MEETING SPECIFICATIONS AND REQUIREMENTS SHOWN ON THESE DRAWINGS AND APPROVED BY THE ENGINEER WILL BE DEEMED ACCEPTABLE.



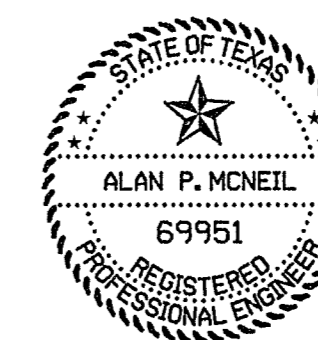
POST DETAIL

NOTES :

1. ALL SIGNAL HEAD LENSES SHALL BE 12" IN DIAMETER.
2. VEHICLE AND PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH "ASTRO BRACS" AND APPROPRIATE TUBING, PAINTED BLACK. ALL SIGNALS TO BE BLACK, ALL LENSES TO BE GLASS.
3. ALL VISORS SHALL BE TUNNEL VISORS.
4. ALL POLE MOUNTED VEHICLE AND PEDESTRIAN SIGNAL HEADS SHALL BE INSTALLED ON THE AWAY-FROM-TRAFFIC SIDE OF THE PEDESTAL OR MAST ARM POLE.
5. ALL SIGNAL HEADS WILL BE PROVIDED WITH BLACK 5" POLYCARBONATE VACUUM FORMED BACKPLATES.
6. ALL WIRING FOR VEHICLE AND PEDESTRIAN SIGNALS SHALL BE TOTALLY ENCLOSED WITHIN THE SIGNAL MOUNTING HARDWARE.
7. ALL MAST ARM AND POLE MOUNTED SIGNS SHALL BE MOUNTED WITH ASTRO SIGN-BRAC OR SIGNFIX ALUMINUM CHANNEL OR APPROVED EQUAL.
8. ALL PEDESTRIAN SIGNAL HEADS AND PUSH BUTTON SIGNS SHALL DISPLAY THE SYMBOLIZED MESSAGES SHOWN ON THIS SHEET (A.D.A. APPROVED).
9. SYMBOLIZED MESSAGE HEIGHT SHALL BE 10 INCHES MINIMUM.
10. PROVIDE DURO TEST 135 WATT SAVER LAMPS IN VEHICLE SIGNALS.
11. PROVIDE DURO TEST 60 WATT SAVER LAMPS IN PEDESTRIAN SIGNALS.

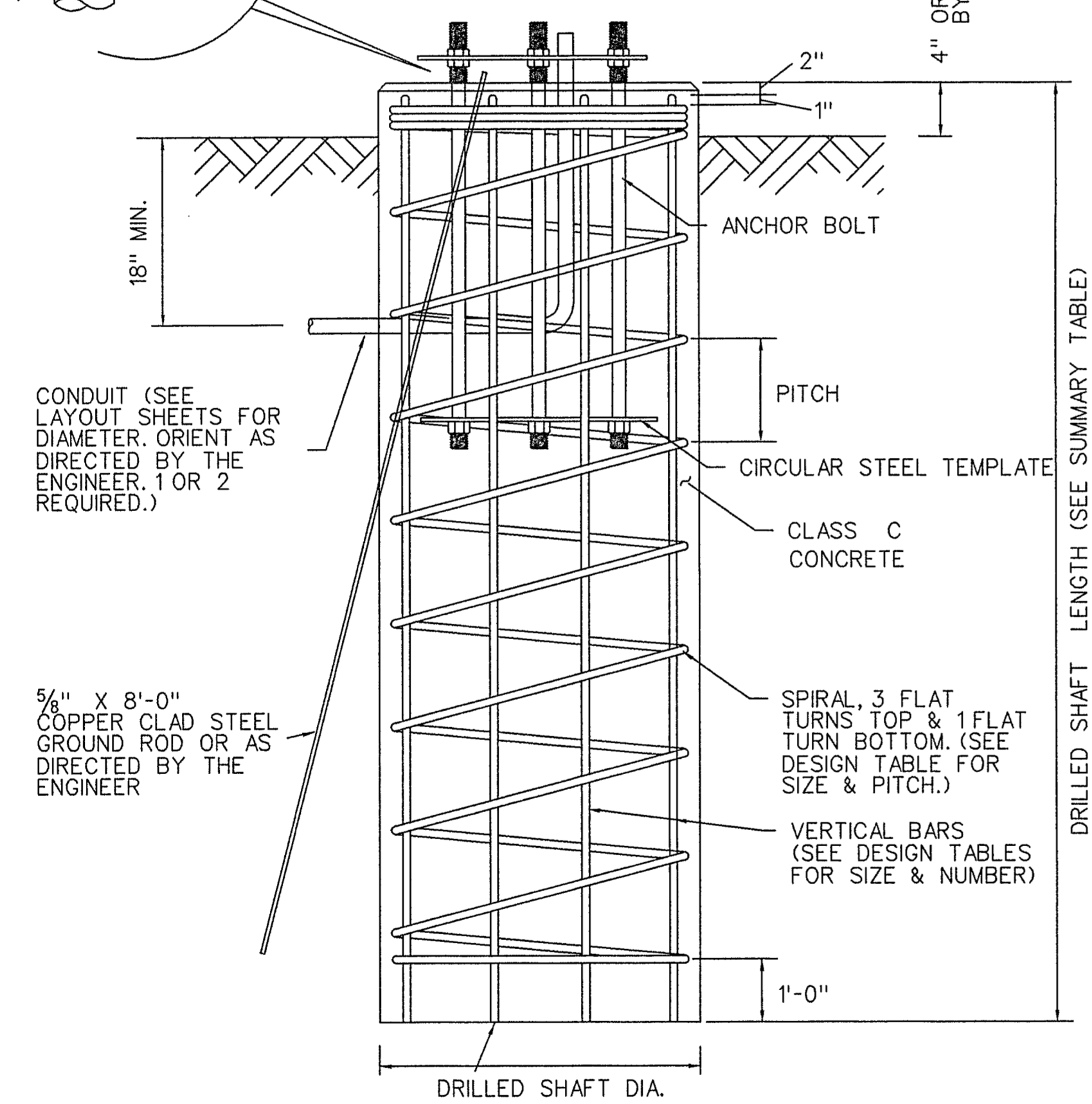
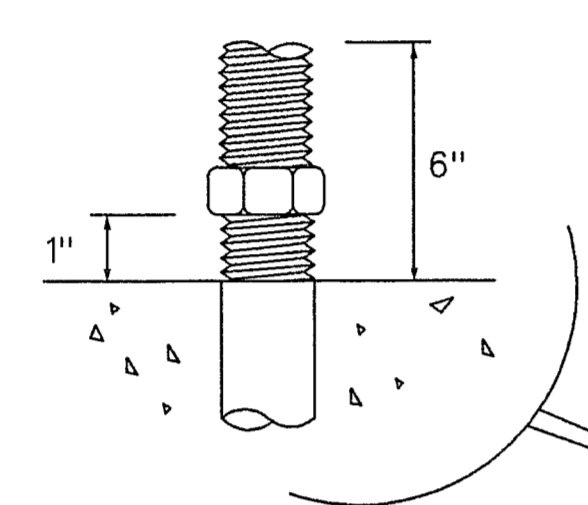
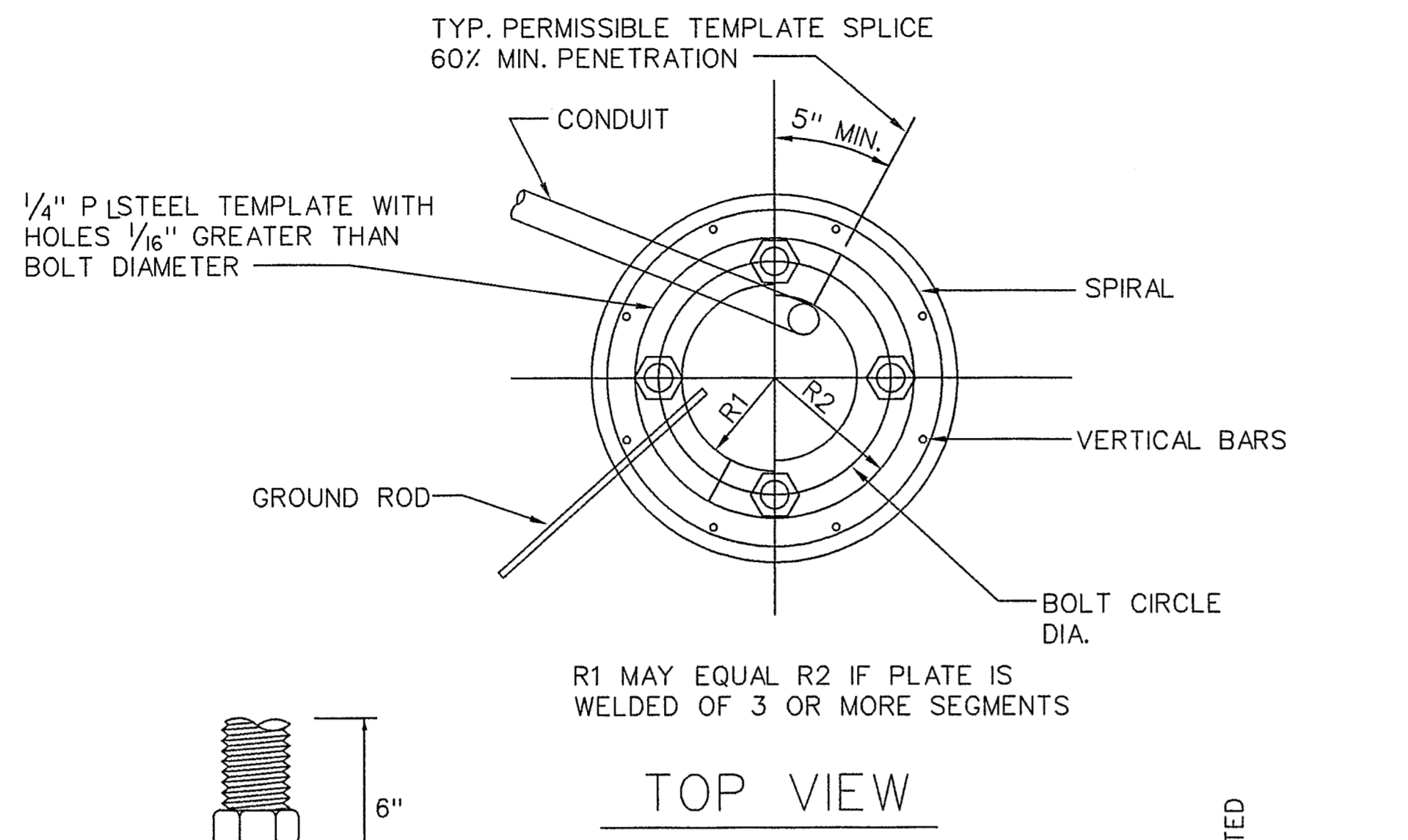


ASTRO BRAC



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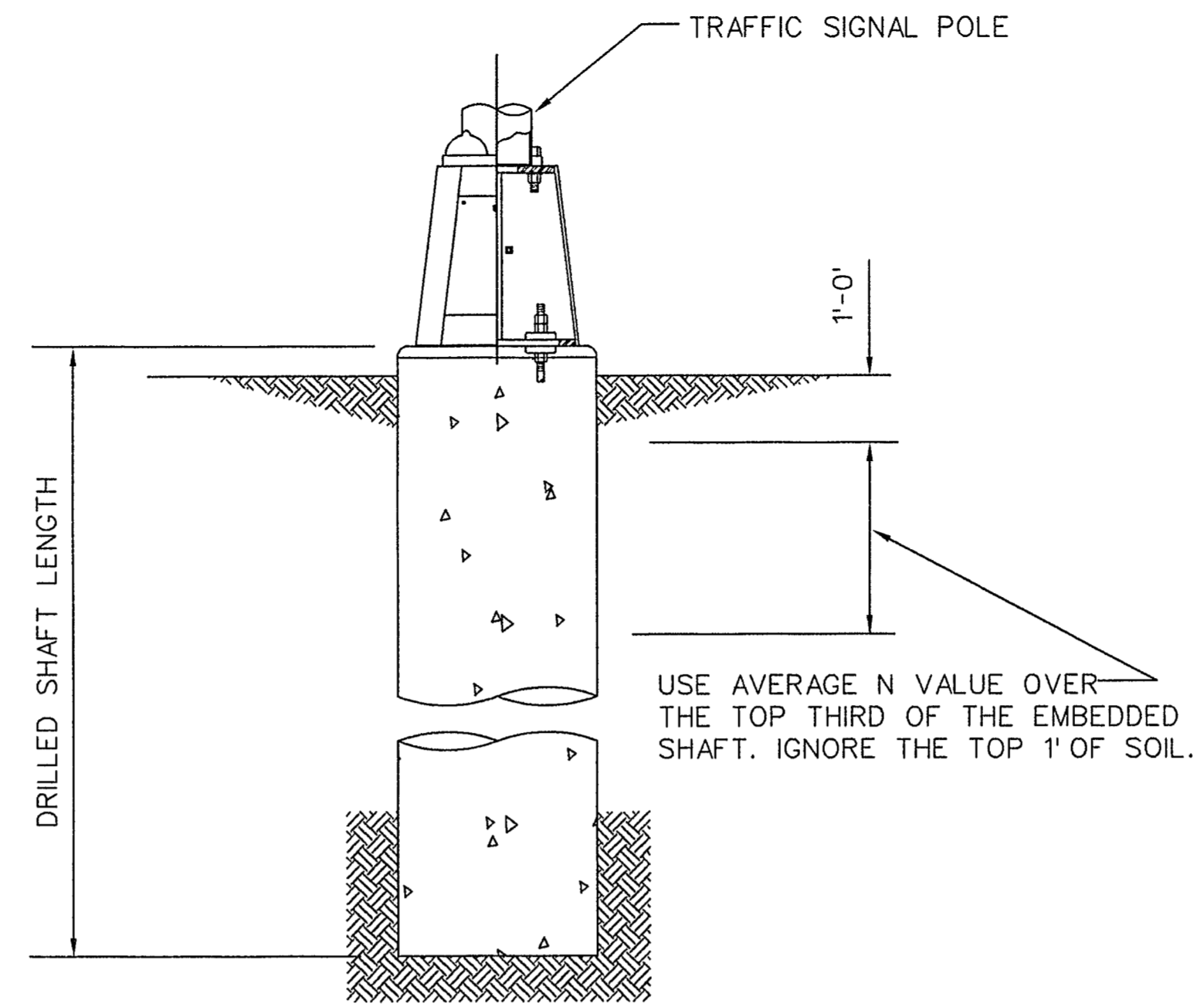
DATE	REVISION	BY
TOWN OF ADDISON DALLAS COUNTY, TEXAS		
TRAFFIC SIGNAL HEAD DETAILS		
PROJECT NO. 641153.01000		
BARTON-ASCHMAN ASSOCIATES INC. ENGINEERS - DALLAS, TEXAS		
DESIGNED	DRAWN	DATE
APPROVED APM	CHECKED APM	05/27/97
SCALE 1" = 20'		FILE g1gde+66.dgn
SHEET 9 OF 15		



VERTICAL BARS MAY REST ON BOTTOM OF DRILLED HOLE IF MATERIAL IS FIRM ENOUGH TO DO SO WHEN CONCRETE IS PLACED

ELEVATION

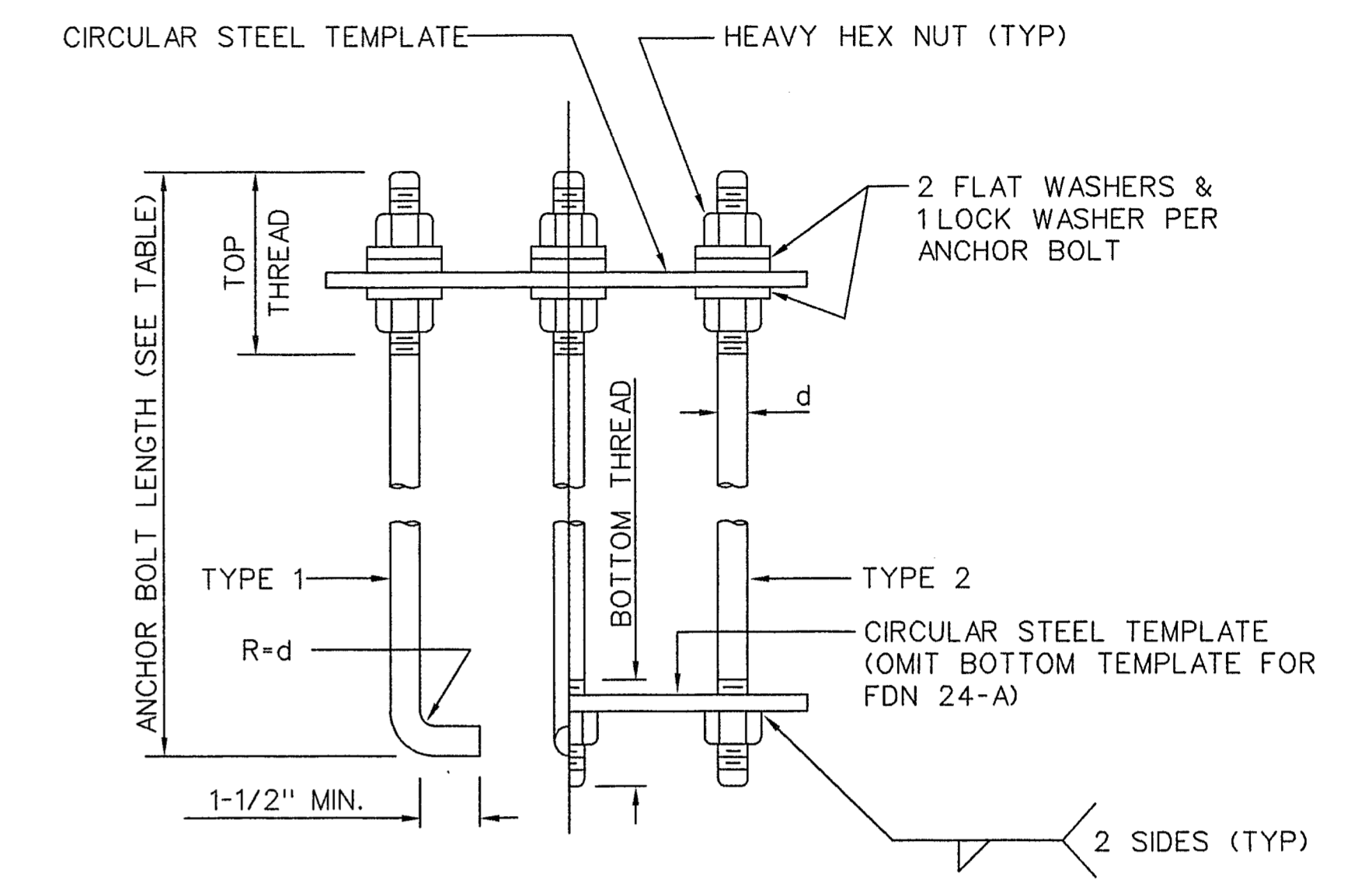
FOUNDATION DETAILS



ANCHOR BOLT & TEMPLATE SIZES

BOLT DIAMETER	*BOLT LENGTH	TOP THREAD	BOTTOM THREAD	BOLT CIRCLE	R2	R1
3/4"	1'-6"	3"	-	12-3/4"	7-1/8"	5-5/8"
1-1/2"	3'-4"	6"	2"	17"	10"	7"
1-3/4"	3'-10"	7"	2-1/4"	19"	11-1/4"	7-3/4"
2"	4'-3"	8"	2-1/2"	21"	12-1/2"	8-1/2"

* MINIMUM DIMENSIONS GIVEN, LONGER BOLTS ARE ACCEPTABLE



HOOKED ANCHOR (TYPE 1) NUT ANCHOR (TYPE 2)

ANCHOR BOLT ASSEMBLY

INSTALLATION PROCEDURE :

THREADS OF ANCHOR BOLTS SHALL BE COATED WITH PIPE JOINT COMPOUND PRIOR TO INSTALLATION OF UPPER NUTS WHEN ERECTING POLE. AFTER POLE IS PLUMBED AND IN PERMANENT ALIGNMENT, THE EXPOSED THREADS OF PAINTED BOLTS SHALL BE CLEANED AND AN ADDITIONAL COATING OF ZINC-RICH PAINT APPLIED TO SEAL THE BOLT THREAD-NUT JOINT.

FOUNDATION DESIGN TABLE

FDN TYPE	DRILLED SHAFT DIA	REINFORCING STEEL		DRILLED SHAFT LENGTH-ft (3), (4), (5)			ANCHOR BOLT DESIGN (1)				FOUNDATION DESIGN LOAD (2)	
		VERT BARS	SPIRAL & PITCH	TEXAS CONE PENETROMETER N blows/ft			ANCHOR BOLT DIA	Fy (ksi)	BOLT CIR DIA	ANCHOR TYPE	MOMENTS K-ft	SHEAR Kips
				10	15	40						
24-A	24"	4-*5	*2 at 12"	5.7	5.3	4.5	3/4"	36	12 3/4"	1	10	1
30-A	30"	8-*9	*3 at 6"	11.3	10.3	8.0	1 1/2"	55	17"	2	87	3
36-A	36"	10-*9	*3 at 6"	13.2	12.0	9.4	1 3/4"	55	19"	2	131	5
36-B	36"	12-*9	*3 at 6"	15.2	13.6	10.4	2 "	55	21"	2	190	7

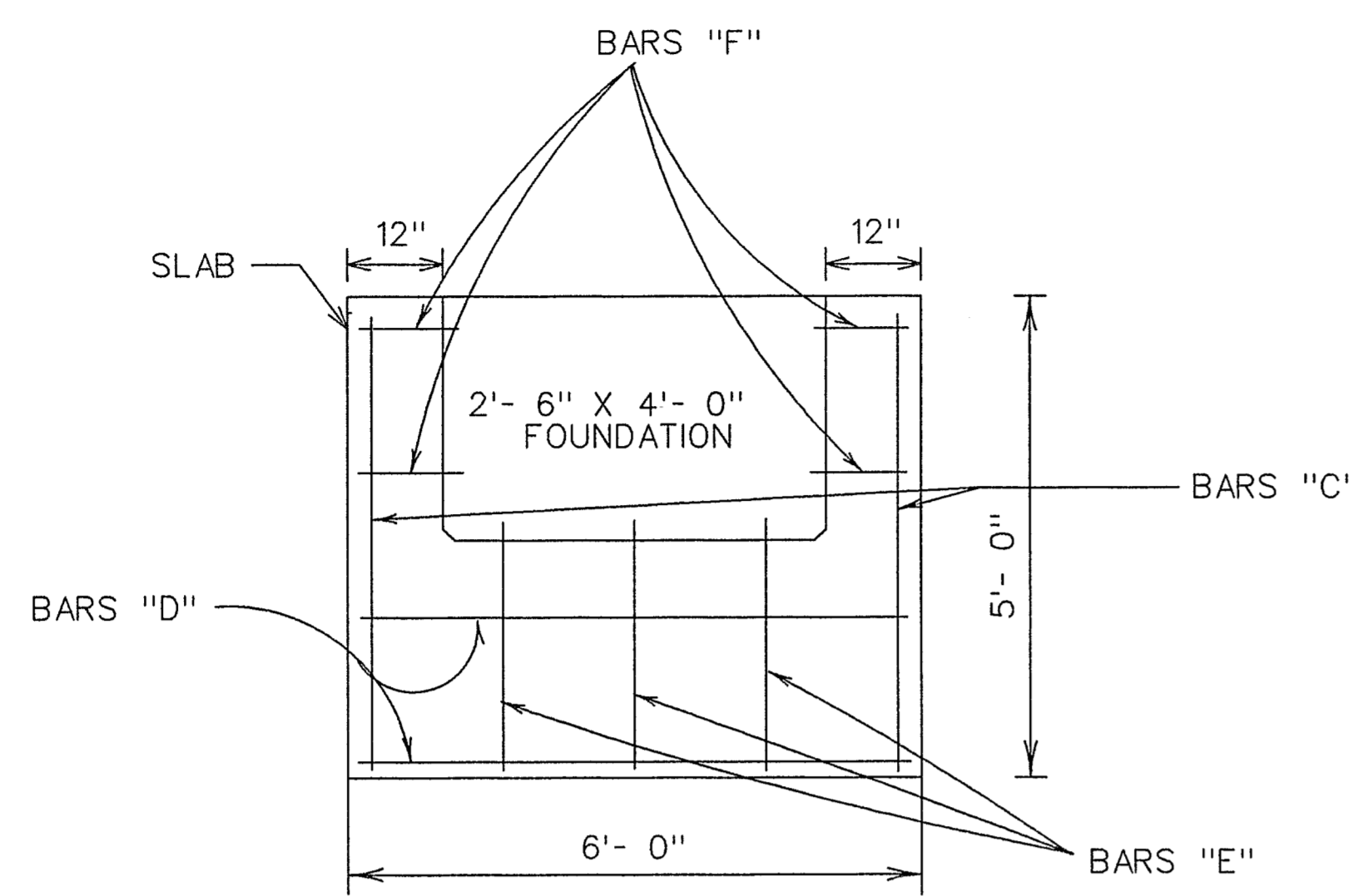
NOTES :

- (1) ANCHOR BOLT DESIGN DEVELOPS THE FOUNDATION CAPACITY GIVEN UNDER FOUNDATION DESIGN LOADS.
- (2) FOUNDATION DESIGN LOADS ARE THE ALLOWABLE MOMENTS AND SHEARS AT THE BASE OF THE STRUCTURE.
- (3) FIELD PENETROMETER READINGS AT A DEPTH OF APPROXIMATELY 3 TO 5 FEET MAY BE USED TO ADJUST SHAFT LENGTHS.
- (4) IF ROCK IS ENCOUNTERED, THE DRILL SHAFT SHALL EXTEND A MINIMUM OF TWO DIAMETERS INTO SOLID ROCK.
- (5) DECIMAL LENGTHS IN DESIGN TABLE ARE TO ALLOW INTERPOLATION FOR OTHER PENETROMETER VALUES.



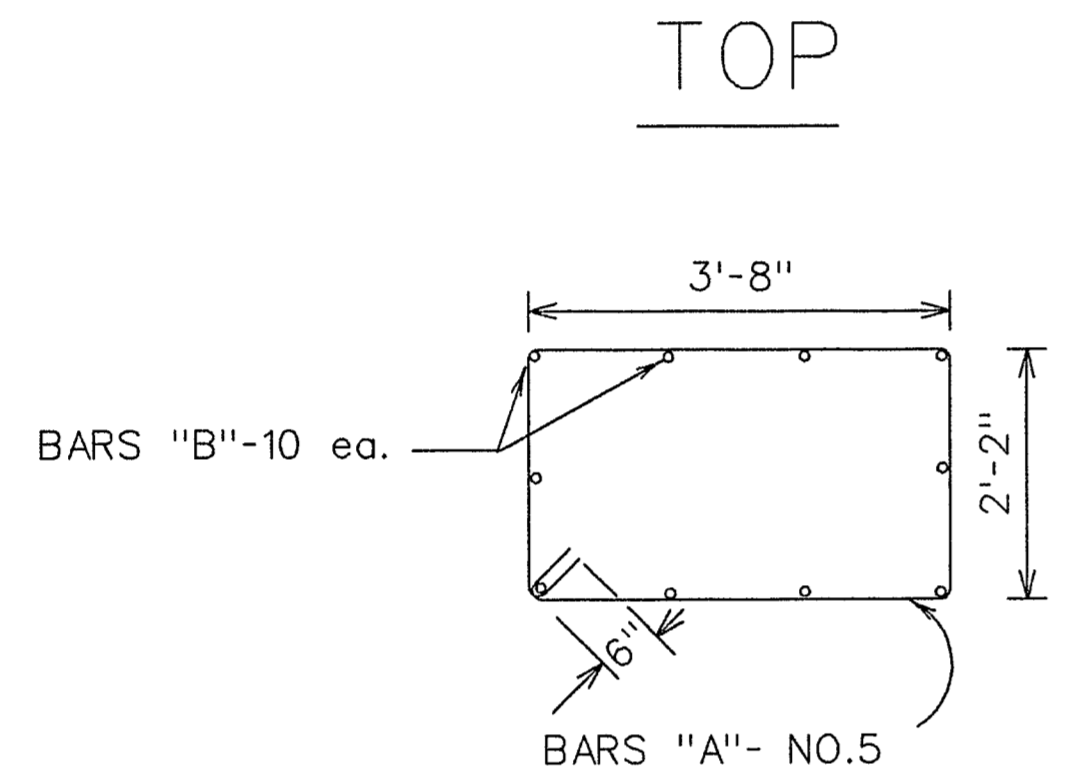
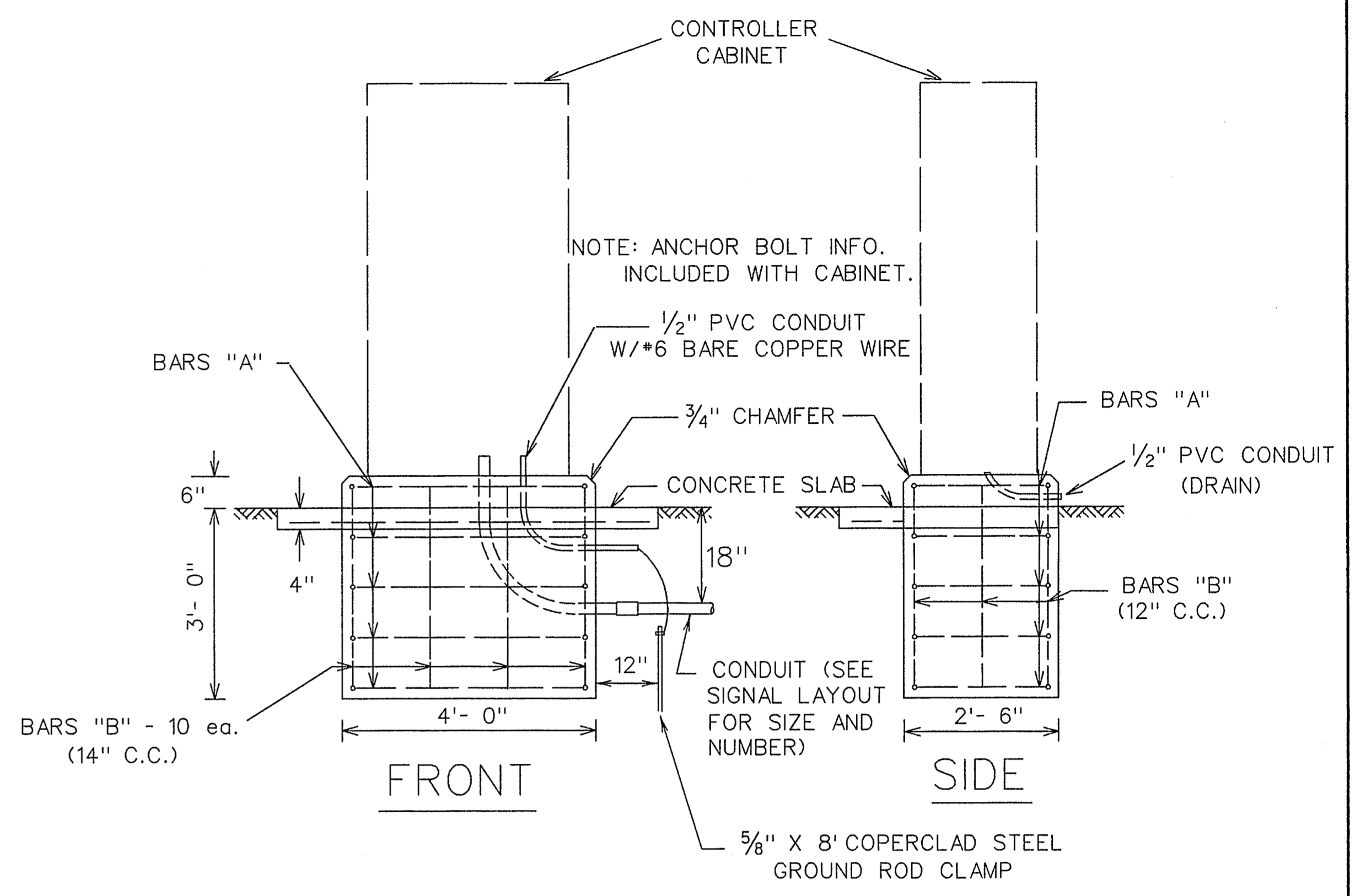
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DATE	REVISION	BY
TOWN OF ADDISON DALLAS COUNTY, TEXAS		
TRAFFIC SIGNAL POLE FOUNDATIONS		
PROJECT NO. 641153.01000 BARTON-ASCHMAN ASSOCIATES INC. ENGINEERS - DALLAS, TEXAS		
DESIGNED	DRAWN	DATE
APPROVED APM	CHECKED APM	05/27/97
SCALE		FILE
1" = 20'		slgdt44.dgn
SHEET		10 OF 15

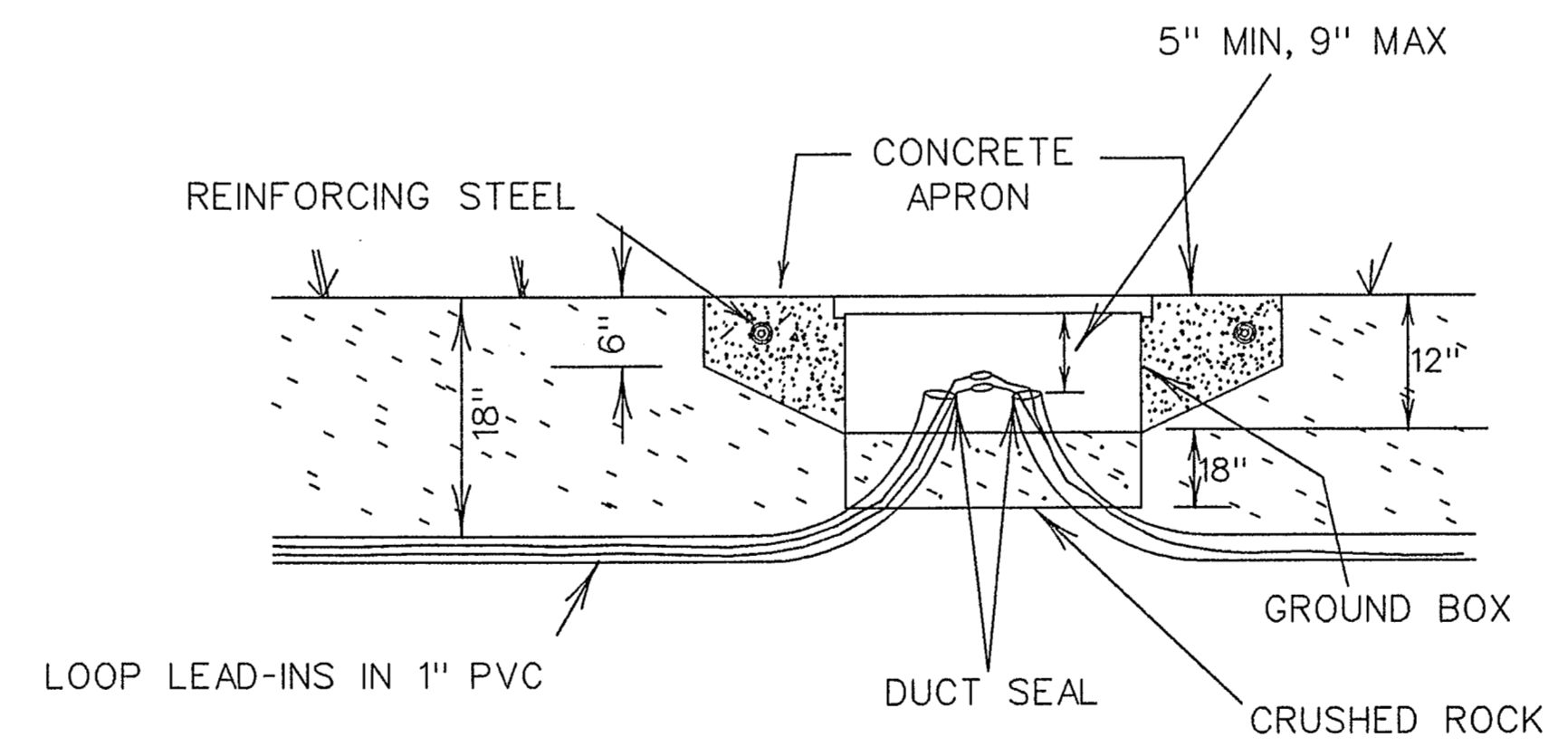
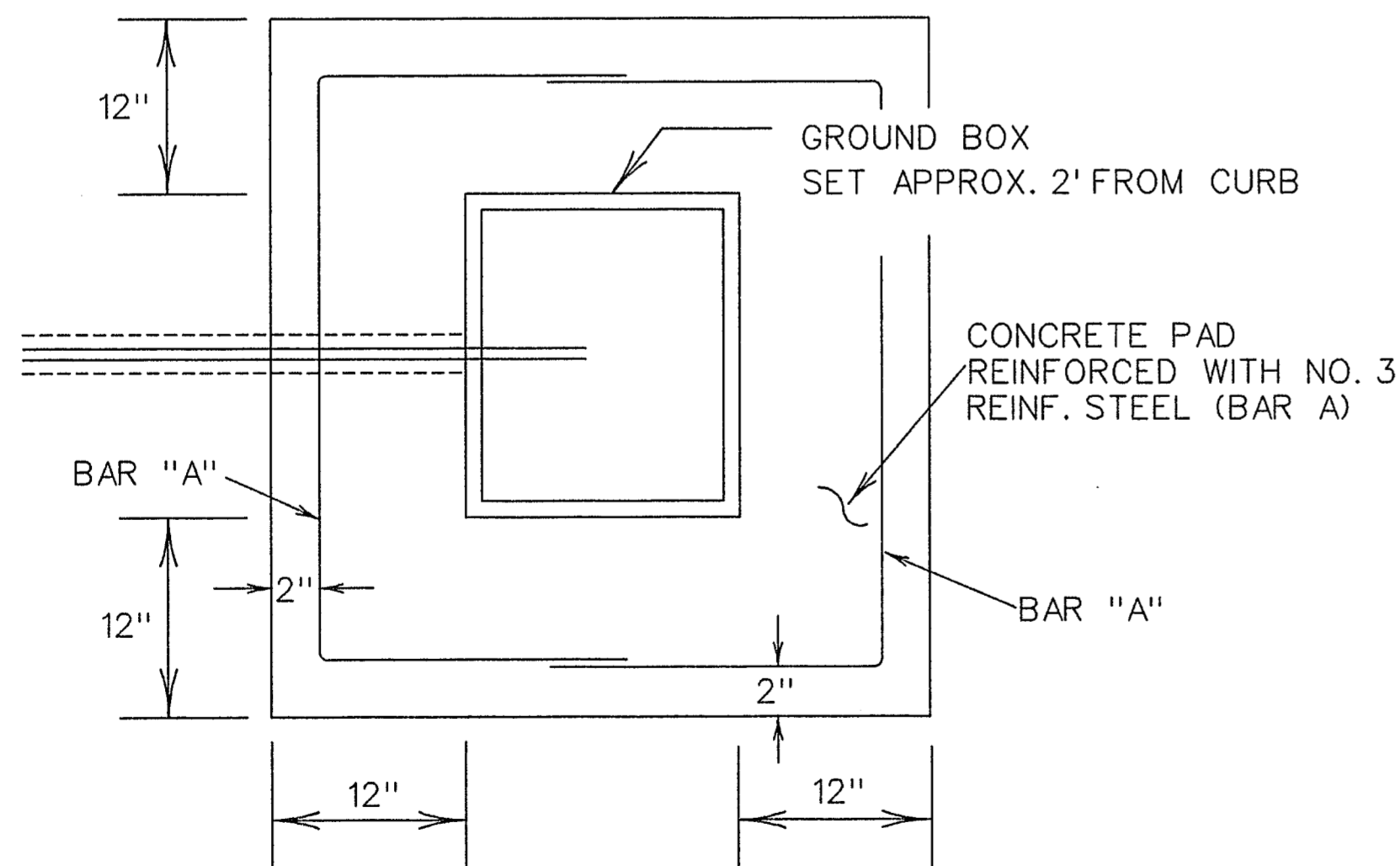


BAR	NO. BARS	SIZE	LENGTH	SPACING
A	6	5	12'-8"	9.5" C.C.
B	10	5	3'-2"	VAR.
C	2	3	4'-8"	16.5" C.C.
D	2	3	5'-8"	18" C.C.
E	3	3	2'-8"	16.5" C.C.
F	4	3	1'-2"	18" C.C.

PROVIDE 2" MIN. COVER FOR TOP AND SIDES



CONTROLLER FOUNDATION DETAILS



PLAN

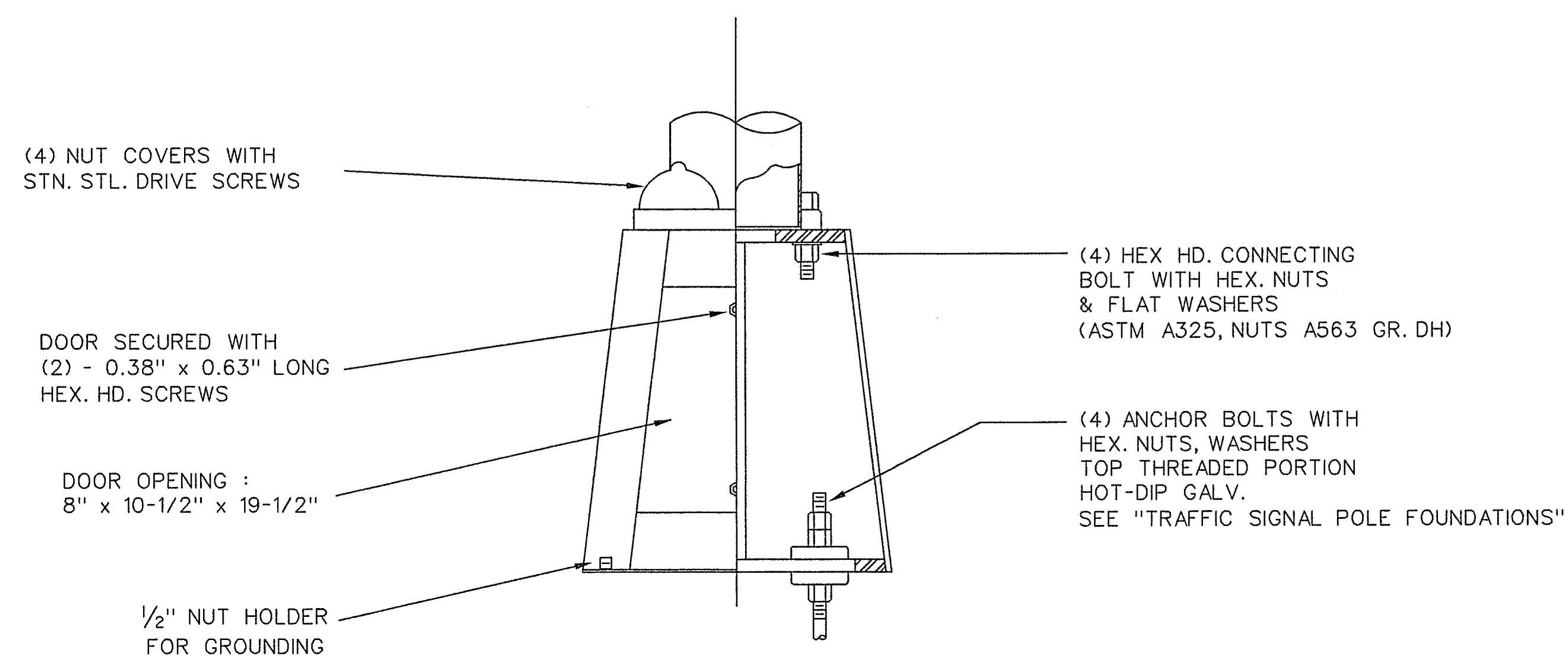
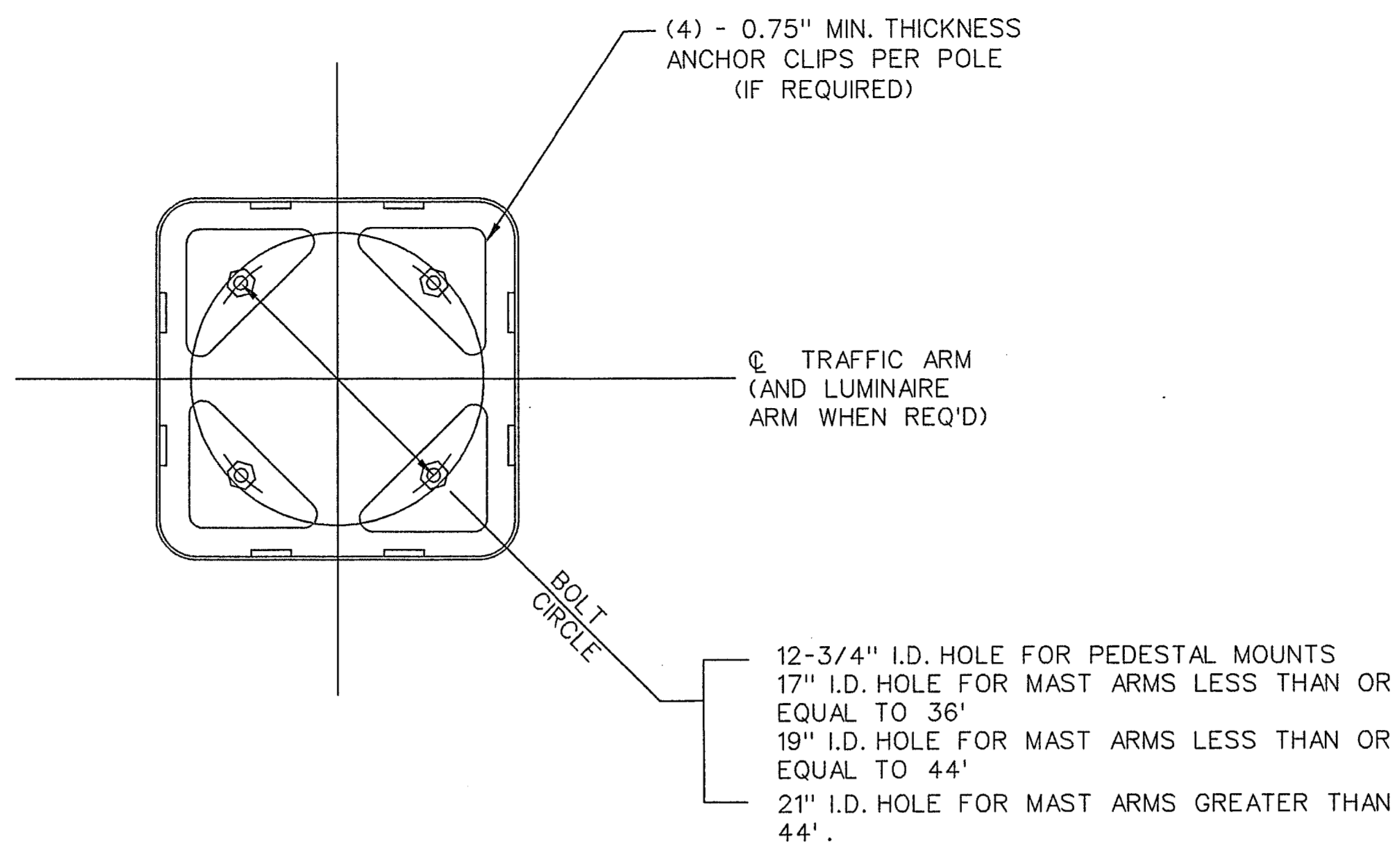
ELEVATION

GROUND BOX INSTALLATION DETAILS



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Alan P. McNeil

DATE	REVISION	BY
TOWN OF ADDISON DALLAS COUNTY, TEXAS		
CONTROLLER FOUNDATION AND GROUND BOX INSTALLATION DETAILS		
PROJECT NO. 641153.01000 BARTON-ASCHMAN ASSOCIATES INC. ENGINEERS - DALLAS, TEXAS		
DESIGNED	DRAWN	DATE 05/27/97
APPROVED APM	CHECKED APM	SCALE 1" = 20'
		FILE gldet55.dgn
		SHEET 11 OF 15

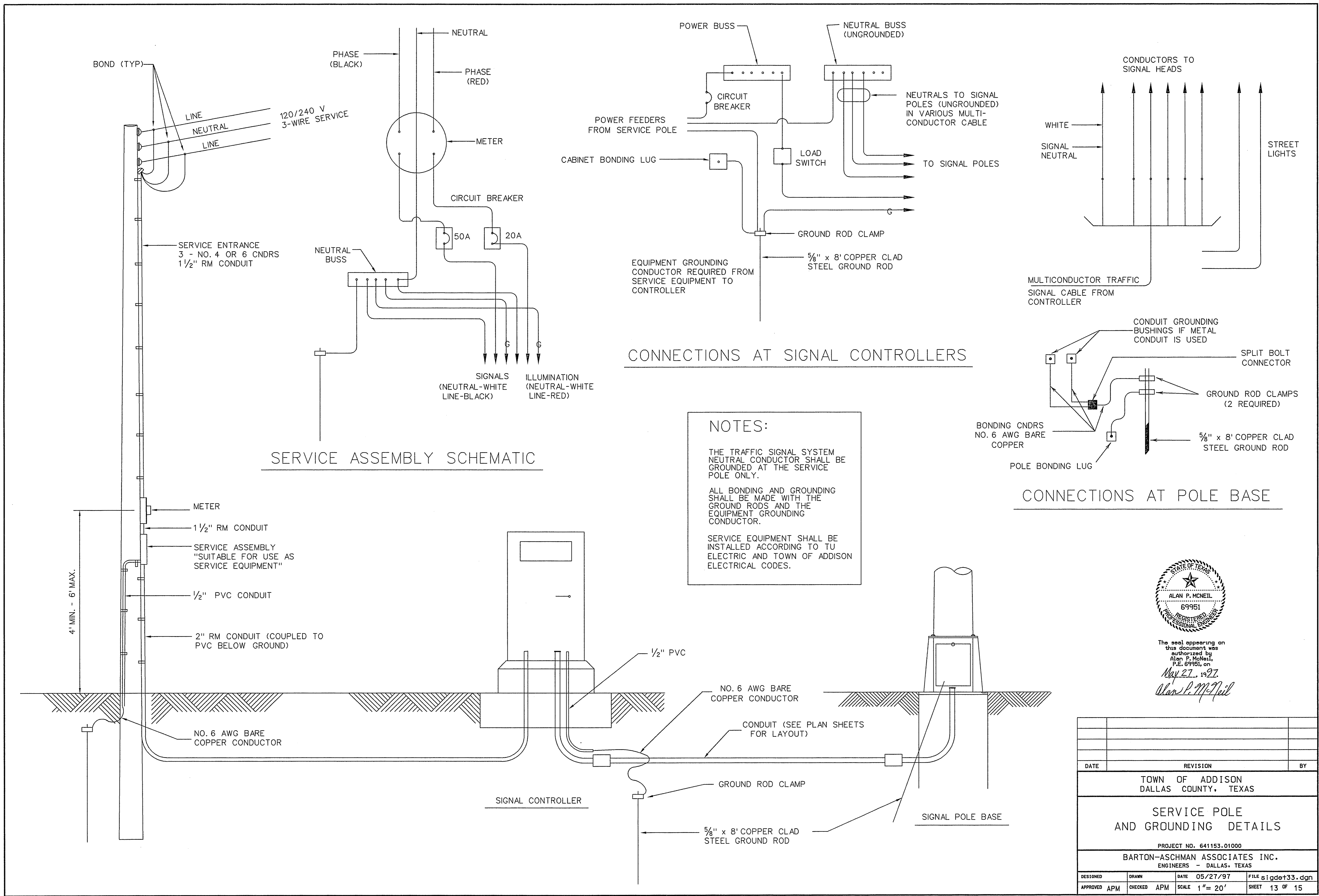


TRANSFORMER BASE
MOUNTING DETAILS



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Alan P. McNeil

DATE	REVISION	BY
TOWN OF ADDISON DALLAS COUNTY, TEXAS		
TRANSFORMER BASE DETAILS		
PROJECT NO. 641153.01000 BARTON-ASCHMAN ASSOCIATES INC. ENGINEERS - DALLAS, TEXAS		
DESIGNED	DRAWN	DATE 05/27/97
APPROVED APM	CHECKED APM	SCALE 1" = 20'
		FILE sigdet22.dgn
		SHEET 12 OF 15



SERVICE ASSEMBLY SCHEMATIC

CONNECTIONS AT SIGNAL CONTROLLERS

CONNECTIONS AT POLE BASE

NOTES:

THE TRAFFIC SIGNAL SYSTEM NEUTRAL CONDUCTOR SHALL BE GROUNDED AT THE SERVICE POLE ONLY.

ALL BONDING AND GROUNDING SHALL BE MADE WITH THE GROUND RODS AND THE EQUIPMENT GROUNDING CONDUCTOR.

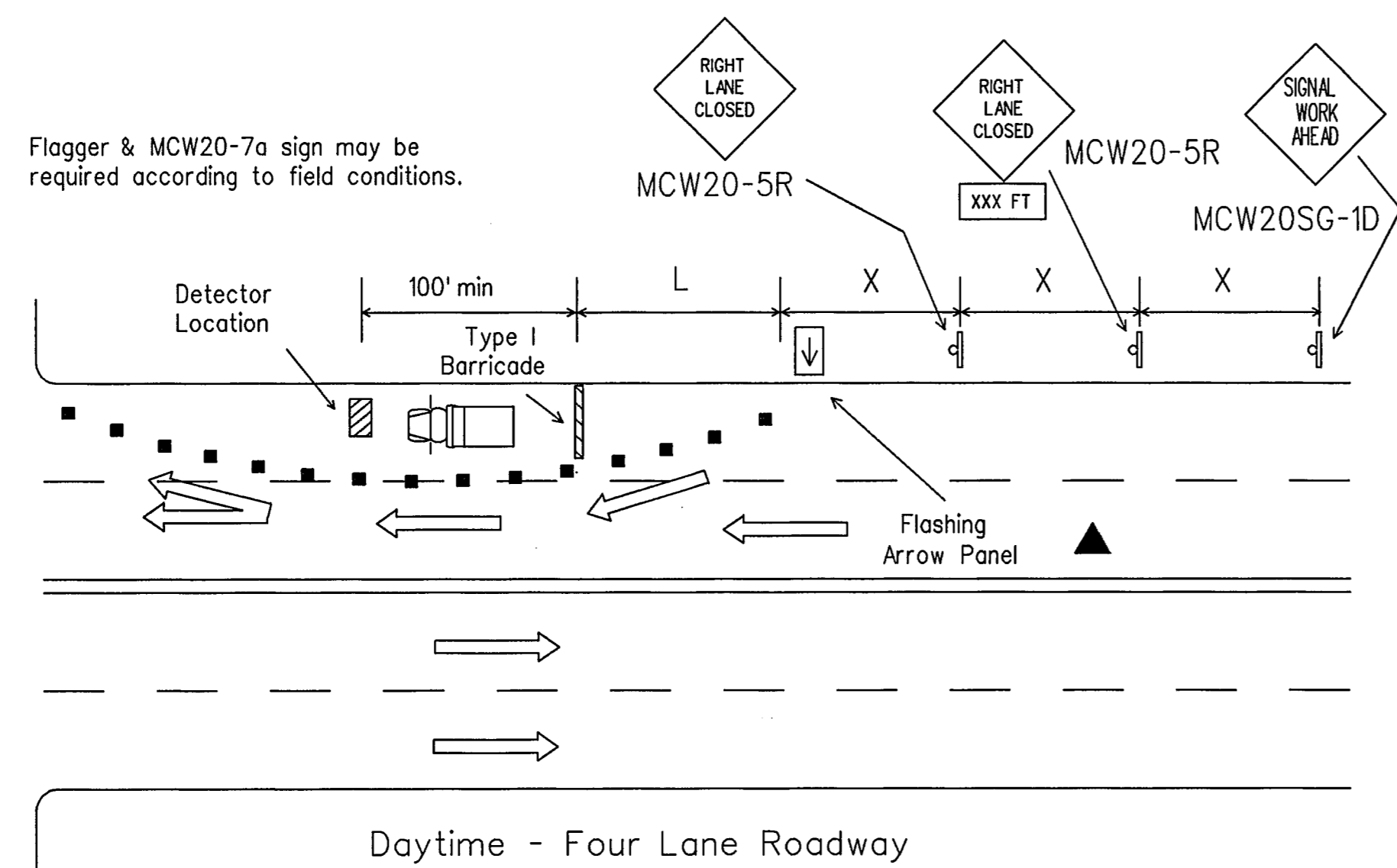
SERVICE EQUIPMENT SHALL BE INSTALLED ACCORDING TO TU ELECTRIC AND TOWN OF ADDISON ELECTRICAL CODES.



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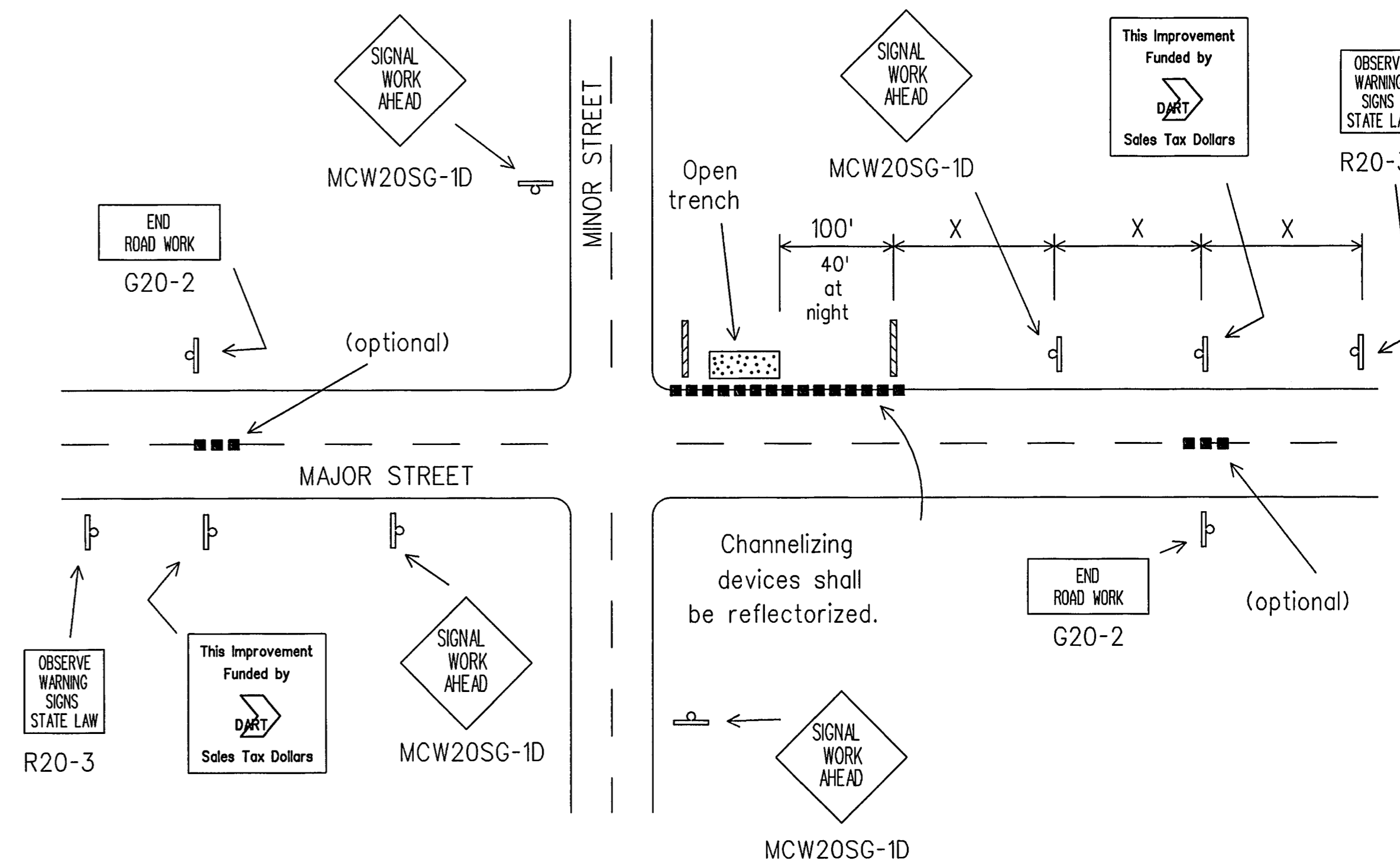
Alan P. McNeil

DATE	REVISION	BY
TOWN OF ADDISON DALLAS COUNTY, TEXAS		
SERVICE POLE AND GROUNDING DETAILS		
PROJECT NO. 641153.01000		
BARTON-ASCHMAN ASSOCIATES INC. ENGINEERS - DALLAS, TEXAS		
DESIGNED	DRAWN	DATE
APPROVED	CHECKED	SCALE
APM	APM	1" = 20'
		FILE
		sigdot33.dgn
		SHEET
		13 OF 15

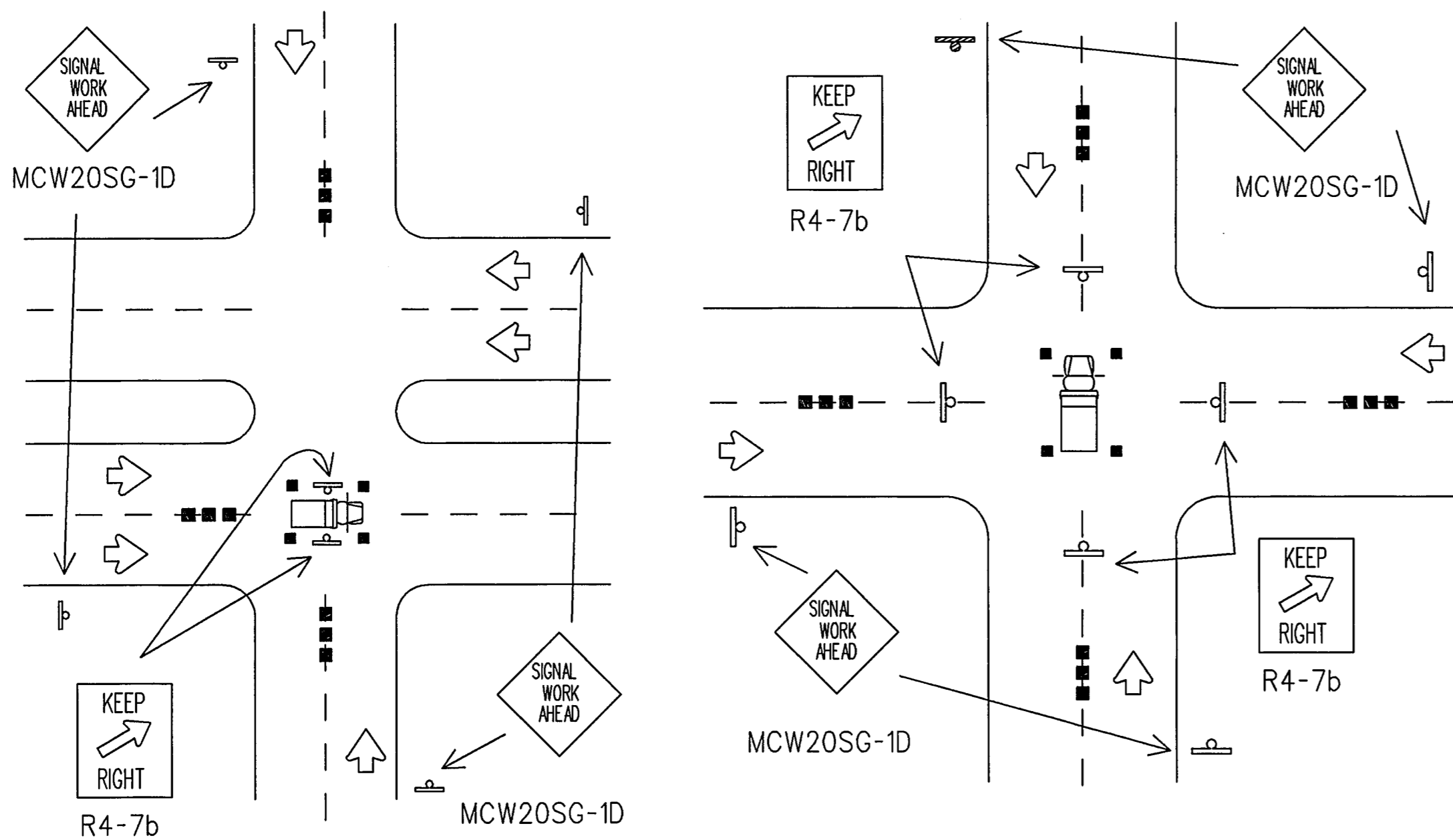


TYPICAL DETECTOR INSTALLATION

Nighttime - 1. Channelizing Devices shall be reflectorized.
2. Barricades shall have Flashing Warning Lights.



TYPICAL ADVANCE SIGNING



TYPICAL HANGING SIGNAL INSTALLATIONS

Advance warning channelizing devices are optional.

Posted Speed	Formula	Minimum Desirable Taper Lengths			Suggested Maximum Spacing of Device		Minimum Sign Spacing X Distance
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'-75'	120'
35		205'	225'	245'	35'	70'-90'	160'
40		265'	295'	320'	40'	80'-100'	240'
45		450'	495'	540'	45'	90'-110'	320'

L=Length of Taper (FT.) W=Width of Offset (FT.) S=Posted Speed (MPH)

- Legend**
- Heavy Work Vehicle
 - Type I Barricade
 - Channelizing Devices
 - Flashing Arrow Panel



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▲ The arrow panel may be omitted when stated elsewhere in the plans.

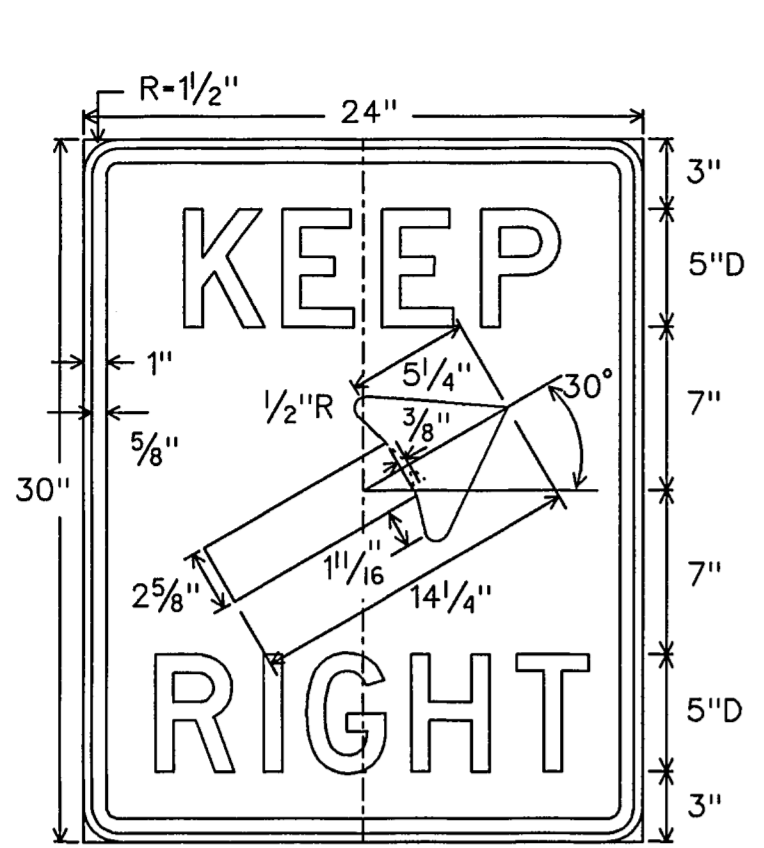
Typical channelizing device is the 28" cone. Plastic drums may be used if approved by the Owner. Metal drums shall NOT be used as a channelizing device or sign support.

Advance signs and barricades shall be in place when signal construction operations are in progress. The contractor may remove advance signs and barricades when no construction operations are underway if permitted elsewhere in the plans. Obstructions or hazards at the work area shall be clearly marked and delineated at all times.

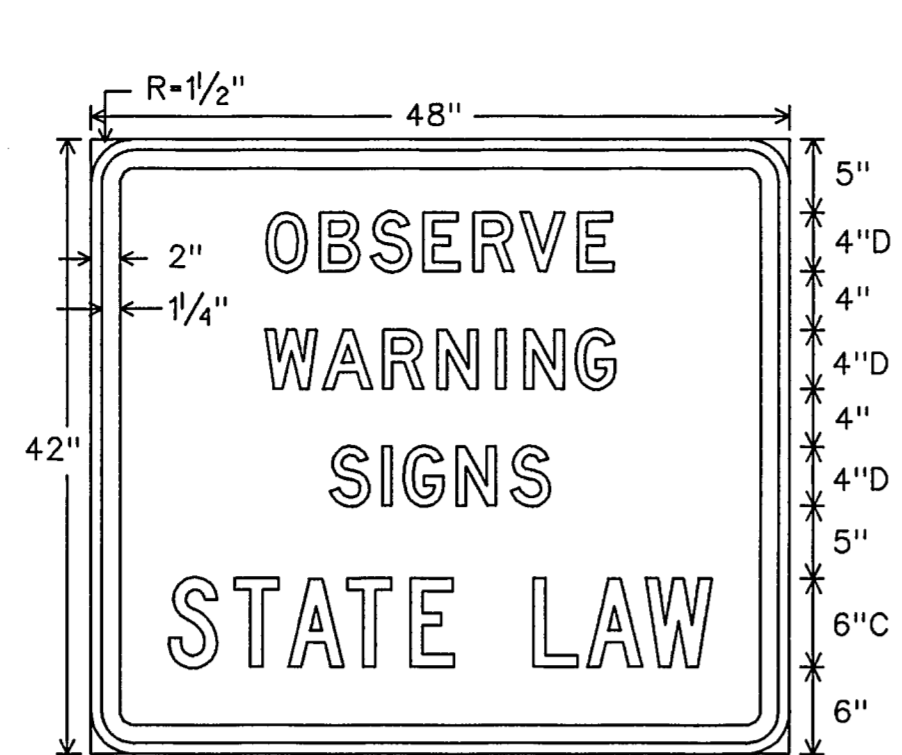
All holes, trenches or other hazardous areas shall be adequately protected by barricades, lights or other protective devices. Trenches shall be covered or surrounded with orange plastic construction fence as directed by the Engineer.

Flagger and MCW20-7a sign may be required according to field conditions. Vehicles parked in roadway shall be equipped with two strobes. High level flags at corners of vehicle may also be used. Work operations that require work vehicle in traveled way 20 minutes or less may use cones, high level flags and strobes as advance warning devices. Cones should only be placed around vehicle. Flaggers may be used on high speed rural intersections.

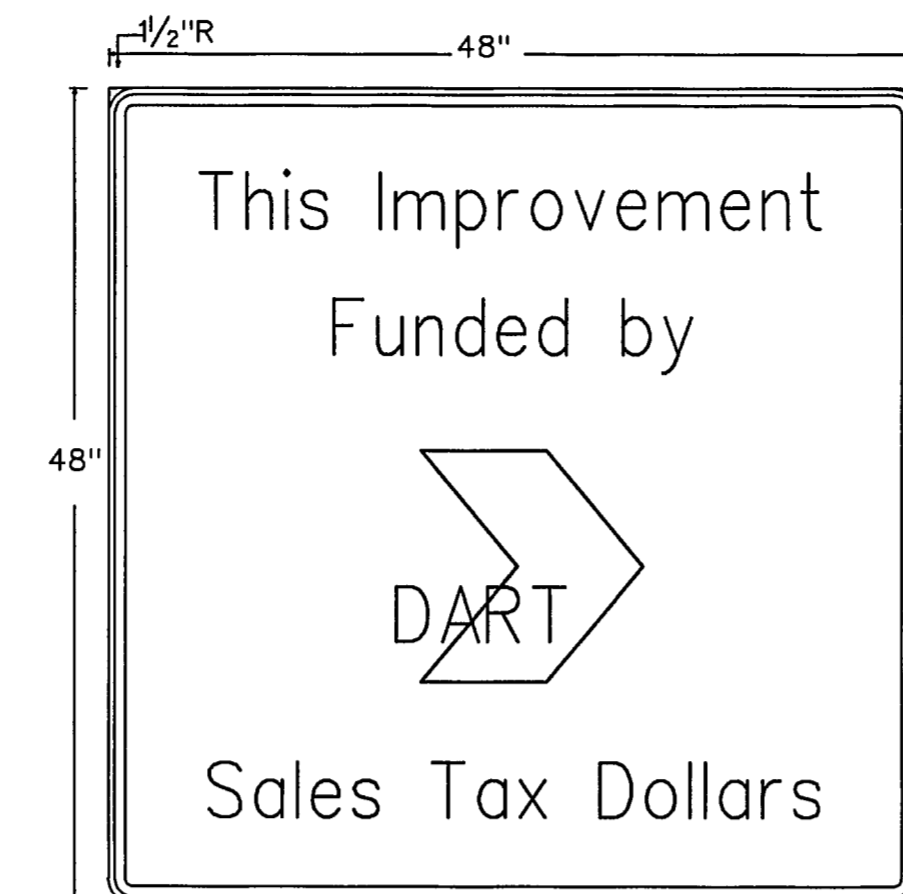
DATE	REVISION	BY
TOWN OF ADDISON DALLAS COUNTY, TEXAS		
TRAFFIC CONTROL PLAN DETAILS SHEET 1 OF 2		
PROJECT NO. 641153.01000		
BARTON-ASCHMAN ASSOCIATES INC. ENGINEERS - DALLAS, TEXAS		
DESIGNED	DRAWN	DATE
APPROVED APM	CHECKED APM	05/27/97
SCALE		FILE
1" = 20'		workzone.dgn
SHEET		14 OF 15



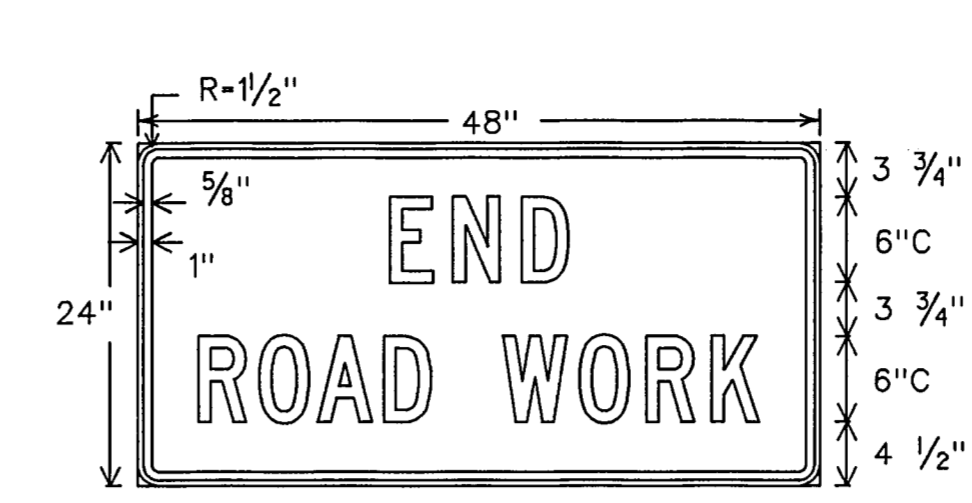
R4-7b Letters - Black
Symbol - Black
Border - Black
Background - White Refl.
24" X 30"



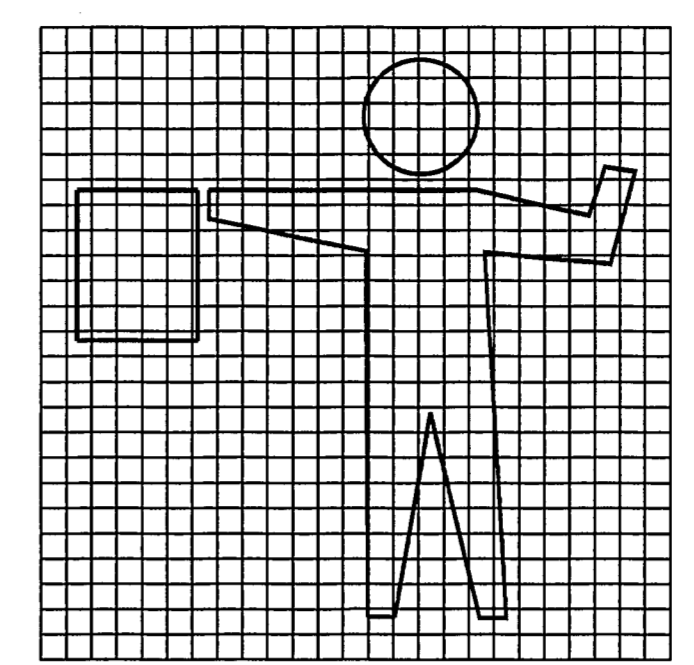
R20-3 Letters - Black
Border - Black
Background - White Refl.
48" X 42"



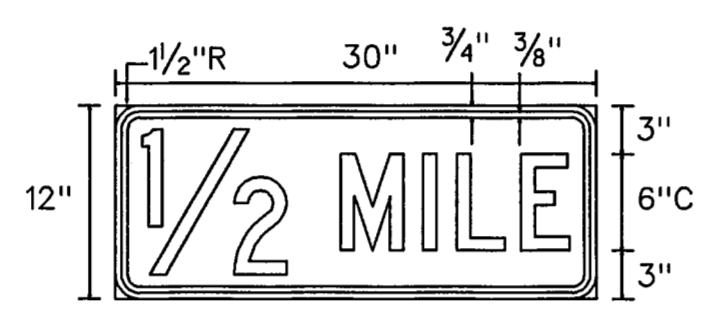
Letters - Navy Blue
DART Symbol - Yellow
Background - White Refl.
48" X 48"



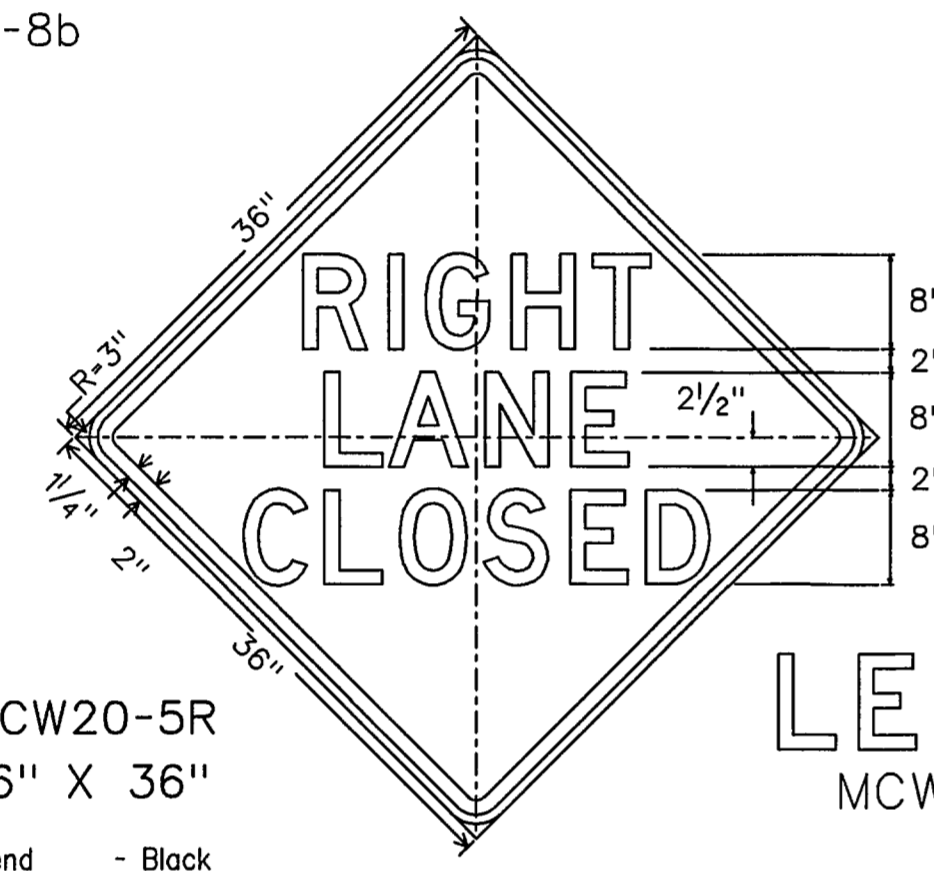
G20-2a Letters - Black
Border - Black
Background - Orange Refl.
48" X 24"



R4-8b
24" X 30"

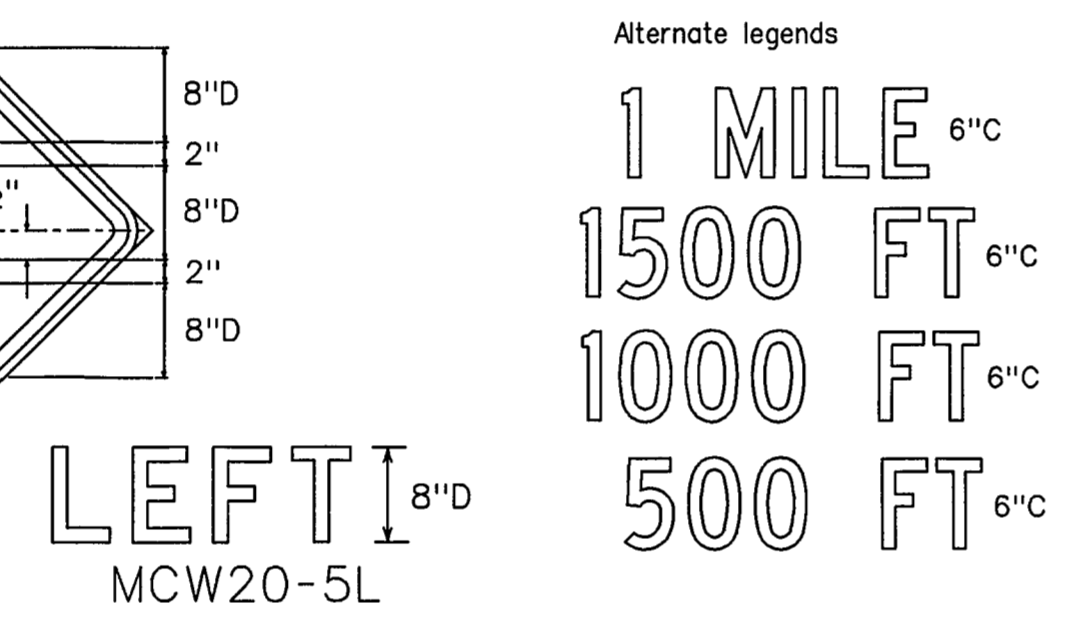


Distance Plaque
30" X 12"

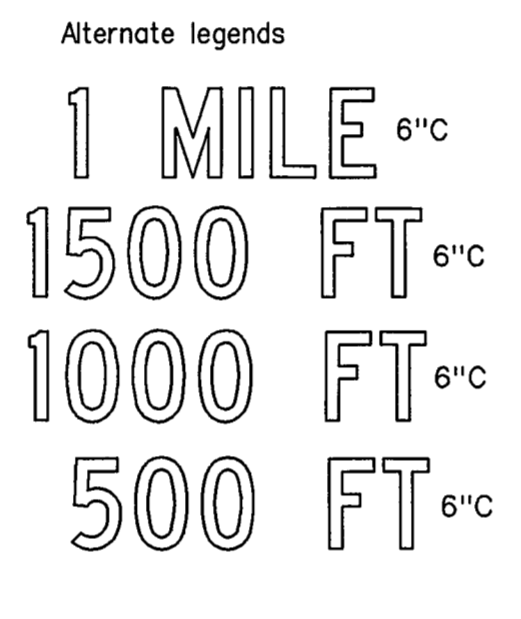


MCW20-5R
36" X 36"

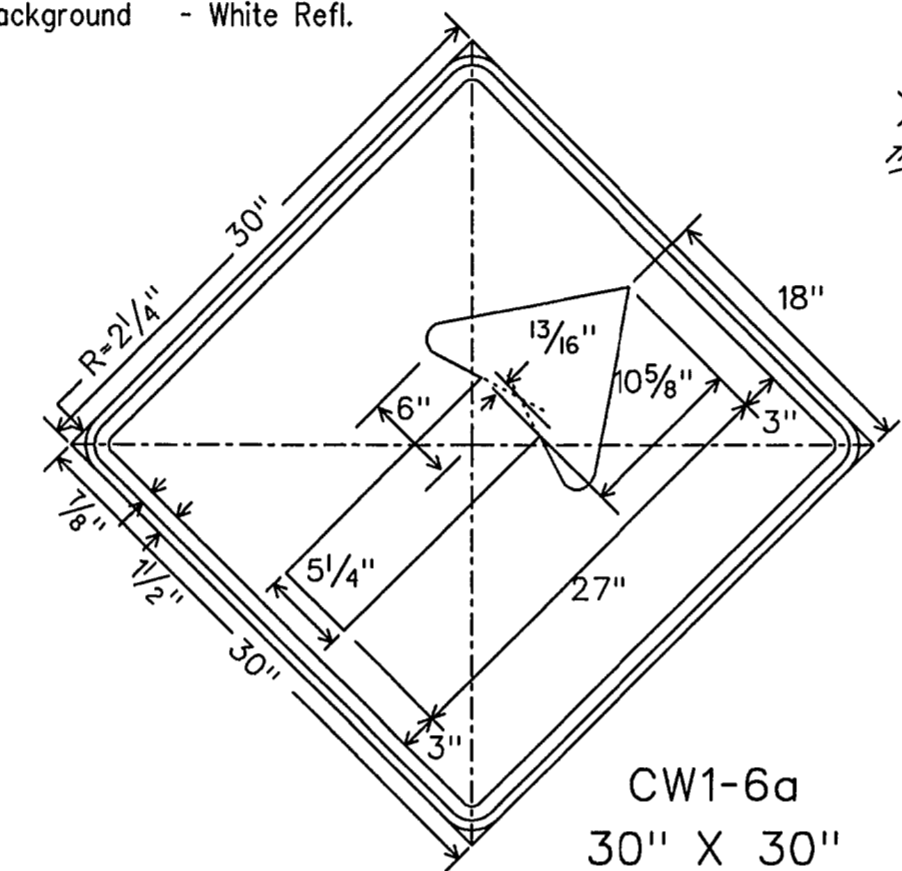
Legend - Black
Border - Black
Background - Orange Refl.



MCW20-5L
36" X 36"

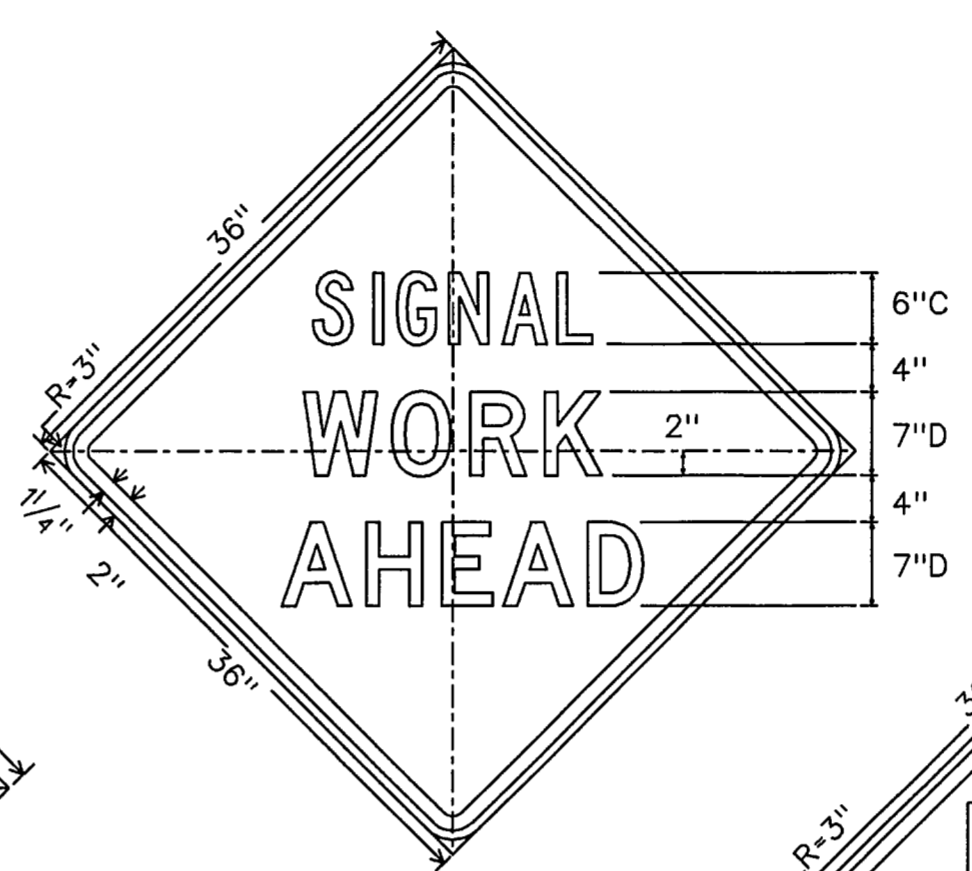


Alternate legends
1 MILE 6" C
1500 FT 6" C
1000 FT 6" C
500 FT 6" C



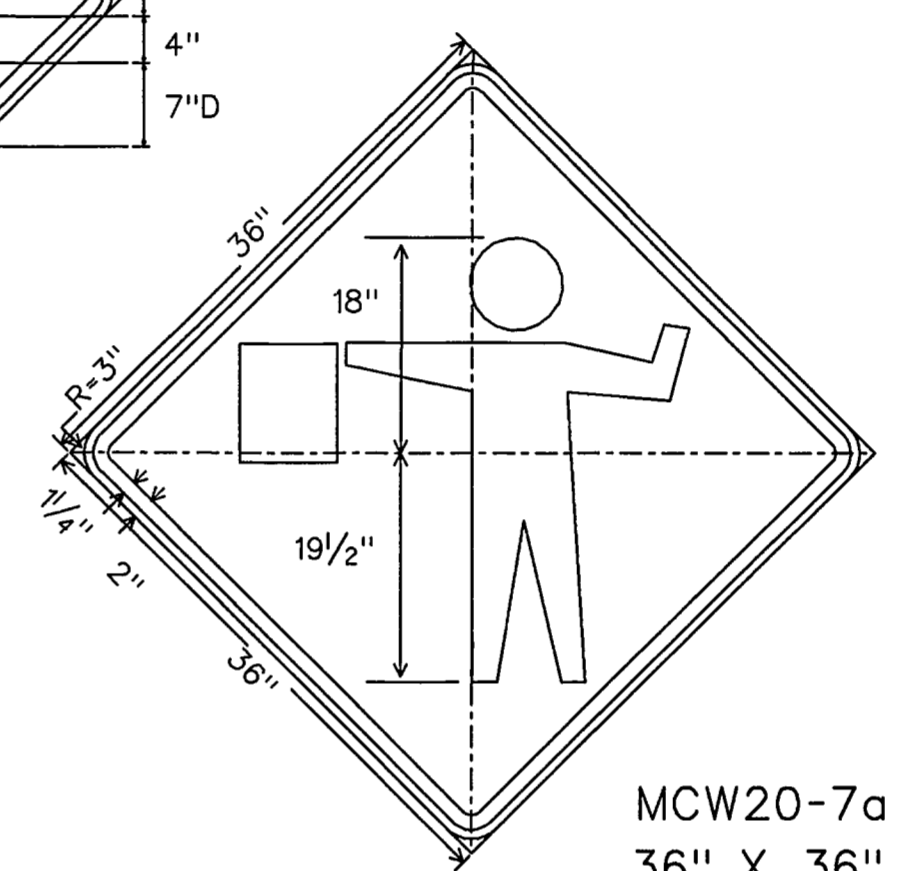
CW1-6a
30" X 30"

Legend - Black
Border - Black
Background - Orange Refl.



MCW20SG-1D
36" X 36"

Letters - Black
Border - Black
Background - Orange Refl.

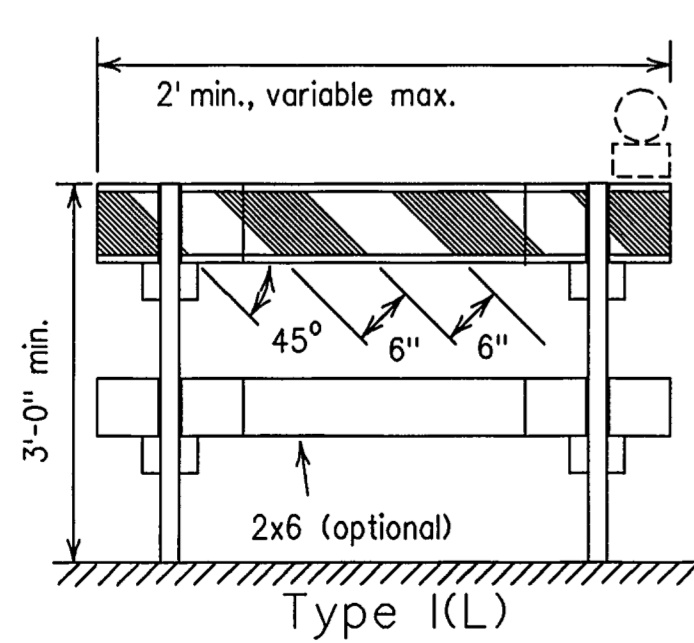
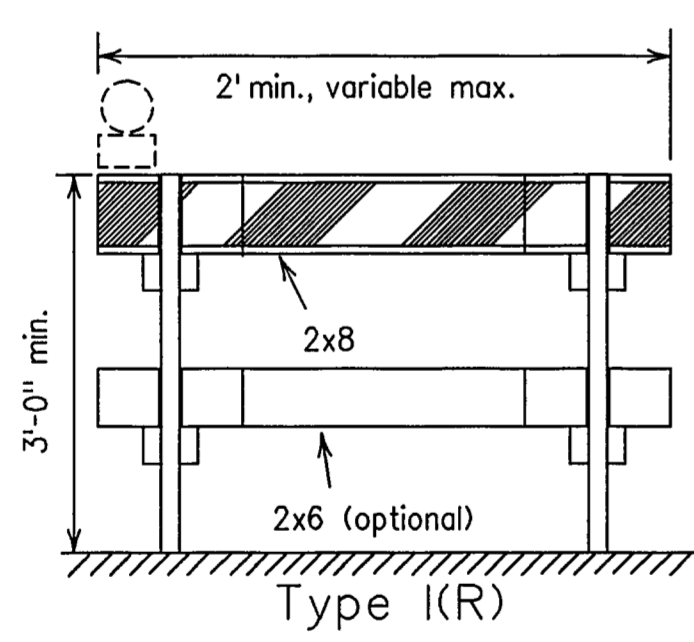


MCW20-7a
36" X 36"

Legend - Black
Border - Black
Background - Orange Refl.

TYPICAL SIGNS USED IN TRAFFIC SIGNAL CONSTRUCTION AREAS

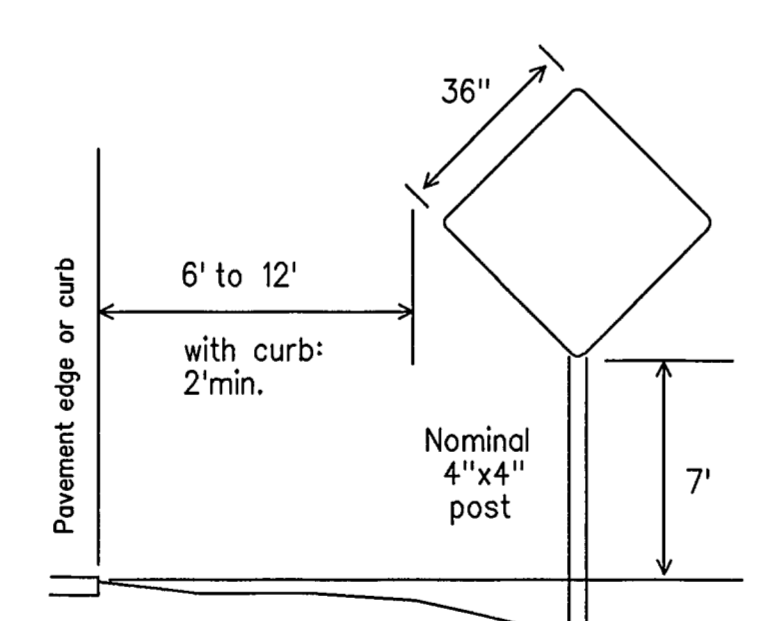
TYPE I BARRICADES



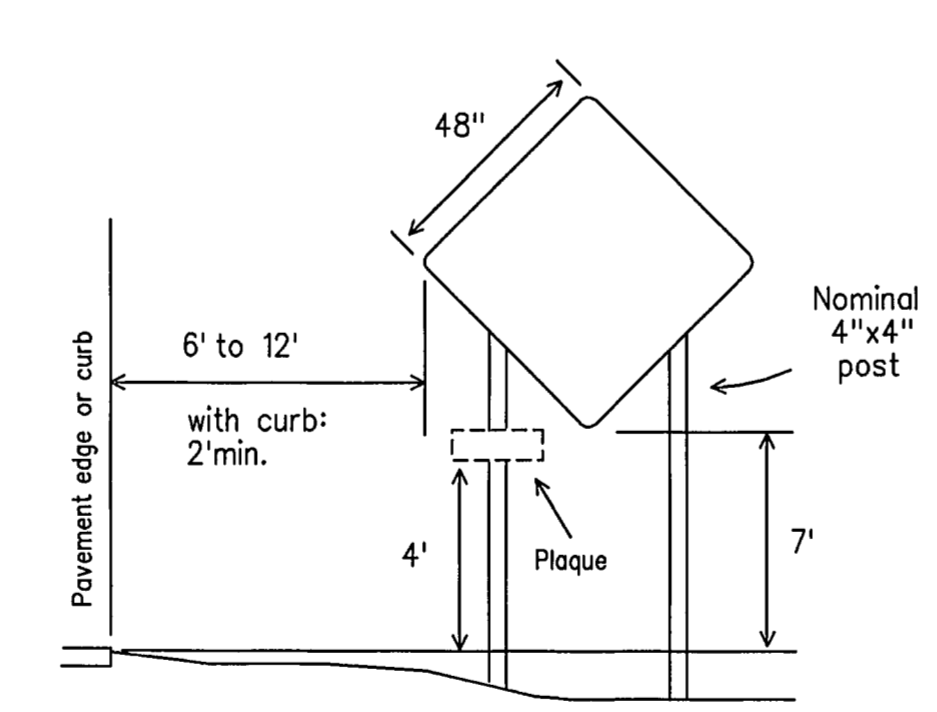
For Type I and II Barricades, both sides of the rails shall have reflective orange and reflective white striping.

TYPICAL SIGN SUPPORTS

FIXED SUPPORTS



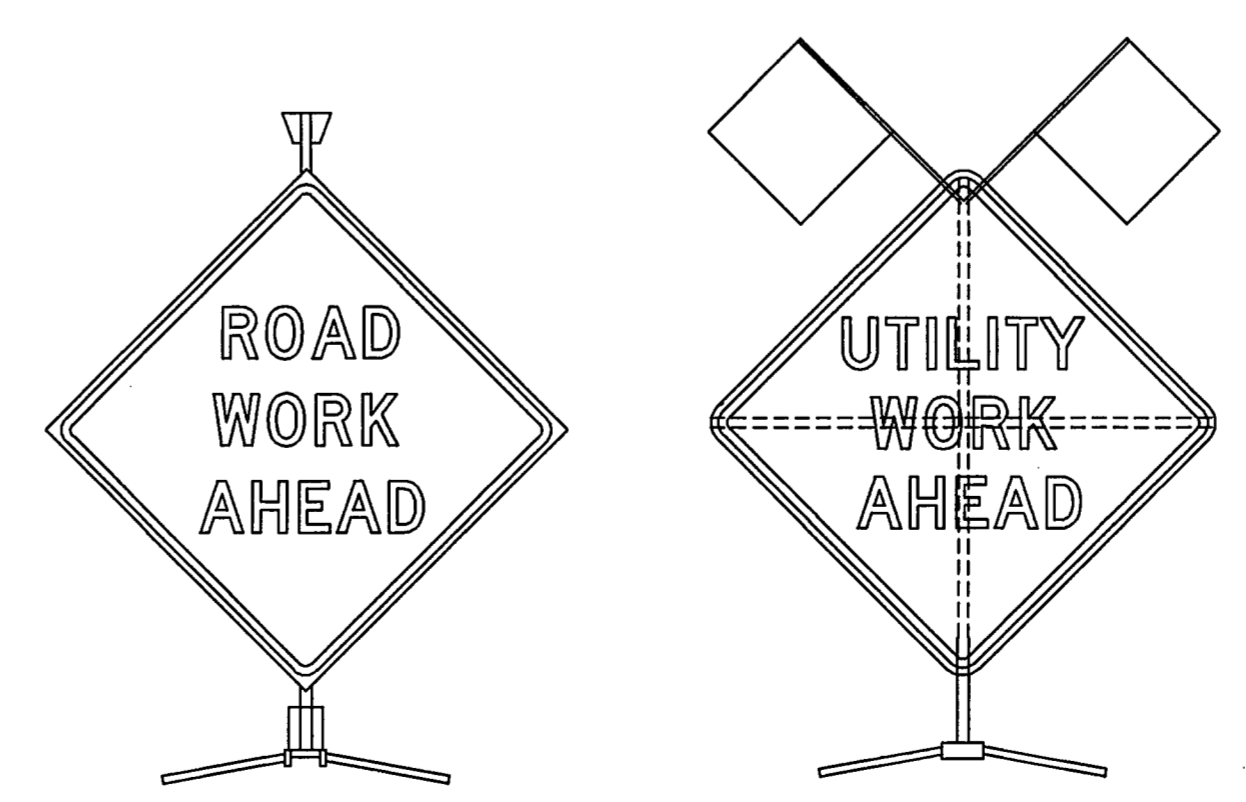
WOOD POST SIGN SUPPORT: for 36" x 36" and smaller warning signs, and other signs having an area not exceeding 10 sq.ft.



WOOD POST SIGN SUPPORT: for 48" x 48" warning sign.

Signs erected on fixed supports shall be at a minimum height of 7 feet. Embedment depth for wood sign supports and post type barricades should be 3 feet minimum, unless specified elsewhere in the plans. Driveable sign supports may be used and shall be installed in accordance with the manufacturers recommendations.

PORTABLE SUPPORTS



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Alan P. McNeil

GENERAL

All sign usage and erection shall be in strict accordance with the "Texas Manual on Uniform Traffic Control Devices for Streets and Highways" (TMUTCD). The Contractor shall maintain each sign as directed by the Owner. The Contractor shall use the sign designs shown in the "Standard Highway Sign Designs for Texas" (SHSD). All work zone signs provided for in the TMUTCD but not detailed in the plans may be used when directed by the Owner.

WARNING LIGHTS

When required by the Owner the Contractor shall furnish a copy of the warning light certification. The certification will be by the manufacturer, stating the lights meet the requirements of the latest ITE Purchase Specification for Flashing and Steady-Burn Warning Lights.

REFLECTIVE SHEETING

Type A, B or C sheeting may be used for all, day only, applications. Type A sheeting should be used for all, white background, regulatory signs. Type C sheeting should be used for all other applications. The above applications of sheeting grades to different type signs will apply unless otherwise specified in the plans. TYPE A - Engineer Grade TYPE B - Super Engineer Grade TYPE C - High Specific Intensity

SUPPORTS AND MOUNTING HEIGHT

Regardless of the type of support used, or duration of work, regulatory signs should not be erected at heights less than 7 feet above the pavement surface.

Wood sign post supports shall be painted white. Signs may be erected on portable or fixed supports for use on construction projects to warn or guide traffic through and/or around the actual construction area.

PORTABLE - Signs erected on portable supports for use on construction projects normally mean signs which are used during the daytime to warn or guide traffic through and/or around the actual construction area, but at the end of the workday such signs are removed.

Portable supports shall be as shown on this sheet. Signs with portable supports may be used for short term, short duration and mobile operations. The bottom of the sign shall be a minimum of one (1) foot above the pavement surface.

FIXED - Signs erected on fixed supports for use on construction projects normally mean signs that are to remain in place for both daytime and nighttime usage to regulate, warn and guide traffic in advance of and within the limits of the project including the crossroad approaches. Signs erected on fixed supports should be at a minimum height of seven (7) feet.

SIGN SUPPORT WEIGHTS

Where sign supports require the use of weights to keep from turning over, the use of some type of sandbag is recommended. The use of pieces of rock, concrete, iron, steel or other solid objects will not be permitted. Sandbags shall only be placed along or upon the base supports of the device and shall not be suspended above ground level or hung with rope, wire, chains or other fasteners.

REMOVING OR COVERING

When sign messages may be confusing or no longer apply, the signs and supports shall be removed from roadway and shoulder, or the signs shall be completely covered. Turning signs from motorists view will not be allowed. When signs are covered the material used shall be opaque, such as heavy mil black plastic. Burlap shall not be used to cover signs. Signs shall be removed upon completion of the work. Duct tape or other adhesive material shall not be affixed to sign face.

DATE	REVISION	BY
TOWN OF ADDISON DALLAS COUNTY, TEXAS		
TRAFFIC CONTROL PLAN DETAILS SHEET 2 OF 2		
PROJECT NO. 641153.01000		
BARTON-ASCHMAN ASSOCIATES INC. ENGINEERS - DALLAS, TEXAS		
DESIGNED	DRAWN	DATE 05/27/97
APPROVED APM	CHECKED APM	SCALE 1" = 20'
		FILE workzone.dgn
		SHEET 15 OF 15

1-32