

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	SURVEY CONTROL
3	PROJECT CLEARANCE SUMMARY
4	MATERIALS SUMMARY
5-6	TYPICAL SECTIONS
7-10	DEMOLITION PLANS
11-14	ROADWAY PLANS
15	STORM SEWER SUMMARY
16	NORTH CURB RAMP DETAILS
17	SOUTH CURB RAMP DETAILS
18	NORTH DRIVEWAY DETAILS
19	SIGNAL MATERIALS SUMMARY
20	TRAFFIC SIGNAL PLAN
21	SIGNAL FIELD WIRING DIAGRAMS
22	VIDEO DETECTION DIAGRAM
23	PHASE & CONDUIT DIAGRAM
24	SIGN DETAILS
25	TRAFFIC SIGNAL MOUNTING DIAGRAM
26	EMERGENCY SIGNAL MATERIALS SUMMARY
27	EMERGENCY SIGNAL PLAN
28	EMERGENCY SIGNAL DIAGRAM
29	EMERGENCY SIGNAL MOUNTING DIAGRAM
30	SIGNING ERECTION SPECIFICATIONS
31-34	STRIPING AND SIGNING PLANS
35	INLET PROTECTION PLAN
36-73	STANDARD DRAWINGS

IDAHO

TRANSPORTATION DEPARTMENT

PLAN AND PROFILE OF PROPOSED

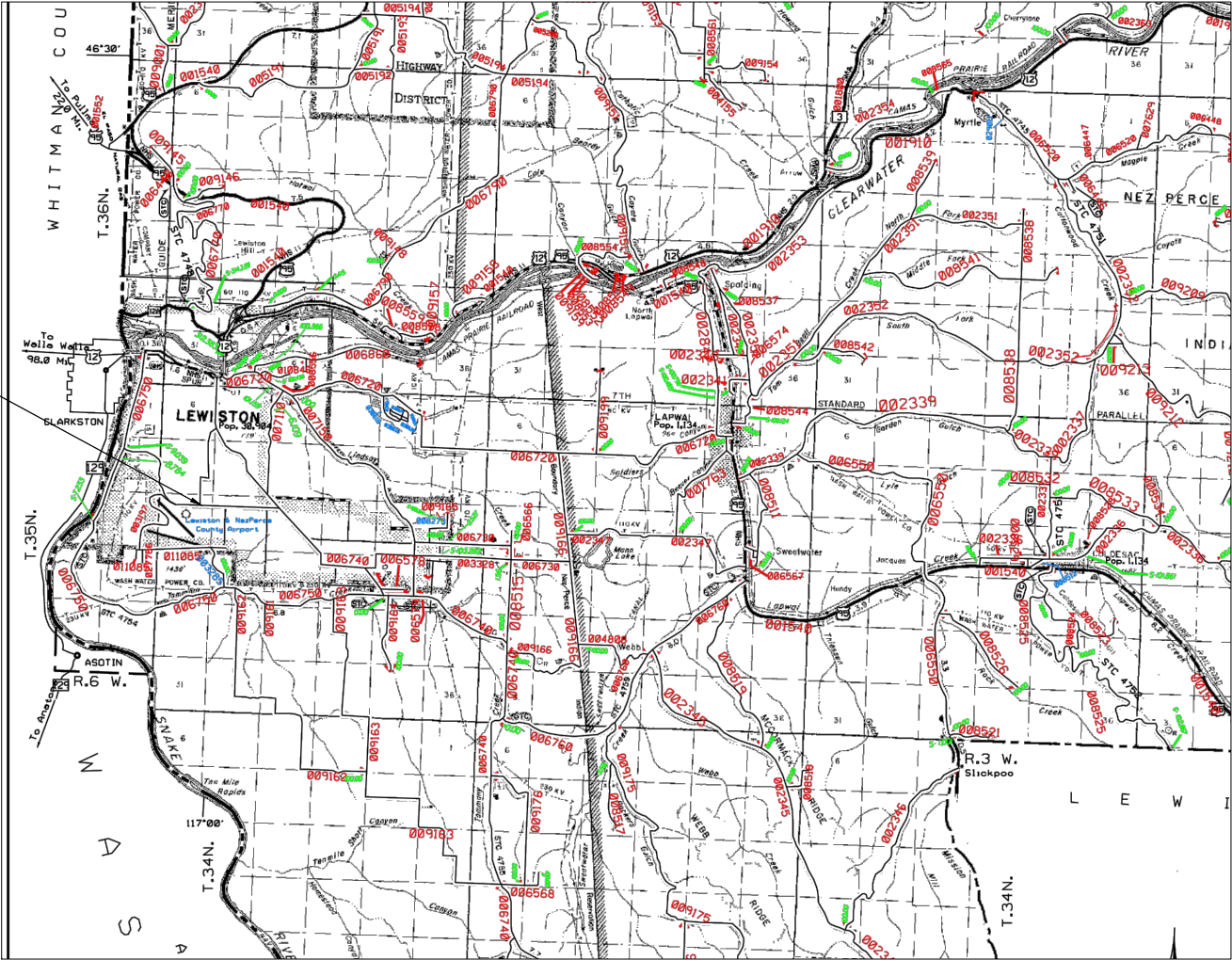
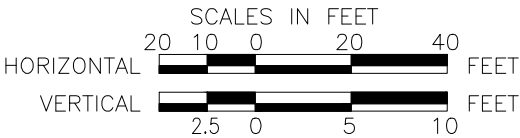
BRYDEN AVENUE & 5TH STREET INTERSECTION

PROJECT NO. TR036

KEY NO. XXXXX

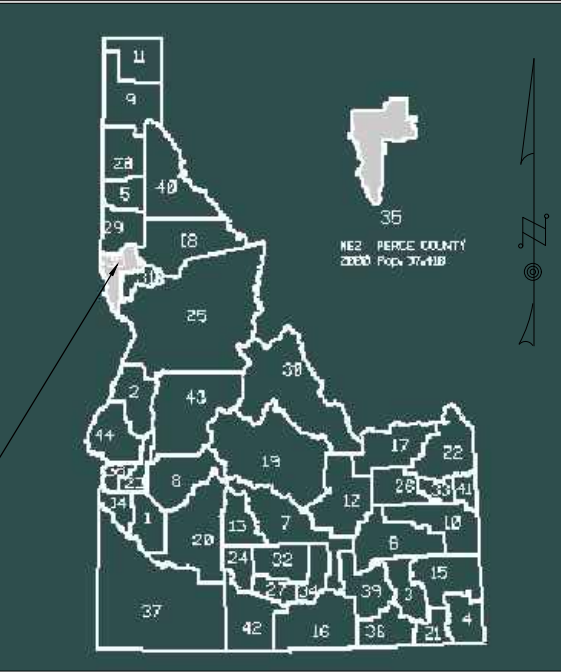
NEZ PERCE COUNTY

FEBRUARY, 2020



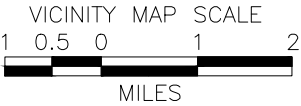
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CITY OF LEWISTON
BRYDEN AVENUE/5TH STREET INTERSECTION
M.P. TO M.P. SEGMENT CODE



DESIGN DESIGNATION BRYDEN AVENUE	
ADT 2019	15,000
ADT 2040	19,600
DHV 2019	1,500
DHV 2040	1,960
D	50/50%
V	35 MPH
TRUCKS:	
ADT 2019	160
ADT 2040	200
DHV 2019	16
DHV 2040	20

DESIGN DESIGNATION 5TH STREET	
ADT 2019	7,600
ADT 2040	9,350
DHV 2019	760
DHV 2040	940
D	50/50%
V	25 MPH
TRUCKS:	
ADT 2019	80
ADT 2040	95
DHV 2019	8
DHV 2040	10



REVISIONS	
DATE	DESCRIPTION

DESIGNED:	WER
DESIGN CHECKED:	GEH
DETAILED:	WER
DRAWING APPROVED:	PAO

SCALES SHOWN
ARE FOR 11" X 17"
PRINTS ONLY

CADD FILE NAME
L18-051_1.dwg

DRAWING DATE:
FEBRUARY, 2020

IDAHO

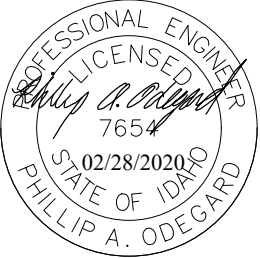
TRANSPORTATION DEPARTMENT

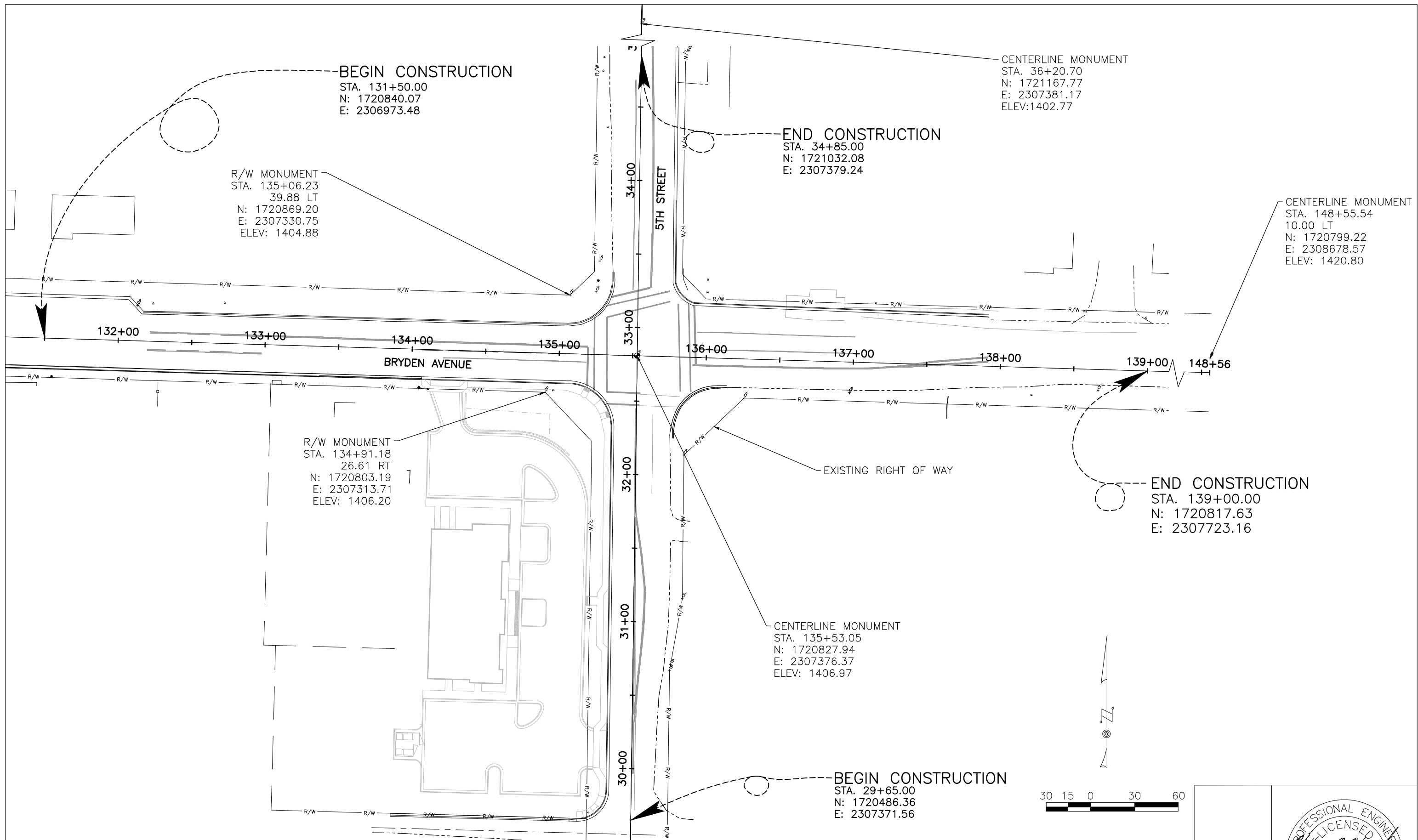
TD&H ENGINEERING

IDAHO TRANSPORTATION DEPARTMENT

PROJECT NO.	TITLE
TR036	BRYDEN AVENUE & 5TH STREET INTERSECTION LEWISTON, IDAHO

English
COUNTY NEZ PERCE
KEY NUMBER XXXXX
SHEET 1 OF 73





REVISIONS	
DATE	DESCRIPTION

DESIGNED:	WER
DESIGN CHECKED:	GEH
DETAILED:	WER
DRAWING APPROVED:	PAO

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME L18-051_2.dwg
DRAWING DATE: FEBRUARY, 2020

IDAHO
TRANSPORTATION
DEPARTMENT

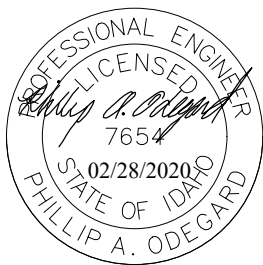


TD&H ENGINEERING 

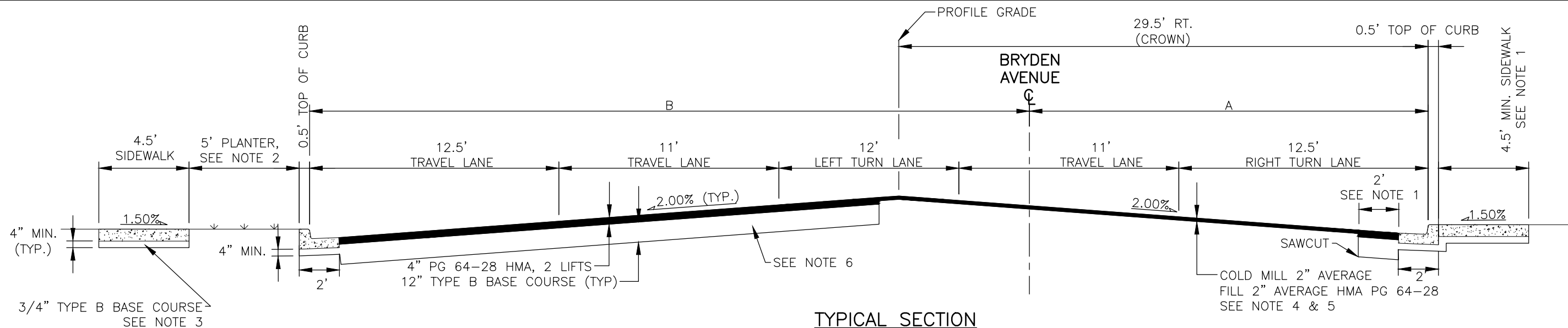
PROJECT NO.
TR036

SURVEY CONTROL
BRYDEN AVENUE & 5TH STREET INTERSECTION LEWISTON, IDAHO

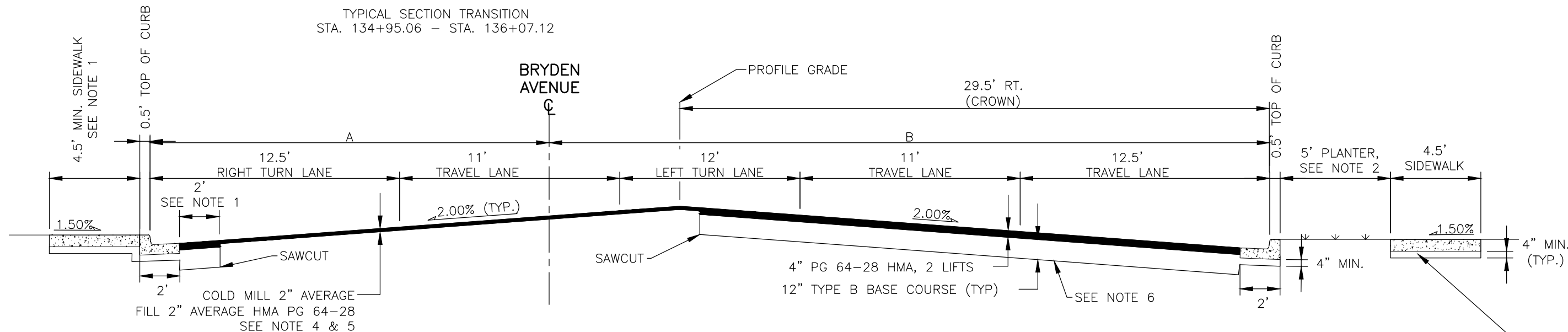
English
COUNTY NEZ PERCE
KEY NUMBER XXXXX
SHEET 2 OF 73



	SHEET NUMBER			7	8	9	10	11	12	13	14	31	32	33	34	35	
ITEM NO.	STATION – STATION ITEM	UNIT	TOTAL	132+50.00 – 137+50.00	132+50.00 – 137+50.00	32+65.00 – 34+85.000	32+65.00 – 34+85.000	132+50.00 – 137+50.00	132+50.00 – 137+50.00	32+65.00 – 34+85.000	32+65.00 – 34+85.000	132+50.00 – 137+50.00	132+50.00 – 137+50.00	32+65.00 – 34+85.000	32+65.00 – 34+85.000		
201–010A	CLEARING & GRUBBING	AC	1														
203–005A	REMOVING OBSTRUCTIONS	LS	1		1												
203–015A	REMOVING BITUMINOUS PAVEMENT	SY	280	75	75	90	40										
203–060A	REMOVING CEMENT CONCRETE SIDEWALK	SY	305	185	100		20										
203–070A	REMOVING CURB & GUTTER	LF	560	315	200	5	40										
205–005A	EXCAVATION	CY	890	430	195	155	110										
212–020A	SILT FENCE	LF	825													825	
212–095A	INLET PROTECTION	EA	6													6	
303–022A	3/4” AGGREGATE TYPE B FOR BASE	TON	1185					610	265	175	135						
405–425A	SUPERPAVE HMA PAV PG 64–28	TON	875					315	280	165	115						
431–005A	COLD MILLING	SY	4990	1295	1895	1130	670										
605–025A	STORM SEWER PIPE (12”)	LF	236					36	122		78						
605–500A	CATCH BASIN TYPE 1	EA	5					1	2		2						
614–015A	CONCRETE SIDEWALK (4”)	SY	435					110	105	140	80						
614–020A	CONCRETE DRIVEWAY	SY	150					100		20	30						
614–025B	CURB RAMPS TYPE 2	SY	25						25								
614–025C	CURB RAMPS TYPE 3	SY	25						25								
615–492A	CEMENT CONCRETE CURB & GUTTER	LF	1030					300	260	290	180						
621–005A	SEEDING	SY	760														
630–020A	WORD, SYMBOL, ARROW PAV. MARKINGS	SF	395									75	205	40	75		
630–025A	LONGITUDINAL PAV. MARKING WATERBORN	LF	3545									1065	1180	620	680		
656–005A	TRAFFIC SIGNAL INSTALLATION	LS	1														
676–005A	RECORD OF EX. PAVEMENT MARKINGS	LS	1														
S600–005A	ADJUST VALVE COVER	EA	4						4								
S600–020A	FIRE HYDRANT ASSEMBLY	LS	1					1									
S605–005A	ADJUST MANHOLE/STORM DRAIN STRUCTURE	EA	6					2	2	2							
S605–006A	DRYWELL	EA	1								1						
S656–010A	MULTIPLE APP. VIDEO DETECTION SYS.	LS	1														
S656–015A	EMERGENCY FIRE STATION SIGNAL	LS	1														
S900–050A	CA (SIGNAL CONDUIT)	CA	1500														
S900–050B	CA (TRAFFIC CONTROL)	CA	2000														
S901–005A	REMOVE AND REPLACE SIGNS	EA	28									9	8	1	10		
S904–005A	SP EMERGENCY VEHICLE PREEMPT. SYS	LS	1														
S904–005B	TRAFFIC CONTROL	LS	1														
S913–005A	LANDSCAPE – RIVER ROCK	CY	75					20	15	30	10						
Z629–05A	MOBILIZATION (10%)	LS	1														
REVISIONS		DESIGNED:		SCALES SHOWN ARE FOR 11” X 17” PRINTS ONLY		IDAHO TRANSPORTATION DEPARTMENT		PROJECT NO.		MATERIALS SUMMARY				English		PROFESSIONAL ENGINEER LICENSED 02/28/2020 STATE OF IDAHO PHILLIP A. ODEGARD	
DATE	DESCRIPTION	DESIGN CHECKED:	WER														
		DETAILED:	GEH	CADD FILE NAME L18–051_4.dwg													
		DRAWING APPROVED:	WER					DRAWING DATE: FEBRUARY, 2020									
			PAO	TD&H ENGINEERING		BRYDEN AVENUE & 5TH STREET INTERSECTION LEWISTON, IDAHO				COUNTY NEZ PERCE							
														KEY NUMBER XXXXX			
														SHEET 4 OF 73			



TYPICAL SECTION
NOT TO SCALE
STA. 132+00.00 – STA. 134+95.06



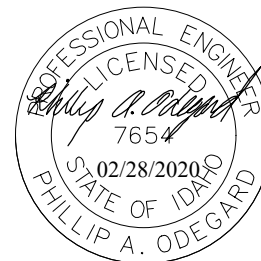
TYPICAL SECTION
NOT TO SCALE
STA. 136+07.12 – STA. 137+50.00

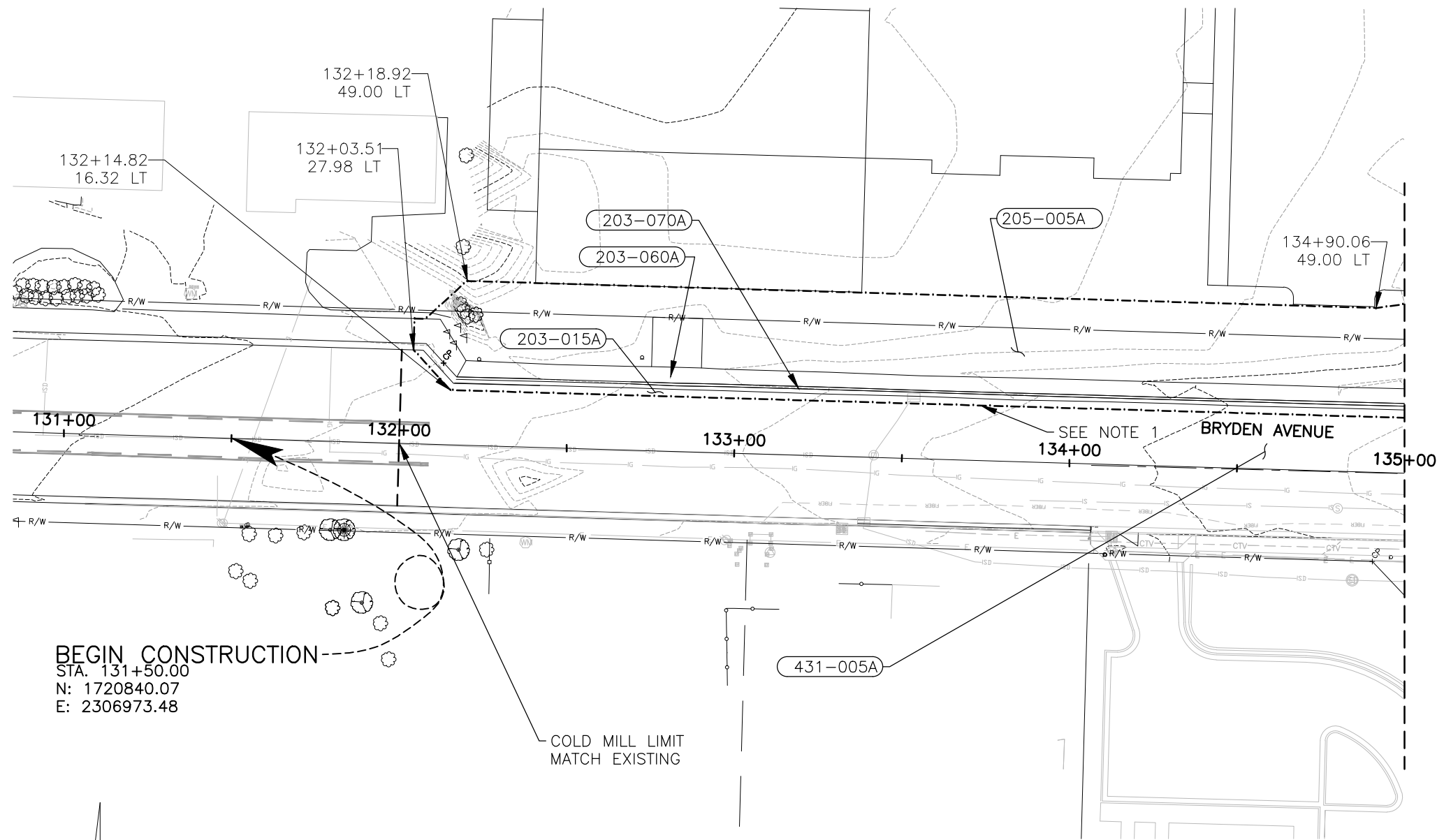
NOTES:

1. LOCATION OF PROPOSED SIDEWALK ADJACENT TO CURB & GUTTER VARIES, SEE PLANS. RETAIN EXISTING SIDEWALK ADJACENT TO EXISTING CURB & GUTTER WHERE SHOWN. PATCH BACK LOCATIONS CORRESPONDS TO PROPOSED SIDEWALK SECTIONS. MILL & FILL TO TIE INTO EXISTING CURB AND GUTTER IN ALL OTHER INSTANCES.
2. PROPOSED PLANTERS CORRESPOND TO ROADWAY WIDENING SECTIONS.
3. 3/4" TYPE B BASE COURSE SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY IN ACCORDANCE WITH ITD STANDARD SPECIFICATION SECTION 303 – AGGREGATE BASE. SUBGRADE OR STRUCTURAL FILL SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY PRIOR TO PLACEMENT OF BASE COURSE.
4. CROWN OF ROADWAY TO BE MODIFIED AS NECESSARY TO MEET TYPICAL SECTION.
5. MILL DEPTH TO ACHIEVE 2% NORMAL CROWN SLOPE.
6. ROADWAY WIDENING WIDTH VARIES, SEE ROAD PLANS.

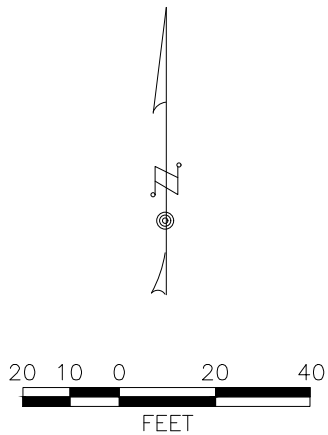
STATION	A	B
STA. 132+00.00 – STA. 134+95.06	19.90', RT.	49.00', LT.
STA. 136+07.12 – STA. 137+10.97	22.63', RT.	VARIES 36.37' – 35.18' LT
STA. 137+10.97 – STA. 137+50.00	22.63', RT.	

REVISIONS	DESIGNED:	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	IDAHO TRANSPORTATION DEPARTMENT	PROJECT NO.	TYPICAL SECTIONS	English
DESCRIPTION	DESIGN CHECKED:	CADD FILE NAME	TD&H ENGINEERING	TR036	BRYDEN AVENUE & 5TH STREET INTERSECTION LEWISTON, IDAHO	COUNTY NEZ PERCE
	DETAILED:	L18-051_5.dwg				KEY NUMBER XXXXX
	DRAWING APPROVED:	DRAWING DATE: FEBRUARY, 2020				SHEET 5 OF 73





BEGIN CONSTRUCTION
STA. 131+50.00
N: 1720840.07
E: 2306973.48



MATCH LINE STA. 135+00.00
SEE PAGE 8

- 203-015A REM. OF BIT. SURF
75 S.Y.
STA. 132+03.51 LT-135+00.00 LT
- 203-060A REM. CONC. SIDEWALK
185 S.Y.
STA. 132+03.51 LT-135+00.00 LT
- 203-070A REM. OF CURB & GUTTER
315 L.F.
STA. 132+03.51 LT-135+00.00 LT
- 205-005A EXCAVATION
430 C.Y.
STA. 132+03.51 LT-135+00.00 LT
- 431-005A COLD MILLING
1295 S.Y.
STA. 132+00.00 LT-135+00.00 LT

NOTE:
1. SAW-CUT EXISTING PAVEMENT 2'
FROM EXISTING CURB BEFORE
DEMO.

REVISIONS	
DATE	DESCRIPTION

DESIGNED:	WER
DESIGN CHECKED:	GEH
DETAILED:	WER
DRAWING APPROVED:	PAO

SCALES SHOWN
ARE FOR 11" X 17"
PRINTS ONLY

CADD FILE NAME
L18-051_7.dwg

DRAWING DATE:
FEBRUARY, 2020

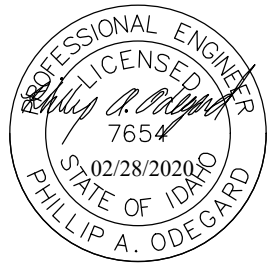
IDAHO
TRANSPORTATION
DEPARTMENT

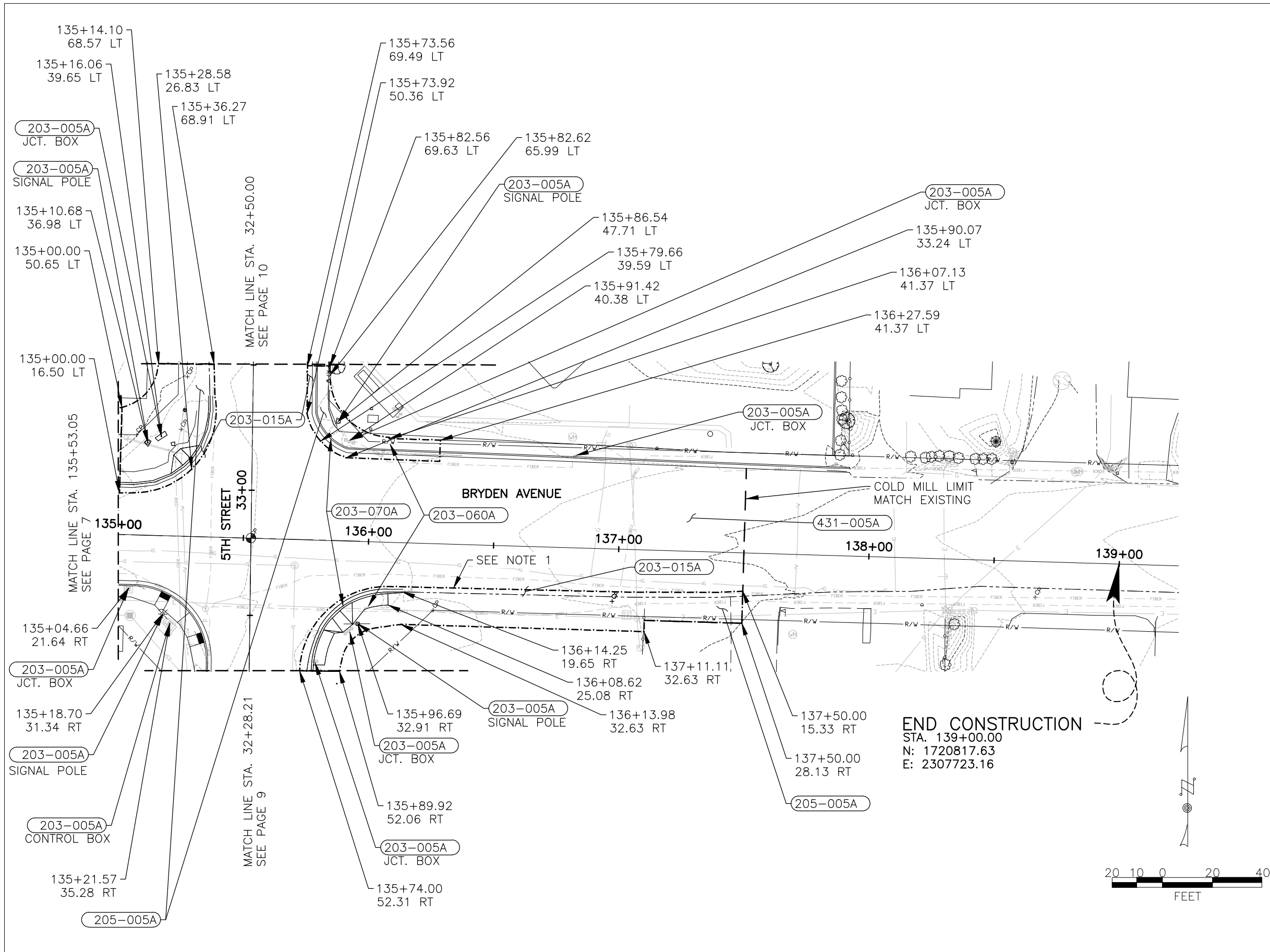
TD&H ENGINEERING

PROJECT NO.
TR036

BRYDEN AVENUE W. - DEMO PLAN
BRYDEN AVENUE & 5TH STREET INTERSECTION LEWISTON, IDAHO

English
COUNTY NEZ PERCE
KEY NUMBER XXXXX
SHEET 7 OF 73

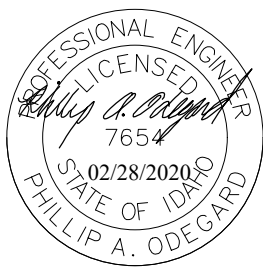


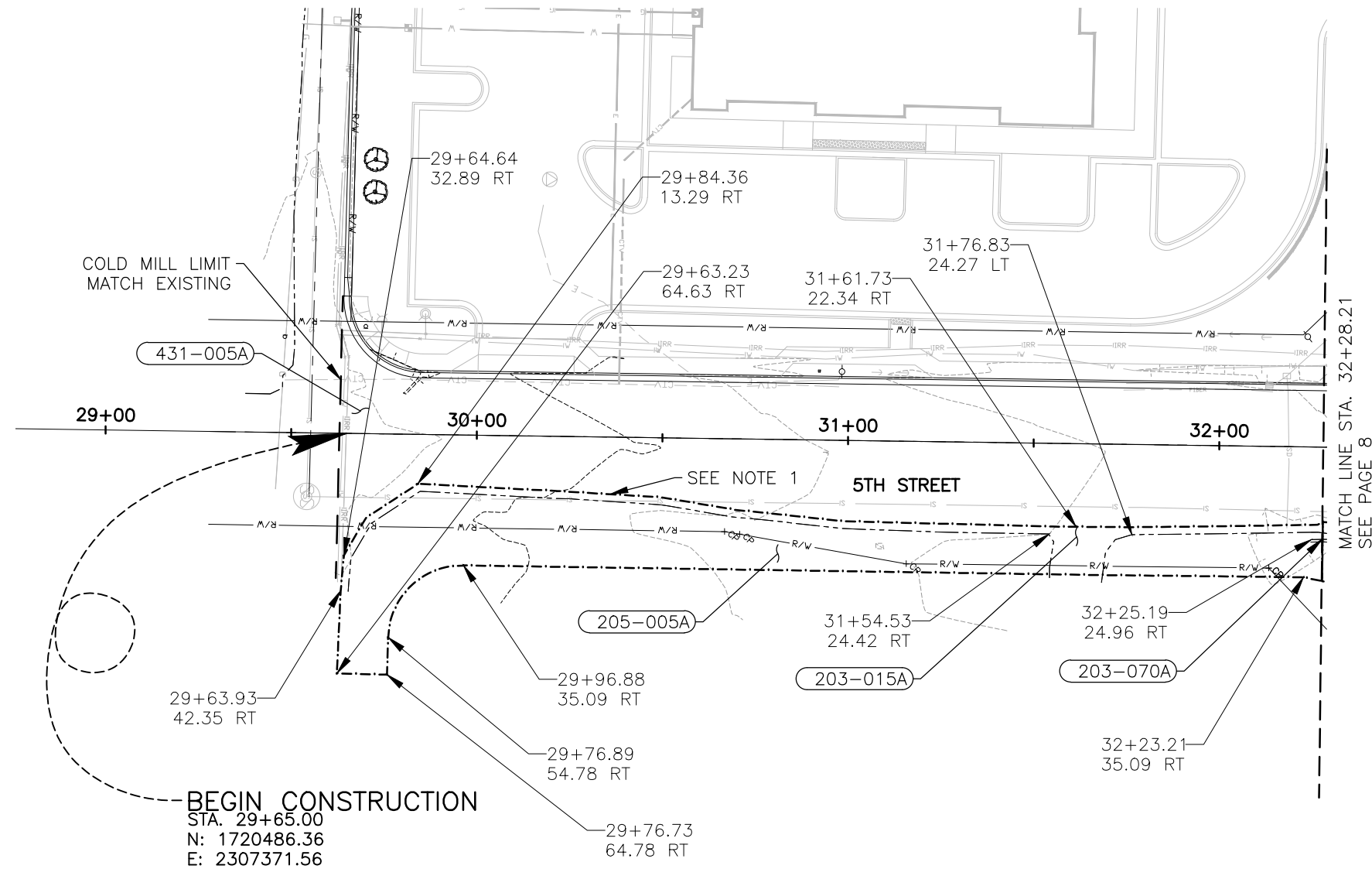


- (203-005A) REM. OF OBSTRUCTIONS
1 L.S.
SIGNAL POLE STA.135+10.68 LT
SIGNAL POLE STA.135+18.70 RT
SIGNAL POLE STA.135+86.54 LT
SIGNAL POLE STA.135+96.69 RT
JCT BOX STA.135+04.66 RT
JCT BOX STA.135+16.06 LT
JCT BOX STA.135+80.39 RT
JCT BOX STA.135+93.73 RT
JCT BOX STA.135+97.42 LT
JCT BOX STA.136+81.49 LT
CONTROL BOX STA.135+21.57 RT
- (203-015A) REM. OF BIT. SURF
75 S.Y.
STA. 135+00.00 LT-136+27.59 LT
STA. 135+74.00 RT-136+08.62 RT
- (203-060A) REM. CONC. SIDEWALK
100 S.Y.
STA. 135+00.00 LT-136+27.59 LT
STA. 135+74.00 RT-136+08.62 RT
- (203-070A) REM. OF CURB & GUTTER
200 L.F.
STA. 135+00.00 LT-137+50.00 LT
STA. 135+74.00 RT-136+08.62 RT
- (205-005A) EXCAVATION
195 C.Y.
STA. 135+00.00 LT-136+27.59 LT
STA. 135+74.00 RT-136+08.62 RT
- (431-005A) COLD MILLING
1895 S.Y.
STA. 135+00.00-137+50.00 LT

NOTES:
1. SAW-CUT EXISTING PAVEMENT 2' FROM EXISTING CURB BEFORE DEMO.

REVISIONS		DESIGNED:	IDaho TRANSPORTATION DEPARTMENT	PROJECT NO.	BRYDEN AVENUE E. – DEMO PLAN	English
DATE	DESCRIPTION	DESIGN CHECKED: WER		TR036		
		GEH				
		WER				
		PAO	TD&H ENGINEERING	BRYDEN AVENUE & 5TH STREET INTERSECTION LEWISTON, IDAHO		COUNTY NEZ PERCE
						KEY NUMBER XXXXX
						SHEET 8 OF 73





- (203-015A) REM. OF BIT. SURF
90 S.Y.
STA. 29+65.00 RT-32+28.21 RT
- (203-070A) REM. OF CURB & GUTTER
5 L.F.
STA. 32+25.19 RT-32+28.21 RT
- (205-005A) EXCAVATION
155 C.Y.
STA. 29+65.00 RT-32+28.21 RT
- (431-005A) COLD MILLING
1130 S.Y.
STA. 29+65.00 LT-32+28.21 LT

- NOTES:
1. SAW-CUT EXISTING PAVEMENT 2' FROM EXISTING EDGE OF PAVEMENT BEFORE DEMO.

REVISIONS	
DATE	DESCRIPTION

DESIGNED:	WER
DESIGN CHECKED:	GEH
DETAILED:	WER
DRAWING APPROVED:	PAO

SCALES SHOWN
ARE FOR 11" X 17"
PRINTS ONLY

CADD FILE NAME
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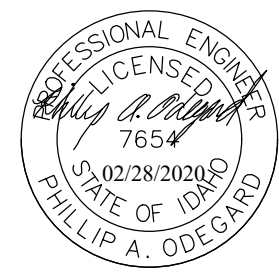
DRAWING DATE:
FEBRUARY, 2020

IDAHO
TRANSPORTATION
DEPARTMENT

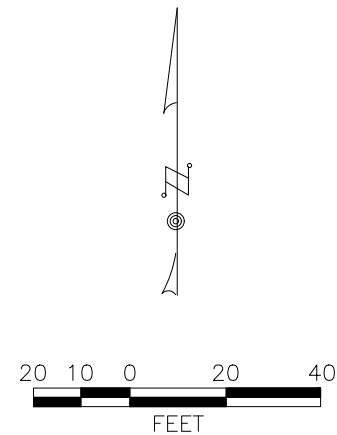
TD&H ENGINEERING

PROJECT NO.	5TH STREET S. - DEMO PLAN
TR036	BRYDEN AVENUE & 5TH STREET INTERSECTION LEWISTON, IDAHO

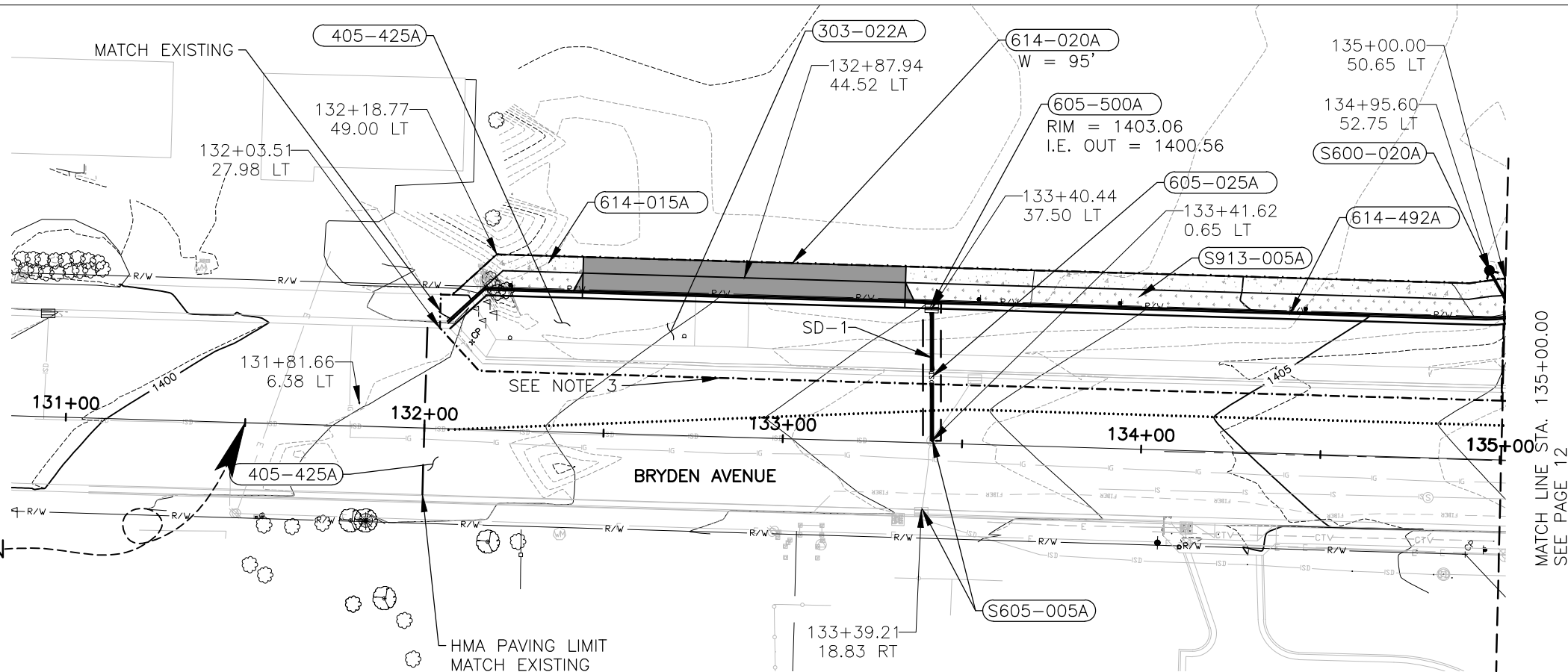
English
COUNTY NEZ PERCE
KEY NUMBER XXXXX
SHEET 9 OF 73



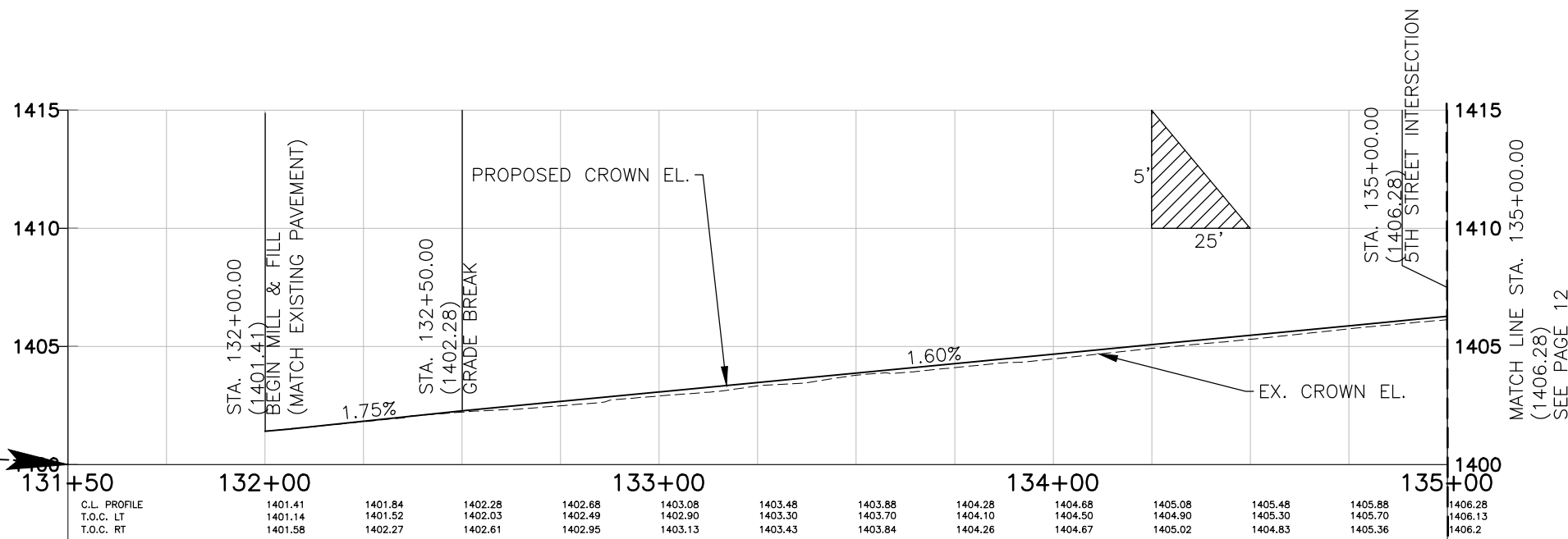
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STA. 131+50.00
N: 1720840.07
E: 2306973.48



BEGIN CONSTRUCTION
STA. 131+50.00
N: 1720840.07
E: 2306973.48



MATCH LINE STA. 135+00.00
SEE PAGE 12



- 303-022A 3/4" TYPE "B" BASE
610 TONS
STA. 132+00.00 LT-135+00.00 LT
- 405-425A SUPERPAVE HMA
315 TONS
STA. 132+03.51 LT-135+00.00 LT
TYPICAL SECTION 1
- 605-025A STORM SEWER PIPE
36 L.F.
STA. 133+40.44 LT-133+41.62 LT
- 605-500A CATCH BASIN TYPE 1
1 EA.
STA. 133+40.44 LT
- 614-015A CONCRETE SIDEWALK
105 S.Y.
STA. 132+03.51 LT-135+00.00 LT
- 614-020A DRIVEWAY
100 S.Y.
STA. 132+87.94 LT
- 615-492A CURB & GUTTER(TY. 2)
300 L.F.
STA. 132+03.51 LT-135+00.00 LT
- S605-005A ADJUST STRUCTURE
2 EA.
STA. 133+41.62 &
STA. 133+39.21
- S600-020A FIRE HYDRANT ASSEMBLY
1 EA.
STA. 134+95.60 LT
- S913-005A LANDSCAPE-RIVER ROCK
20 C.Y.
STA. 132+03.51 LT-135+00.00 LT

NOTES:

- CROWN OFFSET VARIES 0.35'R.T. AT STA 132+06.78 TO 9.5'L.T. AT 133+00.00, CROWN OFFSET EQUALS 9.5' L.T. AT STA. 133+00.00 TO 135+00.00.
- ADJUST EX. UTILITIES TO PROP. FINISHED GROUND.
- ASPHALT/MILL & FILL SAWCUT BOUNDARY.

REVISIONS	DESIGNED:
DATE	DESCRIPTION

DESIGN CHECKED:	WER
DETAILED:	GEH
DRAWING APPROVED:	WER
	PAO

SCALES SHOWN
ARE FOR 11" X 17"
PRINTS ONLY

CADD FILE NAME
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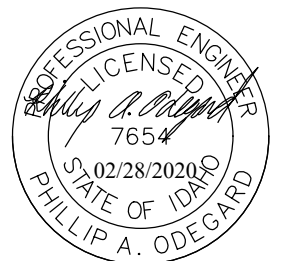
DRAWING DATE:
FEBRUARY, 2020

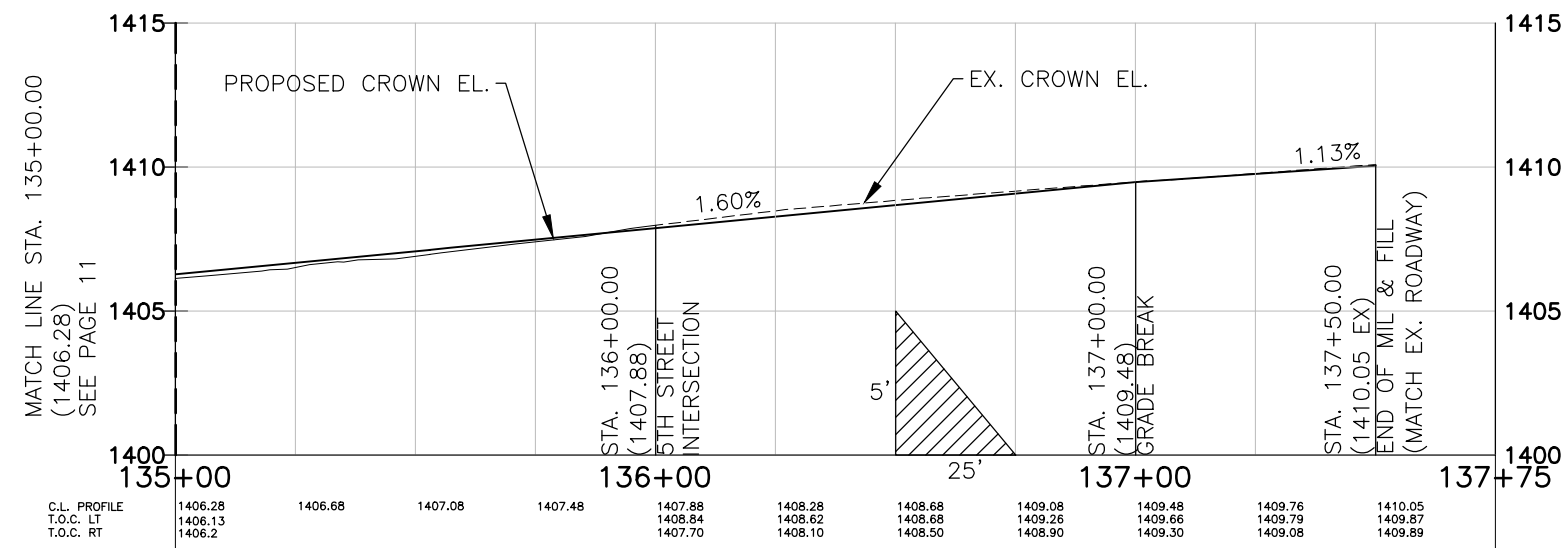
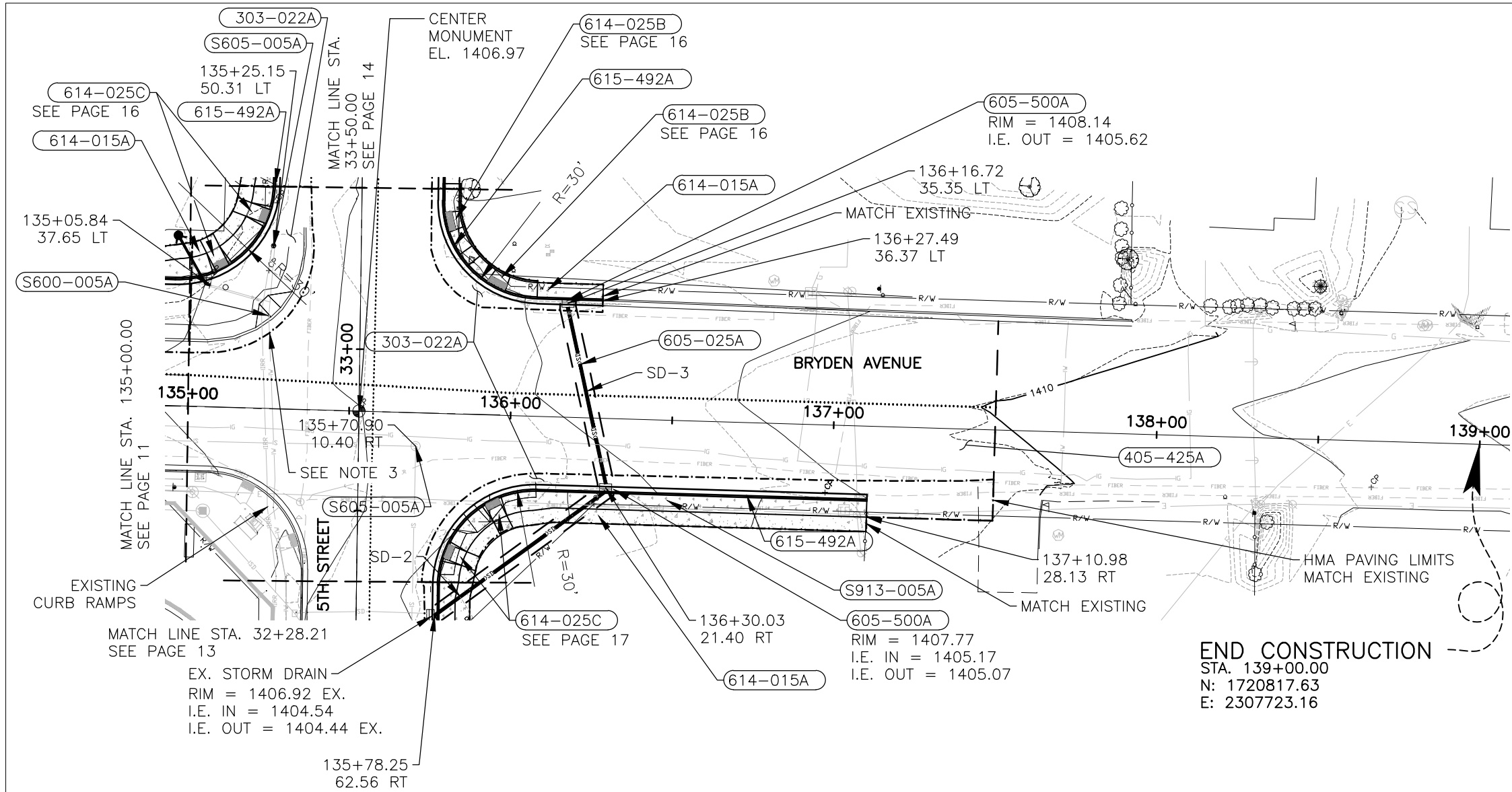
IDAHO
TRANSPORTATION
DEPARTMENT

TD&H ENGINEERING

PROJECT NO.	BRYDEN AVENUE W. - ROAD PLAN
TR036	BRYDEN AVENUE & 5TH STREET INTERSECTION LEWISTON, IDAHO

English	
COUNTY	NEZ PERCE
KEY NUMBER	XXXXX
SHEET	11 OF 73

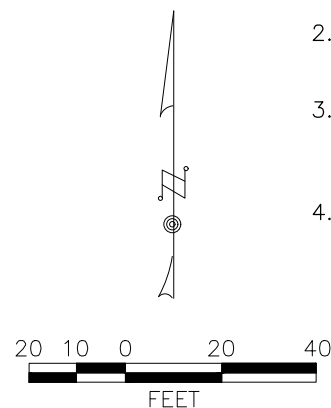




END CONSTRUCTION
STA. 139+00.00
N: 1720817.63
E: 2307723.16

NOTES:

1. CROWN OFFSET EQUALS 6.87' L.T. AT STA. 136+00.00 TO 137+50.00. ADJUST EX. UTILITIES TO PROP. FINISHED GROUND.
2. ASPHALT/MILL & FILL SAWCUT BOUNDARY.
3. CURB RETURN ELEVATIONS DESIGNATED IN RAMP DETAIL SHEETS.
4. REFERENCE CITY OF LEWISTON STANDARD DRAWING 4-12 FOR FIRE HYDRANT INSTALLATION.



- (303-022A) 3/4" TYPE "B" BASE
265 TONS
STA. 135+00.00 LT-136+27.49 LT
STA. 135+76.25 RT-137+50.00 RT
- (405-425A) SUPERPAVE HMA
280 TONS
STA. 135+00.00 LT-137+50.00 LT
- (605-025A) STORM SEWER PIPE
122 L.F.
STA. 135+78.25 RT-136+16.72 LT
- (605-500A) CATCH BASIN TYPE 1
2 EA.
STA. 136+16.72 LT &
STA. 136+30.03 RT
- (614-015A) CONCRETE SIDEWALK
105 S.Y.
STA. 135+00.00 LT-136+27.49 LT
STA. 135+84.98 RT-137+10.98 RT
- (614-025B) CURB RAMP (TY. 2)
25 S.Y.
STA. 135+77.07 LT-136+07.12 LT
- (614-025C) CURB RAMP (TY. 3)
25 S.Y.
STA. 135+78.98 RT-136+30.03 RT
STA. 135+00.00 LT-135+25.06 LT
- (615-492A) CURB & GUTTER (TY. 2)
260 L.F.
STA. 135+00.00 LT-136+27.49 LT
STA. 135+78.26 RT-137+10.98 RT
- (S600-005A) ADJUST VALVE COVER
4 EA.
STA. 135+18.18 LT-135+24.91 LT
- (S605-005A) ADJUST STRUCTURE
2 EA.
STA. 135+70.90 RT
- (S913-005A) LANDSCAPE-RIVER ROCK
15 C.Y.
STA. 135+00.00 LT-137+50.00 LT

REVISIONS	DESIGNED:
DESCRIPTION	DESIGN CHECKED:
	DETAILED:
	DRAWING APPROVED:

SCALES SHOWN
ARE FOR 11" X 17"
PRINTS ONLY

CADD FILE NAME
L18-051_12.dwg

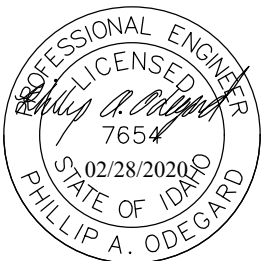
DRAWING DATE:
FEBRUARY, 2020

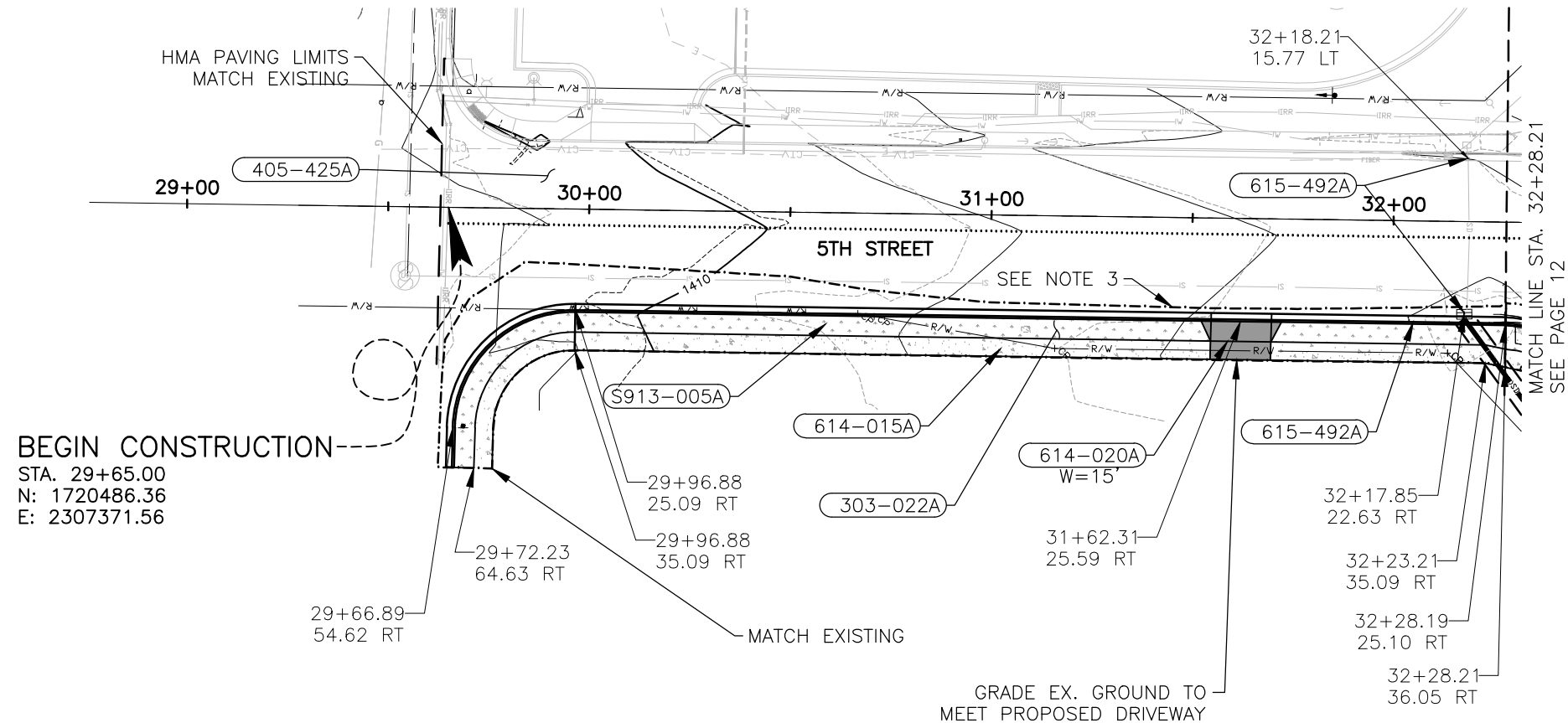
IDAHO
TRANSPORTATION
DEPARTMENT

TD&H ENGINEERING

PROJECT NO.	BRYDEN AVENUE E. - ROAD PLAN
TR036	BRYDEN AVENUE & 5TH STREET INTERSECTION LEWISTON, IDAHO

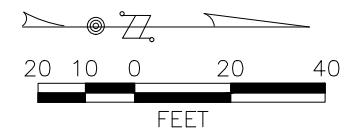
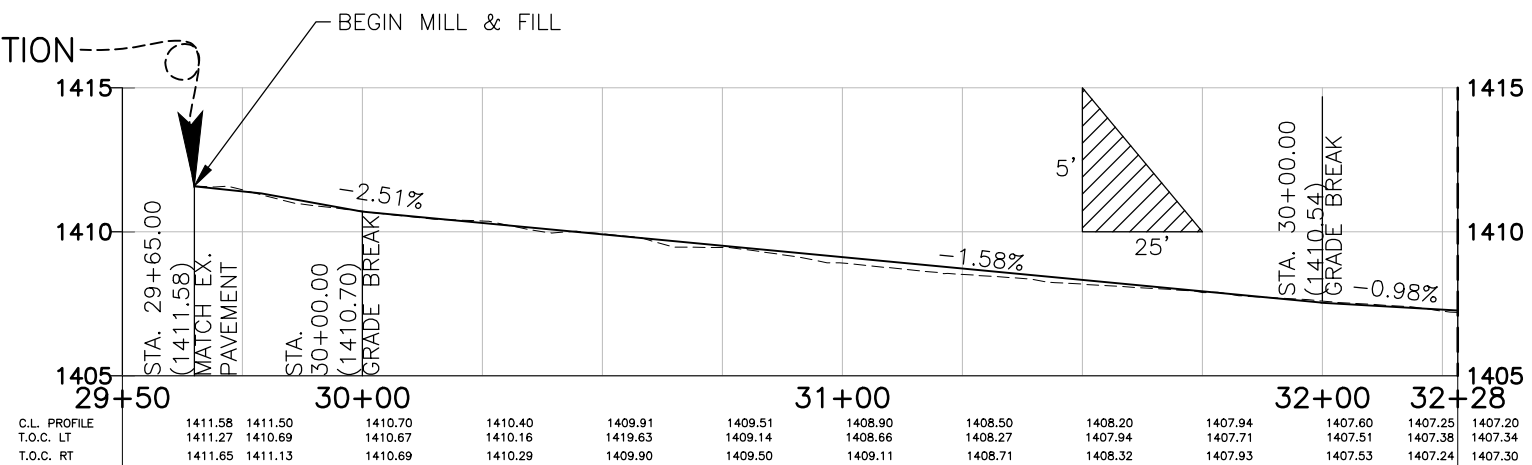
English
COUNTY NEZ PERCE
KEY NUMBER XXXXX
SHEET 12 OF 73





BEGIN CONSTRUCTION--
STA. 29+65.00
N: 1720486.36
E: 2307371.56

BEGIN CONSTRUCTION--
STA. 29+65.00
N: 1720486.36
E: 2307371.56



- (303-022A) 3/4" TYPE "B" BASE
175 TONS
STA. 29+65.00 RT-32+28.21 RT
- (405-425A) SUPERPAVE HMA
165 TONS
STA. 29+65.00 RT-32+28.21 RT
- (614-015A) CONCRETE SIDEWALK
140 S.Y.
STA. 29+65.00 RT-32+28.21 RT
- (614-020A) CONCRETE DRIVEWAY
20 S.Y.
STA. 31+54.81 RT-31+69.81 RT
- (615-492A) CURB & GUTTER (TY. 2)
290 L.F.
STA. 29+65.00 RT-32+28.21 RT
- (S605-010) ADJUST STRUCTURE
2 EA.
STA. 32+17.85 RT &
STA. 32+18.21 RT
- (S913-005A) LANDSCAPE-RIVER ROCK
30 C.Y.
STA. 29+65.00 RT-32+28.21 RT

NOTES:

- CROWN OFFSET EQUALS 4.09' R.T. AT STA. 29+65.00 TO 32+28.21.
- ADJUST EX. UTILITIES TO PROP. FINISHED GROUND.
- ASPHALT/MILL & FILL SAWCUT BOUNDARY.

REVISIONS	DESIGNED:
DESCRIPTION	DESIGN CHECKED:
	GEH
	WER
	PAO

WER	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
GEH	CADD FILE NAME L18-051_13.dwg
WER	DRAWING DATE: FEBRUARY, 2020
PAO	

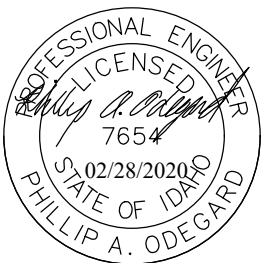
IDAHO
TRANSPORTATION
DEPARTMENT

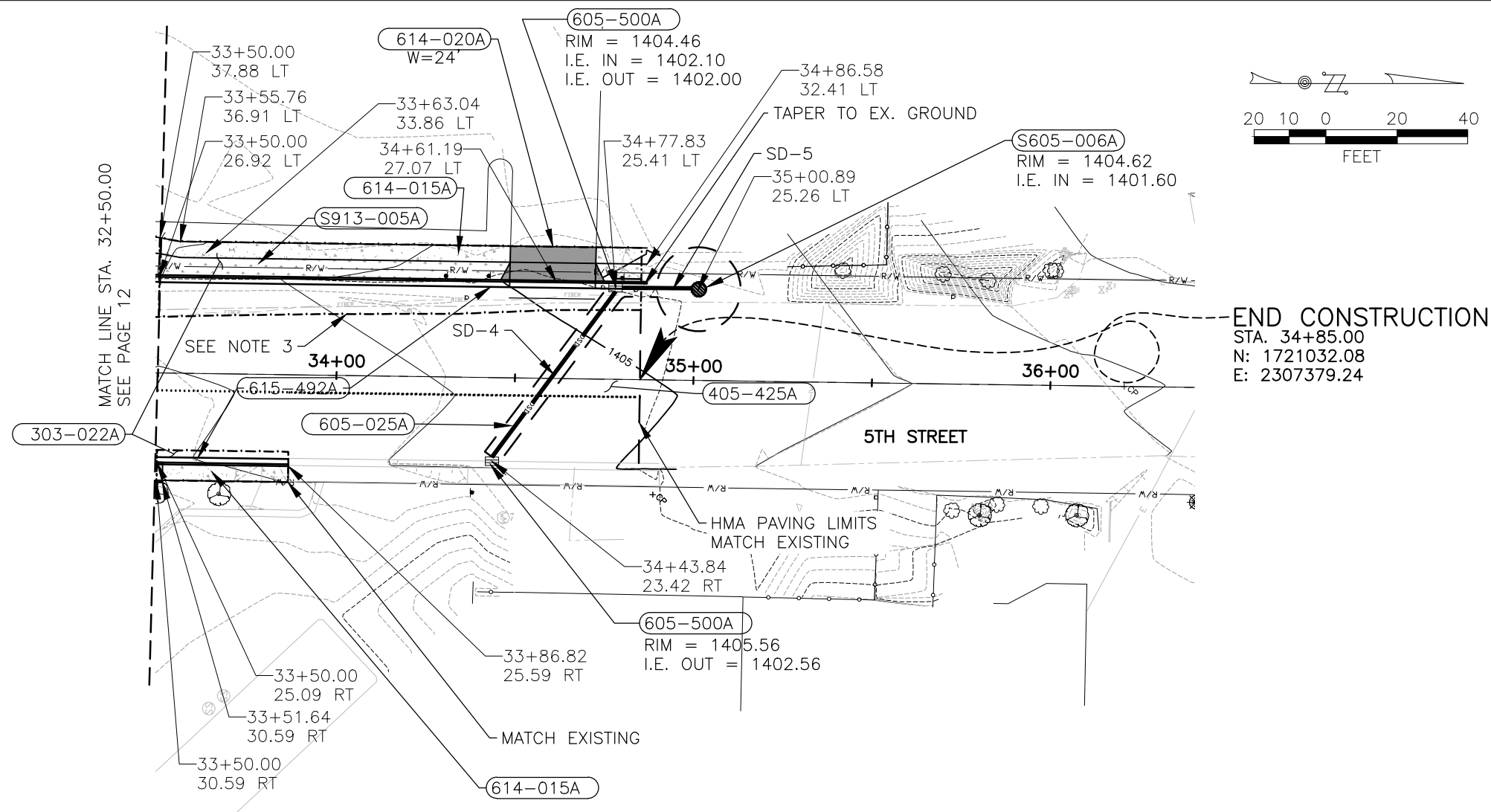
TD&H ENGINEERING

PROJECT NO.
TR036

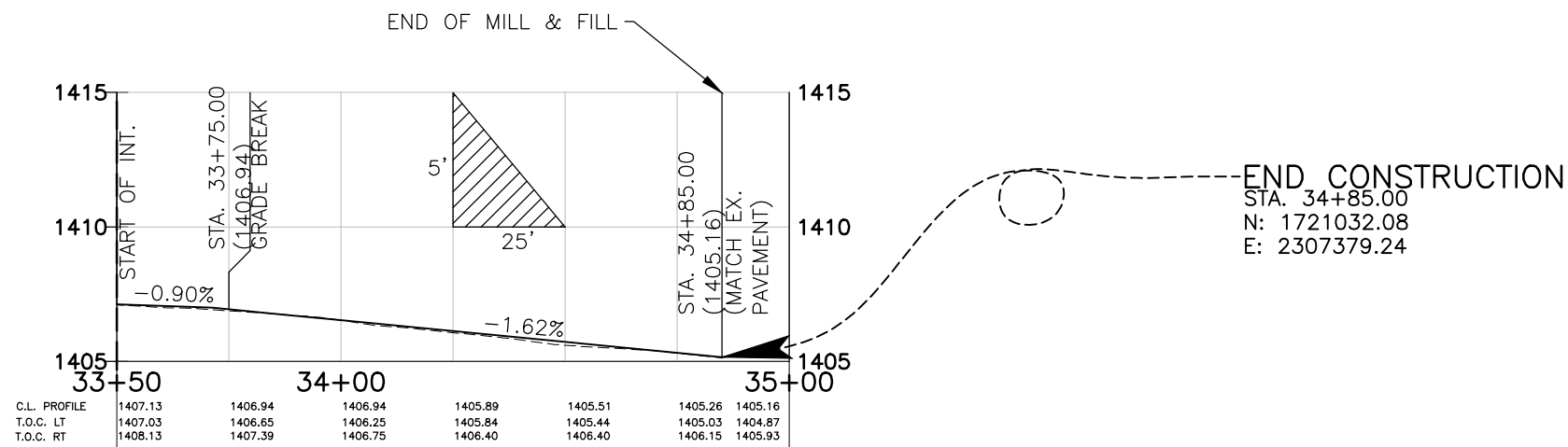
5TH STREET S. - ROAD PLAN
BRYDEN AVENUE & 5TH STREET INTERSECTION LEWISTON, IDAHO

English
COUNTY NEZ PERCE
KEY NUMBER XXXXX
SHEET 13 OF 73





END CONSTRUCTION
STA. 34+85.00
N: 1721032.08
E: 2307379.24



END CONSTRUCTION
STA. 34+85.00
N: 1721032.08
E: 2307379.24

- (303-022A) 3/4" TYPE "B" BASE
135 TONS
STA. 33+50.00 LT-34+85.00 LT
STA. 33+50.00 RT-33+86.82 RT
- (405-425A) SUPERPAVE HMA
115 TONS
STA. 33+50.00 LT-34+85.00 RT
- (605-025A) STORM SEWER PIPE
78 L.F.
STA. 34+43.84 RT-35+00.89 LT
- (605-500A) CATCH BASIN TYPE 1
2 EA.
STA. 34+43.84 RT &
34+77.83 LT
- (614-015A) CONCRETE SIDEWALK
80 S.Y.
STA. 33+50.00 RT-33+89.82 RT
STA. 33+50.00 LT-34+85.00 LT
- (614-020A) CONCRETE DRIVEWAY
30 S.Y.
STA. 34+49.19 LT-34+73.19 LT
- (615-492A) CURB & GUTTER(TY. 2)
180 L.F.
STA. 33+50.00 RT-33+89.82 RT
STA. 33+50.00 LT-34+85.00 LT
- (S605-006A) DRYWELL
1 EA.
STA. 35+00.89 LT
- (S913-005A) LANDSCAPE-RIVER ROCK
10 C.Y.
STA. 33+50.00 LT-34+85.00 LT

NOTES:

- CROWN OFFSET EQUALS 5.00' R.T. AT STA. 33+50.00 TO 34+85.00.
- ADJUST EX. UTILITIES TO PROP. FINISHED GROUND.
- ASPHALT/MILL & FILL SAWCUT BOUNDARY.

REVISIONS	DESIGNED:	DESIGN CHECKED:	DETAILED:	DRAWING APPROVED:	PROJECT NO.	5TH STREET N. - ROAD PLAN	English
DESCRIPTION	WER	GEH	WER	PAO	TR036	BRYDEN AVENUE & 5TH STREET INTERSECTION LEWISTON, IDAHO	COUNTY NEZ PERCE
							KEY NUMBER XXXXX
							SHEET 14 OF 73

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

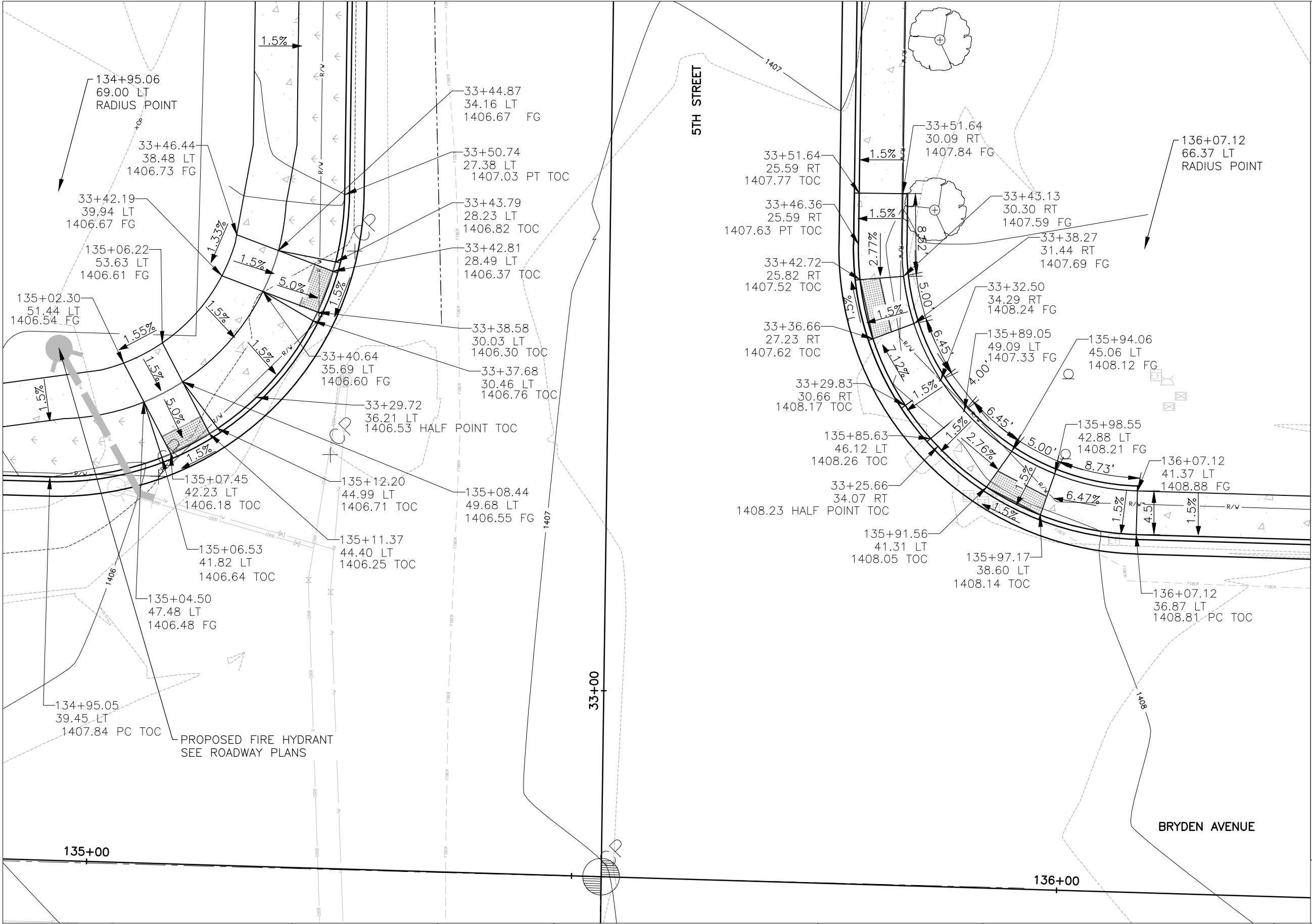
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DRAWING DATE: FEBRUARY, 2020

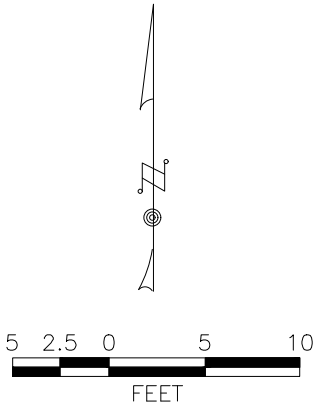
IDAHO TRANSPORTATION DEPARTMENT

TD&H ENGINEERING

PROFESSIONAL ENGINEER
PHILLIP A. ODEGARD
7654
02/28/2020
STATE OF IDAHO



- NOTES:
1. FACE OF CURB RADIUS = 30' FOR ALL QUADRANTS
 2. RETAIN AND PROTECT ALL MONUMENTS INCLUDING RIGHT-OF-WAY CONTROL POINTS



REVISIONS	
DATE	DESCRIPTION

DESIGNED:	WER
DESIGN CHECKED:	GEH
DETAILED:	WER
DRAWING APPROVED:	PAO

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME L18-051_16.dwg
DRAWING DATE: FEBRUARY, 2020

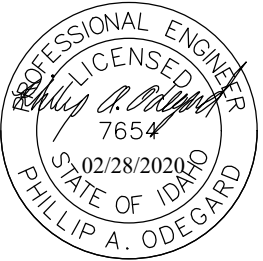
IDAHO TRANSPORTATION DEPARTMENT

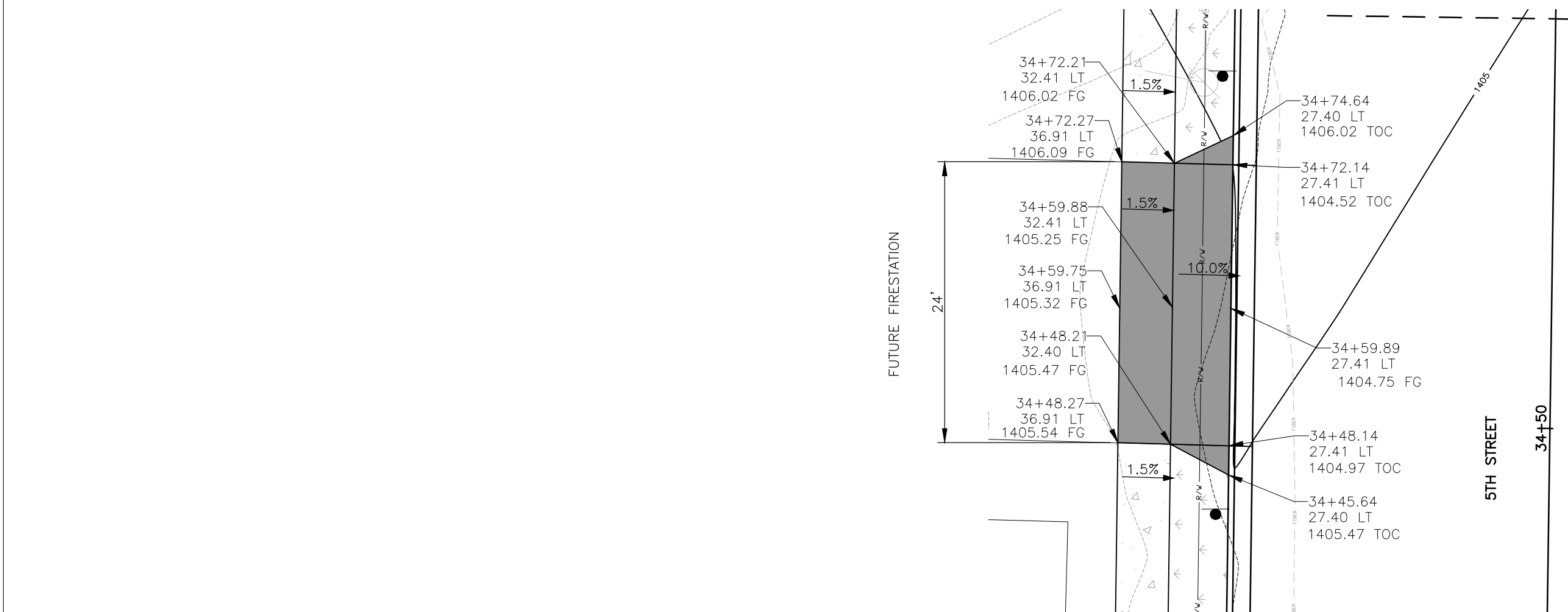
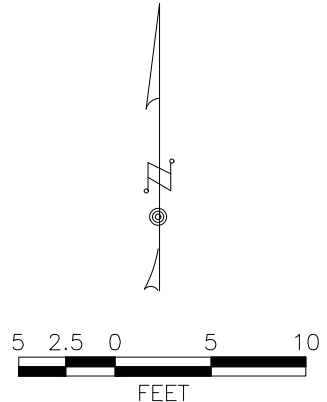
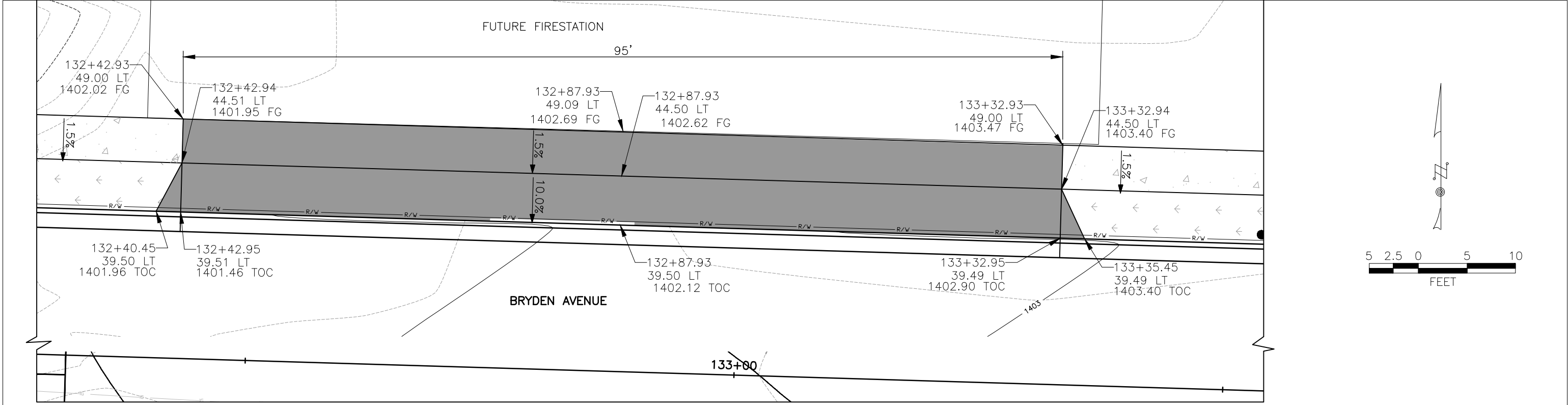
TD&H ENGINEERING

PROJECT NO.
TR036

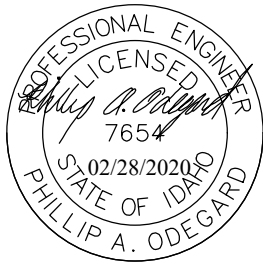
NORTH CURB RAMP DETAILS
BRYDEN AVENUE & 5TH STREET INTERSECTION LEWISTON, IDAHO

English
COUNTY NEZ PERCE
KEY NUMBER XXXXX
SHEET 16 OF 73





REVISIONS		DESIGNED:	IDaho TRANSPORTATION DEPARTMENT	PROJECT NO.	NORTH DRIVEWAY DETAILS	English COUNTY NEZ PERCE KEY NUMBER XXXXXX SHEET 18 OF 73
DATE	DESCRIPTION	DESIGN CHECKED:				
		GEH				
		WER				
		PAO				
		SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	TD&H ENGINEERING			
		CADD FILE NAME L18-051_18.dwg				
		DRAWING DATE: FEBRUARY, 2020				



ITEM 656-005A – TRAFFIC SIGNAL INSTALLATION			ITEM 656-005A – TRAFFIC SIGNAL INSTALLATION		
ITEM	QTY.		ITEM	QTY.	
CONTRACTOR SUPPLIED MATERIALS			CONTRACTOR SUPPLIED MATERIALS		
1	1 EA.	TRAFFIC SIGNAL CABINET: FURNISH CABINET MEETING ALL ITD NEMA TS2 TYPE 1 SIGNAL CABINET SPECIFICATIONS, WITH UNINTERRUPTED POWER SUPPLY (UPS) BATTERY BACKUP SYSTEM (BBS), SURGE AND POWER DISTRIBUTION PANEL FOR FOUR VIDEO CAMERAS. ECONOLITE TS2/T1 TYPE "P" NEMA CABINET	18	4 EA.	VEHICLE SIGNAL LAMPS (RED ARROW): 12" LED 120V, DAILIGHT 432-1314-001X0D15. SEE ITD STANDARD SPECIFICATION 713.11 FOR SIGNAL HEADS AND 713.12 FOR SIGNAL HEAD COVERS.
2	1 EA.	TRAFFIC SIGNAL CONTROLLER: FURNISH CONTROLLER IN CONJUNCTION WITH SIGNAL CABINET, MEETING ALL ITD NEMA TS2 TYPE 1. ECONOLITE COBALT CONTROLLER, NEXUS 9 TABLED, WI-FI ADAPTER KIT W/ ROUTER AND CABLE, RENO MMU2-16LE(IP)-E SMART MONITOR, RENO A&E LOAD SWITCH, RENO A&E FLASHER, RENO A&E FLASH TRANSFER RELAY, BUS INTERFACE UNITS, PDC MODEL 252 AC ISOLATOR, UPSTEALTH NEMA INVERTER, UPSTEALTH 500W NEMA BATTERIES, UPSTEALTH POWER INTERFACE MODULE, UPSTEALTH INCOMING POWER BLOCK(TBS) WIRING, AUTOSCOPE DUO INTERFACE PANEL AND DETECTION MODULE, PIER TO PIER FIBER INTERCONNECT.	19	4 EA.	VEHICLE SIGNAL LAMPS (YELLOW ARROW): 12" LED 120V, DAILIGHT 431-3334-901X0D15.
3	1 EA.	POLE A: STEEL COMBINATION TRAFFIC SIGNAL AND LUMINAIRE, WITH 42' SIGNAL MAST ARM AND 15' LUMINAIRE MAST ARM WITH 2" SLIP FITTER (LUMINAIR MOUNTING HEIGHT TO BE 30'). VALMONT, REFERENCE ITD STANDARD SPECIFICATION 713.08 FOR SIGNAL POLES AND 713.09 FOR LUMINARIES.	20	4 EA.	VEHICLE SIGNAL LAMPS (GREEN ARROW): 12" LED 120V, DAILIGHT 432-2324-001X0D15.
4	1 EA.	POLE B: STEEL COMBINATION TRAFFIC SIGNAL AND LUMINAIRE, WITH 54' SIGNAL MAST ARM AND 15' LUMINAIRE MAST ARM WITH 2" SLIP FITTER (LUMINAIR MOUNTING HEIGHT TO BE 30'). VALMONT, REFERENCE ITD STANDARD SPECIFICATION 713.08 FOR SIGNAL POLES AND 713.09 FOR LUMINARIES.	21	10 EA.	VEHICLE SIGNAL LAMPS (RED BALL): 12" LED 120V, DAILIGHT 433-1210-003XL15.
5	1 EA.	POLE C: STEEL COMBINATION TRAFFIC SIGNAL AND LUMINAIRE, WITH 36' SIGNAL MAST ARM AND 10' LUMINAIRE MAST ARM WITH 2" SLIP FITTER (LUMINAIR MOUNTING HEIGHT TO BE 30'). VALMONT, REFERENCE ITD STANDARD SPECIFICATION 713.08 FOR SIGNAL POLES AND 713.09 FOR LUMINARIES.	22	10 EA.	VEHICLE SIGNAL LAMPS (YELLOW BALL): 12" LED 120V, DAILIGHT 433-3230-901XL15.
6	1 EA.	POLE D: STEEL COMBINATION TRAFFIC SIGNAL AND LUMINAIRE, WITH 48' SIGNAL MAST ARM AND 15' LUMINAIRE MAST ARM WITH 2" SLIP FITTER (LUMINAIR MOUNTING HEIGHT TO BE 30'). VALMONT, REFERENCE ITD STANDARD SPECIFICATION 713.08 FOR SIGNAL POLES AND 713.09 FOR LUMINARIES.	23	10 EA.	VEHICLE SIGNAL LAMPS (GREEN BALL): 12" LED 120V, DAILIGHT 433-2270-001XL15.
7	2 EA.	PEDESTRIAN POLE: STEEL POLE WITH MOUNTING HEIGHT OF 8' AND MEETS ITD STANDARD SPECIFICATION 713.08 FOR PEDESTRIAN SIGNAL POLES. PELCO PB-5334-PNC, PB-5325-PNC, PB-5306-GLV (POLES E & F)	24	1 EA.	FOUNDATION: TYPE "A" FOUNDATION FOR PEDESTRIAN SIGNAL POLE "E" AND "F". REFERENCE ITD STANDARD 713.10 BASE BREAKAWAY DEVICE AND 656.02 TRAFFIC SIGNAL INSTALLATION
8	11 EA.	VEHICLE SIGNAL HEAD: EMPTY 12" DIAMETER SIGNAL HEAD, 3 SECTION, REFERENCE ITD STANDARD SPECIFICATION 713.11 FOR VEHICLE SIGNAL HEADS. ECONOLITE STP31VDAB11N-11-11 W/ ECONOLITE 06-1001-011 VISOR AND ECONOLITE 5" REFLECTIVE BACKPLATE .	25	4 EA.	FOUNDATION: TYPE "D" FOUNDATION FOR SIGNAL POLES "A", "B", "C", AND "D". REFERENCE ITD STANDARD 713.10 BASE BREAKAWAY DEVICE AND 656.02 TRAFFIC SIGNAL INSTALLATION
9	4 EA.	VEHICLE SIGNAL HEAD: EMPTY 12" DIAMETER SIGNAL HEAD, 4 SECTION. REFERENCE ITD STANDARD SPECIFICATION 713.11 FOR VEHICLE SIGNAL HEADS. ECONOLITE STP4BVDAB11N-11-11 W/ ECONOLITE 06-1001-011 VISOR AND ECONOLITE 5" REFLECTIVE BACKPLATE.	26	7 EA.	JUNCTION BOX: PRECAST SIZE C CONCRETE, WITH STEEL LID. H2 PRE-CAST, INC. VBDTC, OR APPROVED EQUAL. REFERENCE ITD STANDARD SPECIFICATIONS 713.05 CONCRETE JUNCTION BOXES
10	11 EA.	SIGNAL BRACKETS: TRAFFIC SIGNAL ONE-WAY, 3 SECTION, CLAMP MOUNT FOR MAST ARM MOUNTING. PELCO AS-0125-3-96-SS. (SIGNAL HEAD NO. 21, 22, 41, 42, 61, 81, 82)	27	4 EA.	CAMERA BRACKET: 2-PIECE, EXTENDED TILE AND PAN, CLAMP MOUNTED. PELCO AS-0169-74-62 WITH CAMERA MOUNTING BRACKET. PELCO AS-0175-74-62-SS-PNC
11	4 EA.	SIGNAL BRACKETS: TRAFFIC SIGNAL ONE-WAY, 4 SECTION, CLAMP MOUNT FOR MAST ARM MOUNTING. PELCO AS-0125-4-96-SS. (SIGNAL HEAD NO. 11, 31, 51, 71)	28	4 EA.	STREET NAME MASTARM SIGNS: D3-1, 2 SIGN 36" X 16", 2 SIGN 66" X 18" (SEE DETAIL SHEET)
12	4 EA.	SIGNAL BRACKETS: TRAFFIC SIGNAL ONE-WAY FOR SIDE OF POST TERMINAL COMPARTMENT MOUNTING FOR 12" THREE SECTION TRAFFIC SIGNAL. ECONOLITE FWA2102BG. (SIGNAL HEAD NO. 23, 43, 62, 83)	29	2 EA.	STREET NAME SIGN MASTARM BRACKETS: CLAMP MOUNT. PELCO AS-0144-30-62-SS-PNC AND AS-014460-SS-PNC FOR POLES "A" AND "D"
13	8 EA.	PEDESTRIAN SIGNAL HEAD: 16", 2 SECTION HEAD WITH COUNTDOWN, ORANGE HAND/WALKING FIGURE. ECONOLITE PED16SGSNN9. REFERENCE ITD STANDARD SPECIFICATION 713.11 FOR PEDESTRIAN SIGNAL HEADS.	30	2 EA.	STREET NAME SIGN MASTARM BRACKETS: CLAMP MOUNT. PELCO AS-0144-60-SS-PNC FOR POLES "A" AND "C"
14	2 EA.	PEDESTRIAN SIGNAL MOUNTING: SIDE OF POST, TWO SIGNALS. ECONOLITE FW5202BG (SIGNAL HEAD NO. 21P, 41P, 42P, 62P)	31	1 EA.	MISCELLANEOUS HARDWARE: INCLUDES PLASTIC CONDUIT, WATERTIGHT STEEL ELBOWS, THWN WIRE, 600 VOLT 14 GAUGE 3C & 5C SIGNAL CABLE, AND VARIOUS ITEMS, HARDWARE, AND FITTINGS NECESSARY FOR THE COMPLETE SIGNAL AND LIGHTING INSTALLATION AS SHOWN ON PLANS.
15	2 EA.	PEDESTRIAN SIGNAL MOUNTING: SIDE OF POST, ONE SIGNAL. ECONOLITE FW5200BG (SIGNAL HEAD NO. 22P, 61P)	*		S656-10A SP MULTIPLE APPROACH VIDEO DETECTION SYSTEM: AUTOSCOPE DUO SENSORS ADUOS(A700-1082-1), AUTOSCOPE DUO CABLES ADUOCLB250(214-101-508), 10.4 LCD MONITOR, MNC CONNECTORS, BNC STRAIGHT ADAPTER CONNECTORS
16	2 EA.	PEDESTRIAN SIGNAL HEAD MOUNTING: TOP OF POST, ONE-WAY SIGNAL. ECONOLITE FW5242BG (SIGNAL HEAD NO. 81P, 82P)	*		S904-05A SP EMERGENCY VEHICLE PRE-EMPT SYSTEM: GTT M764 PHASE SELECTOR, GTT M678 OPTICON INTERFACE PANEL, GTT M722 OPTICOM DETECTOR, M575 CONFIRMATION LIGHT KITS, M138 OPTICOM CABLE, PELCO ASTRO-MINI BRAC MOUNTS AB-0121-56-SS-PNC
17	8 EA.	PEDESTRIAN PUSHBUTTON ASSEMBLY: INCLUDE MOUNTING ASSEMBLY, CHROME PUSHBUTTON SWITCH, CAMPBELL COMPANY PUSHBUTTON ASSEMBLY 501-0801/512 W/ R10-3e, MEETING ITD STANDARD SPECIFICATION 713.08 SIGNAL POLES REGARDING PUSHBUTTONS.	ILLUMINATION		
REVISIONS			1	4 EA.	LUMINAIRE: SLIP FITTER MOUNTING ON NOMINAL 2" DIAMETER PIPE BRACKETS, INTERNALLY MOUNTED 120-277V ELECTRONIC DRIVER, SURGE PROTECTOR MATCHING ELECTRONIC DRIVER SPECS, CCT BETWEEN 4000-4500K, CRI OF 70 OR GREATER, NVLAP INTENSITY AND CHROMATICITY CONFIRMED, MUST AVERAGE 100 LUMENS/WATT, MIN. 12,000-30,000 LUMENS. GE ERL1-0-09-B3-40-D-GRAY SEE ITD STANDARD SPECIFICATIONS 713.01 FOR LUMINAIRES.
DATE	DESCRIPTION	DESIGNED WER	PROJECT NO.		
		DESIGN CHECKED GEH	SIGNAL MATERIALS SUMMARY		
		DETAILED WER	English		
		DRAWING CHECKED PAO	TR036		
SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY			BRYDEN AVENUE & 5TH STREET INTERSECTION		
CADD FILE NAME L18-051_19.dwg			COUNTY NEZ PERCE		
DRAWING DATE: FEBRUARY, 2020			KEY NUMBER XXXXX		
IDaho TRANSPORTATION DEPARTMENT			SHEET 19 OF 73		
TD&H ENGINEERING					

1. 350 L.F. 2" PC CONDUIT WILL BE NEEDED TO EXTEND EX. LINES TO NEW JUNCTION BOXES AND SIGNALS

2. IF EX. CONDUIT ISN'T USABLE, 1500 L.F. OF 2" PC CONDUIT WILL BE NEEDED. SEE MATERIALS LIST SUMMARY, S900-50A

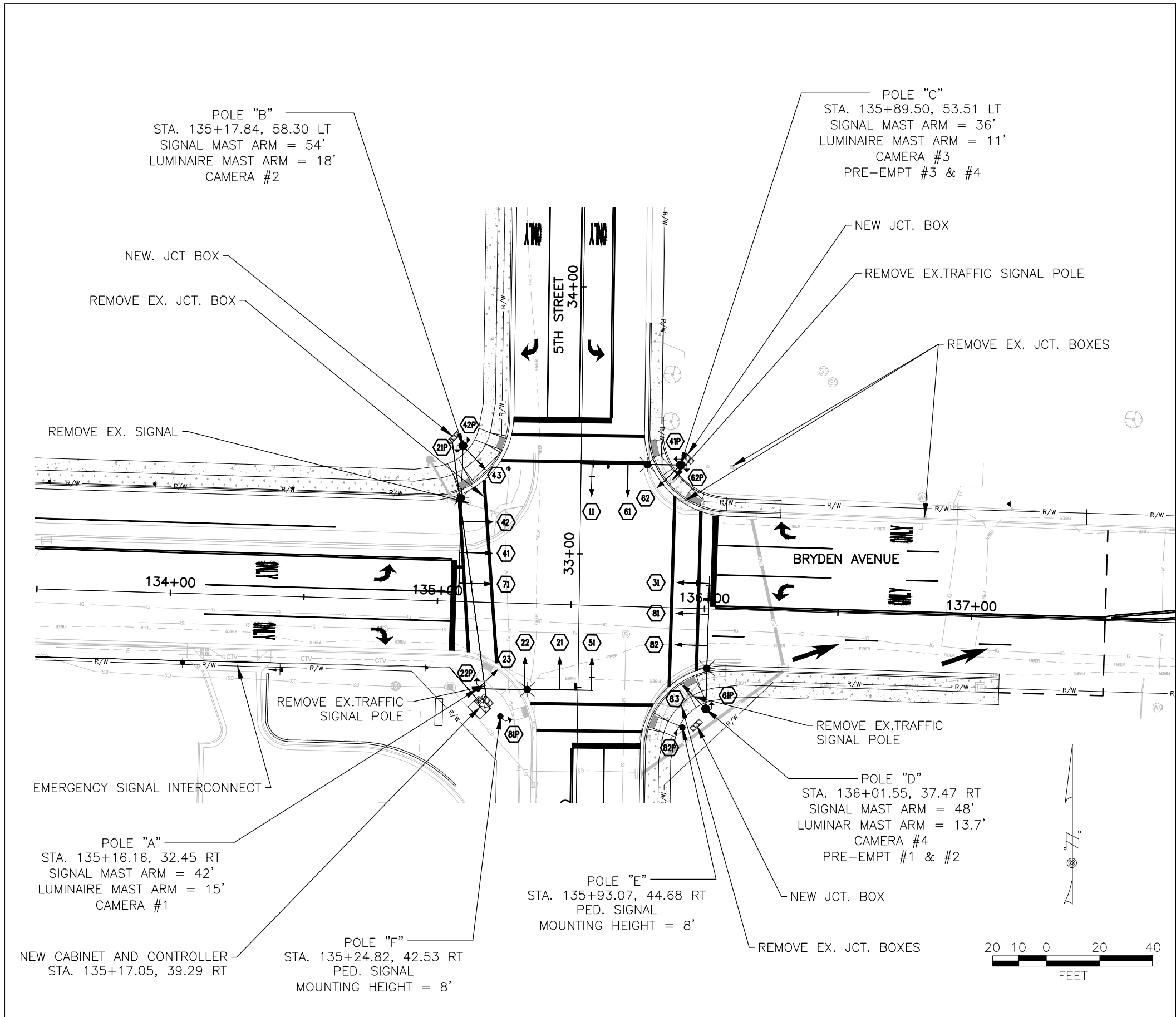
PROFESSIONAL ENGINEER

PHILLIP A. ODEGARD

7654

02/28/2020

STATE OF IDAHO



NOTE:

- ABANDON IN PLACE EXISTING LOOP DETECTORS ON ALL STREETS.
- REMOVE MDS RADIO INTERCONNECT FROM EXISTING SIGNAL CABINET AND INSTALL IN NEW CABINET.
- REUSE EXISTING CONDUIT UNLESS SPECIFIED BY PROJECT ENGINEER.

LEGEND

- JUNCTION BOX
- EXIST.JUNCTION BOX
- LUMINAIRE W/ARM
- SIGNAL HEAD (3 SECTION)
- SIGNAL HEAD (4 SECTION)
- PEDESTRIAN HEAD SIGNAL
- POLE W/MAST ARM
- VIDEO CAMERA
- PEDESTRIAN POLE
- PREEMPT DETECTOR/INDICATOR
- CONTROLLER & SERVICE PEDESTAL
- SIGNAL HEAD NUMBER.
- PEDESTRIAN HEAD NUMBER

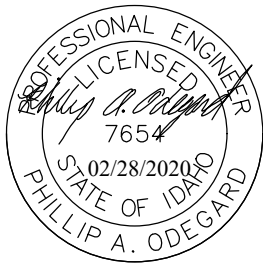
LIGHTING SPECIFICATIONS

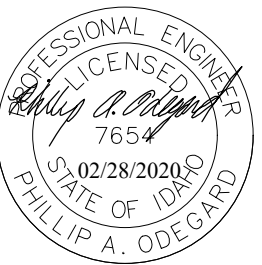
ILLUMINATION	LIGHT EMITTING DIODE (LED)
LUMINAIRES	200 WATT MAX.
INTENSITY	Eavg = 1.8 FC Eavg/Emin = 3.0 MAX.
DISTRIBUTION	TYPE III
CIRCUITRY	UNDERGROUND CONDUIT
SERVICE	PEDESTAL MOUNTED 120/240 VOLT
SUPPORT	GALVANIZED STEEL POLES AND STANDARD EXTENSIONS ON SIGNAL POLES

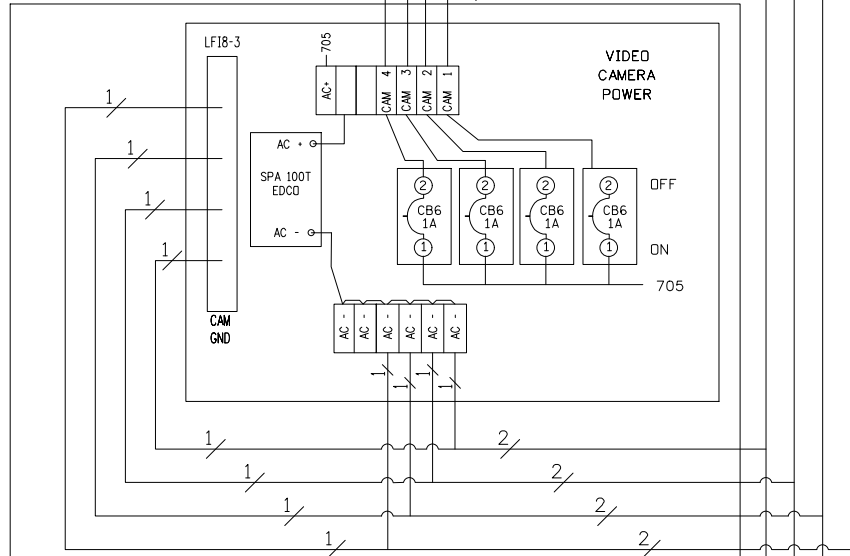
NOTES:

- INSTALL ALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AS ADOPTED BY THE STATE.
- SEE "PHASING AND CONDUIT PLAN", "SIGNAL FEILD WIRIING DIAGRAM", "VIDEO DETECTION DIAGRAM", & "SIGNAL HEAD AND SIGN MOUNTING DETAILS" SHEETS FOR FURTHER SIGNAL DETAIL.
- CONDUIT EXTENSIONS WILL BE NEEDED FROM EXISTING JUNCTION BOXES TO NEW JUNCTION BOXES BEHIND SIGNAL POLE.
- POTHOLE LOCATION OF PROPOSED POLE AND CABINET FOUNDATIONS PRIOR TO CONSTRUCTION AND PRIOR TO ORDERING SIGNAL EQUIPMENT. BRING ANY CONFLICTS IMMEDIATELY TO THE ATTENTION OF THE ENGINEER.
- INSTALL TYPE D SIGNAL POLE FOUNDATIONS FOR ALL SIGNAL POLES. USE TYPE A FOUNDATIONS FOR PED. POLES.
- VERIFY AND CHECK ALL DIMENSIONS AND DETAILS SHOWN ON THE DRAWINGS PRIOR TO THE START OF CONSTRUCTION. BRING ANY DISCREPANCIES IMMEDIATELY TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATIONS.
- SPACING PLANS SHOWN ARE VIRTUAL ZONES FOR VIDEO DETECTION.
- LEFT-TURN PHASE QUEUE ZONES (50' FROM STOP BAR) ARE TO BE SET IN NON-LOCKING MODE. RIGHT TURN LANE ZONES ARE TO BE SET IN TIME DELAY & NON-LOCKING MODE.
- KEEP EXISTING SIGNAL IN OPERATION UNTIL NEW SIGNAL EQUIPMENT IS INSTALLED AND READY FOR SWITCHOVER IN CONTROLLER CABINET.

REVISIONS		DESIGNED:	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	IDAHO TRANSPORTATION DEPARTMENT	PROJECT NO.	TRAFFIC SIGNAL PLAN	English
DATE	DESCRIPTION	DESIGN CHECKED:					
		WER	CADD FILE NAME L18-051_20.dwg DRAWING DATE: FEBRUARY, 2020	TD&H ENGINEERING	TR036	BRYDEN AVENUE & 5TH STREET INTERSECTION LEWISTON, IDAHO	COUNTY
		GEH					NEZ PERCE
		WER					KEY NUMBER
		PAO					XXXXX
							SHEET 20 OF 73

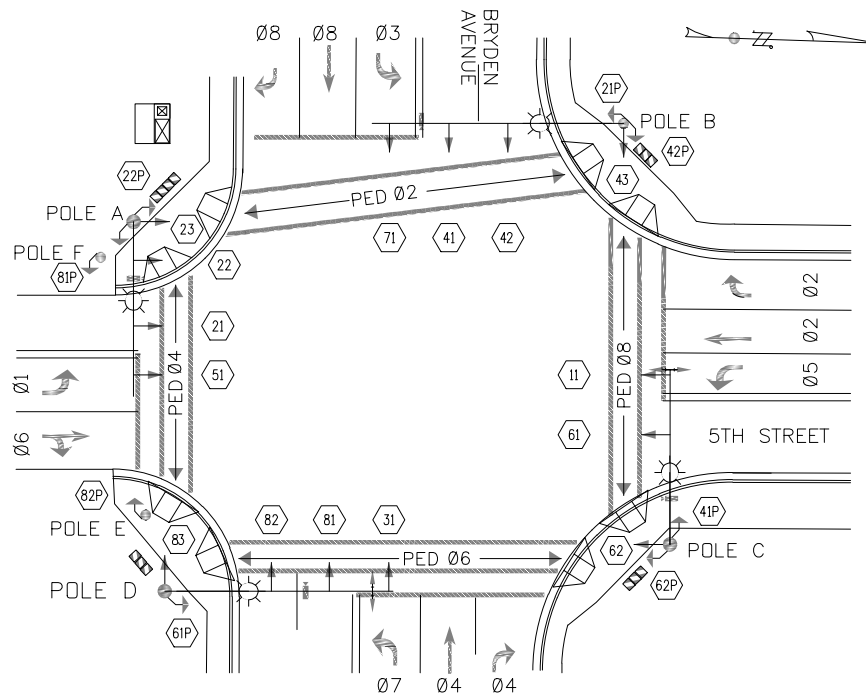
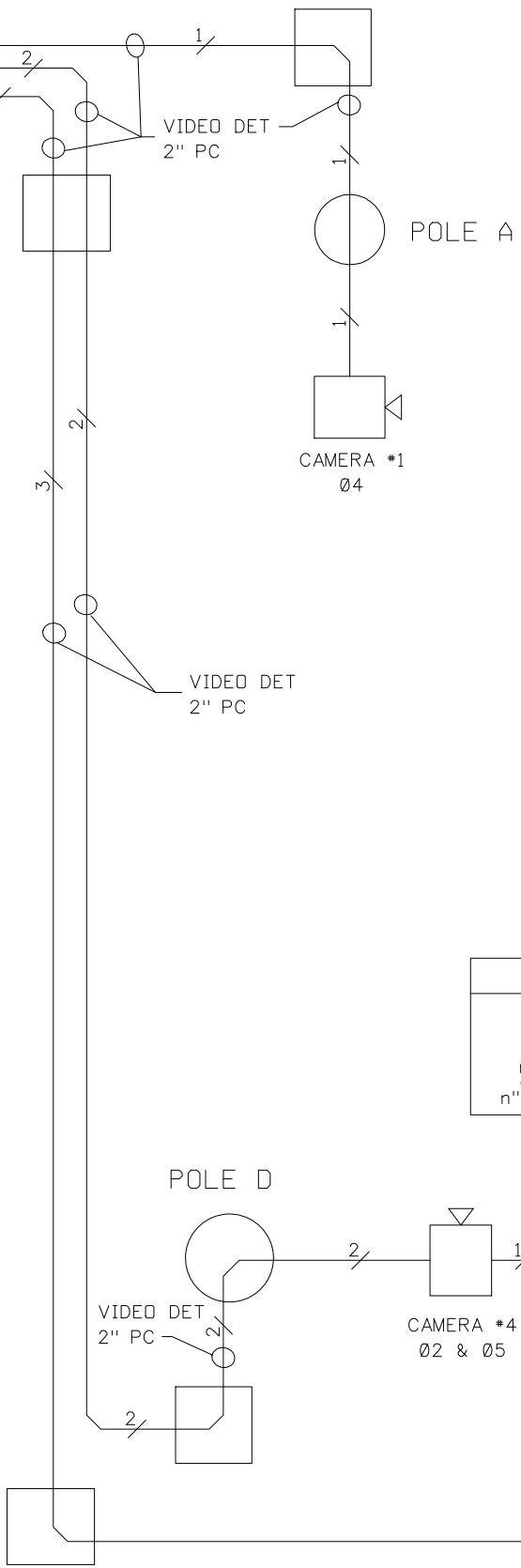






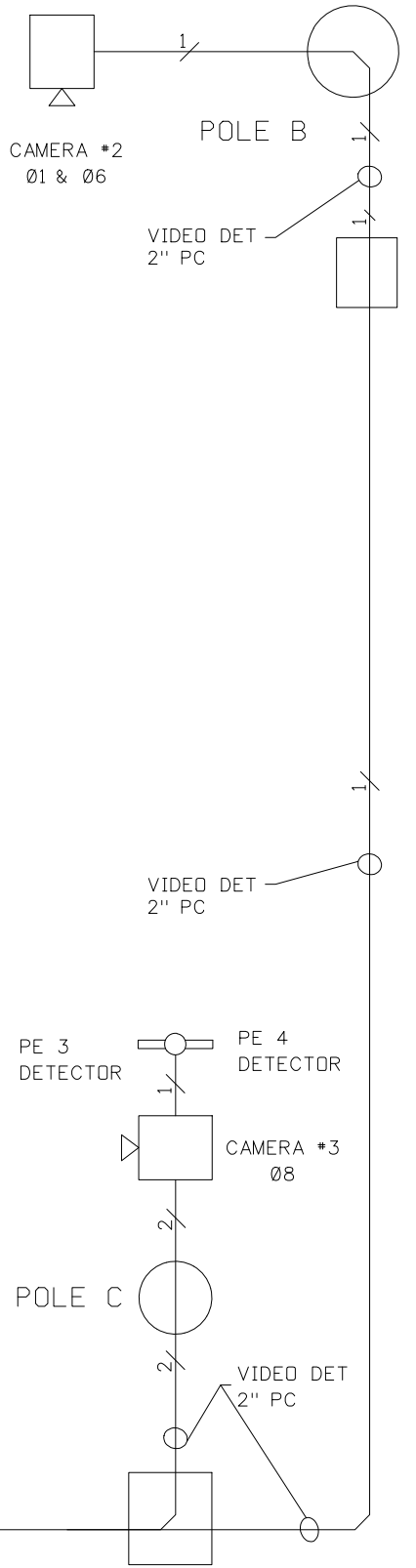
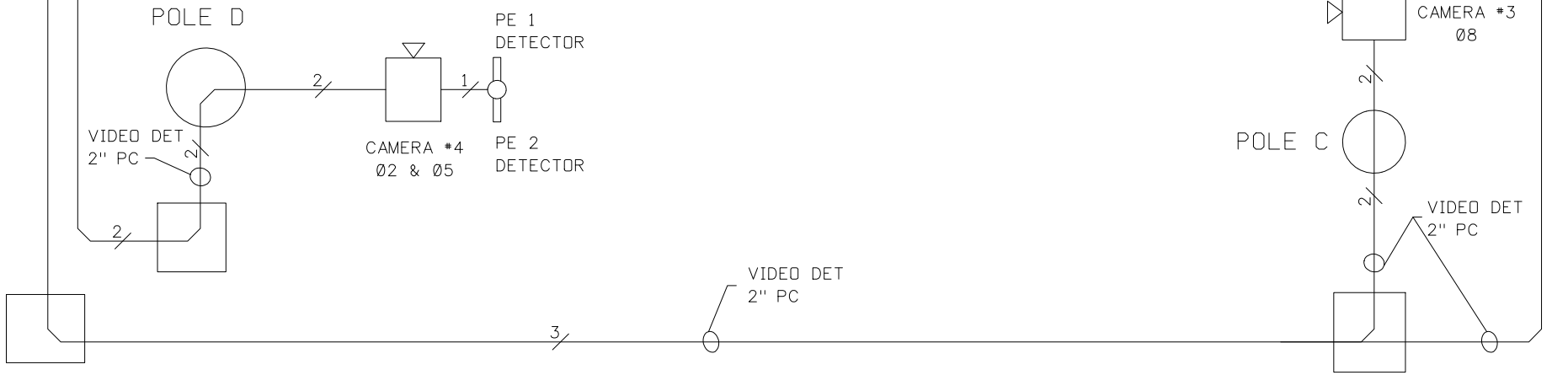
VIDEO FAULT AND SURGE PROTECTION TO BE PROVIDED. SEE VIDEO DETECTION SP.

Ø1 & Ø6 Ø2 & Ø5	DC GND	X11	BARE
	PE 1	X12	YELLOW
	PE 2	X13	BLUE
	26 VDC	X14	ORANGE
Ø3 & Ø8 Ø4 & Ø7	DC GND	X17	BARE
	PE 3	X18	YELLOW
	PE 4	X119	BLUE
	26 VDC	X20	ORANGE



- NOTES:
1. USE 2" PC FROM EACH SIGNAL SIZE "PGC" JUNCTION BOX TO EACH SIGNAL POLE BASE.
 2. ALL NON-METALLIC RACEWAYS SHALL HAVE A #8 THWN GROUND CONDUCTOR.
 3. SEE SIGNAL INTERSECTION PLAN SHEET FOR LOCATION OF JUNCTION BOXES.
 4. VIDEO DETECTION CABLE SHALL BE TO THE MANUFACTURE'S SPECIFICATIONS. LEAVE 10' OF SPARE WIRE AT THE CABINET AND AT THE CAMERA LOCATIONS.

SYMBOLGY CHART	
	Indicates multi-conductors or cable assemblies. (IMSA 19-1 or 20-1)
	Indicates individual conductors or conductor breakout from cable or bundle.
	Denotes number of conductors and/or cable(s) per conduit.
	n" PC - Denotes conduit size and type.



REVISIONS	
DATE	DESCRIPTION

DESIGNED:	WER
DESIGN CHECKED:	GEH
DETAILED:	WER
DRAWING APPROVED:	PAO

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME L18-051_22.dwg

DRAWING DATE: FEBRUARY, 2020

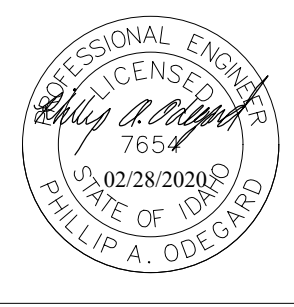
IDAHO TRANSPORTATION DEPARTMENT

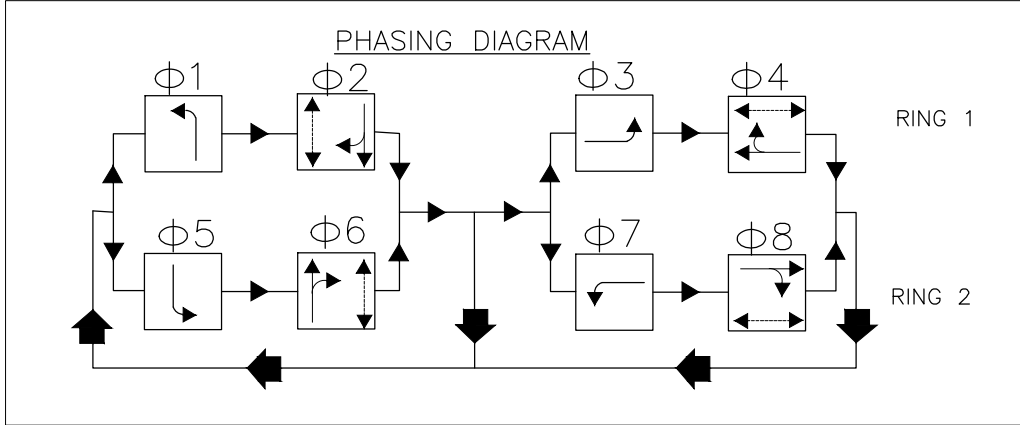
TD&H ENGINEERING

PROJECT NO.
TR036

VIDEO DETECTION DIAGRAM
BRYDEN AVENUE & 5TH STREET INTERSECTION LEWISTON, IDAHO

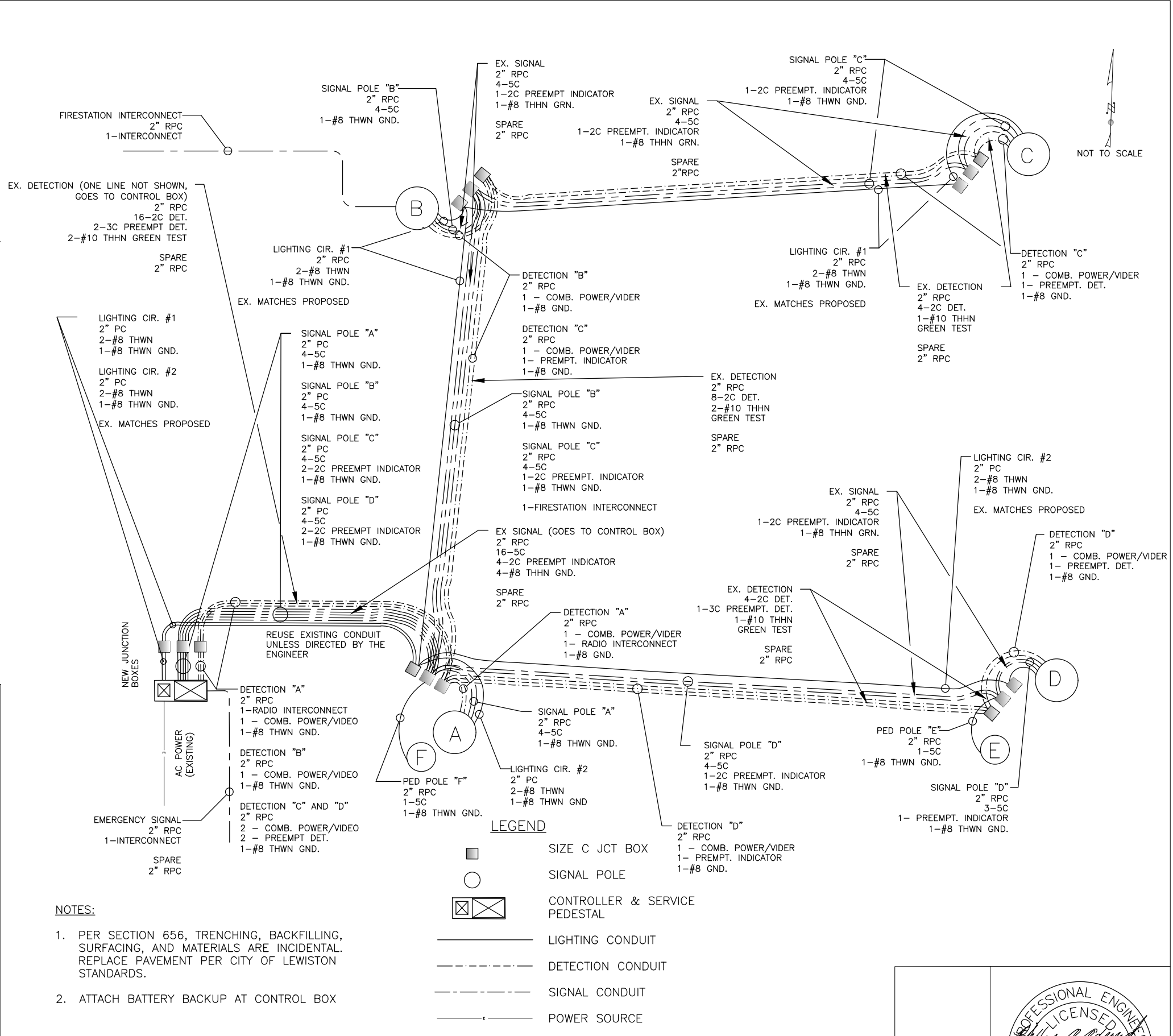
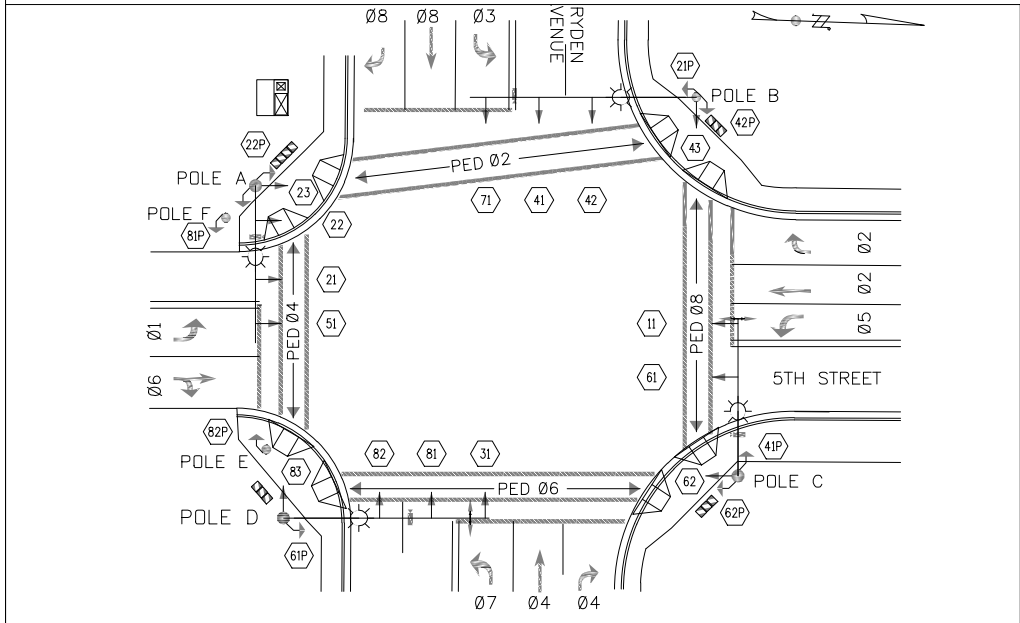
English	
COUNTY	NEZ PERCE
KEY NUMBER	XXXXX
SHEET	22 OF 73



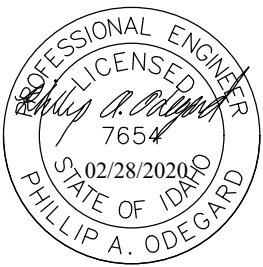


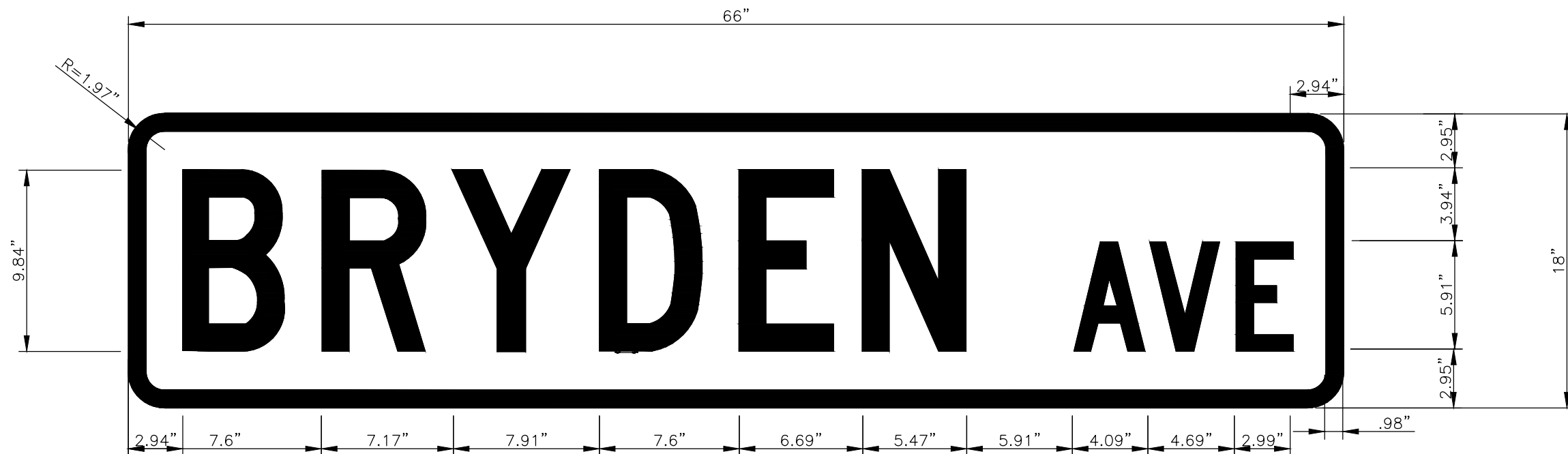
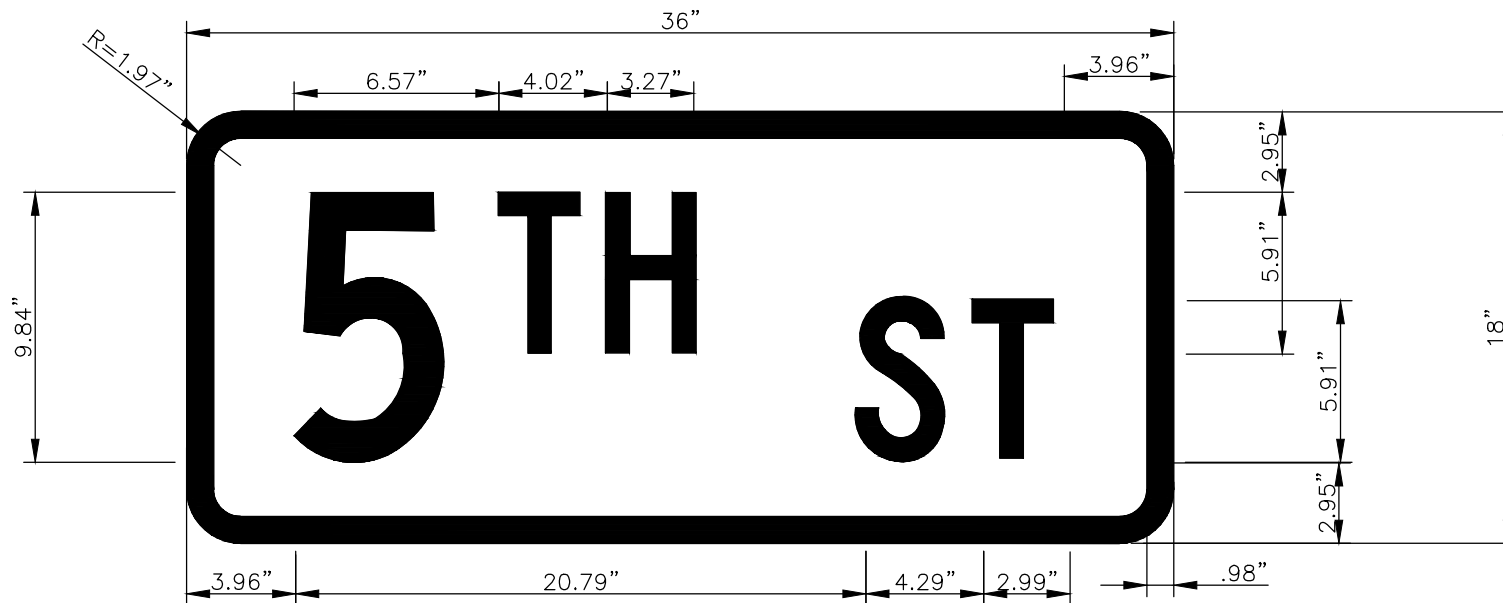
SIGNAL SEQUENCE CHART

PHASE	VEHICLE HEADS								PEDESTRIAN HEADS				CLEARANCE
	11	21-23	31	41-43	51	61-63	71	81-82	21P-22P	41P-42P	61P-62P	81P-82P	
Φ1	R	R	R	R	G	R	R	R	DW	DW	DW	DW	VEHICLE
Φ2	R	G	R	R	FY	R	R	R	DW	W	DW	DW	PEDESTRIAN
Φ3	R	R	R	R	R	R	R	R	DW	FDW	DW	DW	VEHICLE
Φ4	R	R	R	G	R	R	FY	R	DW	DW	W	DW	PEDESTRIAN
Φ5	G	R	R	R	R	R	R	R	DW	DW	DW	DW	VEHICLE
Φ6	FY	R	R	R	R	G	R	R	DW	DW	DW	FDW	PEDESTRIAN
Φ7	R	R	R	R	R	R	R	R	DW	DW	DW	DW	VEHICLE
Φ8	R	R	FY	R	R	R	R	G	FDW	DW	DW	DW	PEDESTRIAN
FLASH	R	R	R	R	R	R	R	R					



REVISIONS		DESIGNED:	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	IDAHO TRANSPORTATION DEPARTMENT	PROJECT NO. TR036	PHASING & CONDUIT DIAGRAM	BRYDEN AVENUE & 5TH STREET INTERSECTION LEWISTON, IDAHO	English	COUNTY NEZ PERCE	KEY NUMBER XXXXX	SHEET 23 OF 73
DATE	DESCRIPTION	DESIGN CHECKED:									
		DETAILED:									
		DRAWING APPROVED:									
		PAO	CADD FILE NAME L18-051_23.dwg	TD&H ENGINEERING							
			DRAWING DATE: FEBRUARY, 2020								





REVISIONS	DESIGNED:
DESCRIPTION	DESIGN CHECKED:
	GEH
	WER
	PAO

WER	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
GEH	CADD FILE NAME L18-051_24.dwg
WER	DRAWING DATE: FEBRUARY, 2020
PAO	

IDAHO
TRANSPORTATION
DEPARTMENT

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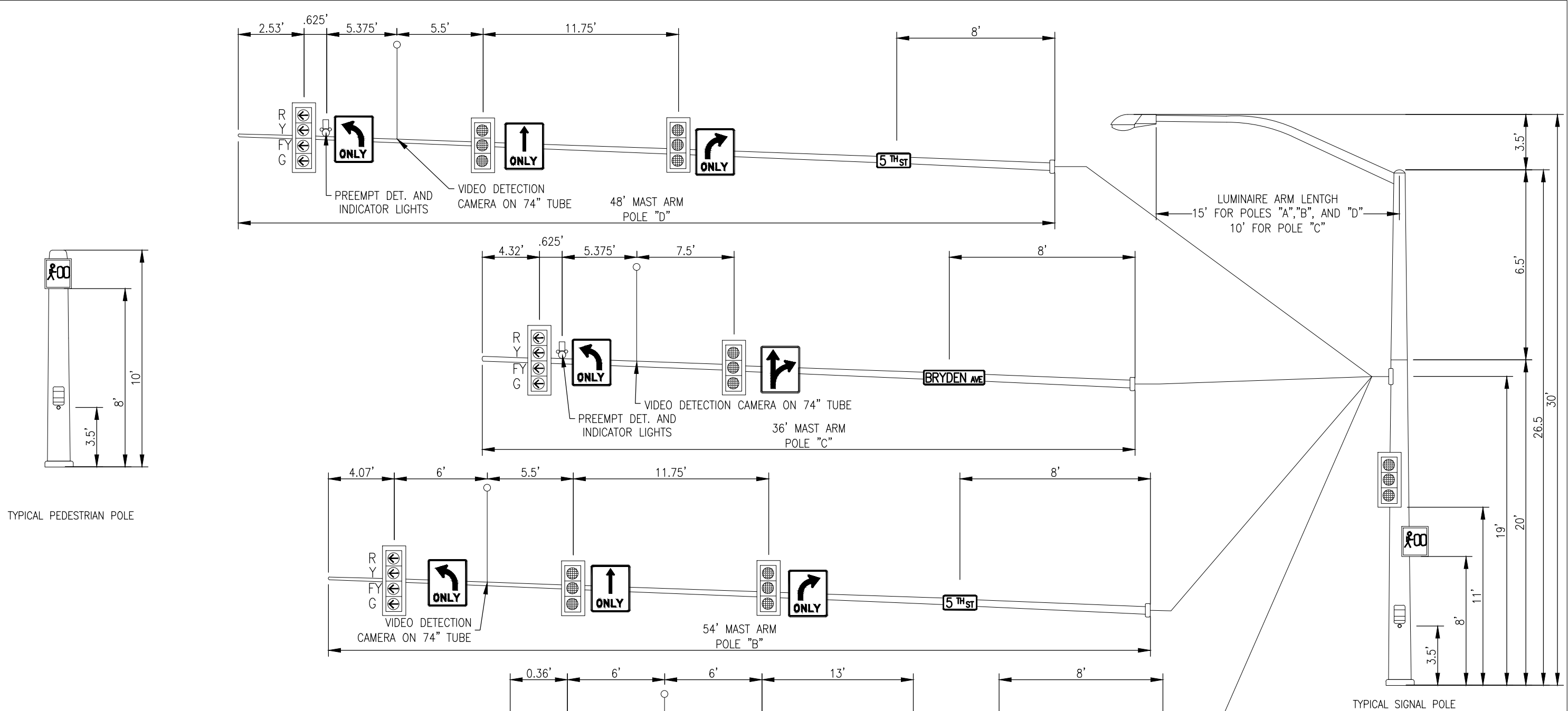


PROJECT NO.
TR036

SIGN DETAILS
BRYDEN AVENUE & 5TH STREET INTERSECTION LEWISTON, IDAHO

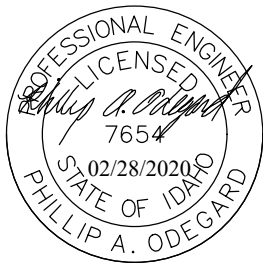
English
COUNTY NEZ PERCE
KEY NUMBER XXXXX
SHEET 24 OF 73



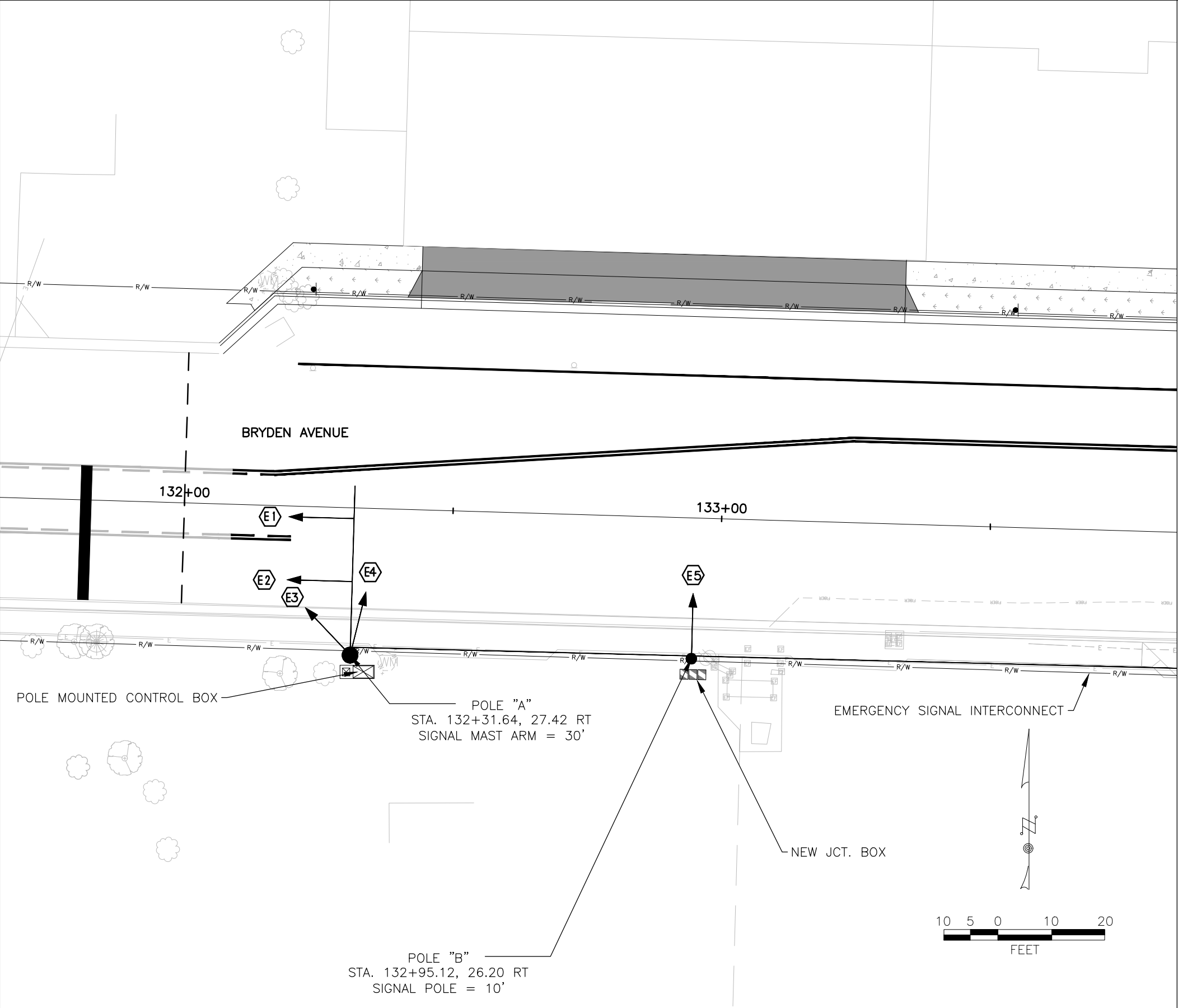


- NOTES:
- 1. VIDEO CAMERA LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED ON SITE BY A MANUFACTURES SITE SURVEY.
 - 2. ALL SIGNING AND MOUNTING BRACKETS SHOWN ON THIS SHEET SHALL NOT BE PAID FOR SEPARATELY, BUT CONSIDERED INCIDENTAL TO ITEM 656-005A TRAFFIC SIGNAL INSTALLATION.
 - 3. SEE "TRAFFIC SIGNAL PLAN" SHEET FOR LUMINAIRE MAST ARM AND PEDESTRIAN SIGNAL HEAD ORIENTATION.
 - 4. SEE "STANDARD DETAIL 656-1, TD-14A, AND TD-14B FOR MAST ARM INSTALLATION DETAILS.

REVISIONS		DESIGNED:	IDaho TRANSPORTATION DEPARTMENT	PROJECT NO.	TRAFFIC SIGNAL MOUNTING DIAGRAM	English
DATE	DESCRIPTION	DESIGN CHECKED:				
			IDaho TRANSPORTATION DEPARTMENT	TR036	BRYDEN AVENUE & 5TH STREET INTERSECTION LEWISTON, IDAHO	COUNTY
						NEZ PERCE
						KEY NUMBER
			IDaho TRANSPORTATION DEPARTMENT			XXXXX
						SHEET
			IDaho TRANSPORTATION DEPARTMENT			25 OF 73



ITEM		QTY.	ITEM S656–015A – EMERGENCY SIGNAL INSTALLATION				ITEM		QTY.	ITEM S656–015A – EMERGENCY SIGNAL INSTALLATION			
			CONTRACTOR SUPPLIED MATERIALS						CONTRACTOR SUPPLIED MATERIALS				
1	1	EA.	TRAFFIC SIGNAL CABINET: FURNISH CABINET MEETING ALL ITD NEMA TS2 TYPE 1 SIGNAL CABINET SPECIFICATIONS AND SPECIAL PROVISION S656–015A										
2	1	EA.	TRAFFIC SIGNAL CONTROLLER: FURNISH CONTROLLER IN CONJUNCTION WITH SIGNAL CABINET, MEETING ALL ITD NEMA TS2 TYPE 1 AND SPECIAL PROVISION S656–015A. ECONOLITE COPABLT CONTROLLER – SHELF MOUNTED FOUR (4) PHASE FULLY ACTUATED, DIGITAL, SOLID STATE TRAFFIC CONTROLLER, NEXUS 9 TABLED, RENO A&E LOAD SWITCH, RENO A&E FLASHER, RENO A&E FLASH TRANSFER RELAY, BUS INTERFACE UNITS, PDC MODEL 252 AC ISOLATOR, UPSTEALTH NEMA INVERTER, UPSTEALTH 500W NEMA BATTERIES, UPSTEALTH POWER INTERFACE MODULE, UPSTEALTH INCOMING POWER BLOCK (TBS) WIRING, PIER TO PIER FIBER INTERCONNECT.										
3	1	EA.	POLE A: STEEL COMBINATION TRAFFIC SIGNAL AND LUMINAIRE, WITH 30’ SIGNAL MAST ARM. VALMONT. REFERENCE ITD STANDARD SPECIFICATION 713.08 FOR SIGNAL POLES AND 713.09 FOR LUMINARIES.										
4	1	EA.	POLE B: STEEL POLE WITH MOUNTING HEIGHT OF 8’. PELCO PB–5334–PNC, PB–5325–PNC, PB–5306–GLV. MEETS ITD STANDARD SPECIFICATION 713.08 FOR PEDESTRIAN SIGNAL POLES.										
5	5	EA.	VEHICLE SIGNAL HEAD: EMPTY 12” DIAMETER SIGNAL HEAD, 3 SECTION. ECONOLITE STP38VDAB11N–11–11 W/ ECONOLITE 06–1001–011 VISOR AND ECONOLITE 5” REFLECTIVE BACKPLATE. REFERENCE ITD STANDARD SPECIFICATION 713.11 FOR VEHICLE SIGNAL HEADS.										
6	2	EA.	SIGNAL BRACKETS: TRAFFIC SIGNAL ONE–WAY CLAMP MOUNT FOR MAST ARM MOUNTING. PELCO AS–0125–3–96–SS. (SIGNAL HEAD NO. E1 & E2)										
7	3	EA.	SIGNAL BRACKETS: TRAFFIC SIGNAL ONE–WAY FOR SIDE OF POST TERMINAL COMPARTMENT MOUNTING FOR 12” THREE SECTION TRAFFIC SIGNAL. ECONOLITE FWA2102BG. (SIGNAL HEAD NO. E3, E4, & E5)										
8	5	EA.	VEHICLE SIGNAL LAMPS (RED BALL): 12” LED 120V, DAILIGHT 433–1210–003XL15. SEE ITD STANDARD SPECIFICATION 713.11 FOR SIGNAL HEADS AND 713.12 FOR SIGNAL HEAD COVERS.										
9	8	EA.	VEHICLE SIGNAL LAMPS (YELLOW BALL): 12” LED 120V, DAILIGHT 433–3230–901XL15.										
10	1	EA.	VEHICLE SIGNAL LAMPS (YELLOW BALL): 8” LED 120V, DAILIGHT 433–3130–901XL.										
10	1	EA.	VEHICLE SIGNAL LAMPS (GREEN BALL): 12” LED 120V, DAILIGHT 433–2270–001XL15.										
11	1	EA.	FOUNDATION: TYPE ”A” FOUNDATION FOR SIGNAL POLE ”B”. REFERENCE ITD STANDARD 713.10 BASE BREAKAWAY DEVICE AND 656.02 TRAFFIC SIGNAL INSTALLATION										
12	1	EA.	FOUNDATION: TYPE ”D” FOUNDATION FOR SIGNAL POLE ”A”. REFERENCE ITD STANDARD 713.10 BASE BREAKAWAY DEVICE AND 656.02 TRAFFIC SIGNAL INSTALLATION										
13	3	EA.	JUNCTION BOX: SIZE C CONCRETE JUNCTION BOX. REFERENCE ITD STANDARD SPECIFICATIONS 713.05 CONCRETE JUNCTION BOXES										
14	1	EA.	FIBER INTERCONNECT: PREPARE 400’ OF FIBER CABLE TO CONNECT TO NORTHWEST JUNCTION BOX THROUGH MAIN CONTROL BOX INCLUDES CONDUIT, TRENCHING, AND BACKFILL AS INCIDENTALS.										
15	1	EA.	MISCELLANEOUS HARDWARE: INCLUDES PLASTIC CONDUIT, WATERTIGHT STEEL ELBOWS, THWN WIRE, 600 VOLT 14 GAUGE 3C & 5C SIGNAL CABLE, AND VARIOUS ITEMS, HARDWAR, AND FITTINS NECESSARY FOR THE COMPLETE SIGNAL AND LIGHTING INSTALLATION AS SHOWN ON PLANS.										
REVISIONS			DESIGNED	WER	SCALES SHOWN ARE FOR 11” X 17” PRINTS ONLY	IDAHO TRANSPORTATION DEPARTMENT		PROJECT NO.		EMERGENCY SIGNAL MATERIALS SUMMARY		English	
DATE DESCRIPTION			DESIGN CHECKED	GEH	CADD FILE NAME L18–05_26.dwg			TR036		BRYDEN AVENUE & 5TH STREET INTERSECTION			
			DETAILED	WER	DRAWING DATE: FEBRUARY, 2020	TD&H ENGINEERING						COUNTY	NEZ PERCE
			DRAWING CHECKED	PAO								KEY NUMBER	XXXXX
												SHEET	26 OF 73



- LEGEND
- JUNCTION BOX

EXIST. JUNCTION BOX

LUMINAIRE W/ARM

SIGNAL HEAD (3 SECTION)

SIGNAL HEAD (4 SECTION)

PEDESTRIAN HEAD SIGNAL

POLE W/MAST ARM

VIDEO CAMERA

PEDESTRIAN POLE

PREEMPT DETECTOR/INDICATOR

CONTROLLER & SERVICE PEDESTAL

SIGNAL HEAD NUMBER.

PEDESTRIAN HEAD NUMBER

NOTES:

1. INSTALL ALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AS ADOPTED BY THE STATE.

2. SEE "EMERGENCY SIGNAL DIAGRAM" FOR FURTHER SIGNAL INSTALLATION INSTRUCTION.

3. POT HOLE LOCATION OF PROPOSED POLE AND CABINET FOUNDATIONS PRIOR TO CONSTRUCTION AND PRIOR TO ORDERING SIGNAL EQUIPMENT. BRING ANY CONFLICTS IMMEDIATELY TO THE ATTENTION OF THE ENGINEER.

4. INSTALL TYPE D SIGNAL POLE FOUNDATION FOR POLE "A". USE TYPE A FOUNDATION FOR POLE "B".

5. VERIFY AND CHECK ALL DIMENSIONS AND DETAILS SHOWN ON THE DRAWINGS PRIOR TO THE START OF CONSTRUCTION. BRING ANY DISCREPANCIES IMMEDIATELY TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATIONS.

LIGHTING SPECIFICATIONS

ILLUMINATION	LIGHT EMITTING DIODE (LED)
LUMINAIRES	200 WATT MAX.
INTENSITY	Eavg = 1.8 FC Eavg/Emin = 3.0 MAX.
DISTRIBUTION	TYPE III
CIRCUITRY	UNDERGROUND CONDUIT
SERVICE	PEDESTAL MOUNTED 120/240 VOLT
SUPPORT	GALVANIZED STEEL POLES AND STANDARD EXTENSIONS ON SIGNAL POLES

REVISIONS		DESIGNED:
DATE	DESCRIPTION	WER
		GEH
		WER
		PAO

DESIGN CHECKED:	WER
DETAILED:	GEH
DRAWING APPROVED:	PAO

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME L18-051_27.dwg
DRAWING DATE: FEBRUARY, 2020

IDAHO TRANSPORTATION DEPARTMENT

TD&H ENGINEERING



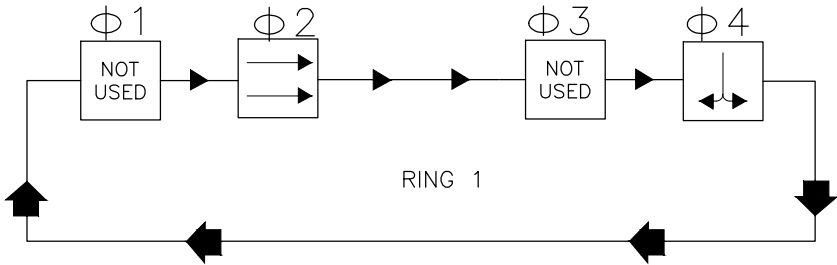
PROJECT NO.	EMERGENCY SIGNAL PLAN
TR036	BRYDEN AVENUE & 5TH STREET INTERSECTION LEWISTON, IDAHO

English
COUNTY NEZ PERCE
KEY NUMBER XXXXX
SHEET 27 OF 73

SIGNAL SEQUENCE CHART

PHASE	VEHICLE HEADS					CLEARANCE
	E1	E2	E3	E4	E5	
Φ 1	NA	NA	NA	NA	NA	VEHICLE
	NA	NA	NA	NA	NA	
Φ 2	FY	FY	FY	R	R	PEDESTRIAN
	Y	Y	Y	R	R	
Φ 3	NA	NA	NA	NA	NA	VEHICLE
	NA	NA	NA	NA	NA	
Φ 4	R	R	R	G	G	PEDESTRIAN
	R	R	R	G	G	

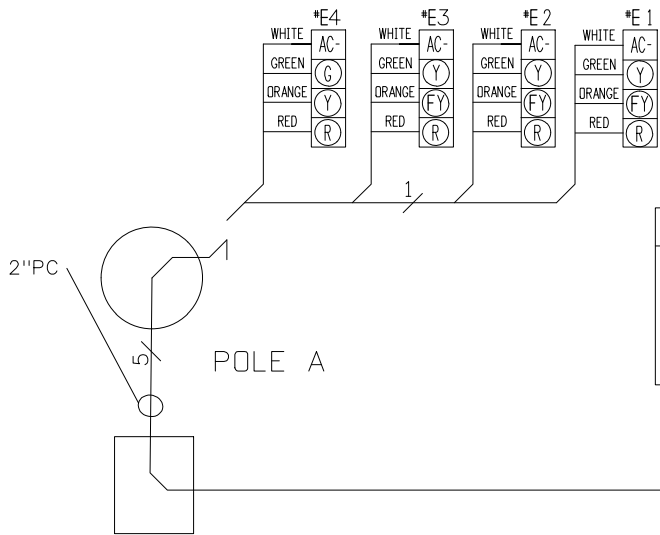
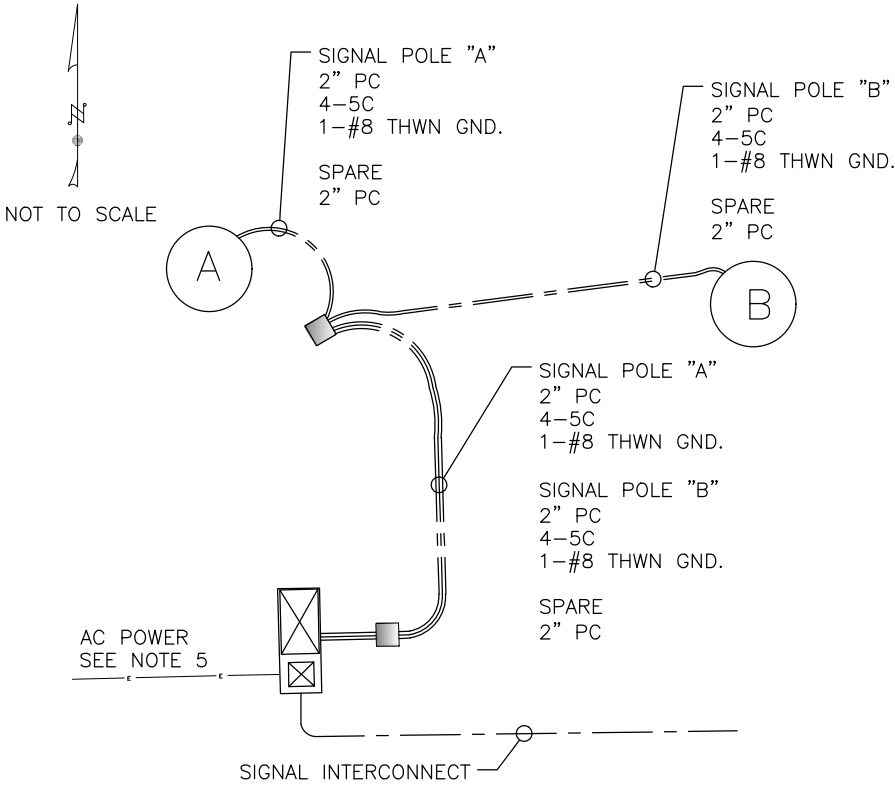
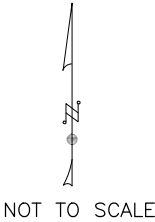
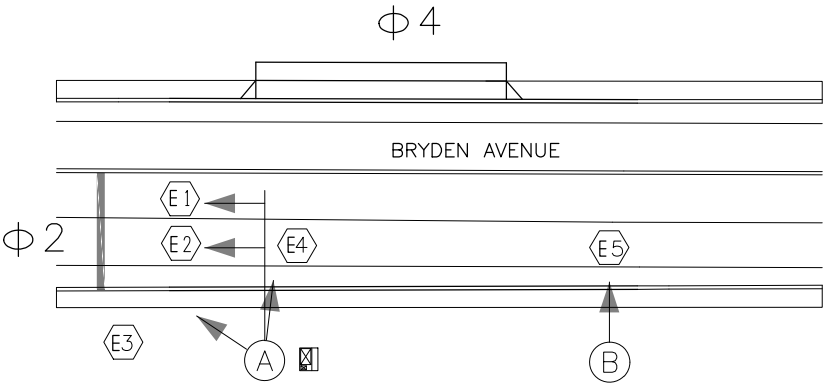
PHASING DIAGRAM



NOTES:

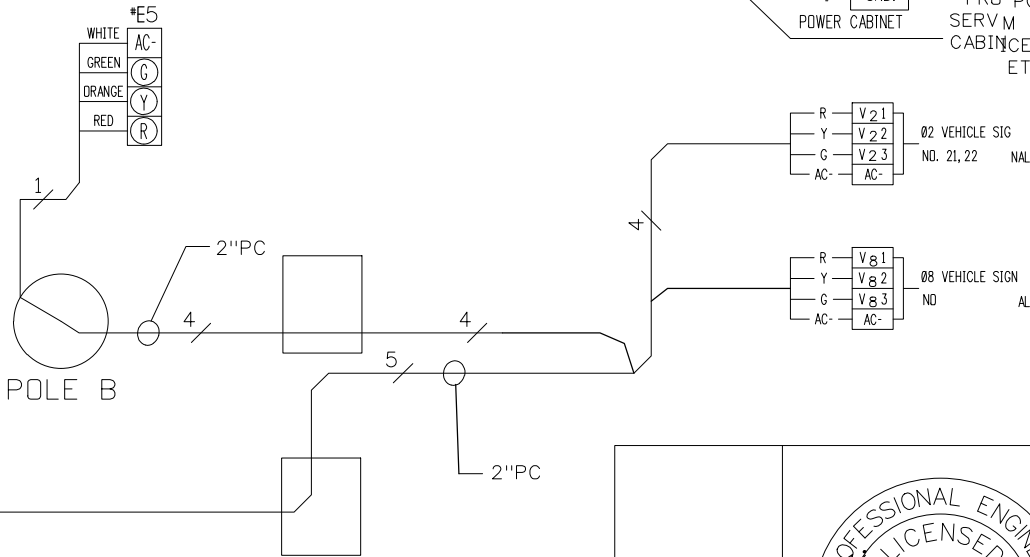
- USE 2" PC FROM EACH SIGNAL "C" SIZE JUNCTION BOX TO EACH SIGNAL POLE BASE. THE FILL SHALL BE 2 CONDUCTOR CABLES FOR PHASES: TO BE IMSA 19-1 OR 20-1 TYPE CABLES. UNUSED CONDUCTORS SHALL BE RETAINED FULL LENGTH
- NON-METALLIC RACEWAYS SHALL HAVE A # 8 THWN GROUND CONDUCTOR.
- SEE EMERGENCY SIGNAL PLAN SHEET FOR LOCATION OF JUNCTION BOXES.
- USE OF SIGNAL CONDUIT TO RUN SIGNAL INTERCONNECT BETWEEN EMERGENCY SIGNAL AND BRYDEN AVENUE/5TH STREET INTERSECTION IF POSSIBLE.
- CONTROL CABINET POWER SHALL BE DIRECTLY FROM OVERHEAD POWER, WITH METER INSTALLED WITH CABINET
- FLASHING YELLOW HEADS SHALL BE 8" LIGHTS, SEE SHEET 26

FIRESTATION DRIVEWAY

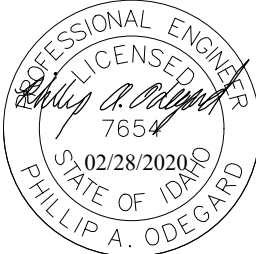


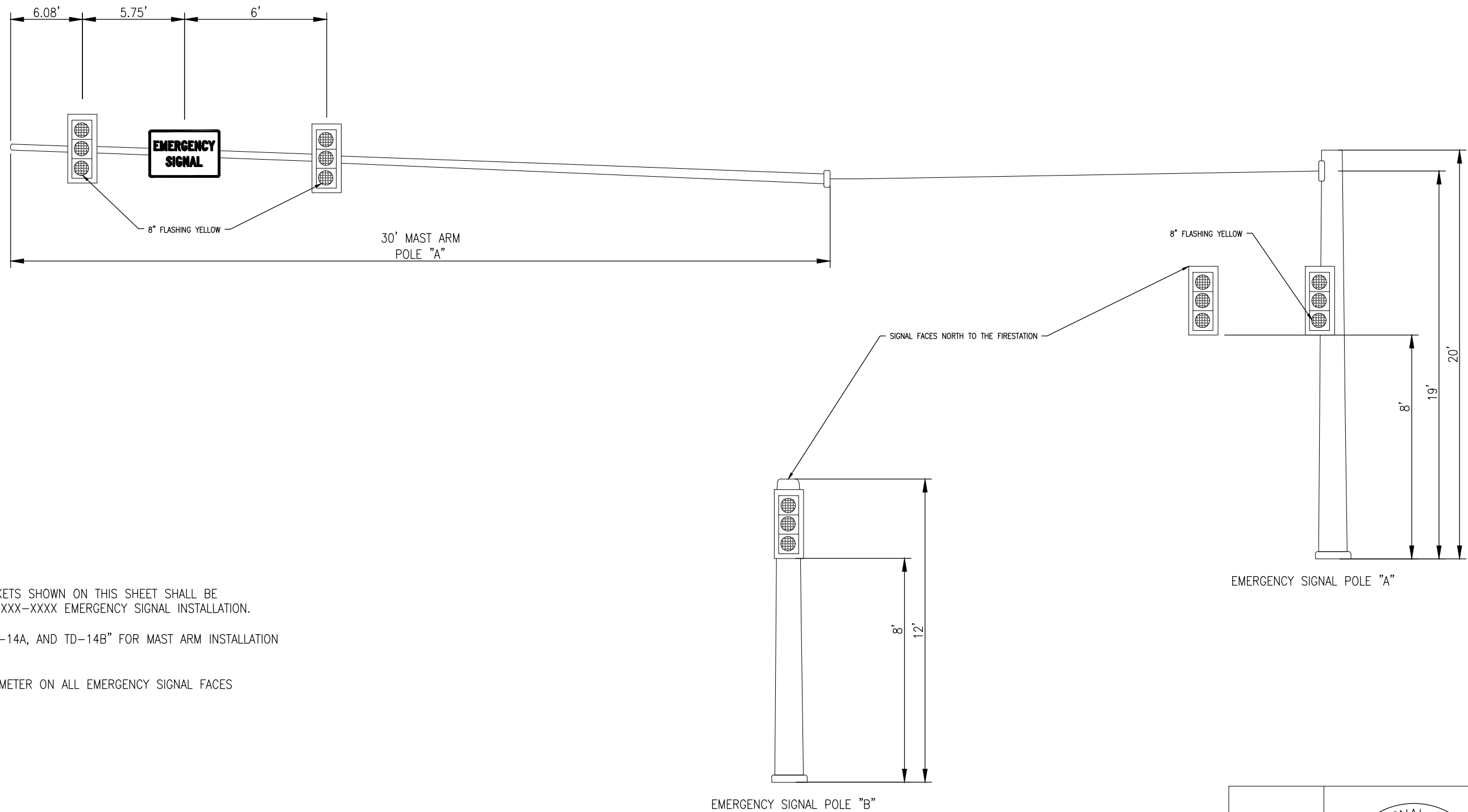
SYMBOLGY CHART

- Indicates multi-conductors or cable assemblies. (IMSA 19-1 or 20-1)
- Indicates individual conductors or conductor breakout from cable or bundle.
- n — Denotes number of conductors and/or cable(s) per conduit.
- n" PC — Denotes conduit size and type.



REVISIONS		DESIGNED:	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	IDAHO TRANSPORTATION DEPARTMENT	PROJECT NO.	EMERGENCY SIGNAL DIAGRAM	English
DATE	DESCRIPTION	DESIGN CHECKED:					
		GEH	CADD FILE NAME L18-051_28.dwg	TD&H ENGINEERING	TR036	BRYDEN AVENUE & 5TH STREET INTERSECTION LEWISTON, IDAHO	COUNTY NEZ PERCE
		WER	DRAWING DATE: FEBRUARY, 2020				KEY NUMBER XXXXX
		PAO					SHEET 28 OF 73





- NOTES:
- 1. ALL SIGNING AND MOUNTING BRACKETS SHOWN ON THIS SHEET SHALL BE CONSIDERED INCIDENTAL TO ITEM SXXX-XXXX EMERGENCY SIGNAL INSTALLATION.
 - 2. SEE "STANDARD DETAIL 656-1, TD-14A, AND TD-14B" FOR MAST ARM INSTALLATION DETAILS.
 - 3. SIGNAL HEADS ARE TO BE 12" DIAMETER ON ALL EMERGENCY SIGNAL FACES

REVISIONS		DESIGNED:	IDaho TRANSPORTATION DEPARTMENT	PROJECT NO.	EMERGENCY SIGNAL MOUNTING DIAGRAM	English	
DATE	DESCRIPTION	DESIGN CHECKED:		TR036	BRYDEN AVENUE & 5TH STREET INTERSECTION LEWISTON, IDAHO		
			IDaho TRANSPORTATION DEPARTMENT			COUNTY	
						NEZ PERCE	
			TD&H ENGINEERING			KEY NUMBER	
						XXXXXX	
						SHEET 29 OF 73	

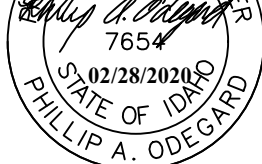


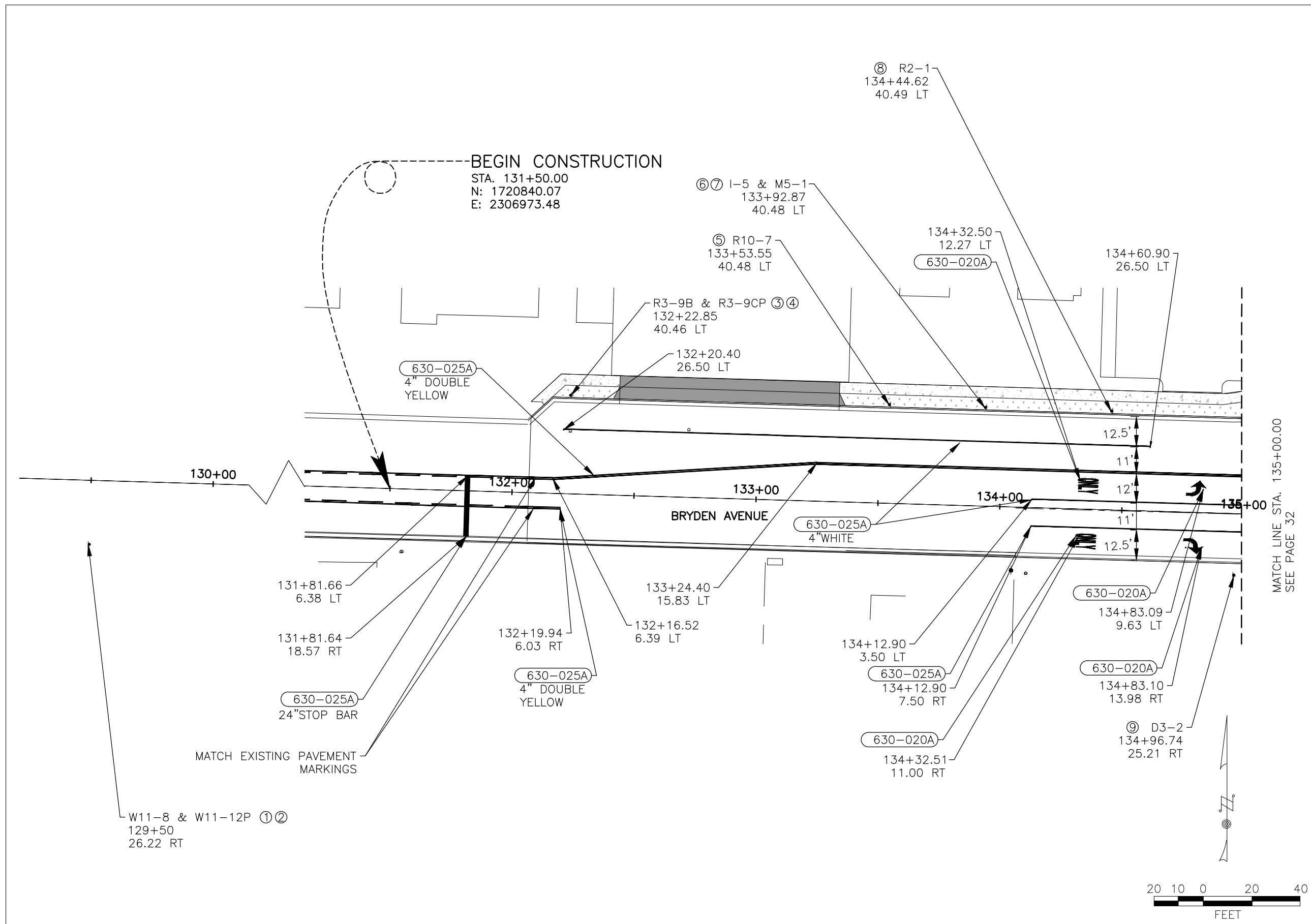
SIGN ASSEMBLY NO.	STATION (X) ALIGNMENT B = BRYDEN AVENUE F = 5TH STREET	RAMP NO.	FOUNDATION SIZE	POST TYPE	NO. OF POSTS	POST SPACING	APPROX. LENGTH OF 1st POST	APPROX. LENGTH OF 2nd POST	POST LENGTH ABOVE FINISH SHOULDER.	C	E	SIGN TYPE	SIGN DETAIL NUMBERS	SIGN SIZE W" x H"	APPROX. SQ. FT. OF SIGN	SIGN BACKGROUND COLOR	SIGN BRACKETS & BRACE ANGLES WEIGHT (LBS)	BRACKET NO.	REMARKS
1	129+50.00 RT (B)	--	8x8x36"	E-2	1	--	12'-0"	--	11'-0"	8'-6"		B	W11-8	30" x 30"	6.3	YELLOW	----	----	FIRETRUCK SYMBOL
2	129+50.00 RT (B)	--	8x8x36"	E-1	1	--		--			6'-0"	B	W11-12P	36" x 30"	7.5	YELLOW	----	----	EMERGENCY SIGNAL AHEAD
3	132+22.85 LT (B)	--	8x8x36"	E-2	1	--	11'-0"	--	10'-0"	3'-6"		B	R3-9B	24" x 36"	5.0	WHITE	----	----	CENTER LANE LEFT TURN ONLY
4	132+22.85 LT (B)	--			1	--		--			6'-0"	B	R3-9CP	30" x 12"	2.5	WHITE	----	----	BEGIN PLAQUE
5	133+53.55 LT (B)	--	8x8x36"	E-1	1	--	10'-6"	--	9'-6"	3'-0"	7'-0"	B	R10-7	24" x 30"	5.0	WHITE	----	----	DO NOT BLOCK INTERSECTION
6	133+92.87 LT (B)	--	8x8x36"	E-2	1	--	10'-3"	--	9'-3"	3'-0"		B	I-5	24" x 24"	4.0	GREEN	----	----	AIRPORT GUIDE SIGN
7	133+92.87 LT (B)	--				--		--			6'-0"	B	M5-1	21" X 15"	2.2	GREEN	----	----	GUIDE ARROW PLAQUE (LEFT)
8	134+44.62 LT (B)	--	8x8x36"	E-1	1	--	10'-6"	--	9'-6"	3'-0"	7'-0"	B	R2-1	24" x 30"	5.0	WHITE	----	----	SPEED LIMIT
9	134+96.74 RT (B)	--	8x8x36"	E-2	1	--	11'-6"	--	10'-6"	9'-3"	7'-0"	B	D3-2	54" X 42"	15.8	GREEN	----	----	HIGHWAY GUIDE SIGN
10	137+13.10 LT (B)	--				--		--			7'-0"	B	R3-7	30" x 30"	6.3	WHITE	----	----	RIGHT LANE MUST TURN RIGHT (USE EX. POLE)
11	137+92.30 LT (B)	--				--		--				B	R14-1	24" x 30"	5.0	WHITE	----	----	TRUCK ROUTE (USE EX. POLE)
12	137+92.30 LT (B)	--				--		--			6'-0"	B	M6-6	21" X 15"	2.2	WHITE	----	----	DIRECTIONAL ARROW PLAQUE
13	138+21.79 RT (B)	--		E-2		--		--				B	R3-9B	24" x 36"	5.0	WHITE	----	----	CENTER LANE LEFT TURN ONLY (USE EX. POLE)
14	138+21.79 RT (B)	--				--		--			6'-0"	B	R3-9CP	30" x 12"	2.5	WHITE	----	----	BEGIN PLAQUE
15	138+30.97 RT (B)	--	8x8x36"	E-1	1	--	10'-6"	--	9'-6"	3'-0"	7'-0"	B	R2-1	24" x 30"	5.0	WHITE	----	----	SPEED LIMIT
16	138+56.07 LT (B)	--				--		--			7'-0"	B	R1-1	30" x 30"	6.3	RED	----	----	STOP SIGN (USE EX. POLE)
17	138+98.24 LT (B)	--				--		--				B	R3-9B	24" x 36"	6.0	WHITE	----	----	CENTER LANE LEFT TURN ONLY (USE EX. POLE)
18	138+98.24 LT (B)	--				--		--			6'-0"	B	R3-9DP	30" x 12"	2.5	WHITE	----	----	END PLAQUE
19	29+48.01 LT (F)	--				--		--			7'-0"	B	R1-1	30" x 30"	6.3	RED	----	----	STOP SIGN (USE EX. POLE)
20	29+69.38 RT (F)	--	8x8x36"	E-1	1	--	10'-6"	--	9'-6"	3'-6"	7'-0"	B	R1-1	30" x 30"	6.3	RED	----	----	STOP SIGN
21	34+30.26 LT (F)	--	8x8x36"	E-2	1	--	10'-9"	--	9'-9"	3'-0"		B	R14-1	24" x 30"	5.0	WHITE	----	----	TRUCK ROUTE
22	34+30.26 LT (F)	--				--		--			6'-0"	B	M6-4	21" X 15"	2.2	WHITE	----	----	DIRECTIONAL ARROW PLAQUE
23	34+38.37 RT (F)	--	8x8x36"	E-1	1	--	10'-6"	--	9'-6"	3'-0"	7'-0"	B	R2-1	24" x 30"	5.0	WHITE	----	----	SPEED LIMIT
24	34+42.33 LT (F)	--	8x8x36"	E-1	1	--	10'-6"	--	9'-6"	3'-6"	7'-0"	B	R3-7	30" x 30"	6.3	WHITE	----	----	RIGHT LANE MUST TURN RIGHT
25	34+79.68 LT (F)	--	8x8x36"	E-2	1	--	10'-3"	--	9'-3"	3'-0"		B	I-5	24" x 24"	4.0	GREEN	----	----	AIRPORT GUIDE SIGN
26	34+79.68 LT (F)	--				--		--			6'-0"	B	M5-1	21" X 15"	2.2	GREEN	----	----	GUIDE ARROW PLAQUE (RIGHT)
27	34+79.68 LT (F)	--	8x8x36"	E-2	1	--		--				B	RS-128	24" x 24"	4.0	GREEN	----	----	GOLF COURSE GUIDE SIGN (MOUNT W/ AIRPORT GUIDE)
28	34+79.68 LT (F)	--				--		--			6'-0"	B	M5-1	21" X 15"	2.2	GREEN	----	----	GUIDE ARROW PLAQUE (RIGHT)
29	35+51.67 RT (F)	--				--		--				B	R3-9B	24" x 36"	5.0	WHITE	----	----	CENTER LANE LEFT TURN ONLY (USE EX. POLE)
30	35+51.67 RT (F)	--				--		--			6'-0"	B	R3-9CP	30" x 12"	2.5	WHITE	----	----	BEGIN PLAQUE
31	35+72.46 LT (F)	--				--		--				B	R3-9B	24" x 36"	6.0	WHITE	----	----	CENTER LANE LEFT TURN ONLY (USE EX. POLE)
32	35+72.46 LT (F)	--				--		--			6'-0"	B	R3-9DP	30" x 12"	2.5	WHITE	----	----	END PLAQUE
															139.8				

NOTE: MUTCD SIGN NUMBERS ARE BEING SPECIFIED.
ITD SIGN NUMBERS ARE NOT BEING USED.

COLUMN C, DISTANCE FROM SHOULDER TO
CENTER LINE OF FIRST POST
COLUMN E, BOTTOM OF MAJOR SIGN ABOVE
FINISHED SHOULDER

POST LENGTHS SHOWN ARE APPROXIMATE. FINAL VALUES
SHALL BE DETERMINED IN THE FIELD PRIOR TO FABRICATION

REVISIONS		DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	IDAHO TRANSPORTATION DEPARTMENT	PROJECT NO.	SIGNING ERECTION SPECIFICATIONS	English	
DATE	DESCRIPTION	WER						
	DESIGN CHECKED	GEH						
	DETAILED	WER	CADD FILE NAME L18-051_30.dwg					
	DRAWING CHECKED	PAO	DRAWING DATE: FEBRUARY, 2020					
				TD&H ENGINEERING	TR036	BRYDEN AVENUE & 5TH STREET INTERSECTION	COUNTY NEZ PERCE	
							KEY NUMBER XXXXX	
							SHEET 30 OF 73	



630-020A PAVEMENT MARKING (WATERBORN)
75 S.F.
STA. 132+00.00 - 135+00.00
WORD STA. 134+12.90 RT
WORD STA. 134+32.50 LT
MARKING STA. 134+63.09 LT
MARKING STA. 134+83.10 RT

630-025A PAVEMENT MARKING (WATERBORN)
1065 L.F.
STA. 132+00.00 - 135+00.00



R3-9B
24" X 36"



R2-1
24" X 30"



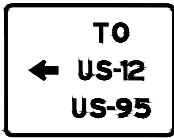
R10-7
24" X 30"



I-5
24" X 24"



M5-1
21" X 15"



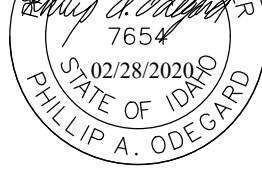
D3-2
54" X 42"

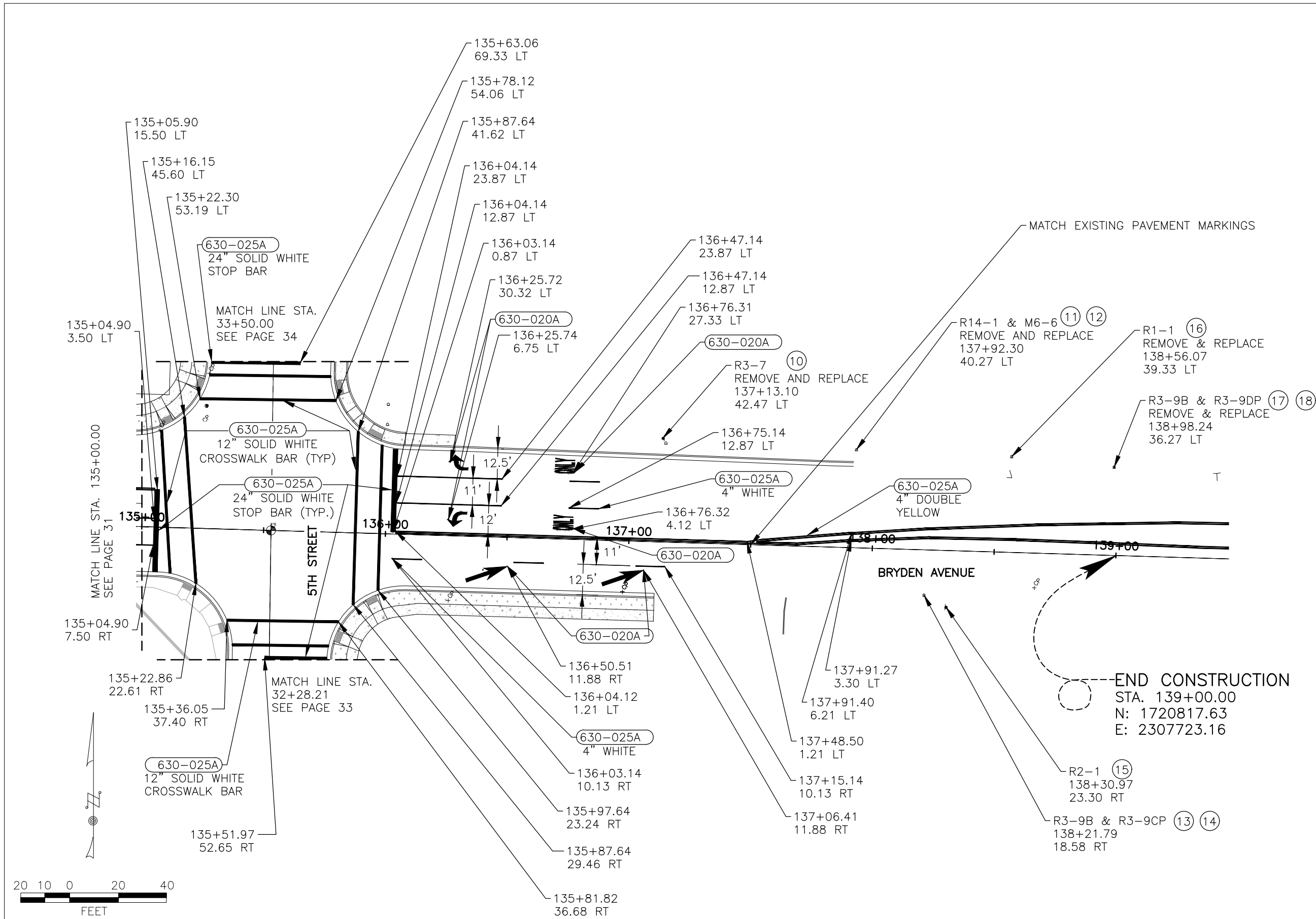


W11-8
30" X 30"

W11-12P
36" X 30"

NOTES:
1. MATCH EXISTING PAINT MARKINGS
2. SALVAGE EXISTING SIGNS TO CITY OF LEWISTON
3. ITEMS ASSOCIATED WITH THE PROPOSED EMERGENCY SIGNAL ARE DEPENDANT ON STATION CONSTRUCTION.

REVISIONS		DESIGNED:	IDaho TRANSPORTATION DEPARTMENT	PROJECT NO.	STRIPING & SIGNING (1 OF 4)	English				
DESCRIPTION		DESIGN CHECKED:						TR036	BRYDEN AVENUE & 5TH STREET INTERSECTION LEWISTON, IDAHO	COUNTY
		DETAILED:								NEZ PERCE
		DRAWING APPROVED:								KEY NUMBER
			CADD FILE NAME L18-051_31.dwg		XXXXXX					
			DRAWING DATE: FEBRUARY, 2020	TD&H ENGINEERING		SHEET	31 OF 73			



630-020A PAVEMENT MARKING (WATERBORN)
205 S.F.
STA. 135+00.00 - 139+00.00
MARKING STA. 136+25.72 LT
MARKING STA. 136+50.51 RT
WORD STA. 136+76.31 LT
WORD STA. 136+76.32 LT
MARKING STA. 137+06.41 RT

630-025A PAVEMENT MARKING (WATERBORN)
1180 L.F.
STA. 135+00.00 - 139+00.00

- R14-1
24" X 18"
- R3-7
30" X 30"
- R2-1
24" X 30"
- R1-1
30" X 30"
- R3-9B
24" X 36"
- R3-9CP
30" X 12"
- R3-9DP
30" X 12"

- NOTES:
- MATCH EXISTING PAINT MARKINGS.
 - SALVAGE EXISTING SIGNS TO CITY OF LEWISTON.

REVISIONS
DESCRIPTION

DESIGNED:	WER
DESIGN CHECKED:	GEH
DETAILED:	WER
DRAWING APPROVED:	PAO

SCALES SHOWN
ARE FOR 11" X 17"
PRINTS ONLY

CADD FILE NAME
L18-051_32.dwg

DRAWING DATE:
FEBRUARY, 2020

IDAHO
TRANSPORTATION
DEPARTMENT

TD&H ENGINEERING

PROJECT NO.
TR036

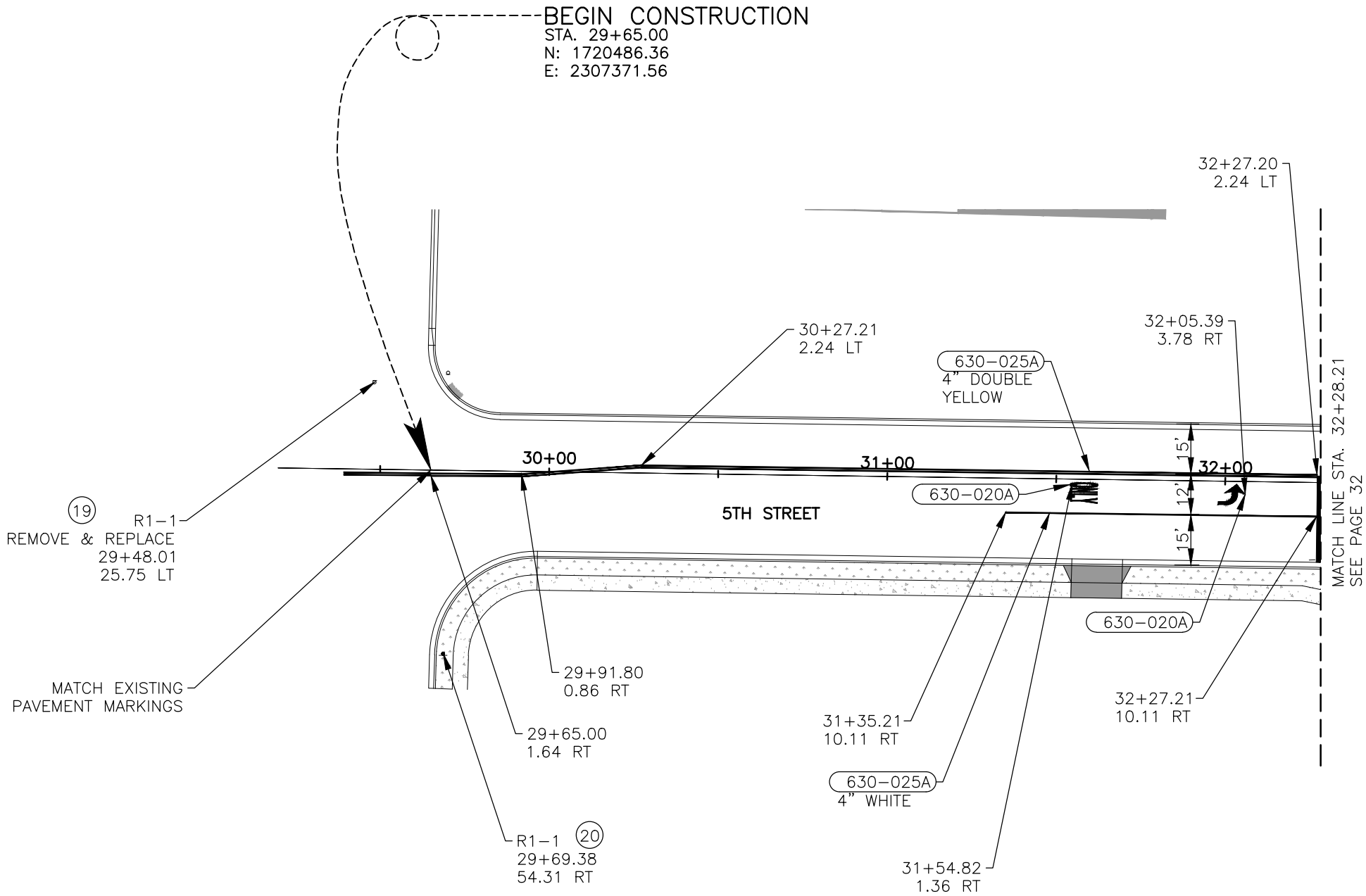
STRIPING & SIGNING (2 OF 4)
BRYDEN AVENUE & 5TH STREET INTERSECTION LEWISTON, IDAHO

English
COUNTY NEZ PERCE
KEY NUMBER XXXXX
SHEET 32 OF 73

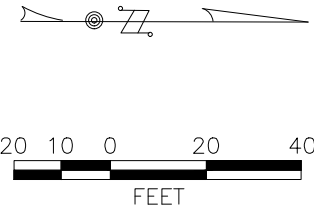


630-020A) PAVEMENT MARKING
(WATERBORN)
40 S.F. STA. 29+65.00 - 32+28.21
WORD STA. 31+54.82 RT
MARKING STA. 32+05.39

630-025A) PAVEMENT MARKING
(WATERBORN)
620 L.F. STA. 29+65.00 - 32+28.21



- NOTES:
1. MATCH EXISTING PAINT MARKINGS.
 2. SALVAGE EXISTING SIGNS TO CITY OF LEWISTON.



REVISIONS	DESIGNED:
DESCRIPTION	DESIGN CHECKED:
	GEH
	WER
	PAQ

WER	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
GEH	CADD FILE NAME L18-051_33.dwg
WER	DRAWING DATE: FEBRUARY, 2020
PAQ	

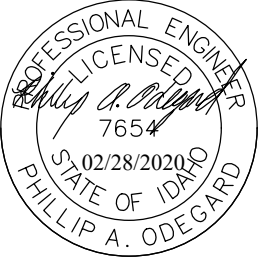
IDAHO
TRANSPORTATION
DEPARTMENT

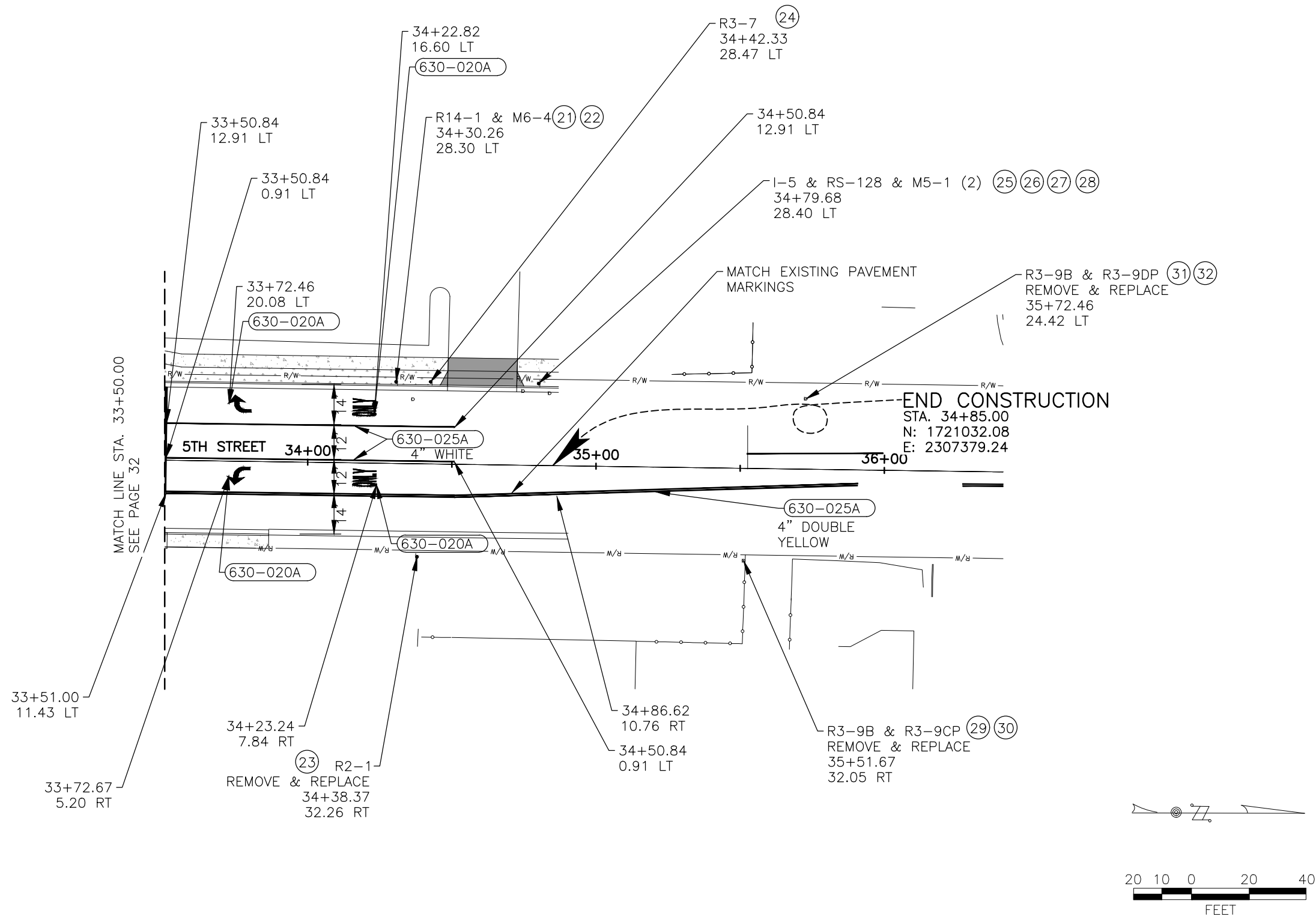
TD&H ENGINEERING

PROJECT NO.
TR036

STRIPING & SIGNING (3 OF 4)
BRYDEN AVENUE & 5TH STREET INTERSECTION LEWISTON, IDAHO

English
COUNTY NEZ PERCE
KEY NUMBER XXXXX
SHEET 33 OF 73





630-020A) PAVEMENT MARKING
(WATERBORN)
75 S.F. STA. 33+50.00 TO 34+85.00
MARKING STA. 33+72.46 LT
MARKING STA. 33+72.67 RT
WORD STA. 34+22.82 LT
WORD STA. 34+23.24 RT

630-025A) PAVEMENT MARKING
(WATERBORN)
680 L.F. STA. 33+50.00 TO 34+85.00



I-5
24" X 24"



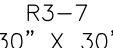
M5-1
21" X 15"



RIGHT LANE
MUST
TURN RIGHT



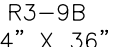
RS-128
24" X 24"



R3-7
30" X 30"



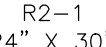
CENTER
LANE
ONLY



R3-9B
24" X 36"



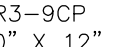
SPEED
LIMIT
35



R2-1
24" X 30"



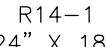
BEGIN



R3-9CP
30" X 12"



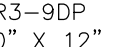
TRUCK
ROUTE



R14-1
24" X 18"



END



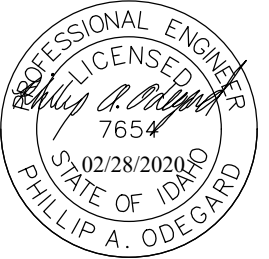
R3-9DP
30" X 12"

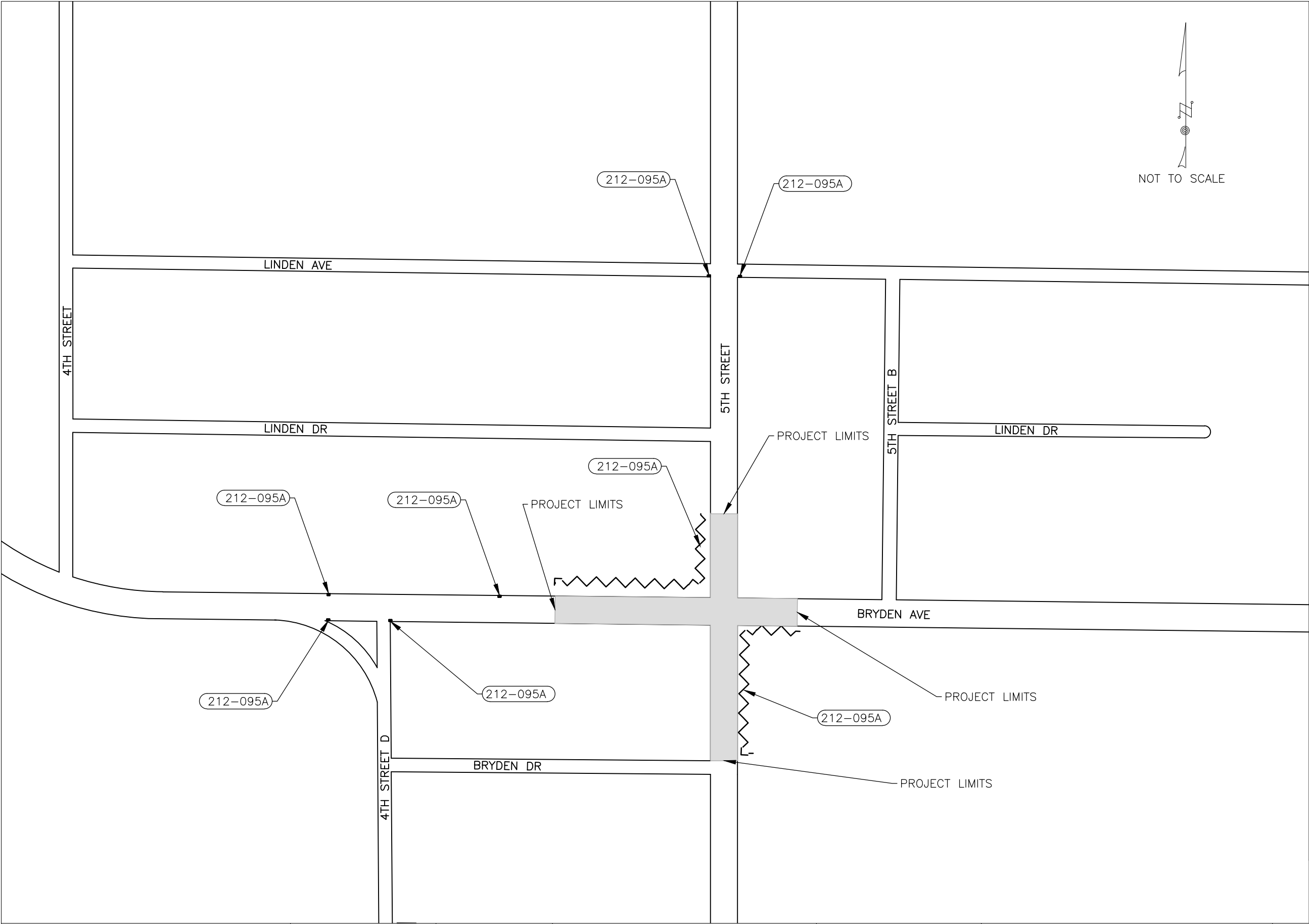


M6-4
21" X 15"

- NOTES:
1. MATCH EXISTING PAINT MARKINGS.
 2. SALVAGE EXISTING SIGNS TO CITY OF LEWISTON.

REVISIONS	DESIGNED:	SCALES SHOWN	IDAHO	PROJECT NO.	STRIPING & SIGNING (4 OF 4)	English
DESCRIPTION	WER	ARE FOR 11" X 17"	TRANSPORTATION	TR036	BRYDEN AVENUE & 5TH	COUNTY NEZ PERCE
	GEH	PRINTS ONLY	DEPARTMENT		STREET INTERSECTION	KEY NUMBER XXXXX
	WER	CADD FILE NAME			LEWISTON, IDAHO	SHEET 34 OF 73
	PAO	L18-051_34.dwg	TD&H ENGINEERING			
		DRAWING DATE:				
		FEBRUARY, 2020				





- 212-020A SILT FENCE
825 LF
- 212-095A INLET PROTECTION
6 EA

NOTES:

1. DUST CONTROL & SWEEPING SHALL BE INCIDENTAL

REVISIONS	
DATE	DESCRIPTION

DESIGNED:	WER
DESIGN CHECKED:	GEH
DETAILED:	WER
DRAWING APPROVED:	PAO

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME L18-051_35.dwg
DRAWING DATE: FEBRUARY, 2020

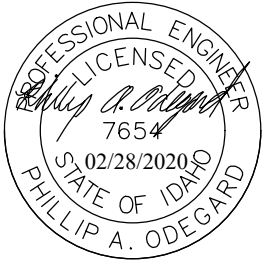
IDAHO
TRANSPORTATION
DEPARTMENT

TD&H ENGINEERING

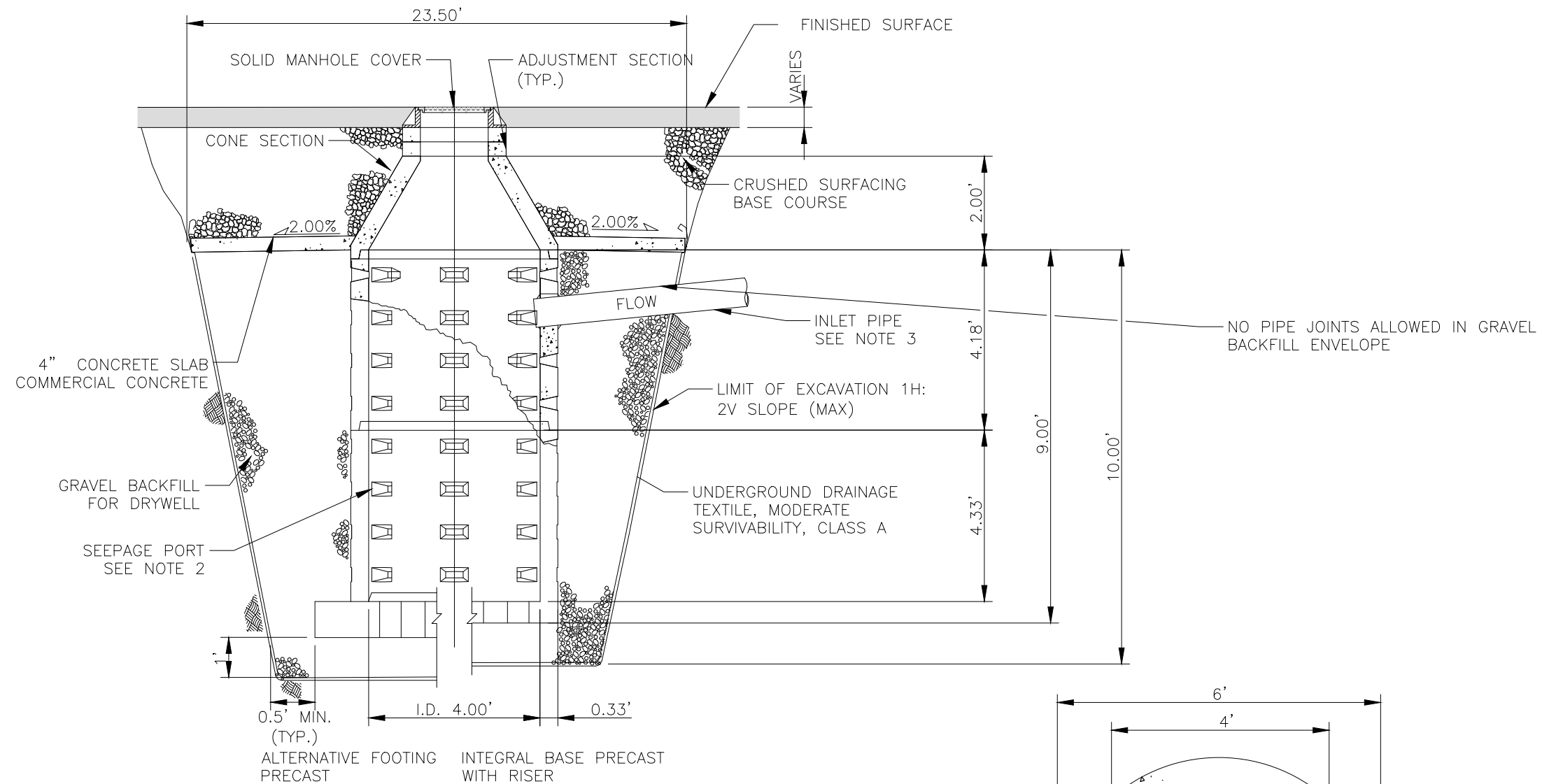
PROJECT NO.
TR036

INLET PROTECTION PLAN
BRYDEN AVENUE & 5TH STREET INTERSECTION LEWISTON, IDAHO

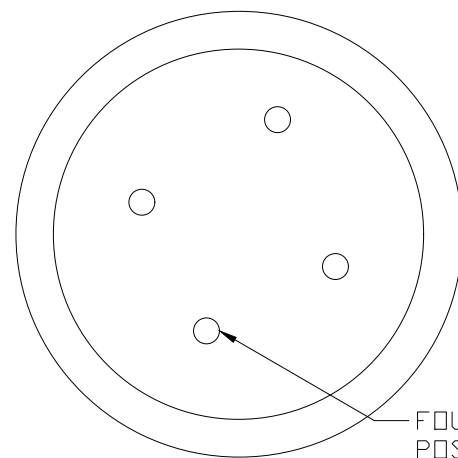
English
COUNTY NEZ PERCE
KEY NUMBER XXXXX
SHEET 35 OF 73



DRYWELL DETAIL

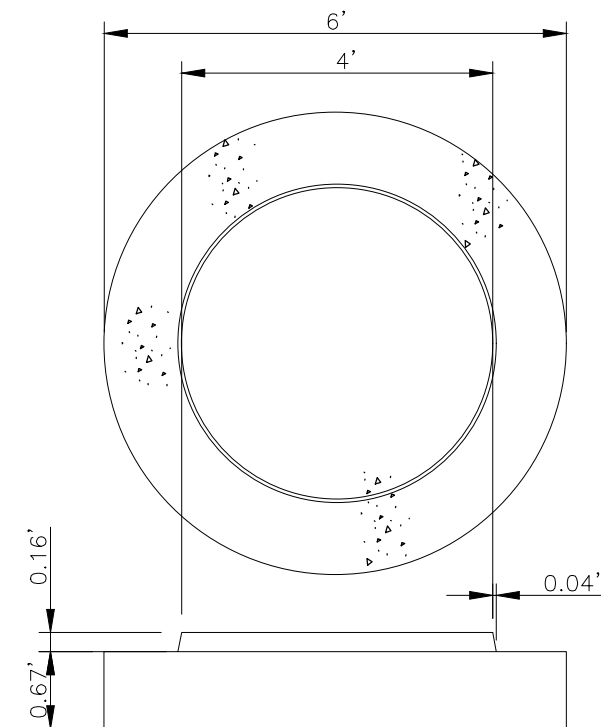


CUTAWAY ELEVATION VIEW



INTEGRAL BASE DETAIL

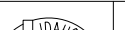
— FOUR 6" DIAM. DRAIN HOLES
POSITIONED NOT TO INTERFERE
WITH REINFORCING BARS

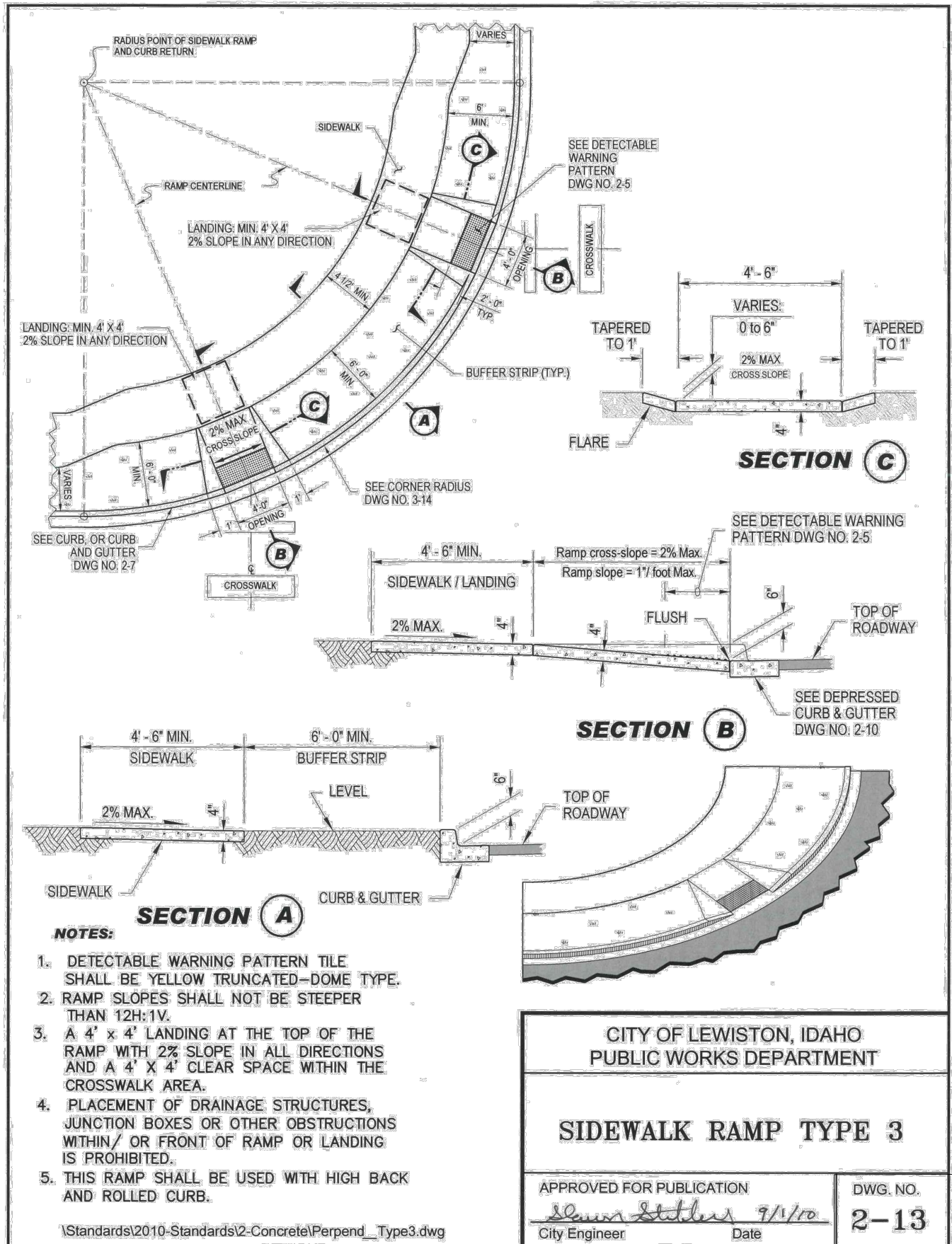
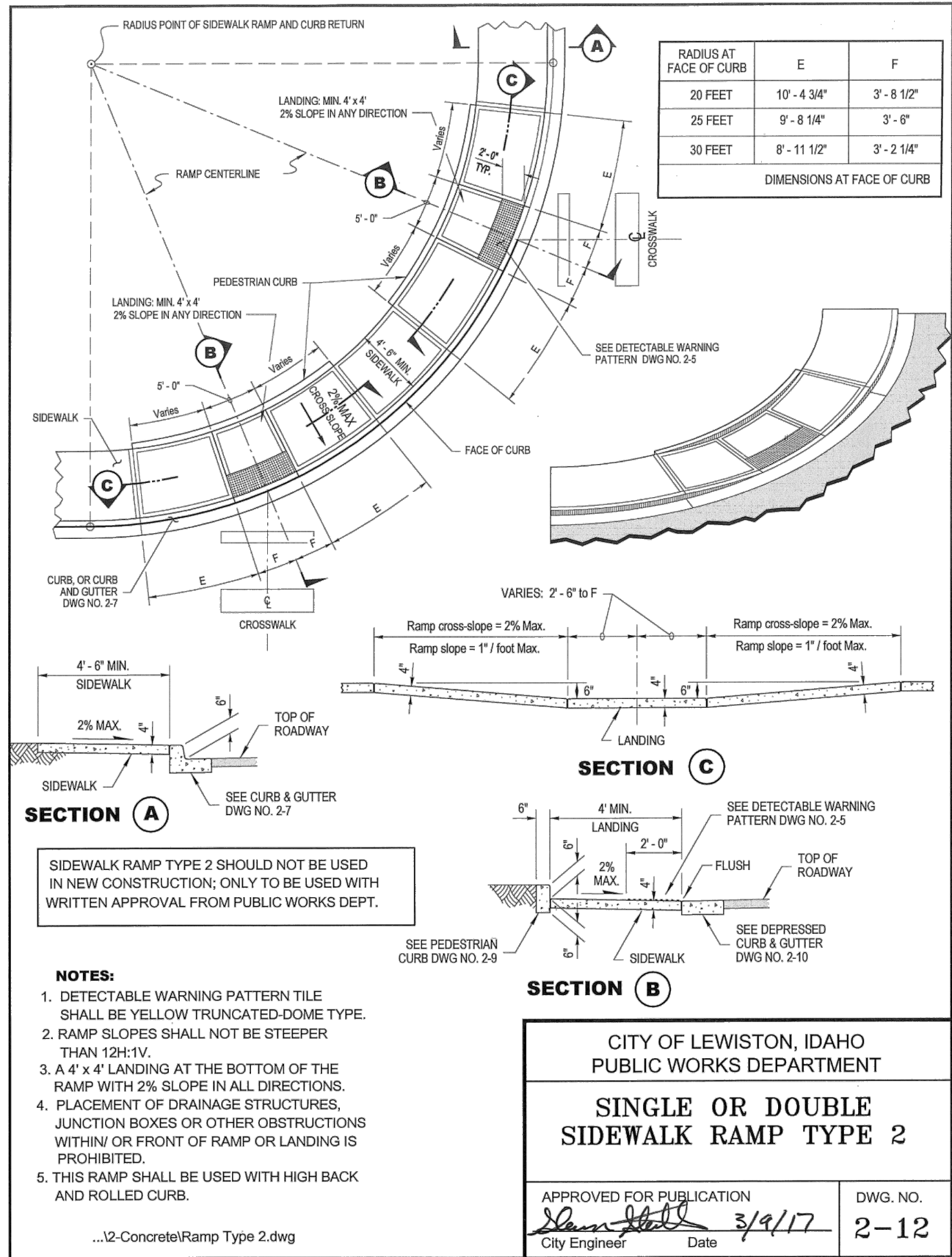


ALTERNATIVE PRECAST FOOTING DETAIL

- NOTES:

1. PRECAST CONCRETE CONE SECTIONS MAY BE ECCENTRIC OR CONCENTRIC
2. SEEPAGE PORT ORIENTATION VARIES AMON MANUFACTURES
3. CONNECT INLET PIPE TO STRUCTURE USING PRECAS HOLE OR CORE DRILLED HOLE
4. FOR DEPTHS OVER 16.16' USE 72" X 8" ALTERNATIVE PRECAST FOOTING
5. WHEN NECESSARY, KNOCKOUTS ON PRECAST CONE, DRYWELL BASE, AND RISER SECTIONS SHALL HAVE A WALL THICKNESS OF $1\frac{1}{2}$ " MIN. AND 2" MIN.

REVISIONS		DESIGNED:	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY IDAHO TRANSPORTATION DEPARTMENT 	PROJECT NO.	DRYWELL DETAIL	English COUNTY NEZ PERCE KEY NUMBER XXXXXX SHEET 36 OF 73		
DATE	DESCRIPTION	WER		TR036	BRYDEN AVENUE & 5TH STREET INTERSECTION LEWISTON, IDAHO			
	DESIGN CHECKED:	GEH						
	DETAILED:	WER						CADD FILE NAME L18-051_36.dwg
	DRAWING APPROVED:	BAO						DRAWING DATE: FEBRUARY, 2020



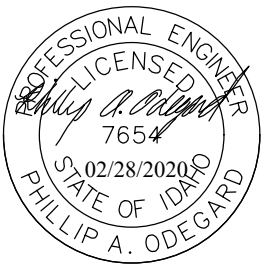
REVISIONS		DESIGNED:
DATE	DESCRIPTION	
		DESIGN CHECKED: WER
		GEH
		DETAILED: WER
		DRAWING APPROVED: PAO
		SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
		CADD FILE NAME L18-051_37.dwg
		DRAWING DATE: FEBRUARY, 2020

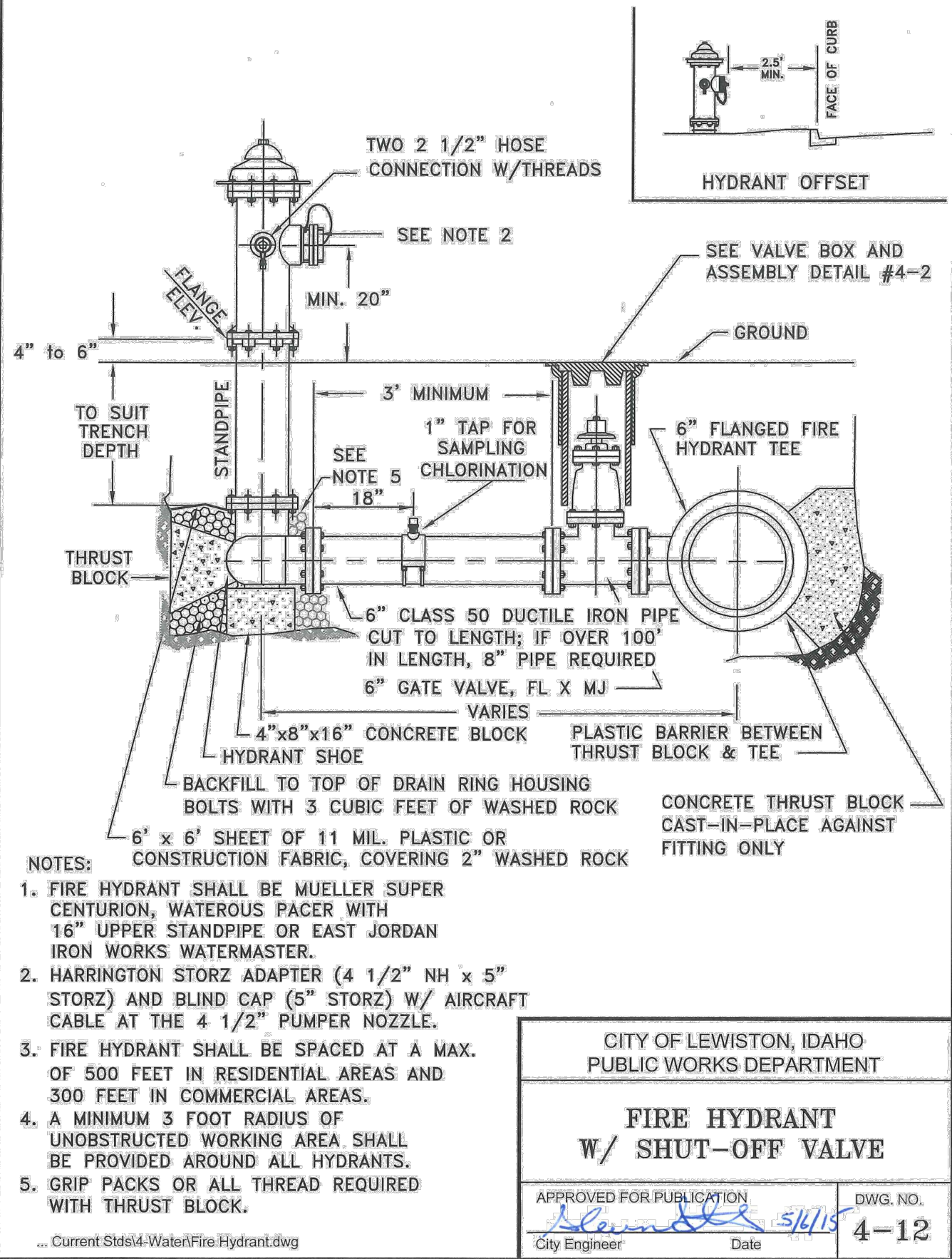
IDAHO
TRANSPORTATION
DEPARTMENT

TD&H ENGINEERING

IDAHO
TRANSPORTATION
DEPARTMENT

PROJECT NO.	STANDARD DRAWING	English
TR036	BRYDEN AVENUE & 5TH STREET INTERSECTION LEWISTON, IDAHO	COUNTY NEZ PERCE
		KEY NUMBER XXXXX
		SHEET 37 OF 73





REVISIONS	
DATE	DESCRIPTION

DESIGNED:	WER
DESIGN CHECKED:	GEH
DETAILED:	WER
DRAWING APPROVED:	PAO

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME L18-051_38.dwg
DRAWING DATE: FEBRUARY, 2020

IDAHO
TRANSPORTATION
DEPARTMENT

TD&H ENGINEERING

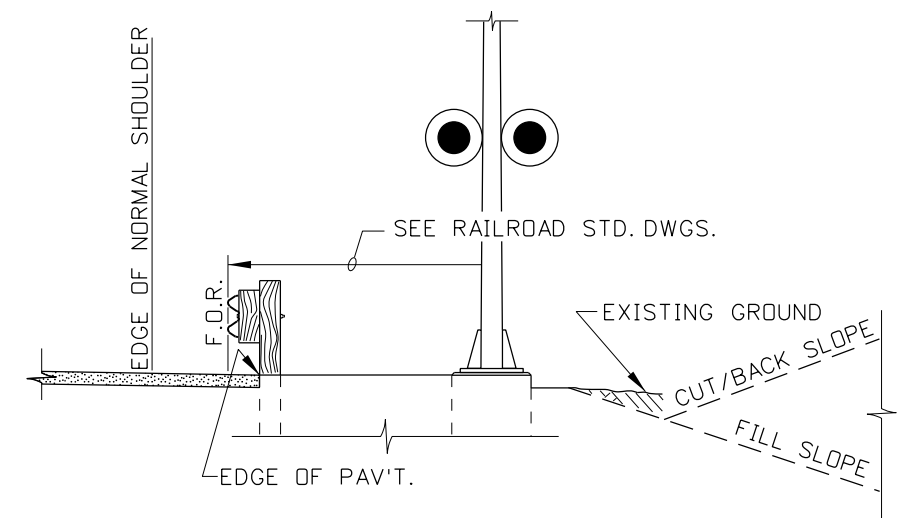
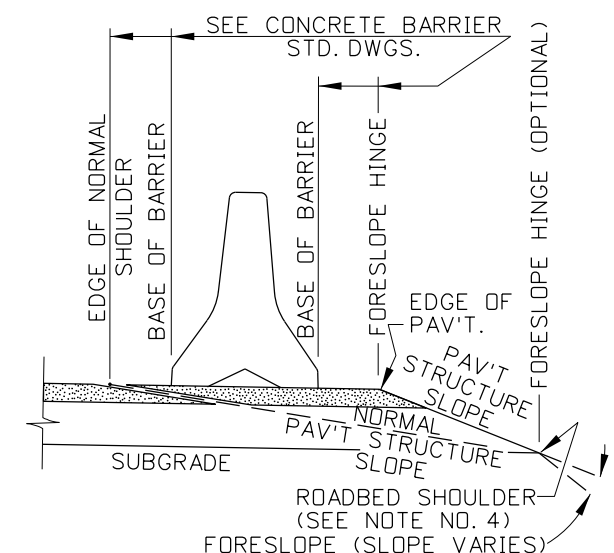
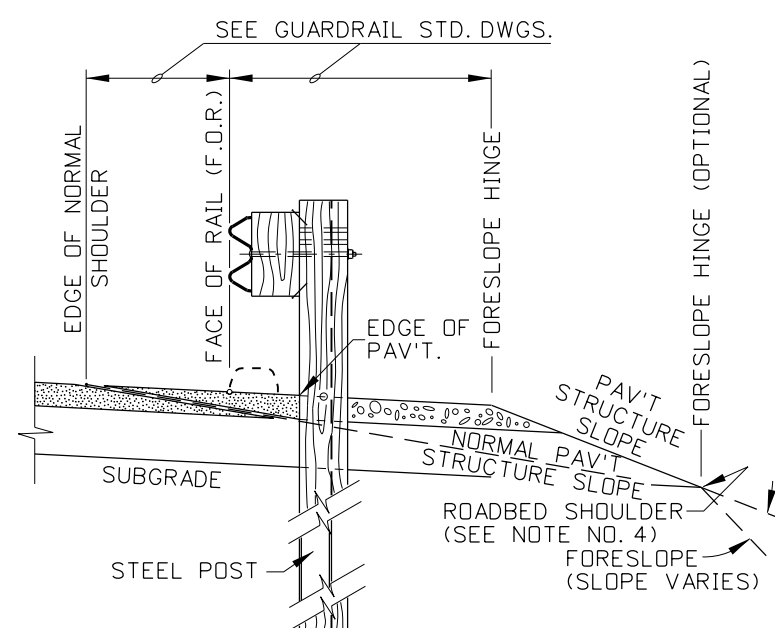
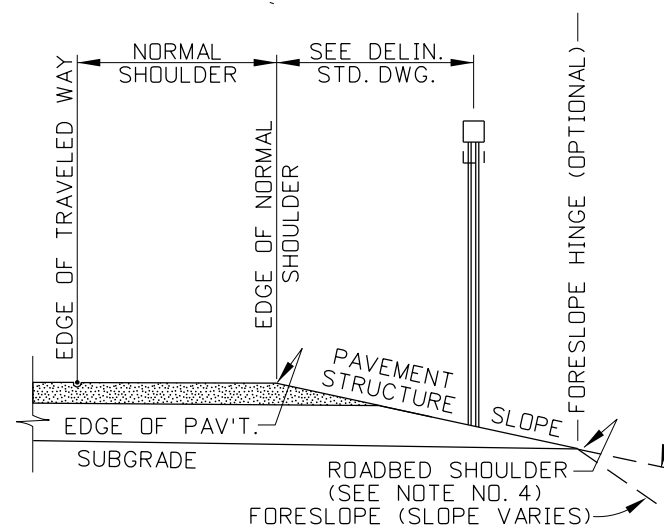
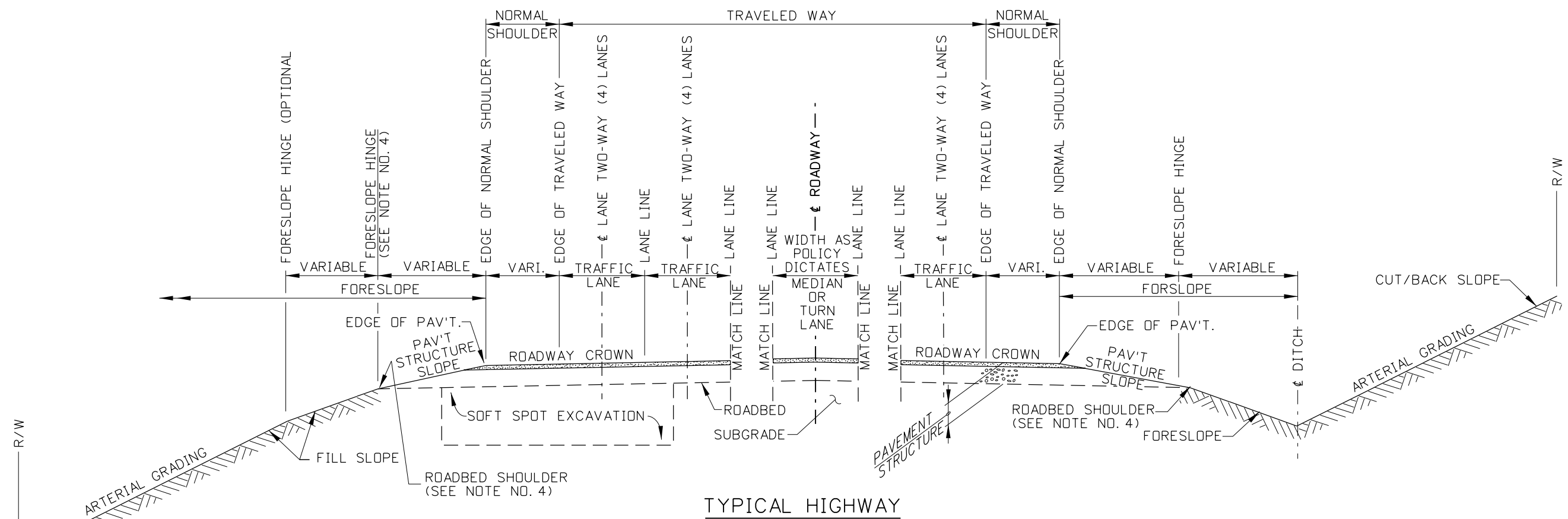


PROJECT NO.
TR036

STANDARD DRAWING
BRYDEN AVENUE & 5TH STREET INTERSECTION LEWISTON, IDAHO

English
COUNTY NEZ PERCE
KEY NUMBER XXXXX
SHEET 38 OF 73





REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
NO.	DATE	BY	DESCRIPTION	DESIGN CHECKED	
				DETAILED	CADD FILE NAME
				DRAWING CHECKED	DRAWING DATE:

DESIGNED

DESIGN CHECKED

DETAILED

DRAWING CHECKED

SCALES SHOWN
ARE FOR 11" X 17"
PRINTS ONLY

CADD	FILE	NAME
------	------	------

DRAWING DATE:

IDAHO
TRANSPORTATION
DEPARTMENT



PROJECT NO.

STANDARD DETAIL A-9

ITD ROADWAY NOMENCLATURE LOCATIONS & EXAMPLES

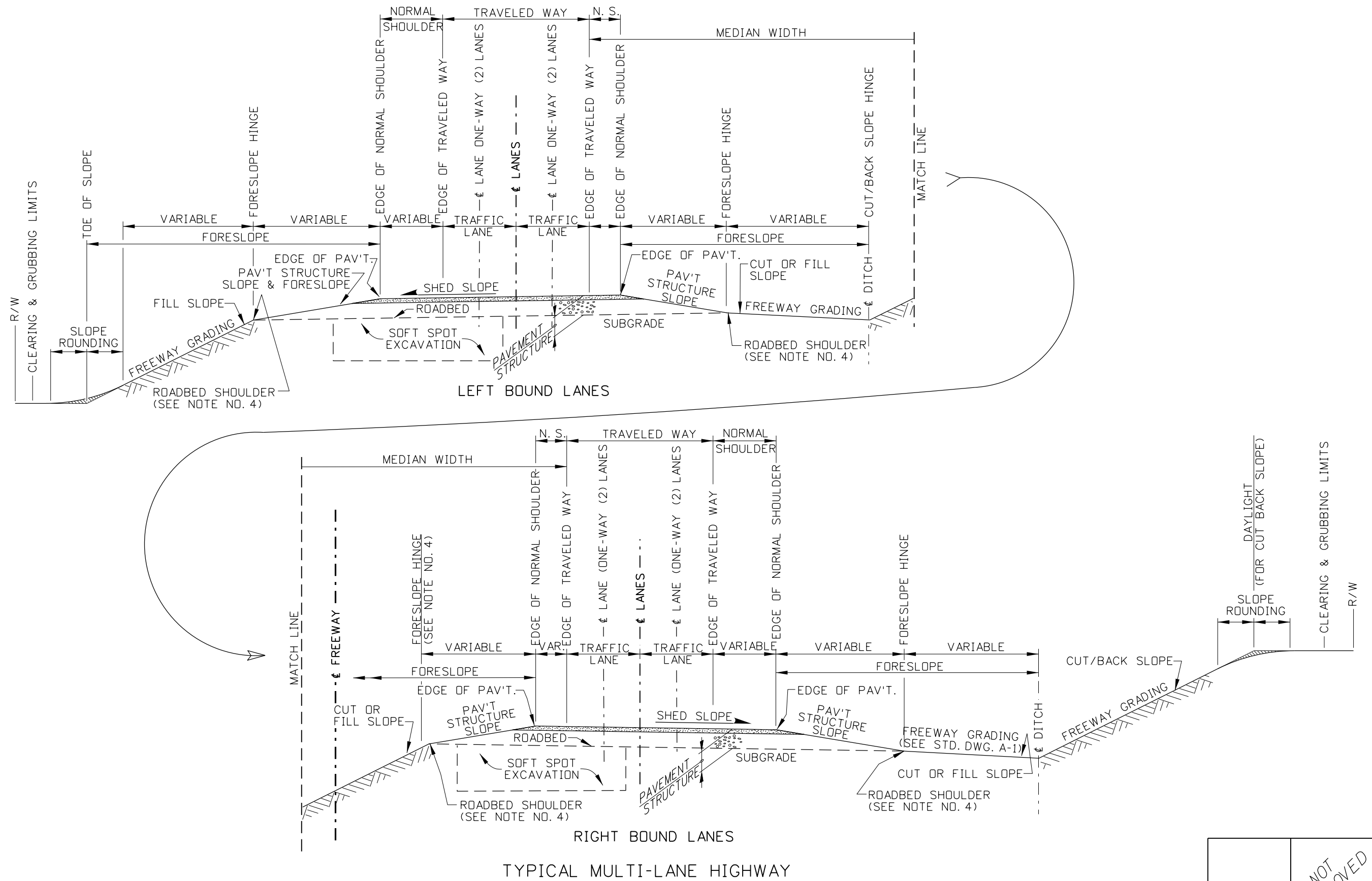
English

COUNTY

KEY NUMBER

SHEET 1 OF 4

NOT
APPROVED
PRELIMINARY
FOR
CONSTRUCTION



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED
DESIGN CHECKED
DETAILED
DRAWING CHECKED

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME
DRAWING DATE:

**IDAHO
TRANSPORTATION
DEPARTMENT**

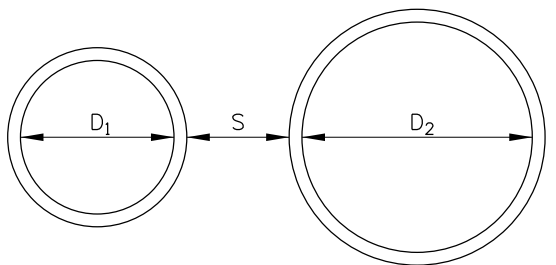
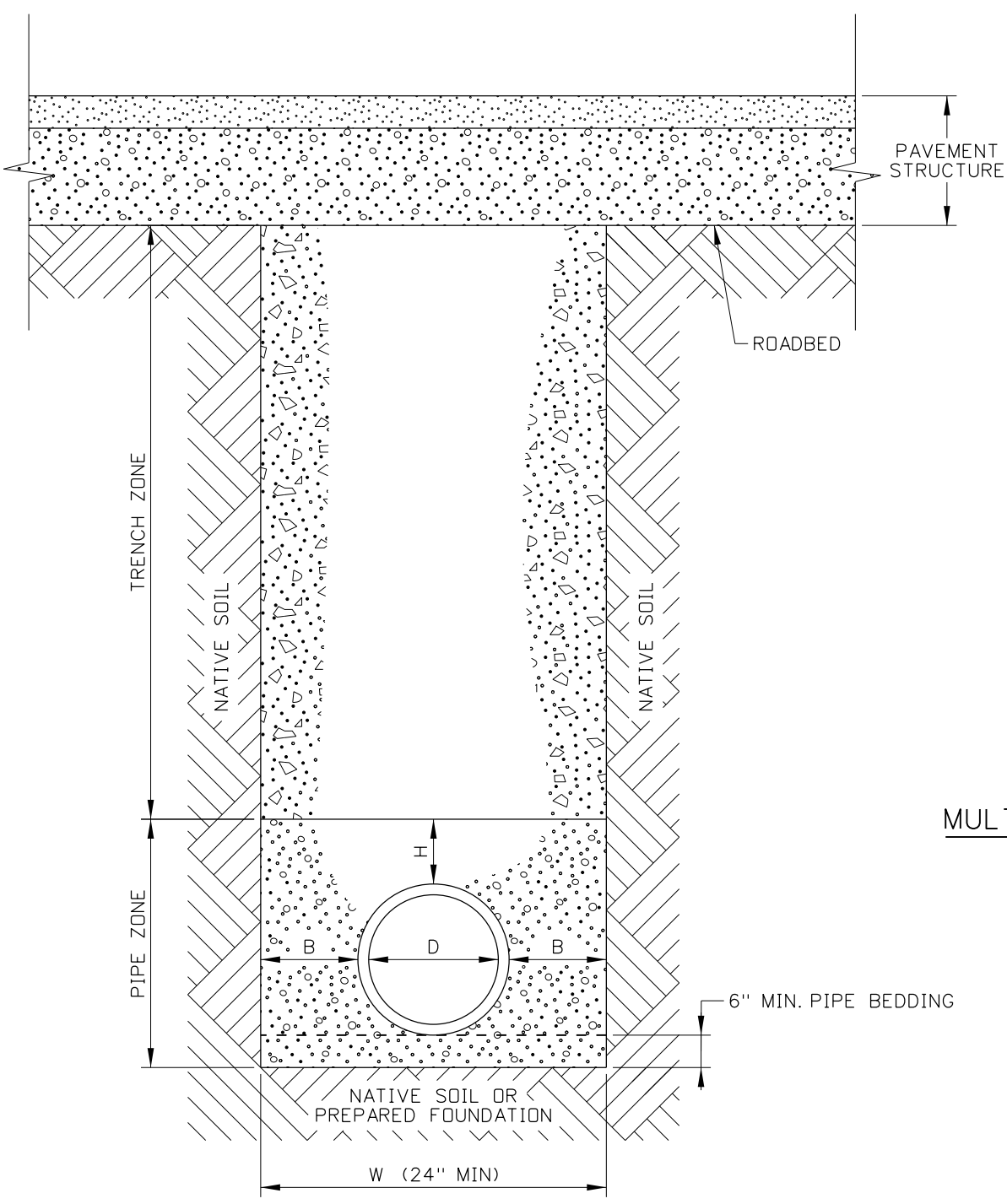


PROJECT NO.

STANDARD DETAIL A-9
ITD ROADWAY NOMENCLATURE LOCATIONS & EXAMPLES

English
COUNTY
KEY NUMBER
SHEET 3 OF 4

NOT
APPROVED
PRELIMINARY
FOR
CONSTRUCTION



MULTIPLE PIPE INSTALLATION DETAIL

MATERIALS AND COMPACTION TABLE				
PIPE LOCATION	PIPE ZONE		TRENCH ZONE	
	MATERIAL REQUIREMENT	COMPACTION REQUIREMENT	MATERIAL REQUIREMENT	COMPACTION REQUIREMENT
INSIDE ROADWAY PRISM	¾" AGGREGATE (703.04) (SEE NOTE NO. 1)	6" MAX. LOOSE LIFTS, COMPACTED TO 95% OF AASHTO T-99 OR IT-74 (SEE NOTE NO. 3)	¾" AGGREGATE (703.04) (SEE NOTE NO. 1)	CLASS A COMPACTION. (SEE NOTE NO. 2)
OUTSIDE ROADWAY PRISM	¾" AGGREGATE (703.04) (SEE NOTE NO. 1)	6" MAX. LOOSE LIFTS, COMPACTED TO 95% OF AASHTO T-99 OR IT-74 (SEE NOTE NO. 3)	GRANULAR BORROW OR NATIVE MATERIALS WITH MAXIMUM SIZE OF 6" AND FREE FROM WOOD WASTE OR DELETERIOUS MATERIALS. (SEE NOTE NO. 1)	CLASS D COMPACTION

DIMENSION TABLE (SEE NOTE NOS. 4 AND 5)			
D (INCHES)	B (INCHES)	H (INCHES)	S (INCHES)
≤ 6	10	8	24
7 TO 15	12	10	24
16 TO 30	18	12	24
> 30	24	14	GREATER OF 24 OR D/2

NOTES

1. CONTROLLED DENSITY FILL (FLOWABLE FILL) MATERIAL OR PEA GRAVEL CAN BE USED IF APPROVED BY THE ENGINEER.
2. CLASS D COMPACTION IN MEDIAN AND OUTSIDE 2H:1V SLOPE.
3. LOOSE LIFT THICKNESS DIRECTLY ON TOP OF PIPE MAY BE INCREASED TO PREVENT DAMAGE TO PIPE DURING COMPACTION. CLASS D COMPACTION MAY BE APPLIED OUTSIDE THE ROADWAY PRISM IF APPROVED BY THE ENGINEER.
4. WHEN TWO DIFFERENT DIAMETER PIPES ARE INSTALLED, USE THE LARGER D DIMENSION TO DETERMINE THE S DIMENSION.
5. FOR PIPE DIAMETERS GREATER THAN 36 INCHES, THE B DIMENSION SHOULD BE EQUAL TO THE PIPE DIAMETER WHEN THE PIPE INSTALLED DURING EMBANKMENT CONSTRUCTION.
6. DRAWINGS NOT TO SCALE.

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: d12_0514.dgn

DRAWING DATE: May, 2014

IDAHO
TRANSPORTATION
DEPARTMENT



BOISE IDAHO

ORIGINAL SIGNED BY: CARL D. MAIN
DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING

PIPE & CONDUIT
INSTALLATION

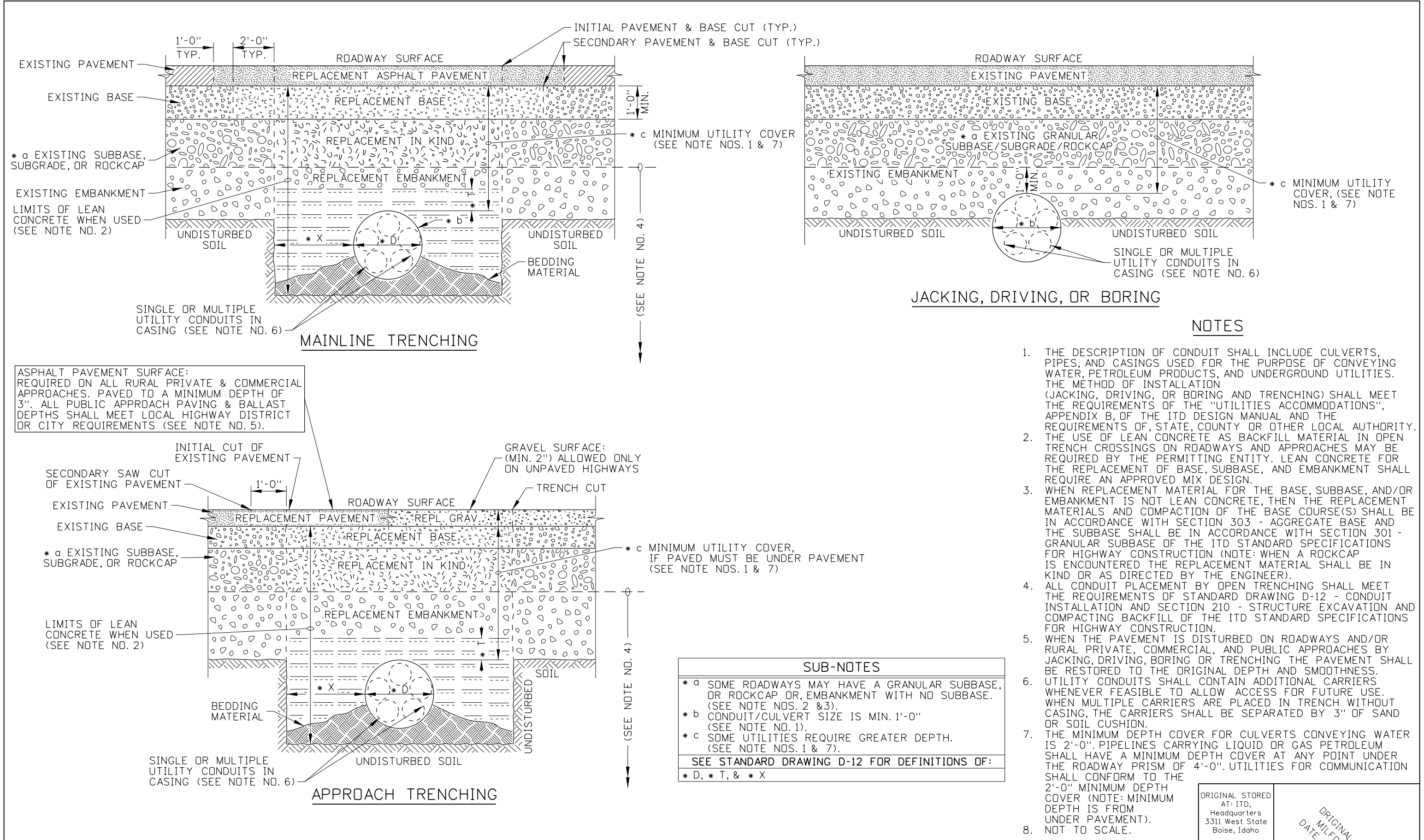
ORIGINAL STORED AT: ITD, Headquarters 3311 West State Boise, Idaho

English

STANDARD DRAWING NO.
D-12

SHEET 1 OF 1

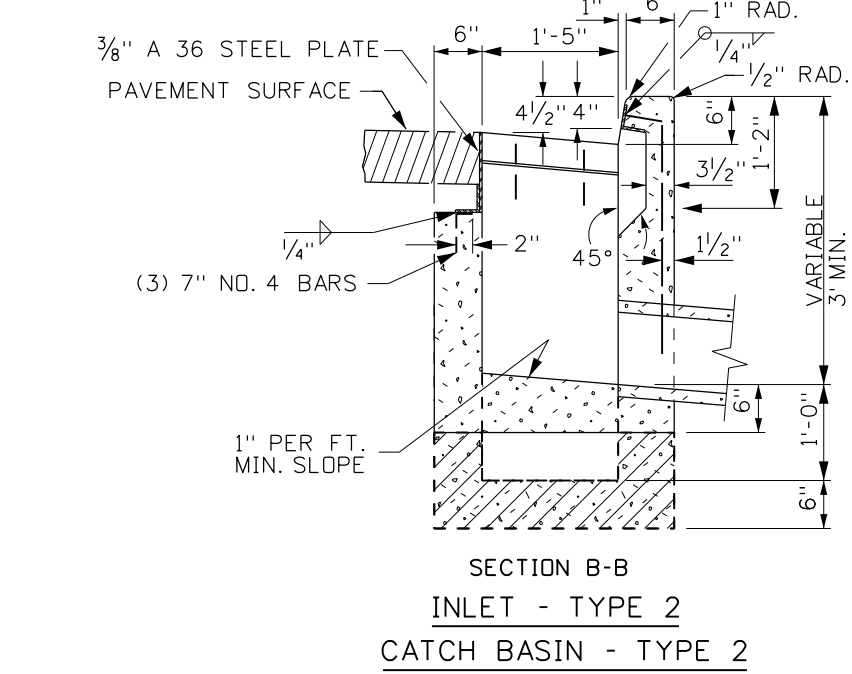
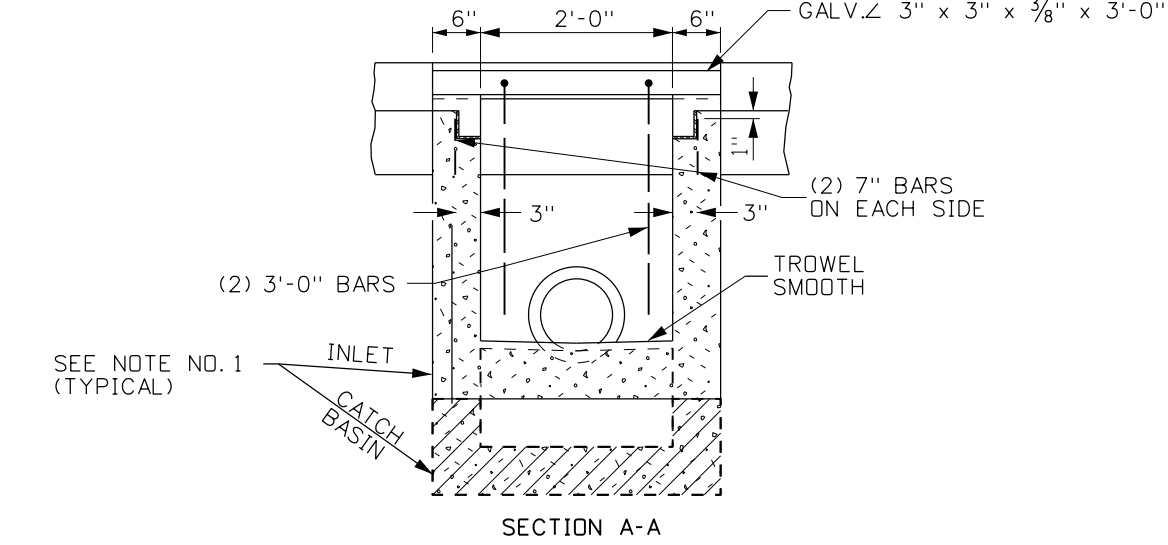
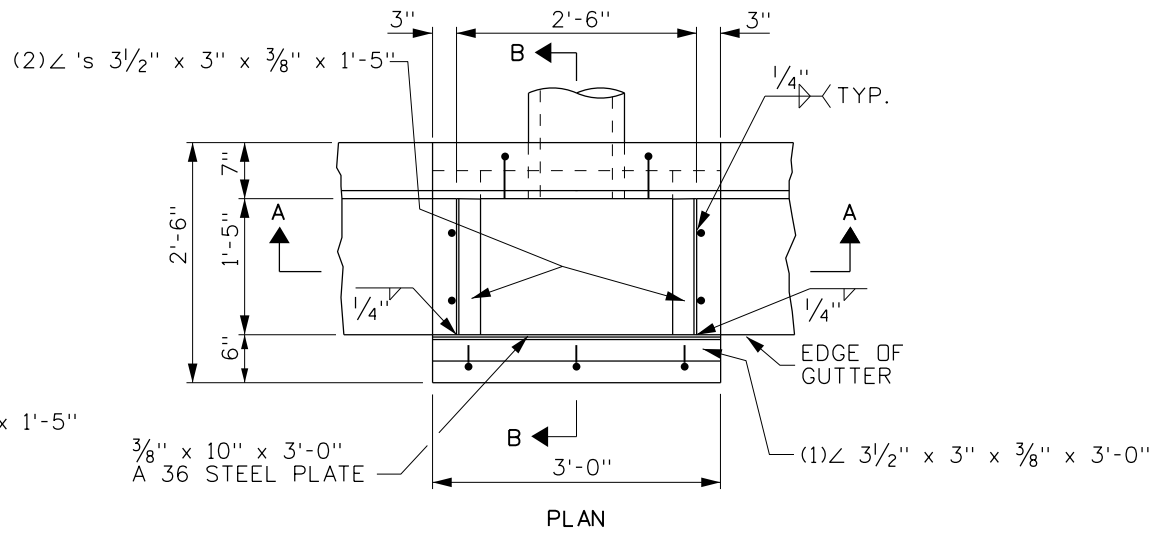
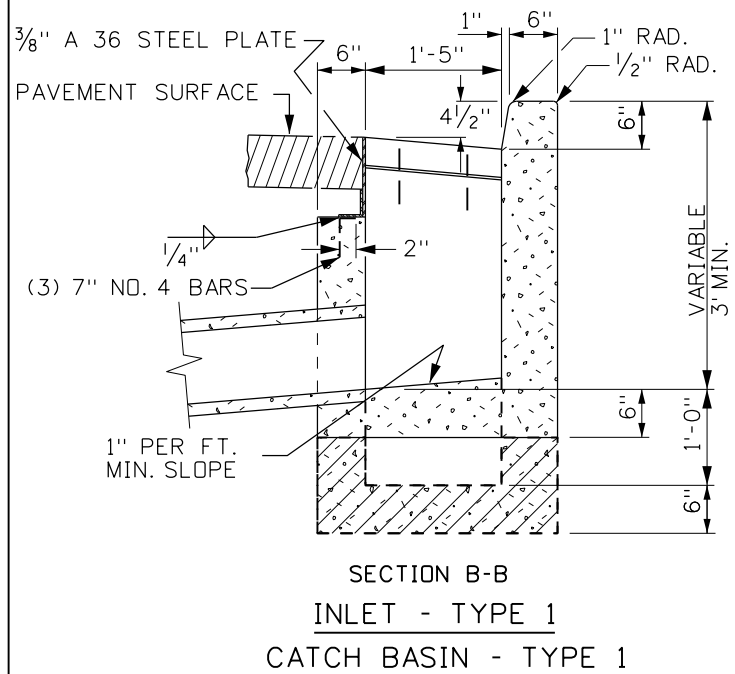
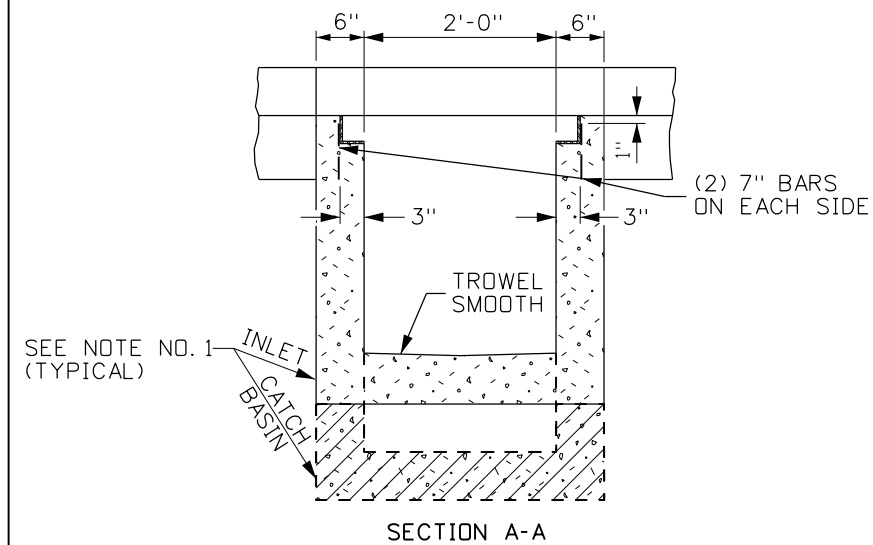
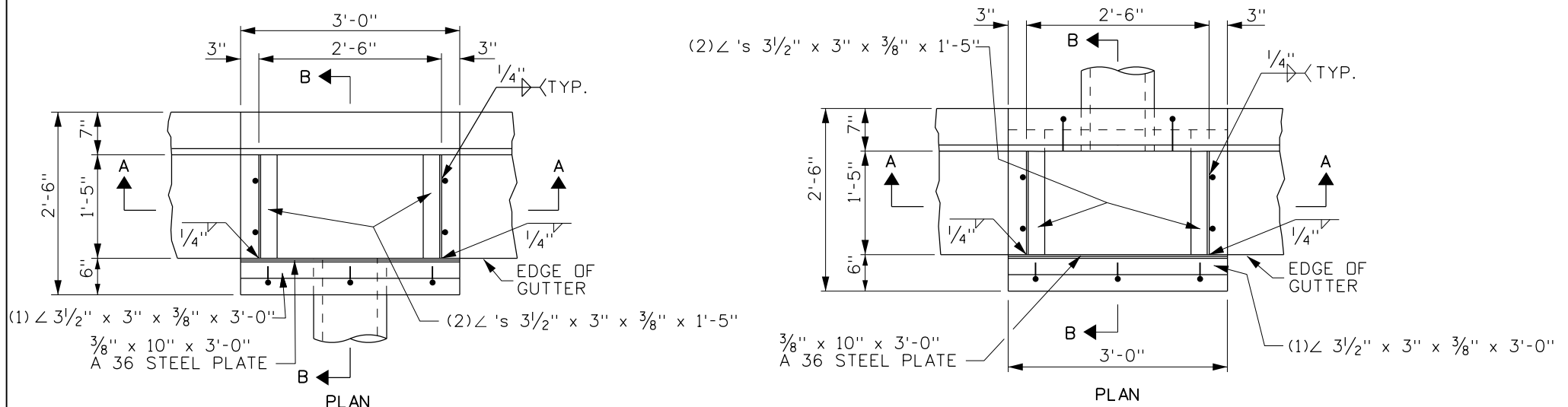
ORIGINAL SIGNED BY: TRI BUJ
DATE ORIGINAL SIGNED: MAY 8, 2014



REVISIONS									SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	IDAHO TRANSPORTATION DEPARTMENT		STANDARD DRAWING		<i>English</i>	
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY				CONDUIT INSTALLATION FOR EXISTING ROADWAYS & APPROACHES	STANDARD DRAWING NO.	SHEET 1 OF 1	
1	11-01	MSM											ORIGINAL SIGNED BY: LOREN THOMAS ASSISTANT CHIEF ENGINEER (DEVELOPMENT)		D-13
2	01-05	MSM							CADD FILE NAME: d13_0105.dgn	BOISE IDAHO	ORIGINAL SIGNED BY: STEVEN HUTCHINSON CHIEF ENGINEER	REQUIRES STD. DWG. D-12			
									DRAWING DATE: FEBRUARY, 2000						

ORIGINAL STORED AT: ITD, Headquarters 3311 West State Boise, Idaho

ORIGINAL SIGNED BY: MILDRED L. MILLER
DATE ORIGINAL SIGNED: JANUARY 5, 2005



NOTES

1. PATTERNS USED IN DRAWING:

INLET SECTIONS:

CATCH BASIN BOTTOMS:

PAVEMENT:

- INLETS AND CATCH BASINS MAY BE EITHER PRECAST OR CAST-IN-PLACE. PRECAST UNITS SHALL MEET THE REQUIREMENTS OF ASTM C 913. (PRIOR APPROVAL OF SHOP DRAWINGS WILL BE REQUIRED ON MODIFIED UNITS.)
- A 1" SIDE DRAFT IS ALLOWED FOR FORM REMOVAL.
- CAST-IN-PLACE INLETS AND CATCH BASINS SHALL CONFORM TO SECTION 609 - MINOR STRUCTURES OF THE CURRENT ITD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
- THE GRADE LINE OF THE TOP INSIDE OF ANY PIPE SHALL ENTER AT A POINT NO LOWER THAN THE TOP INSIDE OF THE OUTLET PIPE.
- PIPES CAN ENTER OR LEAVE THE BOX IN ANY DIRECTION. ALL CONNECTIONS AND BROKEN AREAS SHALL BE GROUTED SMOOTH.
- STEEL ANGLES SHALL BE SET SO THAT EACH BEARING BAR OF PREFABRICATED GRATE SHALL HAVE FULL BEARING ON BOTH ENDS. THE FINISHED TOP OF CONCRETE SHALL BE EVEN WITH THE ANGLE/GRATE SURFACE. THE STRUCTURAL STEEL NEED NOT BE PAINTED BUT SHALL MEET THE REQUIREMENTS OF ASTM A 36.
- ALL METAL REINFORCEMENT USED SHALL BE NO. 4 BARS. THE METAL REINFORCEMENT SHALL BE SMOOTH CUT TO ACCOMMODATE PIPES.
- GRAY IRON CAST TO THE DIMENSIONS GIVEN FOR THE STEEL GRATES MAY BE USED. THE CASTINGS SHALL CONFORM TO AASHTO M306 CLASS 35B GRAY IRON CASTINGS.
- INLET/CATCH BASIN GRATES MAY EITHER BE RESISTANCE WELDED OR ARC WELDED. IN EITHER CASE THE GRATE SHALL BE TRUE AND FLUSH.
- GRATE B WILL BE USED ONLY WHEN SPECIFIED.
- NOT TO SCALE.

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	10-80		6	09-94	MSM	11	11-08	JRV
2	04-82		7	06-97	MSM			
3	03-84		8	06-01	MSM			
4	01-89	GB	9	11-04	MSM			
5	12-93	MSM	10	05-07	MSM			

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME: e6a_1108.dgn
DRAWING DATE: JULY, 1961

IDAHO TRANSPORTATION DEPARTMENT
BOISE IDAHO

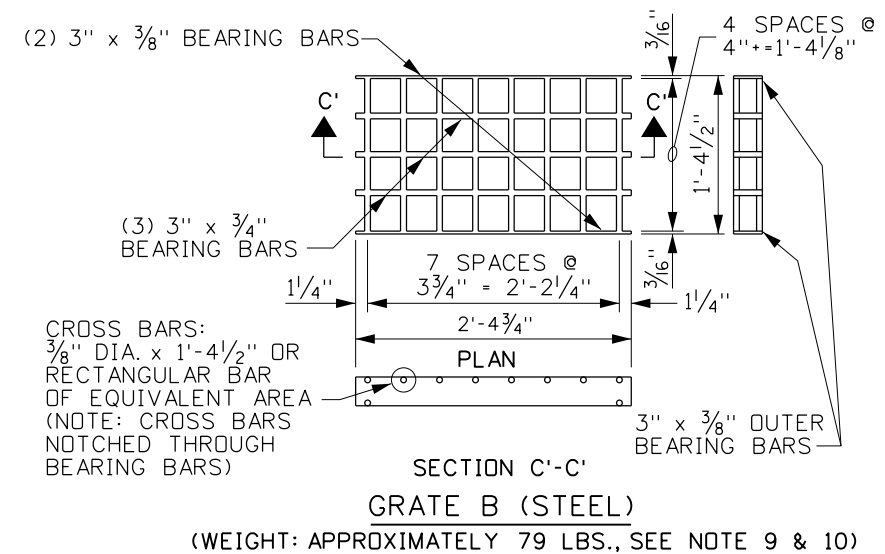
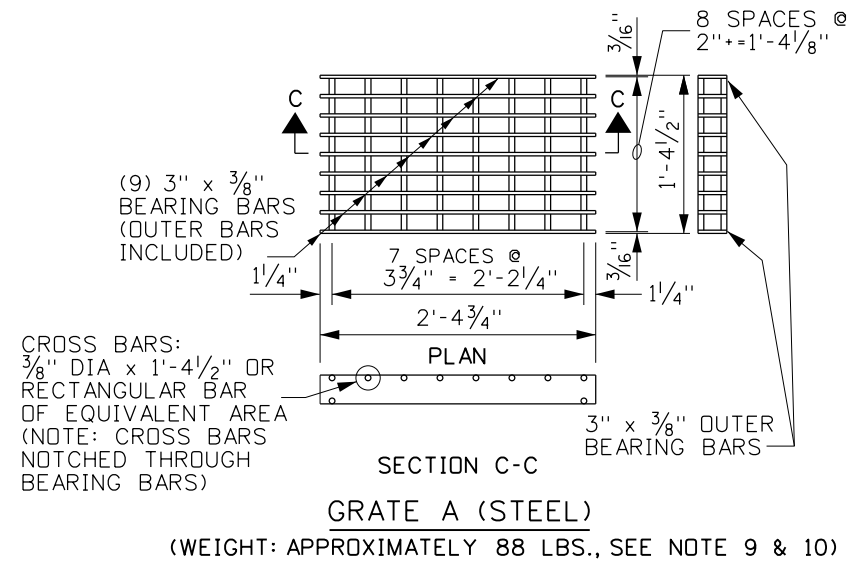
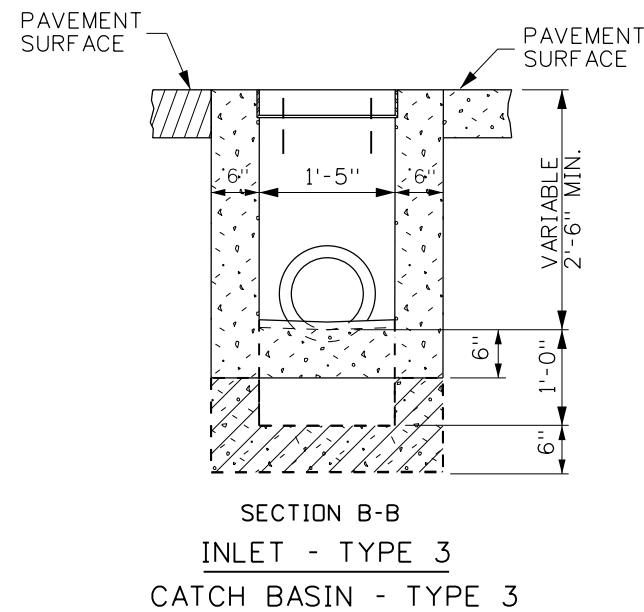
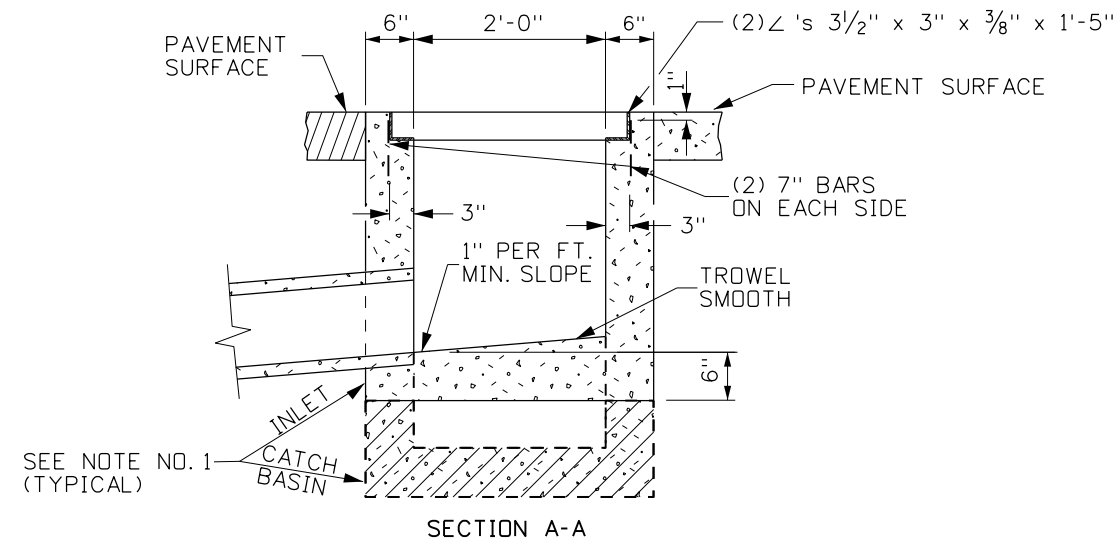
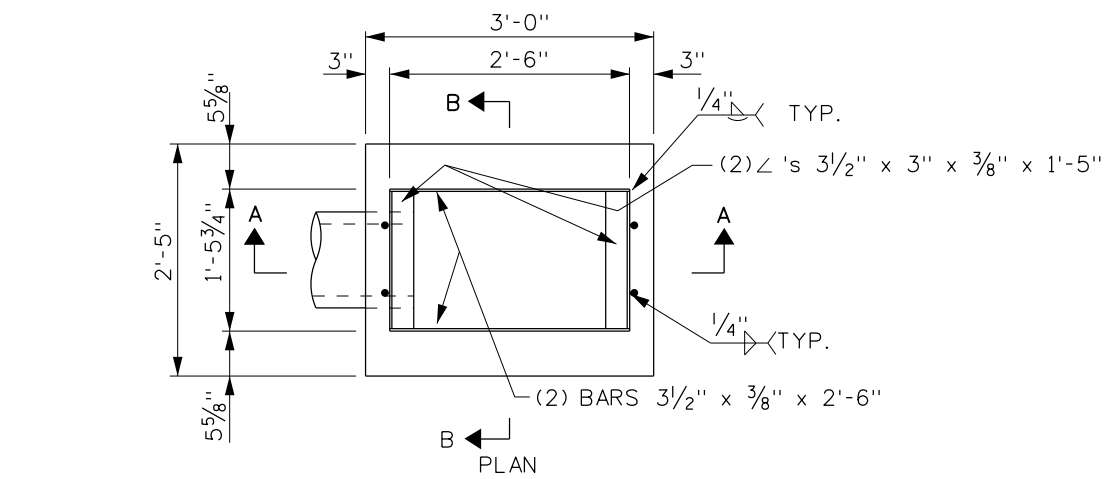
ORIGINAL SIGNED BY: LOREN THOMAS ASSISTANT CHIEF ENGINEER (DEVELOPMENT)
ORIGINAL SIGNED BY: TOM COLE CHIEF ENGINEER

STANDARD DRAWING
INLETS & CATCH BASINS TYPES 1, 2, & 3
REQUIRES SHEET 2 OF 2

English
STANDARD DRAWING NO. E-6-A
SHEET 1 OF 2

ORIGINAL STORED AT: ITD, Headquarters 3311 West State Boise, Idaho

ORIGINAL SIGNED BY:
DATE: TED E. MASOV
NOVEMBER 3, 2008



REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	10-80		6	09-94	MSM	11	11-08	JRV
2	04-82		7	06-97	MSM			
3	03-84		8	06-01	MSM			
4	01-89	GB	9	11-04	MSM			
5	12-93	MSM	10	05-07	MSM			

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME: e6a_1108.dgn
DRAWING DATE: JULY, 1961

IDAHO TRANSPORTATION DEPARTMENT
BOISE IDAHO

ORIGINAL SIGNED BY: LOREN THOMAS ASSISTANT CHIEF ENGINEER (DEVELOPMENT)
ORIGINAL SIGNED BY: TOM COLE CHIEF ENGINEER

STANDARD DRAWING
INLETS & CATCH BASINS TYPES 1, 2, & 3
REQUIRES SHEET 1 OF 2

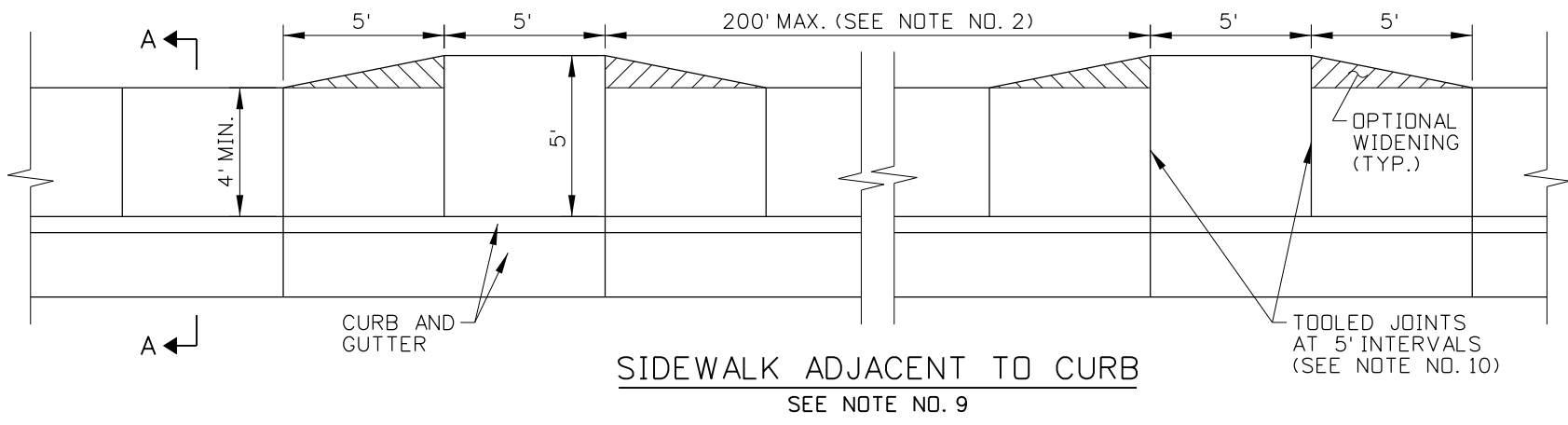
English
STANDARD DRAWING NO. E-6-A
SHEET 2 OF 2

ORIGINAL STORED
AT: ITD,
Headquarters
3311 West State
Boise, Idaho

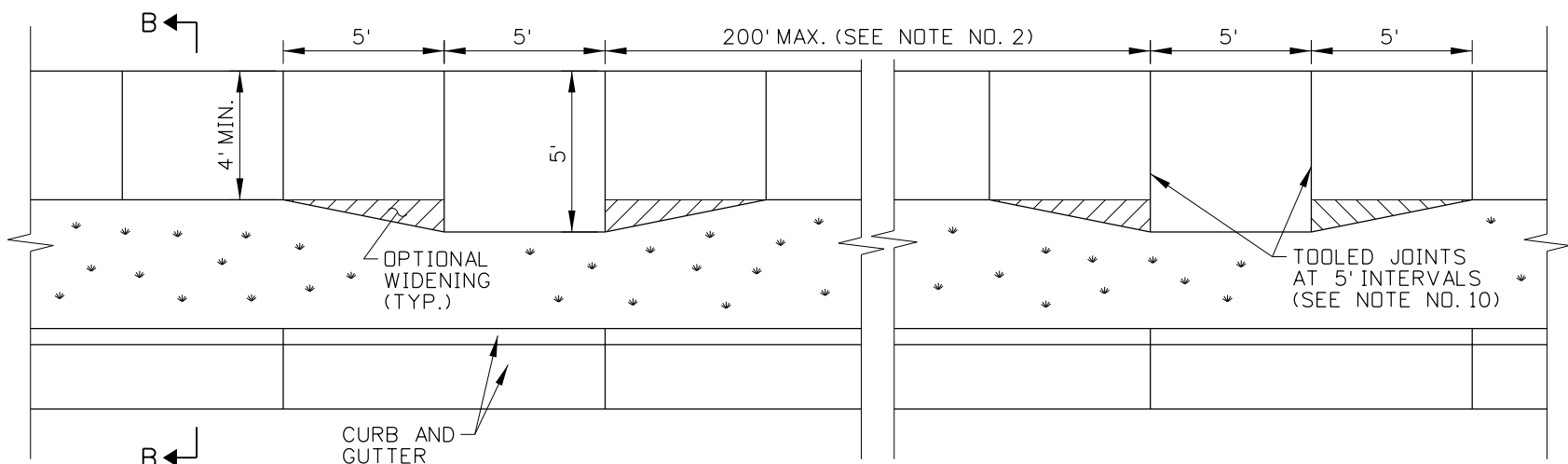
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DATE: TED E. MASOV
NOVEMBER 3, 2008

SYMBOL LEGEND

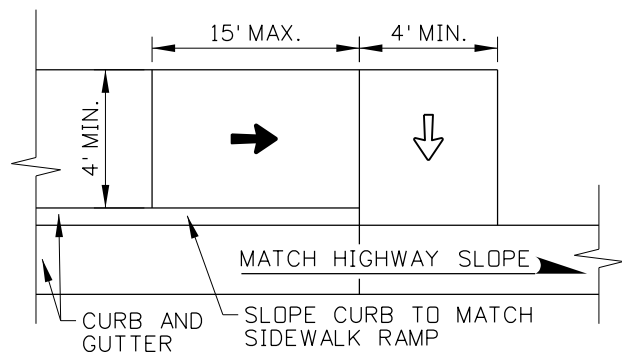
- 1.0% TO 2.0% SLOPE
- 5.0% TO 8.3% RUNNING SLOPE, 2.0% OR FLATTER CROSS SLOPE



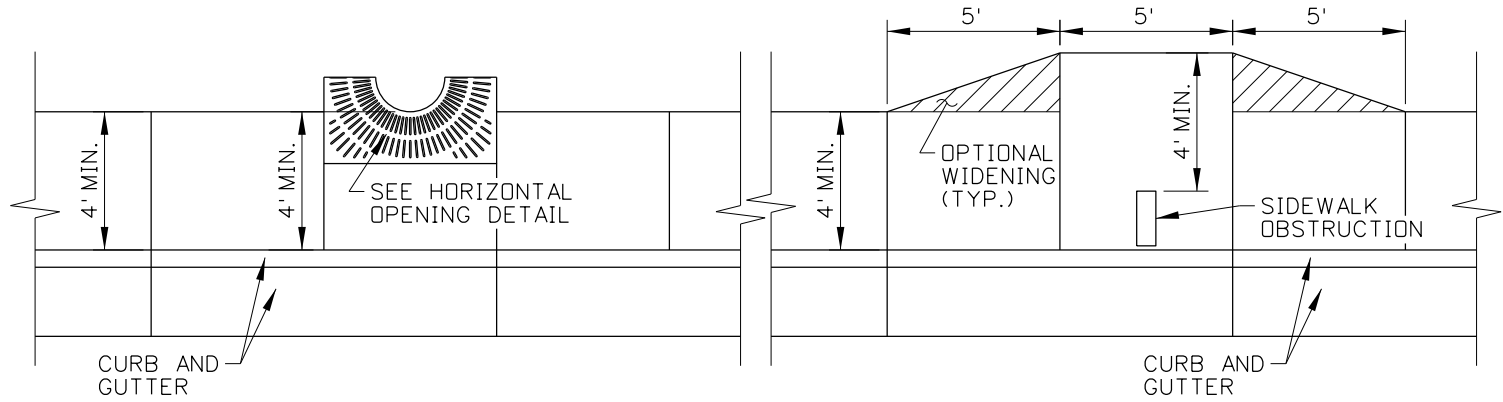
SIDEWALK ADJACENT TO CURB
SEE NOTE NO. 9



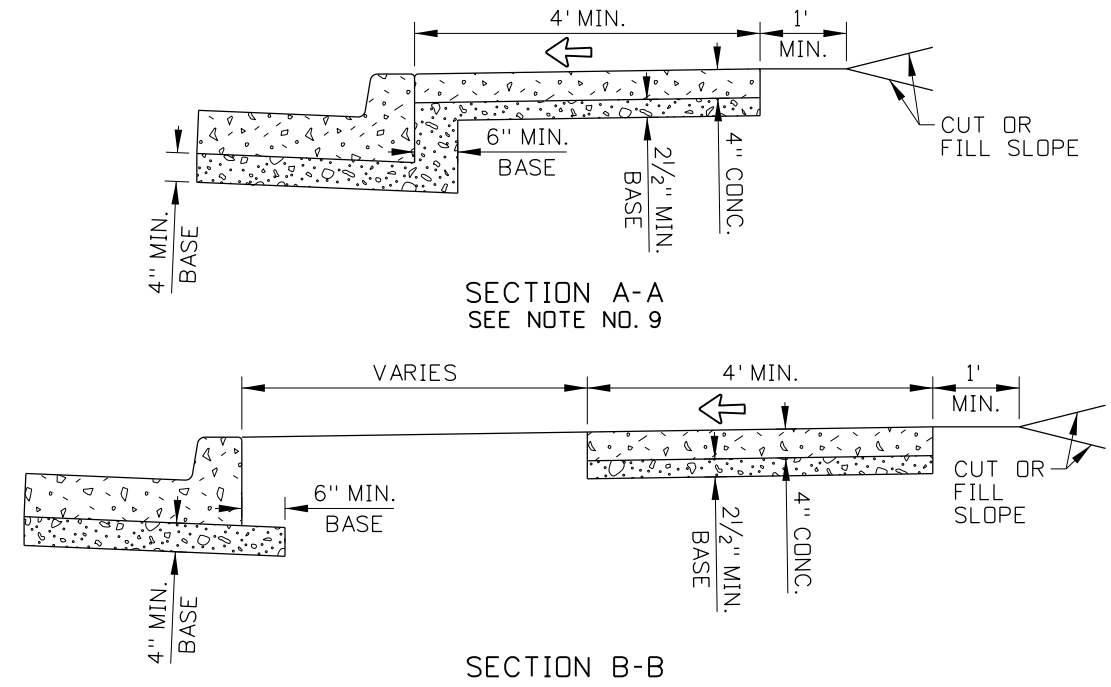
DETACHED SIDEWALK



SIDEWALK TERMINATION DETAIL

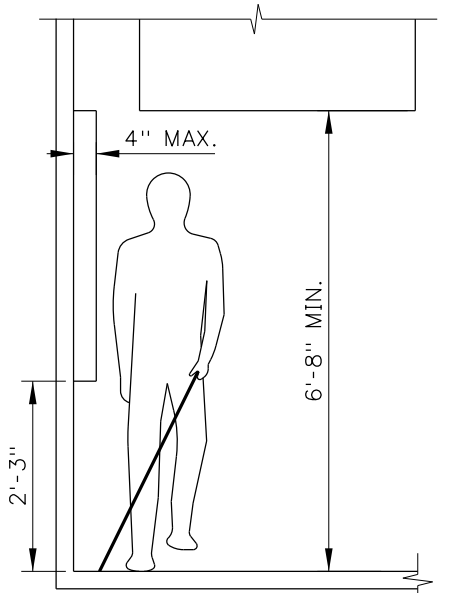


WIDENING AROUND OBSTRUCTIONS DETAIL
SEE NOTE NOS. 6 & 7



SECTION A-A
SEE NOTE NO. 9

SECTION B-B



PROTRUDING OBJECT DETAIL
SEE NOTE NO. 7

REVISIONS							
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE

SCALES SHOWN
ARE FOR 11" X 17"
PRINTS ONLY

CADD FILE NAME:
614-1_0615.dgn

DRAWING DATE:
MAY, 2015

IDAHO
TRANSPORTATION
DEPARTMENT



BOISE IDAHO

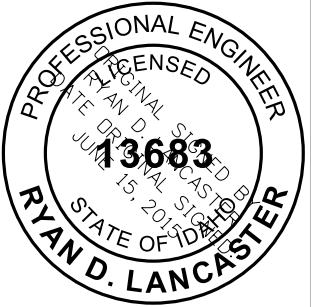
ORIGINAL SIGNED BY: KEVIN SABLAN
DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING

SIDEWALKS

English
STANDARD DRAWING NO.
614-1
SHEET 1 OF 2

ORIGINAL STORED
AT: ITD,
Headquarters
3311 West State
Boise, Idaho



SYMBOL LEGEND

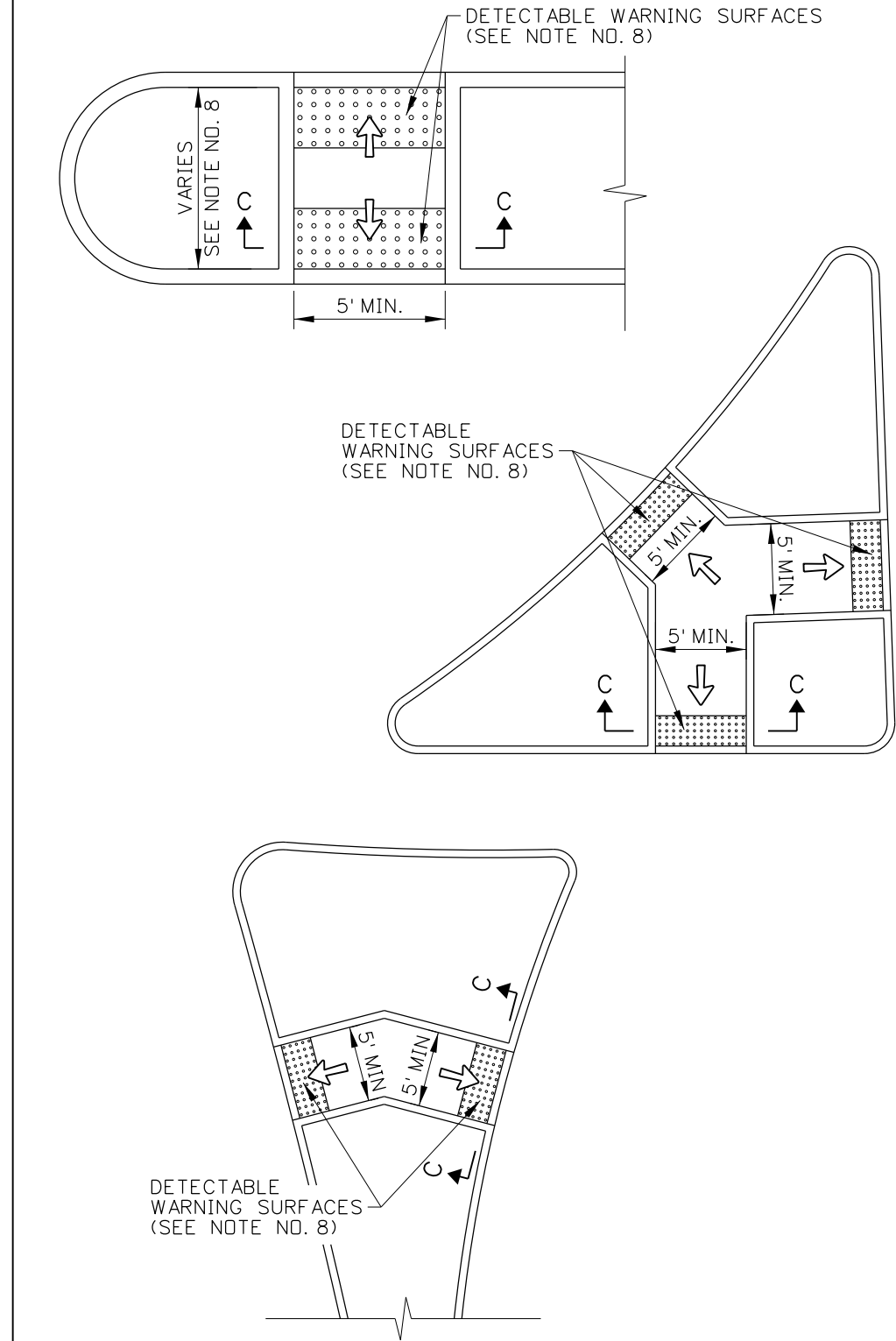
- ↩ 1.0% TO 2.0% SLOPE
- ➡ 5.0% TO 8.3% RUNNING SLOPE,
2.0% OR FLATTER CROSS SLOPE

NOTES

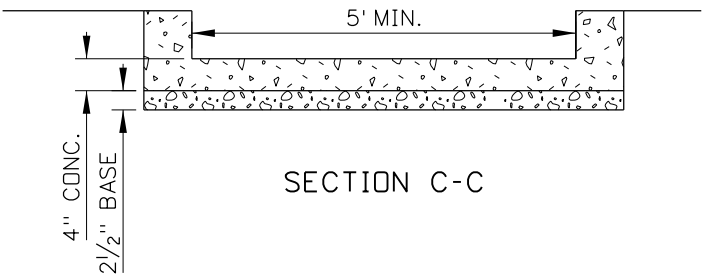
1. SIDEWALKS MAY CONSIST OF A PEDESTRIAN CIRCULATION PATH AND A PEDESTRIAN ACCESS ROUTE. THE PEDESTRIAN CIRCULATION PATH IS A PREPARED SURFACE PROVIDED FOR PEDESTRIAN TRAVEL IN THE PUBLIC RIGHT-OF-WAY. THE PEDESTRIAN ACCESS ROUTE IS A CONTINUOUS AND UNOBSTRUCTED PATH OF TRAVEL PROVIDED FOR PEDESTRIANS WITH DISABILITIES WITHIN OR COINCIDING WITH A PEDESTRIAN CIRCULATION PATH.
2. PROVIDE AT LEAST 4' OF CONTINUOUS CLEAR WIDTH OF PEDESTRIAN ACCESS ROUTE, EXCLUSIVE OF THE CURB WIDTH. WHERE SIDEWALKS ARE WIDER THAN 4', ONLY A PORTION OF THE SIDEWALK IS REQUIRED TO BE PART OF THE PEDESTRIAN ACCESS ROUTE.

PROVIDE A PASSING SPACE AT 200' OR SHORTER INTERVALS WHEN THE CLEAR WIDTH OF THE PEDESTRIAN ACCESS ROUTE IS LESS THAN 5'. ENSURE THAT THE DIMENSIONS OF THE PASSING SPACE ARE AT LEAST 5' BY 5'. INTERSECTING SIDEWALKS, DRIVEWAYS, AND ALLEYS MAY BE USED AS PASSING SPACES.
3. ENSURE THAT THE GRADE OF THE PEDESTRIAN ACCESS ROUTE DOES NOT EXCEED THE GENERAL GRADE ESTABLISHED FOR THE ADJACENT HIGHWAY.
4. ENSURE THAT THE CROSS SLOPE OF THE PEDESTRIAN ACCESS ROUTE WITHIN THE SIDEWALK DOES NOT EXCEED TWO PERCENT.
5. VERTICAL SURFACE DISCONTINUITIES MAY OCCASIONALLY OCCUR AT EXPANSION JOINTS, UTILITY COVERS, VAULT FRAMES, AND GRATINGS WITHIN THE SIDEWALK. ENSURE THAT VERTICAL SURFACE DISCONTINUITIES DO NOT EXCEED 1/2". BEVEL VERTICAL SURFACE DISCONTINUITIES BETWEEN 1/4" AND 1/2" WITH A 2:1 SLOPE ACROSS THE ENTIRE VERTICAL SURFACE DISCONTINUITY.
6. ENSURE THAT HORIZONTAL OPENINGS IN GRATINGS AND JOINTS DO NOT PERMIT PASSAGE OF A SPHERE MORE THAN 1/2" IN DIAMETER.
7. OBJECTS PROTRUDING INTO OR OVERHANGING A PEDESTRIAN CIRCULATION PATH MUST NOT REDUCE THE MINIMUM CLEAR WIDTH OF THE PEDESTRIAN ACCESS ROUTE. PROTRUDING OBJECTS INCLUDE STREET FURNITURE, STREET LIGHTS, UTILITY POLES, EQUIPMENT CABINETS, SIGN POSTS AND SIGNS, PARKING METERS, TRASH RECEPTACLES, PUBLIC TELEPHONES, MAILBOXES, NEWSPAPER VENDING MACHINES, BENCHES, TRANSIT SHELTERS, KIOSKS, BICYCLE RACKS, PLANTERS AND PLANTED TREES, AND STREET SCULPTURES.

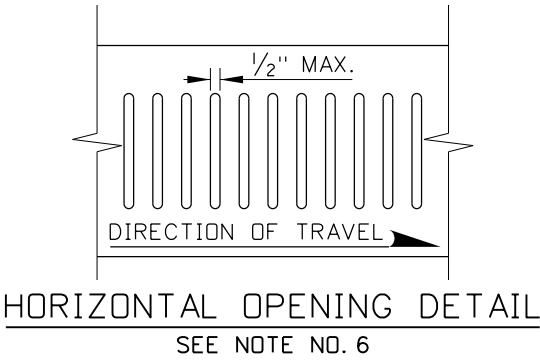
ENSURE THAT OBJECTS WITH LEADING EDGES BETWEEN 2'-3" AND 6'-8" ABOVE THE FINISH SURFACE DO NOT PROTRUDE MORE THAN 4" HORIZONTALLY INTO THE PEDESTRIAN CIRCULATION PATH.
8. PROVIDE DETECTABLE WARNING SURFACES ON PEDESTRIAN REFUGE ISLANDS WITH CURB RAMPS OR WHEN CUT-THROUGH AT STREET LEVEL AND REFUGE ISLAND WIDTHS ARE GREATER THAN SIX FEET IN THE DIRECTION OF PEDESTRIAN TRAVEL. DO NOT INSTALL DETECTABLE WARNING SURFACES AT PEDESTRIAN REFUGE ISLANDS THAT ARE CUT-THROUGH AT STREET LEVEL AND ARE LESS THAN SIX FEET IN WIDTH IN THE DIRECTION OF PEDESTRIAN TRAVEL. SEE STANDARD DRAWING 614-3 FOR DETECTABLE WARNING SURFACE DETAILS.
9. USE A BOND PREVENTATIVE BETWEEN THE SIDEWALK AND CURB WHEN CONSTRUCTED SEPARATELY AND PLACED ADJACENT TO EACH OTHER.
10. ALIGN CURB AND SIDEWALK JOINTS. CONSTRUCT JOINTS AT 5' INTERVALS THAT ARE APPROXIMATELY 1/8" WIDE AND 3/4" IN DEPTH. CONSTRUCT A LONGITUDINAL JOINT WHEN THE SIDEWALK IS 8' WIDE OR WIDER. INSTALL A PREFORMED EXPANSION JOINT FILLER EVERY 40'.
11. DRAWING NOT TO SCALE.



PEDESTRIAN REFUGE ISLAND DETAILS

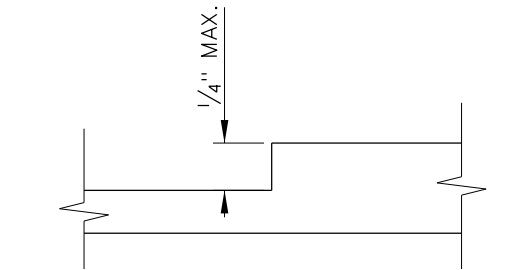


SECTION C-C

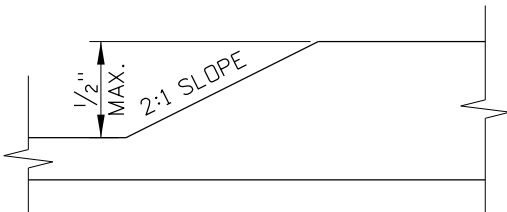


HORIZONTAL OPENING DETAIL

SEE NOTE NO. 6



VERTICAL DISCONTINUITY OF 1/4" OR LESS



VERTICAL DISCONTINUITY BETWEEN 1/4" AND 1/2"

VERTICAL SURFACE DISCONTINUITY DETAIL

SEE NOTE NO. 5

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY

SCALES SHOWN
ARE FOR 11" X 17"
PRINTS ONLY

CADD FILE NAME:
614-1_0615.dgn

DRAWING DATE:
MAY, 2015

IDAHO
TRANSPORTATION
DEPARTMENT



BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN
DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING

SIDEWALKS

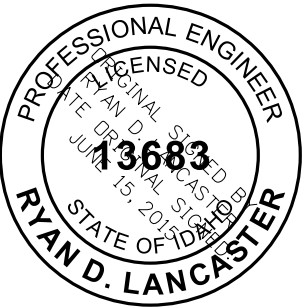
English

STANDARD DRAWING NO.

614-1

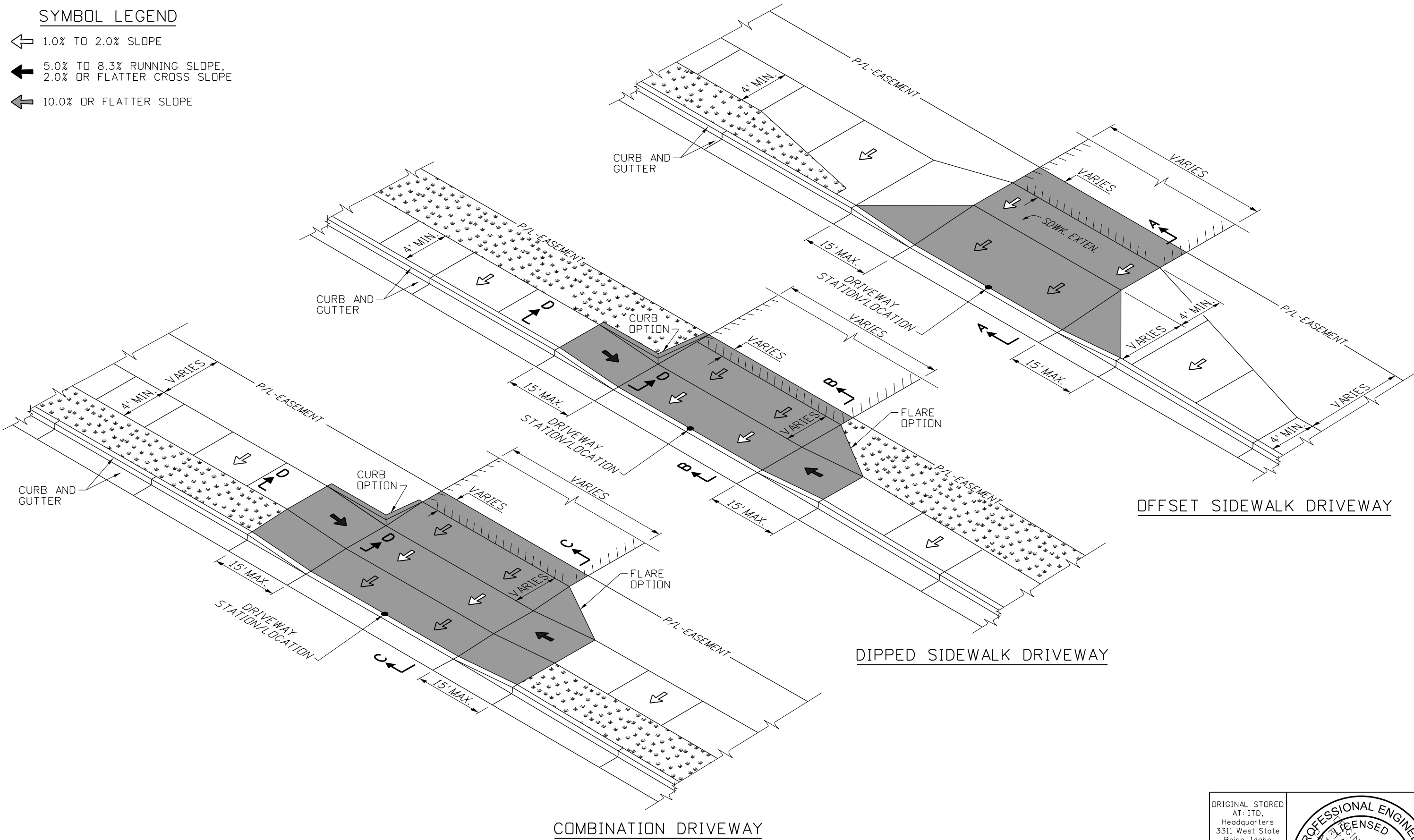
SHEET 2 OF 2

ORIGINAL STORED
AT: ITD,
Headquarters
3311 West State
Boise, Idaho



SYMBOL LEGEND

- ↩ 1.0% TO 2.0% SLOPE
- ➡ 5.0% TO 8.3% RUNNING SLOPE,
2.0% OR FLATTER CROSS SLOPE
- ➡ 10.0% OR FLATTER SLOPE



REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	11-90	GB	6	05-06	MSM			
2	09-93	MSM	7	05-07	MSM			
3	12-94	MSM	8	07-10	JAW			
4	09-02	MSM	9	04-15	EG			
5	06-04	MSM						

SCALES SHOWN
ARE FOR 11" X 17"
PRINTS ONLY

CADD FILE NAME:
614-2_0615.dgn

DRAWING DATE:
APRIL, 1990

IDAHO
TRANSPORTATION
DEPARTMENT



BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN
DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING

DRIVEWAYS

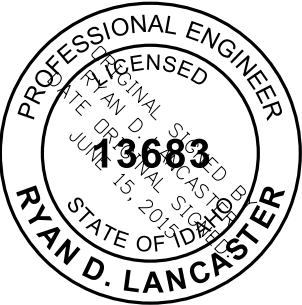
English

STANDARD DRAWING NO.

614-2

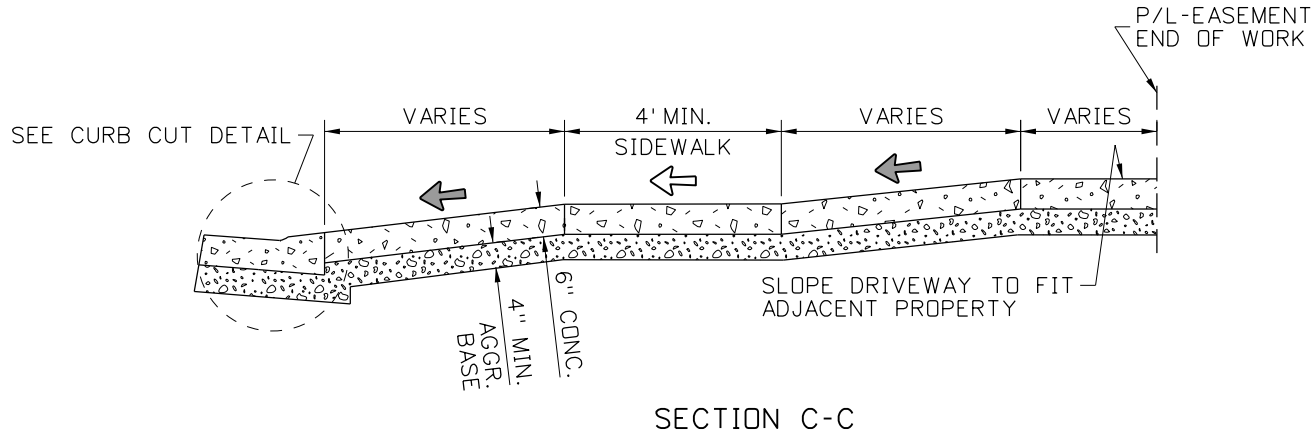
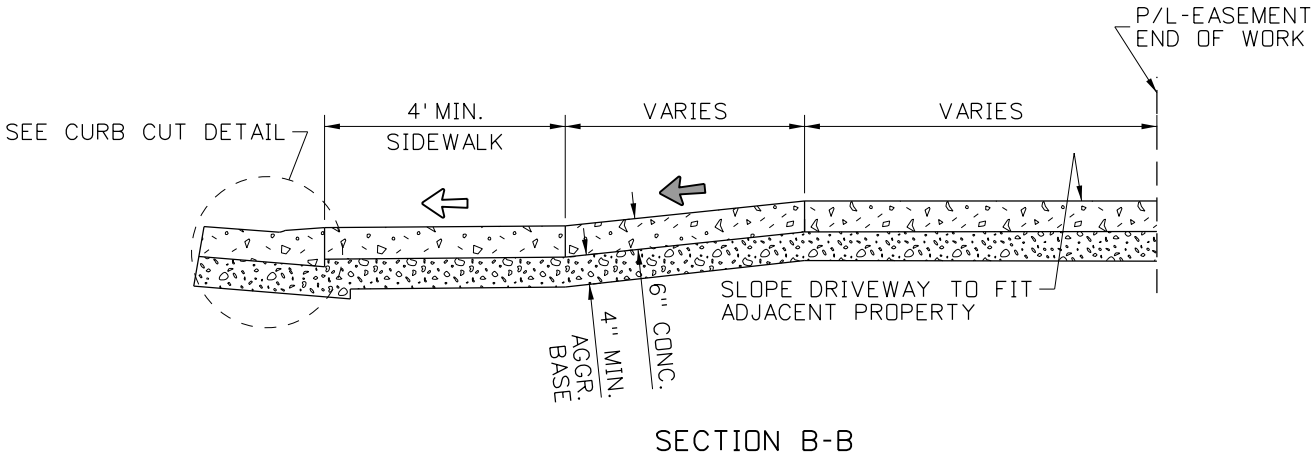
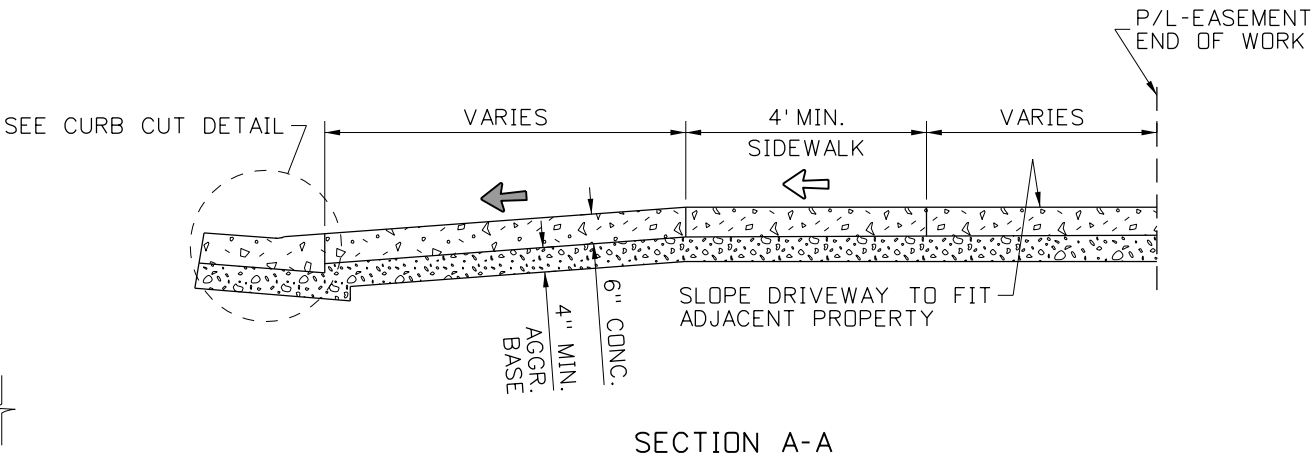
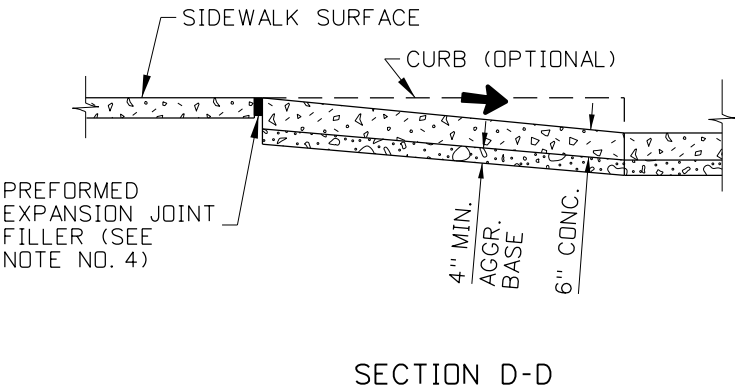
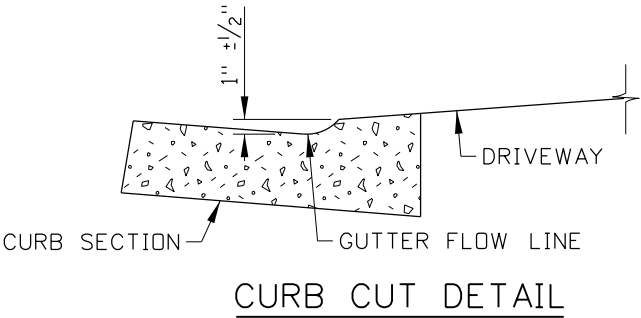
SHEET 1 OF 2

ORIGINAL STORED
AT: ITD,
Headquarters
3311 West State
Boise, Idaho



SYMBOL LEGEND

- ↖ 1.0% TO 2.0% SLOPE
- ↙ 5.0% TO 8.3% RUNNING SLOPE,
2.0% OR FLATTER CROSS SLOPE
- ↖ 10.0% OR FLATTER SLOPE



NOTES

1. EXTENTS OF DRIVEWAY PAY ITEMS ARE SHOWN IN GRAY SHADING.
2. SEE THE SIDEWALKS STANDARD DRAWING FOR NOTES RELATED TO THE PEDESTRIAN ACCESS ROUTE.
3. DO NOT PLACE DETECTABLE WARNING SURFACES ON DRIVEWAYS.
4. USE A BOND PREVENTATIVE BETWEEN THE DRIVEWAY OR SIDEWALK AND CURB WHEN CONSTRUCTED SEPARATELY AND PLACED ADJACENT TO EACH OTHER.
5. ALIGN ALTERNATING CURB AND SIDEWALK JOINTS. CONSTRUCT DRIVEWAY AND SIDEWALK JOINTS AT 5' INTERVALS THAT ARE APPROXIMATELY 1/8" WIDE AND 3/4" IN DEPTH.
6. DRAWING NOT TO SCALE.

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	11-90	GB	6	05-06	MSM			
2	09-93	MSM	7	05-07	MSM			
3	12-94	MSM	8	07-10	JAW			
4	09-02	MSM	9	04-15	EG			
5	06-04	MSM						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME: 614-2_0615.dgn
DRAWING DATE: APRIL, 1990

IDAHO
TRANSPORTATION
DEPARTMENT



BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN

DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING

DRIVEWAYS

ORIGINAL STORED AT: ITD, Headquarters 3311 West State Boise, Idaho

English

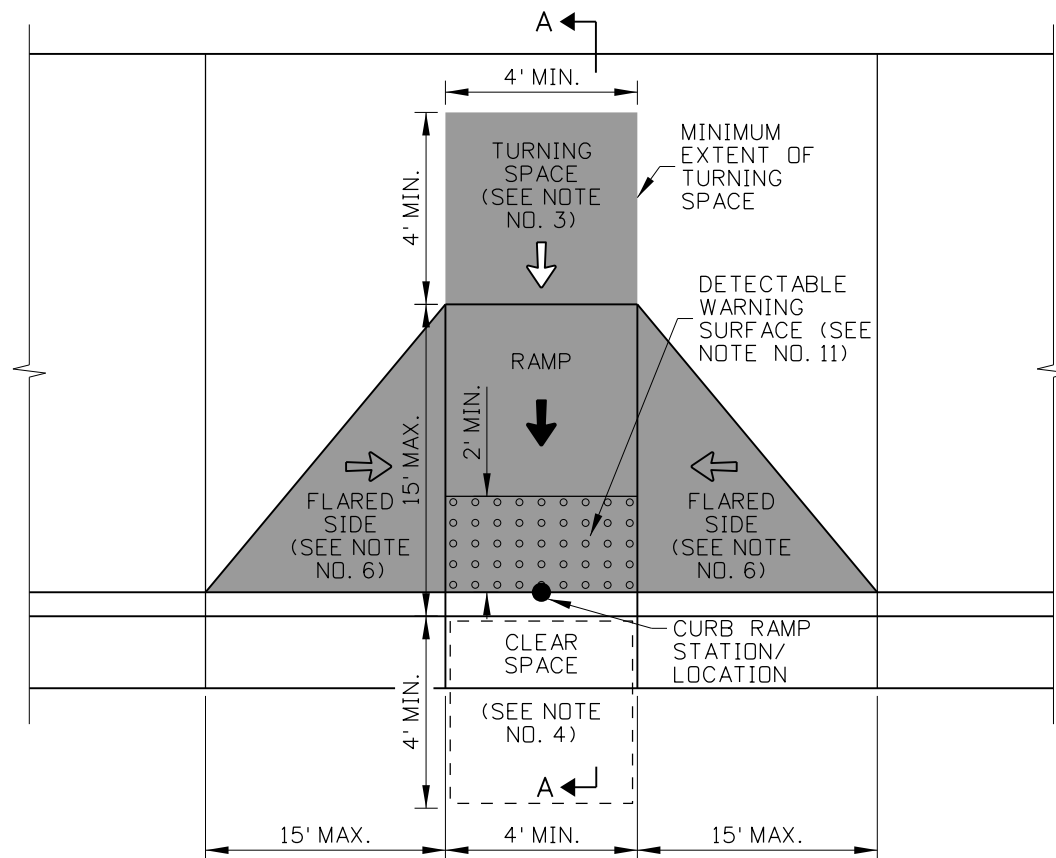
STANDARD DRAWING NO. 614-2

SHEET 2 OF 2

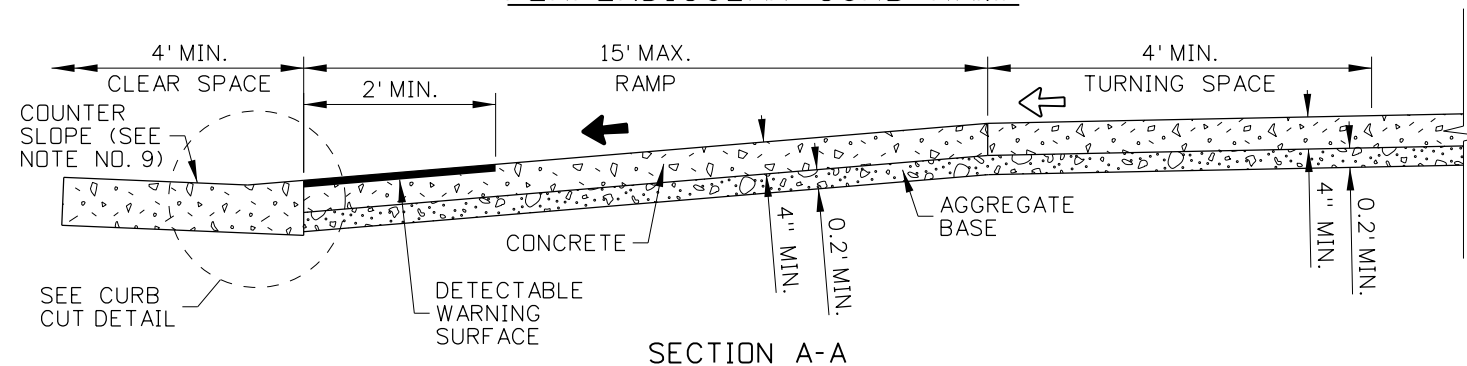
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13683

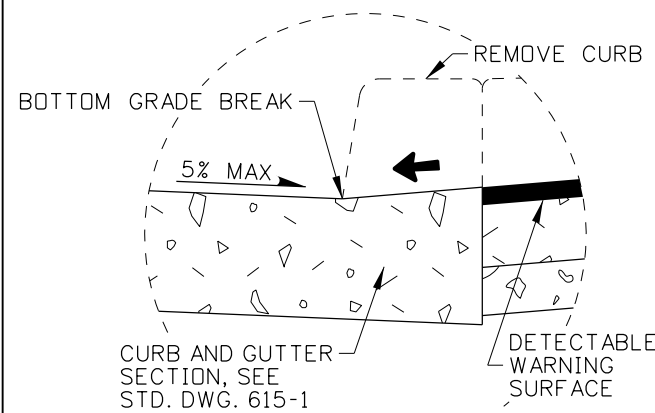
RYAN D. LANCASTER



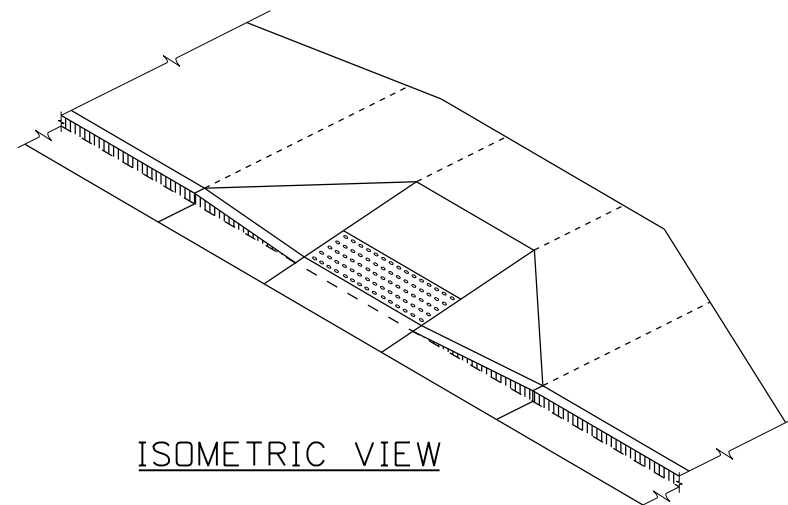
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SECTION A-A



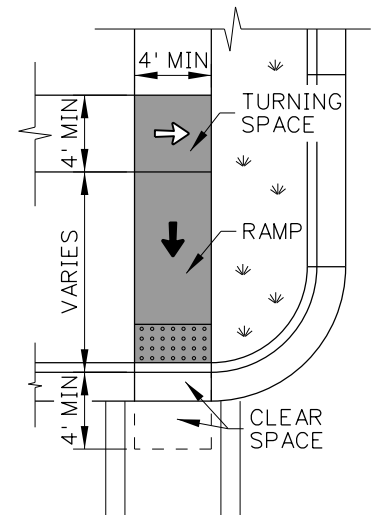
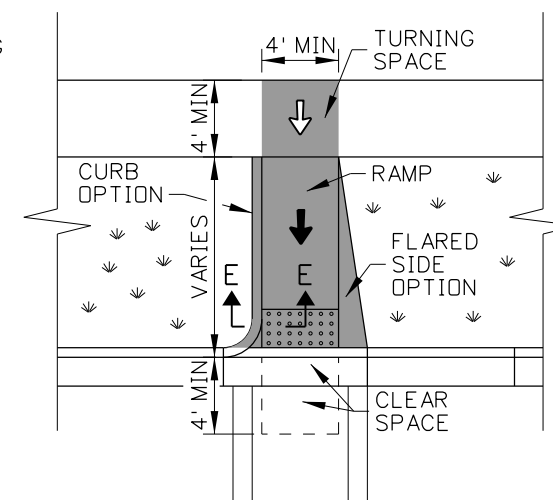
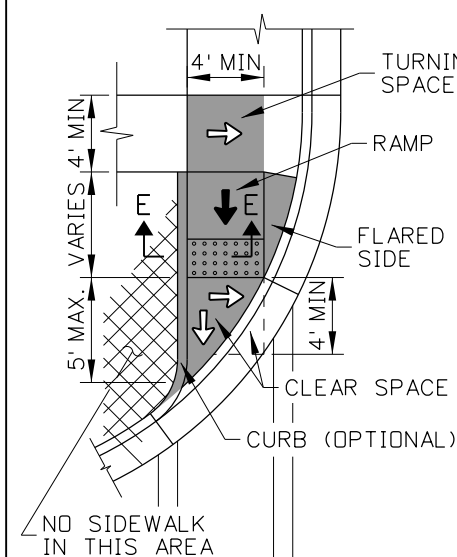
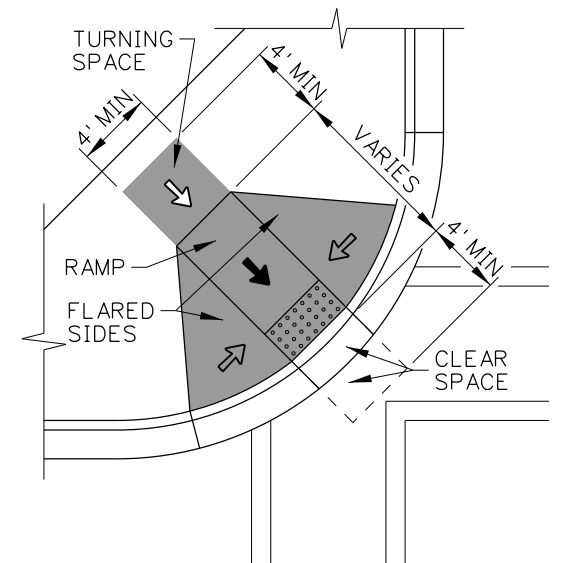
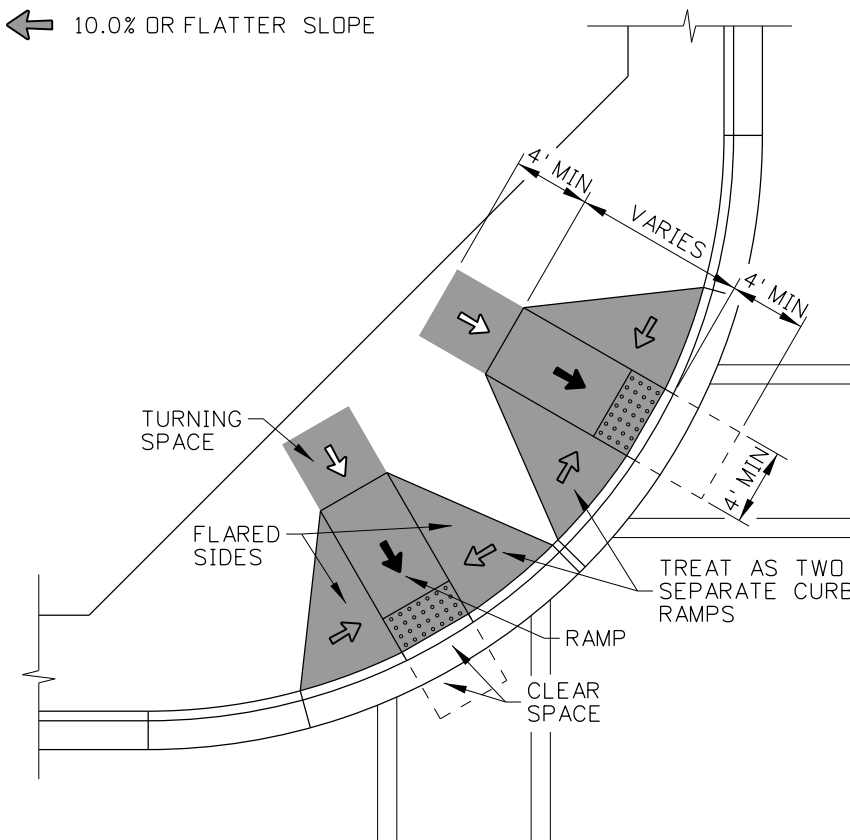
CURB CUT DETAIL



ISOMETRIC VIEW

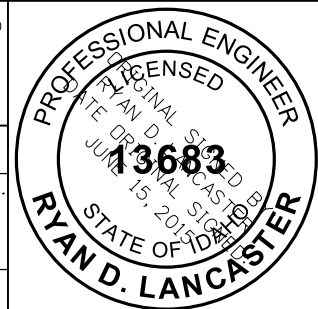
SYMBOL LEGEND

- 1.0% TO 2.0% SLOPE
- 5.0% TO 8.3% RUNNING SLOPE, 2.0% OR FLATTER CROSS SLOPE
- 10.0% OR FLATTER SLOPE



EXAMPLE APPLICATIONS

ORIGINAL STORED
AT: ITD,
Headquarters
3311 West State
Boise, Idaho



REVISIONS							
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE
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2	12-95	MSM	7	12-04	MSM	12	09-11
3	06-98	MSM	8	06-05	MSM	13	05-15
4	08-01	MSM	9	05-06	MSM		
5	10-02	MSM	10	05-07	MSM		

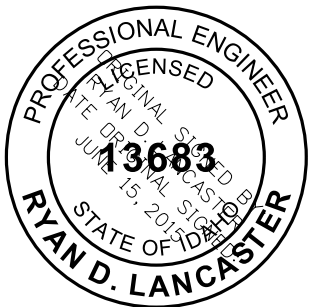
SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME: 614-3_0615.dgn
DRAWING DATE: JUNE, 1990

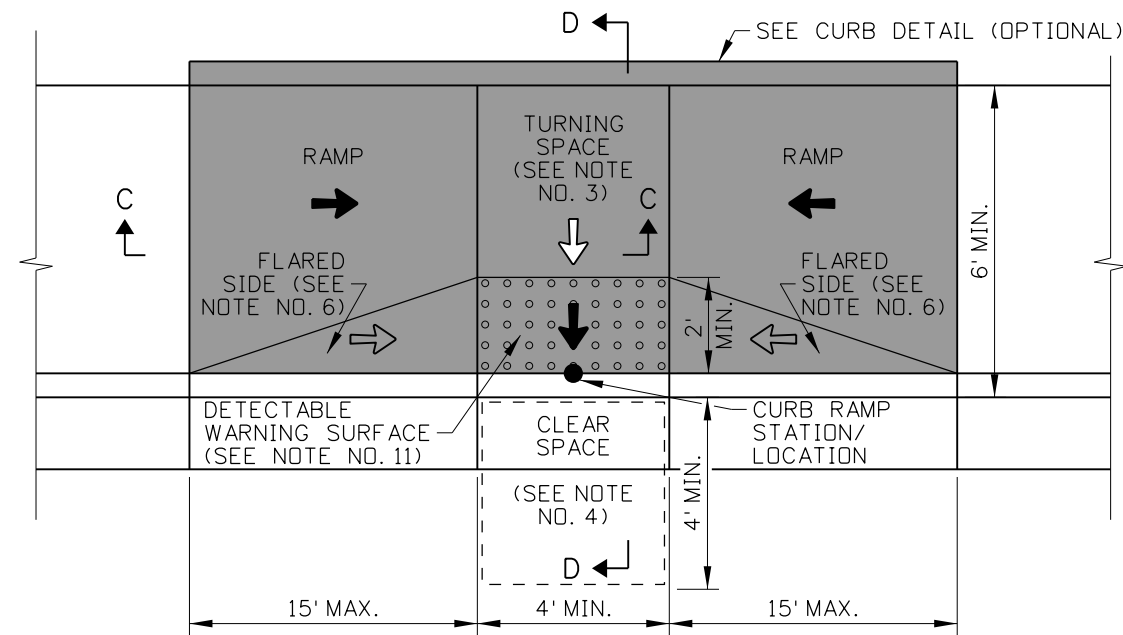
IDAHO TRANSPORTATION DEPARTMENT
BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN DESIGN/TRAFFIC SERVICES ENGINEER
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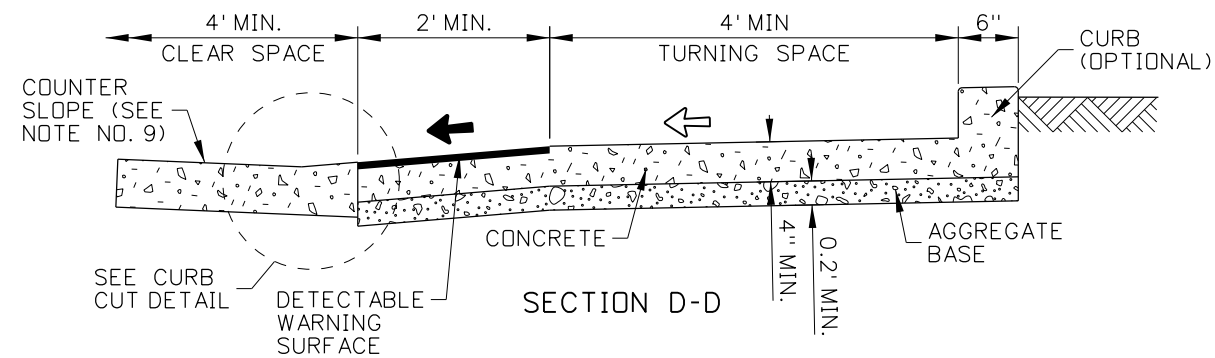
STANDARD DRAWING
CURB RAMPS

English
STANDARD DRAWING NO. 614-3
SHEET 1 OF 4

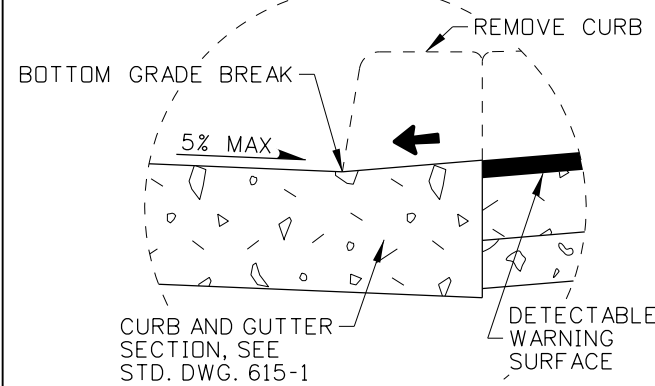




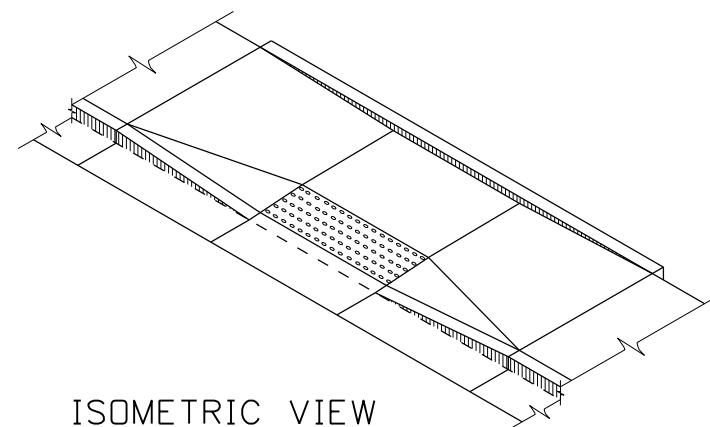
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SECTION D-D



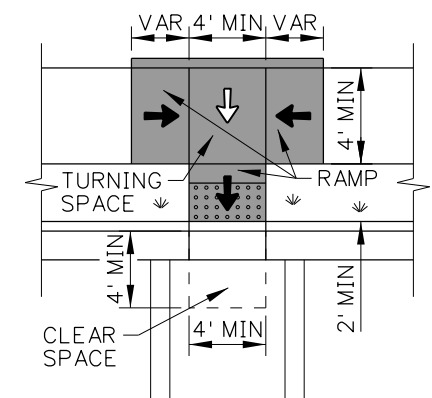
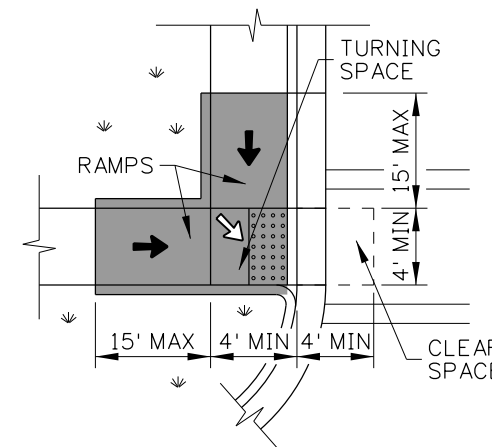
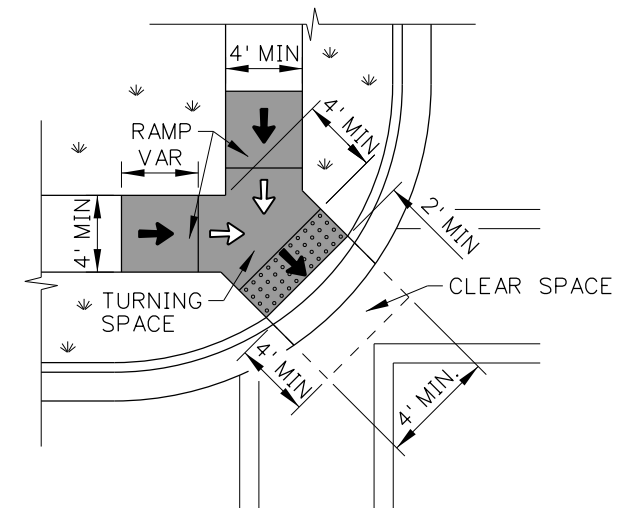
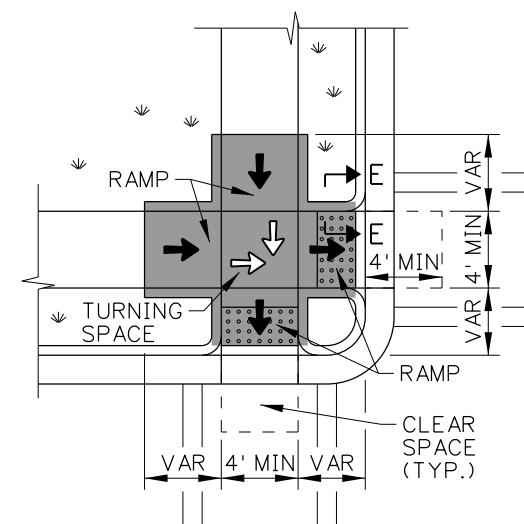
CURB CUT DETAIL



ISOMETRIC VIEW

SYMBOL LEGEND

- 1.0% TO 2.0% SLOPE
- 5.0% TO 8.3% RUNNING SLOPE, 2.0% OR FLATTER CROSS SLOPE
- 10.0% OR FLATTER SLOPE



EXAMPLE APPLICATIONS

REVISIONS							
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE
1	09-93	MSM	6	07-03	MSM	11	07-10
2	12-95	MSM	7	12-04	MSM	12	09-11
3	06-98	MSM	8	06-05	MSM	13	05-15
4	08-01	MSM	9	05-06	MSM		
5	10-02	MSM	10	05-07	MSM		

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME: 614-3_0615.dgn
DRAWING DATE: JUNE, 1990

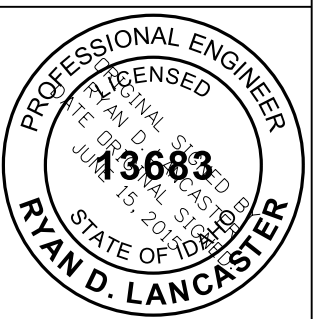
IDAHO TRANSPORTATION DEPARTMENT
BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN DESIGN/TRAFFIC SERVICES ENGINEER
--

STANDARD DRAWING
CURB RAMPS

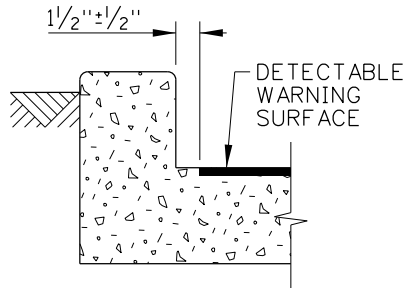
English
STANDARD DRAWING NO. 614-3
SHEET 3 OF 4

ORIGINAL STORED
AT: ITD,
Headquarters
3311 West State
Boise, Idaho

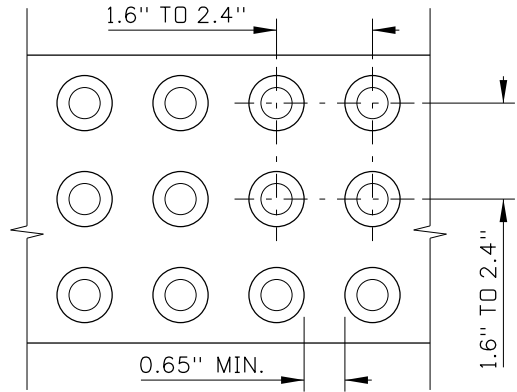


SYMBOL LEGEND

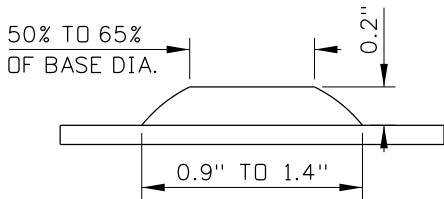
- 1.0% TO 2.0% SLOPE
- 5.0% TO 8.3% RUNNING SLOPE, 2.0% OR FLATTER CROSS SLOPE
- 10.0% OR FLATTER SLOPE



SECTION E-E

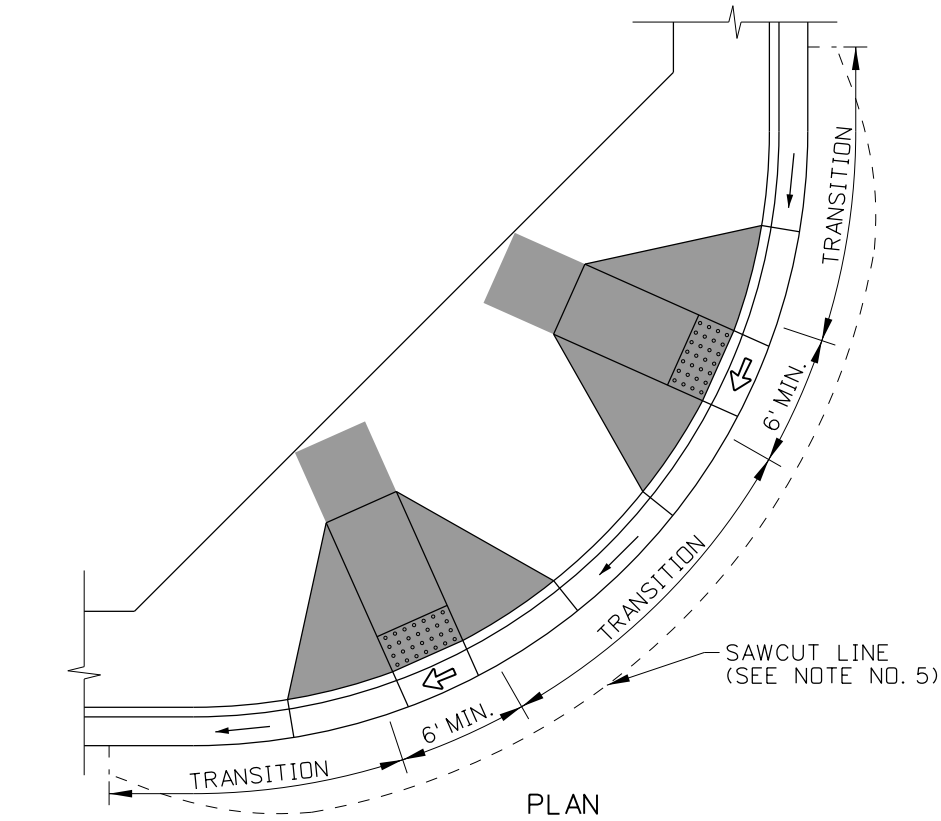


DOME SPACING

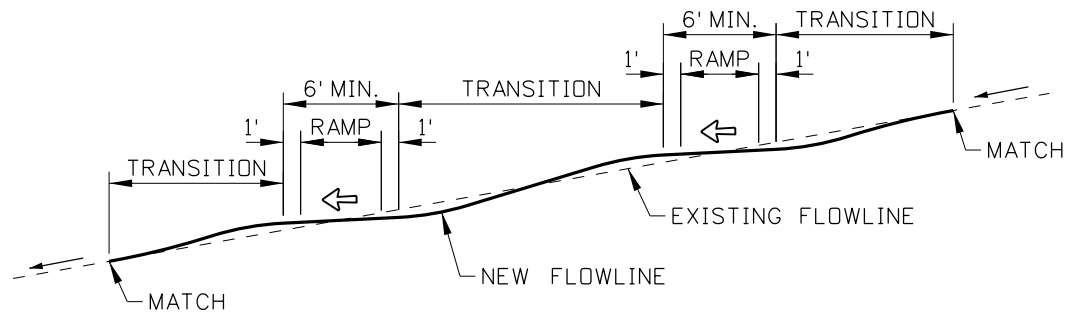


DOME SIZE

DETECTABLE WARNING SURFACE DETAILS
SEE NOTE NO. 11



PLAN



PROFILE

FLOWLINE PROFILE DETAIL
SEE NOTE NO. 5

NOTES

- EXTENTS OF CURB RAMP PAY ITEMS ARE SHOWN IN GRAY SHADING.
- CURB RAMPs CAN BE PERPENDICULAR, PARALLEL, OR A COMBINATION OF PARALLEL AND PERPENDICULAR RAMPs. EXAMPLE APPLICATIONS OF EACH ARE SHOWN ON SHEETS 1, 2, AND 3.
PERPENDICULAR CURB RAMPs HAVE A RAMP THAT CUTS THROUGH THE CURB AT RIGHT ANGLES OR MEETS THE GUTTER GRADE BREAK AT RIGHT ANGLES WHEN THE CURB IS CURVED.
PARALLEL CURB RAMPs HAVE A RAMP OR RAMPs IN-LINE WITH THE DIRECTION OF SIDEWALK TRAVEL AND LOWER THE SIDEWALK TO A LEVEL TURNING SPACE WHERE A TURN IS MADE TO ENTER THE PEDESTRIAN STREET CROSSING.
COMBINATION CURB RAMPs HAVE FEATURES FROM PERPENDICULAR AND PARALLEL CURB RAMPs.
- PROVIDE A TURNING SPACE WITH A 2.0% OR FLATTER SLOPE IN EACH DIRECTION. TURNING SPACES MAY OVERLAP WITH OTHER TURNING SPACES AND CLEAR SPACES.
PERPENDICULAR CURB RAMP:
PROVIDE A 4' BY 5' MINIMUM TURNING SPACE WHEN THE TURNING SPACE IS CONSTRAINED AT THE BACK-OF-SIDEWALK.
PARALLEL CURB RAMP:
PROVIDE A 4' BY 5' TURNING SPACE WHEN THE TURNING SPACE IS CONSTRAINED ON TWO OR MORE SIDES. ENSURE THAT THE 5' DIMENSION IS PROVIDED IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING.
- PROVIDE A CLEAR SPACE BEYOND THE BOTTOM OF THE GRADE BREAK THAT IS WITHIN THE WIDTH OF THE PEDESTRIAN STREET CROSSING AND WHOLLY OUTSIDE THE PARALLEL VEHICLE TRAFFIC LANE.
- CROSS SLOPE IS THE SLOPE PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL. ENSURE THAT THE CROSS SLOPE OF THE RAMP AND TURNING SPACE DOES NOT EXCEED TWO PERCENT. AT PEDESTRIAN STREET CROSSINGS WITHOUT YIELD OR STOP CONTROL AND AT MIDBLOCK PEDESTRIAN STREET CROSSINGS, THE CROSS SLOPE MAY MATCH THE STREET OR HIGHWAY GRADE. FLATTEN THE GUTTER FLOWLINE THROUGH CURB RAMPs TO TWO PERCENT OR FLATTER WHEN NEEDED. WHEN THE PAVEMENT IS SAWCUT TO FLATTEN THE FLOWLINE, VARY THE WIDTH OF THE SAWCUT SO THAT THE PAVEMENT PATCH SMOOTHLY MATCHES THE EXISTING PAVEMENT.
- PROVIDE FLARED SIDES ON PERPENDICULAR CURB RAMPs, OR COMBINATION CURB RAMPs WHERE A PEDESTRIAN CIRCULATION PATH CROSSES THE CURB RAMP. THE FLARED SIDES ARE PART OF THE PEDESTRIAN CIRCULATION PATH, BUT ARE NOT PART OF THE PEDESTRIAN ACCESS ROUTE. THE SLOPE OF THE FLARED SIDES IS MEASURED PARALLEL TO THE CURB LINE. FLARED SIDES ARE NOT NEEDED OR MAY BE STEEPER WHEN THE PEDESTRIAN CIRCULATION PATH DOES NOT CROSS THE CURB RAMP.
- THE PEDESTRIAN CIRCULATION PATH IS A PREPARED SURFACE PROVIDED FOR PEDESTRIAN TRAVEL IN THE PUBLIC RIGHT-OF-WAY. THE PEDESTRIAN ACCESS ROUTE IS A CONTINUOUS AND UNOBSTRUCTED PATH OF TRAVEL PROVIDED FOR PEDESTRIANS WITH DISABILITIES WITHIN OR COINCIDING WITH A PEDESTRIAN CIRCULATION PATH.
- ENSURE THAT GRADE BREAKS ARE PERPENDICULAR TO THE DIRECTION OF THE RAMP RUN AND ARE FLUSH. DO NOT CREATE GRADE BREAKS ON THE SURFACE OF RAMP RUNS AND TURNING SPACES.
- ENSURE THAT THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE FOOT OF CURB RAMPs RUNS DOES NOT EXCEED FIVE PERCENT.
- WHERE PRACTICAL, PLACE UTILITY COVERS, VAULT FRAMES, AND GRATINGS OUTSIDE RAMP RUNS, TURNING SPACES, OR GUTTER AREAS. LOCATE CATCH BASINS AND INLETS OUTSIDE OF RAMP RUNS.
- DETECTABLE WARNING SURFACES CONSIST OF TRUNCATED DOMES ALIGNED IN A SQUARE OR RADIAL GRID PATTERN. PROVIDE DETECTABLE WARNING SURFACES THAT CONTRAST VISUALLY WITH ADJACENT GUTTER, HIGHWAY, OR PEDESTRIAN ACCESS ROUTE SURFACE, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. ENSURE THAT THE DETECTABLE WARNING SURFACE EXTENDS THE FULL WIDTH OF THE RAMP RUN (EXCLUDING FLARED SIDES) OR TURNING SPACE.
PERPENDICULAR AND COMBINATION CURB RAMPs:
WHERE THE ENDS OF THE BOTTOM GRADE BREAK ARE IN FRONT OF THE BACK OF CURB, PLACE THE DETECTABLE WARNING SURFACE AT THE BACK OF CURB.
WHERE THE ENDS OF THE BOTTOM GRADE BREAK ARE BEHIND THE BACK OF CURB, PLACE THE DETECTABLE WARNING SURFACE ON THE RAMP RUN WITHIN ONE DOME SPACING OF THE BOTTOM GRADE BREAK AND WITHIN 5' OF THE BACK OF CURB.
PARALLEL CURB RAMP:
PLACE DETECTABLE WARNING SURFACE ON THE TURNING SPACE AT THE BACK OF CURB.
- USE A BOND PREVENTATIVE BETWEEN THE CURB RAMP OR SIDEWALK AND CURB WHEN CONSTRUCTED SEPARATELY AND PLACED ADJACENT TO EACH OTHER.
- ALIGN ALTERNATING CURB AND SIDEWALK JOINTS. CONSTRUCT JOINTS APPROXIMATELY 1/8" WIDE AND 3/4" IN DEPTH.
- DRAWING NOT TO SCALE.

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	09-93	MSM	6	07-03	MSM	11	07-10	JAW
2	12-95	MSM	7	12-04	MSM	12	09-11	TEM
3	06-98	MSM	8	06-05	MSM	13	05-15	RDL
4	08-01	MSM	9	05-06	MSM			
5	10-02	MSM	10	05-07	MSM			

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME: 614-3_0615.dgn
DRAWING DATE: JUNE, 1990

IDAHO
TRANSPORTATION
DEPARTMENT



BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN

DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING

CURB RAMPs

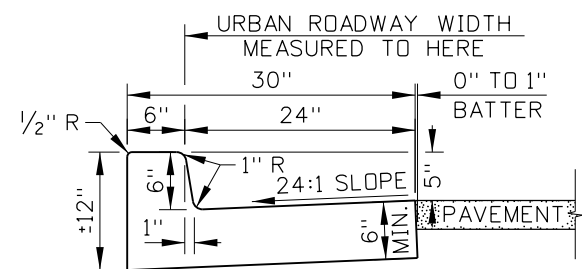
ORIGINAL STORED
AT: ITD,
Headquarters
3311 West State
Boise, Idaho

English

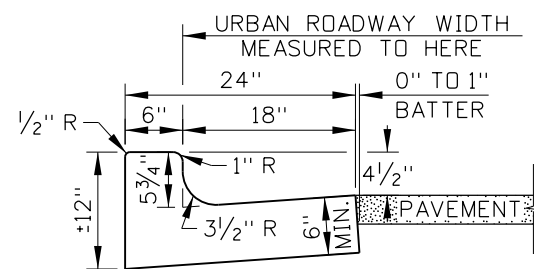
STANDARD DRAWING NO.
614-3

SHEET 4 OF 4

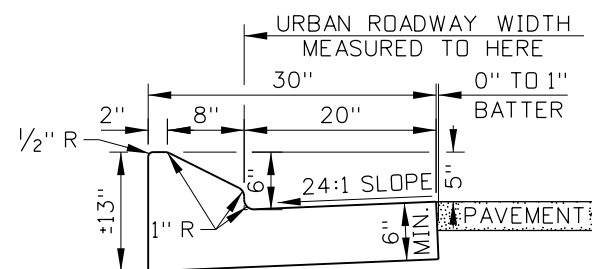
PROFESSIONAL ENGINEER
STATE OF IDAHO
13683
RYAN D. LANCASTER



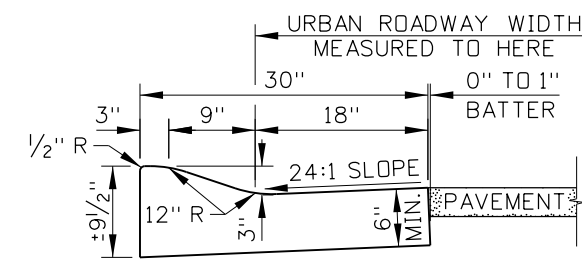
CURB AND GUTTER TYPE 1



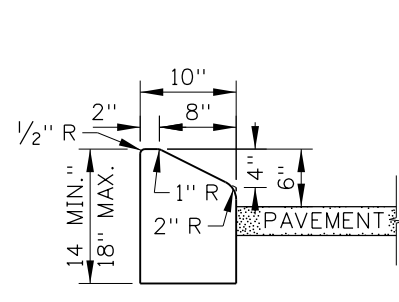
CURB AND GUTTER TYPE 2
(SEE NOTE NO. 4)



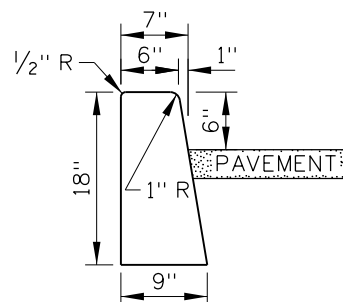
CURB AND GUTTER TYPE 3



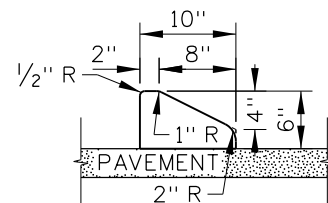
CURB AND GUTTER TYPE 4



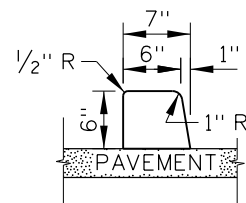
CURB TYPE 1



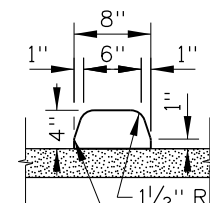
CURB TYPE 2



CURB TYPE 3
(SEE NOTE NO. 3)



CURB TYPE 4
(SEE NOTE NO. 3)



CURB TYPE 5
(SEE NOTE NO. 3)

NOTES

- TRANSITION BETWEEN DIFFERENT TYPES OVER 10 FEET.
- PROVIDE 4 INCHES OF AGGREGATE BASE UNDER CURB AND GUTTER, CURB, OR GUTTER UNLESS THE CURB IS PLACED ON PAVEMENT.
- PORTLAND CEMENT CONCRETE CURB OR TRAFFIC SEPARATOR ON ASPHALT CONCRETE PAVEMENT:

PROVIDE A KEY IN THE PAVEMENT AT THE CENTERLINE OF THE CURB OR TRAFFIC SEPARATOR. SEE THE KEY DETAIL.

CONCRETE CURBS OR TRAFFIC SEPARATORS MAY BE PINNED TO THE PAVEMENT STRUCTURE IN LIEU OF THE KEY. DRILL THE PAVEMENT AND PLACE PINS BEFORE THE CURB OR TRAFFIC SEPARATOR IS CONSTRUCTED. SEE THE PIN DETAIL.

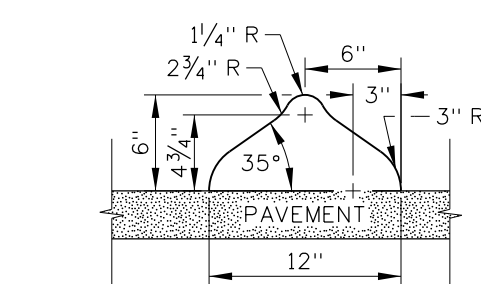
PORTLAND CEMENT CONCRETE CURB OR TRAFFIC SEPARATOR ON PORTLAND CEMENT CONCRETE PAVEMENT:

USE AN EPOXY BONDING AGENT. NO KEY IS NEEDED.

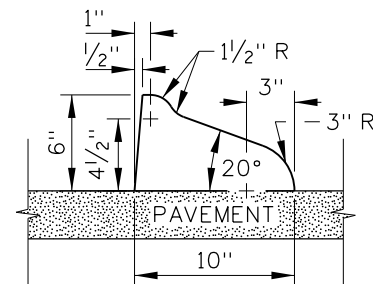
ASPHALT CONCRETE CURB OR TRAFFIC SEPARATOR ON ASPHALT CONCRETE PAVEMENT:

NO KEY IS NEEDED. ENSURE THAT THE CURB IS BONDED TO THE PAVEMENT.

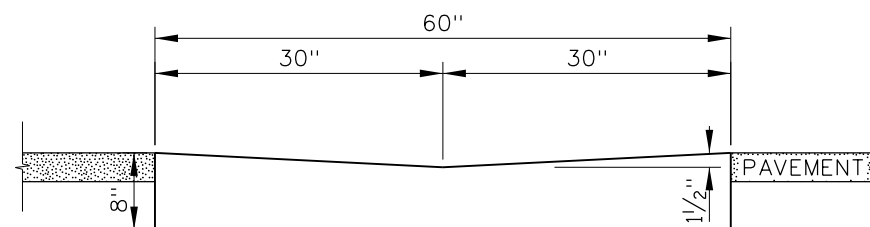
- ENSURE THAT THE GUTTER SLOPE DOES NOT EXCEED 5 PERCENT AT CURB RAMPS.
- TAPER THE LAST 6 FEET OF CURB AND GUTTER TYPES 1, 2, 3, AND 4 AND CURB TYPES 1 AND 2 DOWN TO A 1 INCH HEIGHT. TAPER CURB TYPES 3, 4, AND 5 AND TRAFFIC SEPARATORS TYPES 1 AND 2 DOWN TO A 1 INCH HEIGHT AT A 1:1 SLOPE.
- DRAWING NOT TO SCALE.



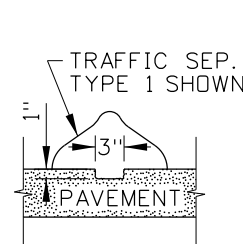
TRAFFIC SEPARATOR TYPE 1
(SEE NOTE NO. 3)



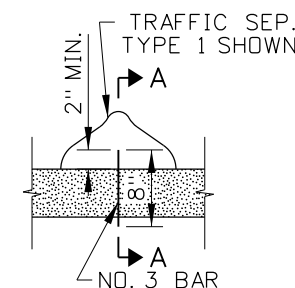
TRAFFIC SEPARATOR TYPE 2
(SEE NOTE NO. 3)



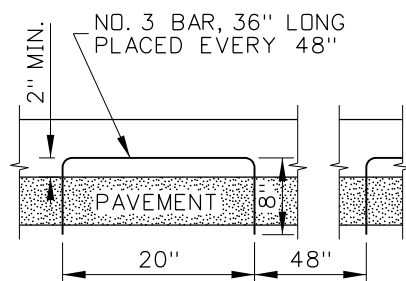
GUTTER TYPE 1



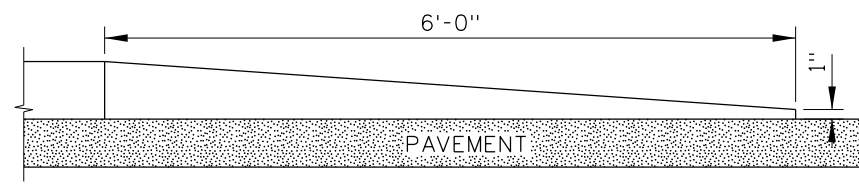
KEY DETAIL
(SEE NOTE NO. 3)



PIN DETAIL
(SEE NOTE NO. 3)

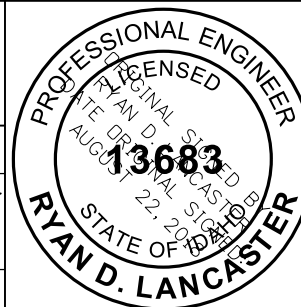


SECTION A-A



CURB TERMINUS DETAIL
(SEE NOTE NO. 5)

ORIGINAL STORED
AT: ITD,
Headquarters
3311 West State
Boise, Idaho



REVISIONS							
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE
1	02-76		6	12-04	MSM	11	07-18
2	12-90	GB	7	06-05	MSM		
3	09-93	MSM	8	07-10	JAW		
4	12-94	MSM	9	11-14	RDL		
5	12-01	MSM	10	06-17	RDL		

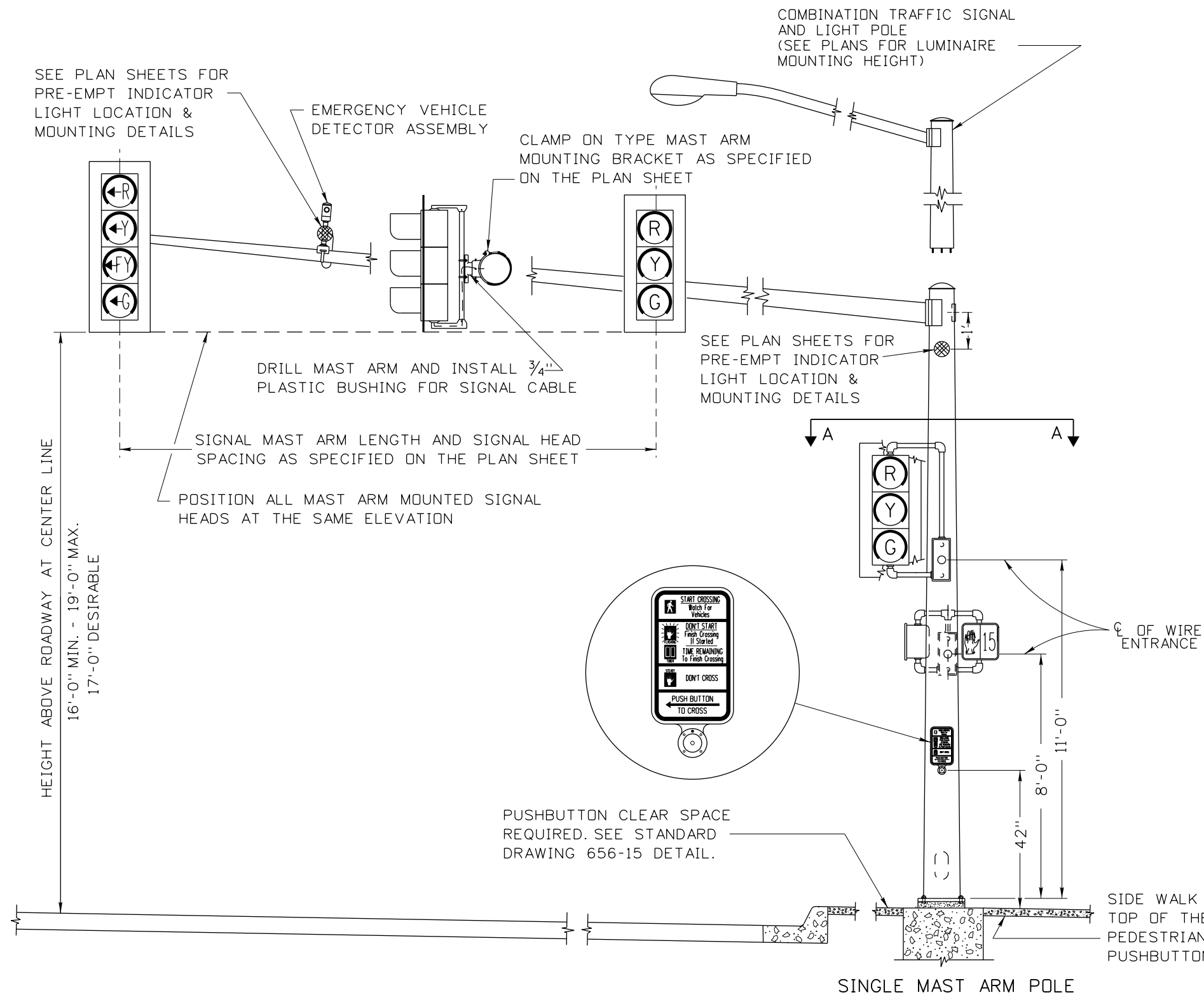
SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME: 615-1_0818.dgn
DRAWING DATE: APRIL, 1961

IDAHO TRANSPORTATION DEPARTMENT
BOISE IDAHO

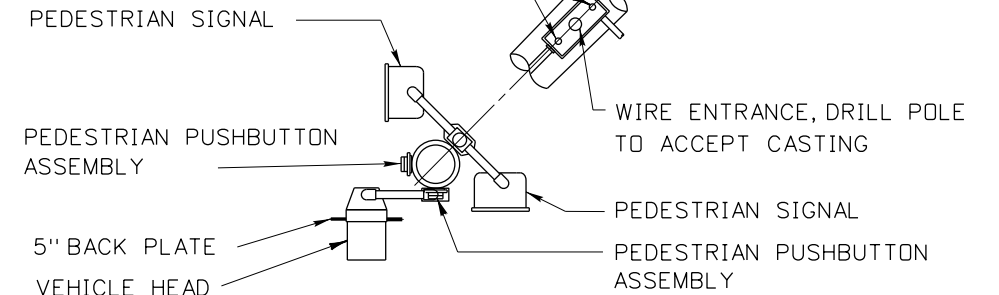
ORIGINAL SIGNED BY: KEVIN SABLAN DESIGN/TRAFFIC SERVICES ENGINEER
--

STANDARD DRAWING
CURB AND GUTTER

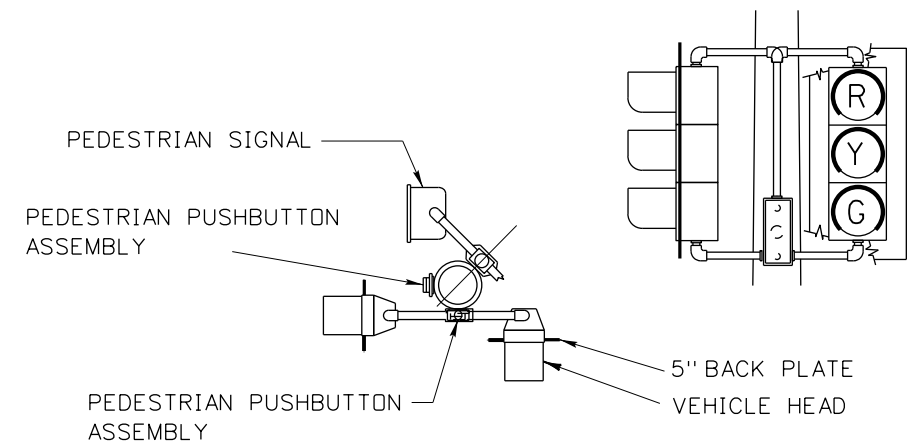
English
STANDARD DRAWING NO. 615-1
SHEET 1 OF 1



DRILL AND TAP POLE FOR 1/2" CAP SCREWS TO FIT TERMINAL COMPARTMENT MOUNTING BRACKET. (TYPICAL POLE MOUNTING)



VIEW A-A



POLE MOUNTED HEADS FOR DUAL VEHICLE SIGNAL HEAD INSTALLATION

PEDESTRIAN PUSHBUTTON MOUNTING

- PEDESTRIAN PUSHBUTTON ASSEMBLIES ARE TO BE MOUNTED AS PER MANUFACTURER'S INSTRUCTIONS.

ORIGINAL STORED
AT: ITD,
Headquarters
3311 West State
Boise, Idaho

ORIGINAL SIGNED BY:
ROBERT KOEBERLEIN
DATE ORIGINAL SIGNED:
APRIL 25, 2014

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	12-94	HEB	6	04-14	HEB			
2	12-01	NQB						
3	07-05	HEB						
4	08-06	HEB						
5	07-10	HEB						

SCALES SHOWN
ARE FOR 11" X 17"
PRINTS ONLY

CADD FILE NAME:
656-1_0414.dgn

DRAWING DATE:
AUGUST, 1994

**IDAHO
TRANSPORTATION
DEPARTMENT**

BOISE IDAHO

ORIGINAL SIGNED BY: CARL D. MAIN
DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING

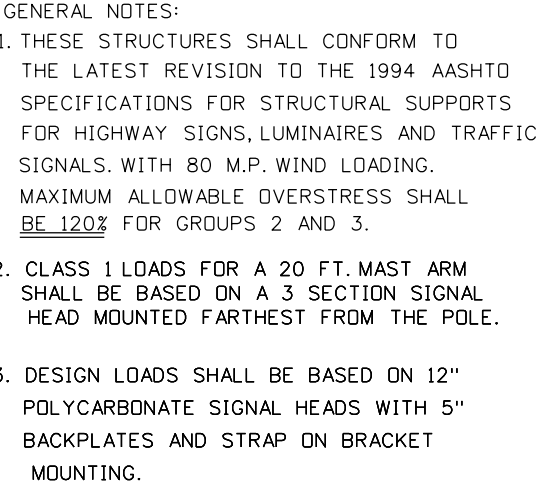
**MAST ARM
TRAFFIC SIGNAL POLES**

REQUIRES STD. DWG. 656-15

English

STANDARD DRAWING NO.
656-1

SHEET 1 OF 1



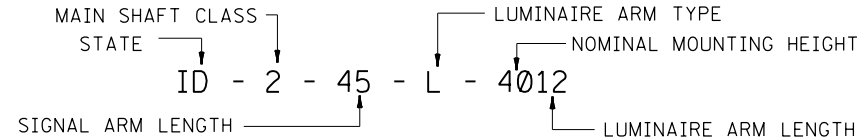
SIGNAL POLE	
MAIN SHAFT	SIGNAL ARM LENGTH
CLASS 1	20'
	25'
	30'
	35'
CLASS 2	40'
	45'
CLASS 3	50'
	55'

LUMINAIRE ARM		
ARM TYPE	MOUNTING HEIGHT	ARM LENGTH
J OR L	30' 40'	6'
		8'
		10'
		12'
		15'

* NOTE:
THE FOLLOWING IDENTIFICATION INFORMATION
SHALL BE PERMANENTLY SHOWN ON
APPROPRIATE COMPONENTS:

MANUFACTURER AND PRODUCTION DATE,
MAIN SHAFT - (CLASS),
SIGNAL ARM - (LENGTH),
LUMINAIRE EXTENSION - (TYPE & M.H.)
LUMINAIRE ARM - (LENGTH),

POLE ASSEMBLY IDENTIFICATION PROCEDURE



REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
NO.	DATE	BY	DESCRIPTION	DESIGN CHECKED	
1	09-07	HEB	ADDED TERMINAL COMPARTMENT		
2	09-09	HEB	REMOVED 20' LUMINAIRE MAST ARM	DETAILED	CADD FILE NAME td14a&b_0909.dgn
				DRAWING CHECKED	DRAWING DATE: MARCH, 1997

IDAHO TRANSPORTATION DEPARTMENT

DISTRICT NINE TRAFFIC

PROJECT NO.	td-14a
	SINGLE MASTARM POLES: CLASS 1, 2, AND 3 td14b IS REQUIRED SEE td15a FOR DUAL MASTARM POLES STANDARD MASTARM TRAFFIC SIGNAL POLES

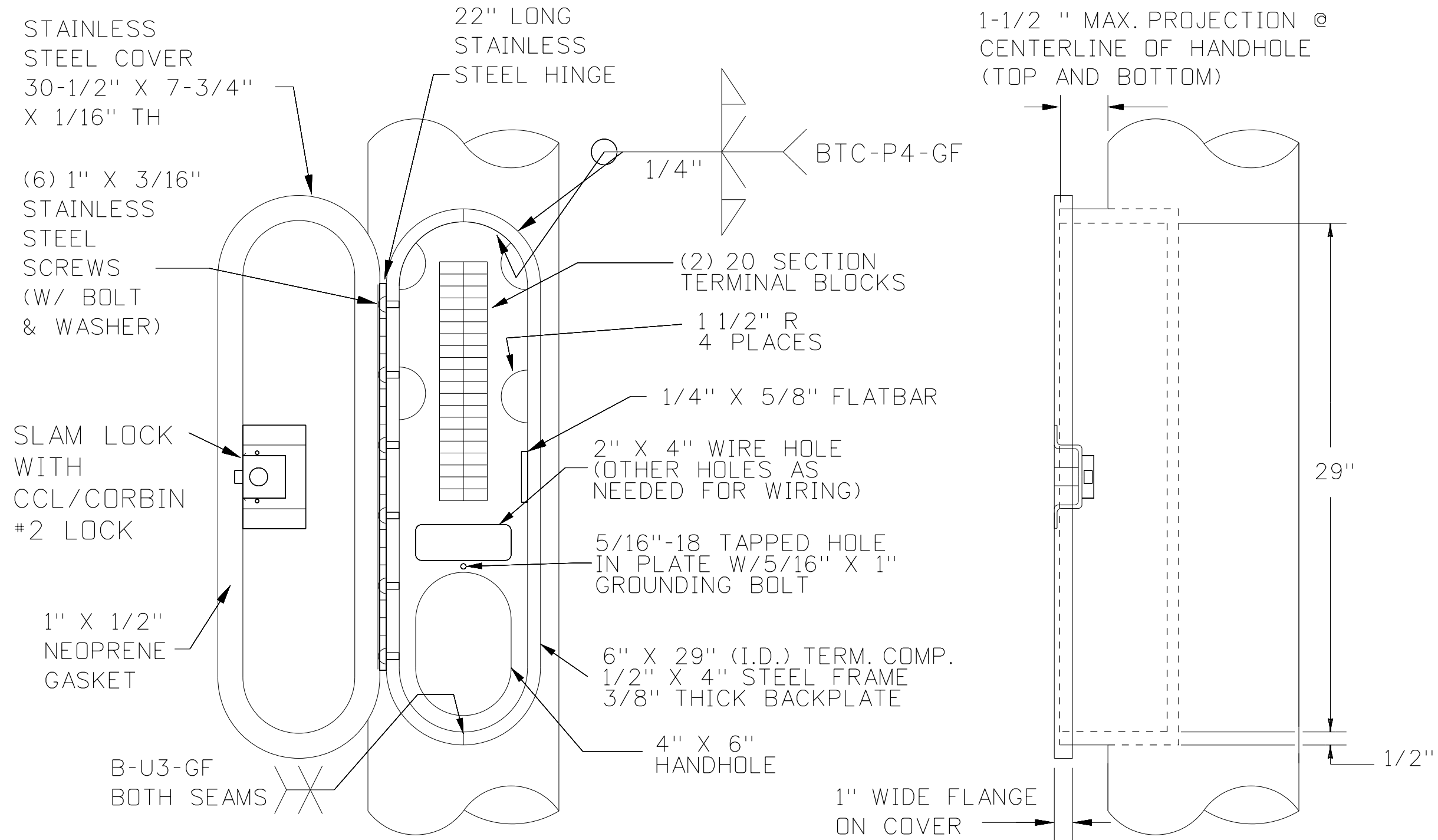
English

COUNTY

KEY NUMBER

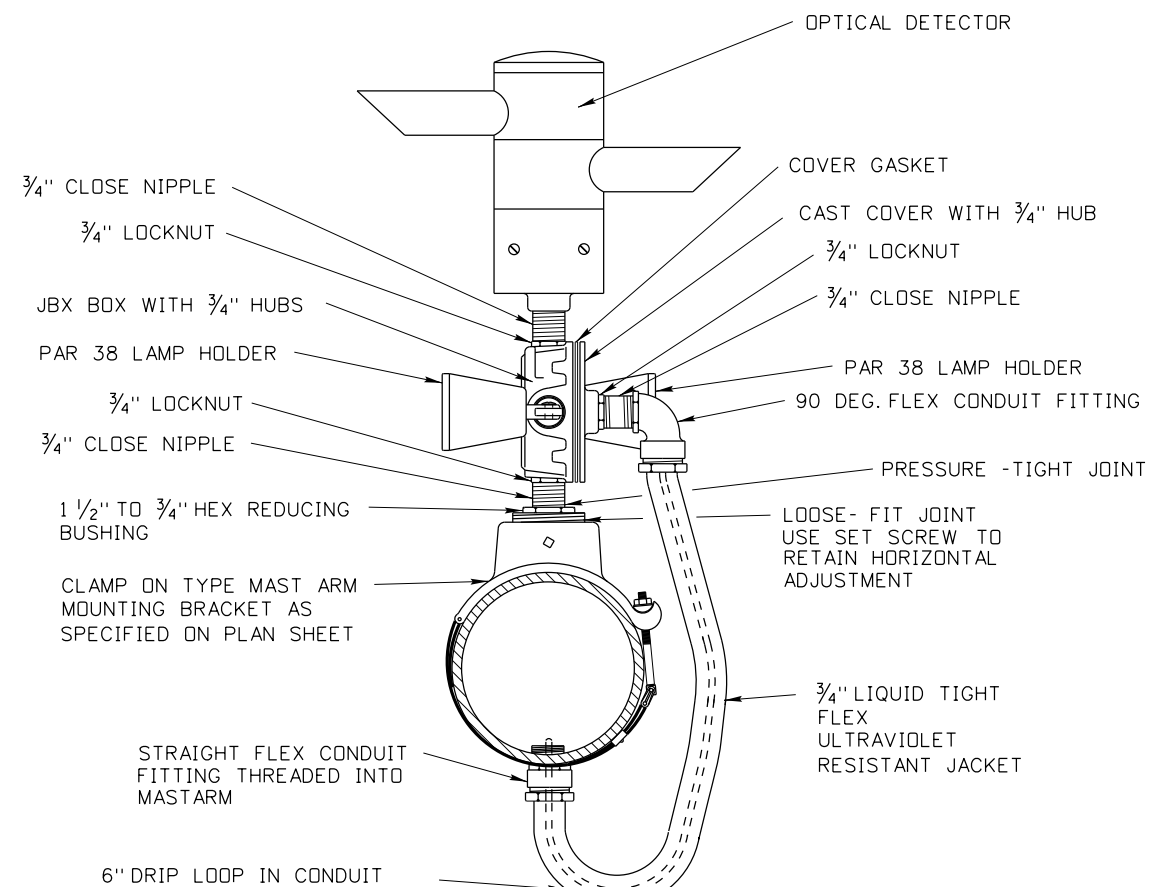
SHEET OF

NOT
APPROVED
PRELIMINARY
FOR
CONSTRUCTION

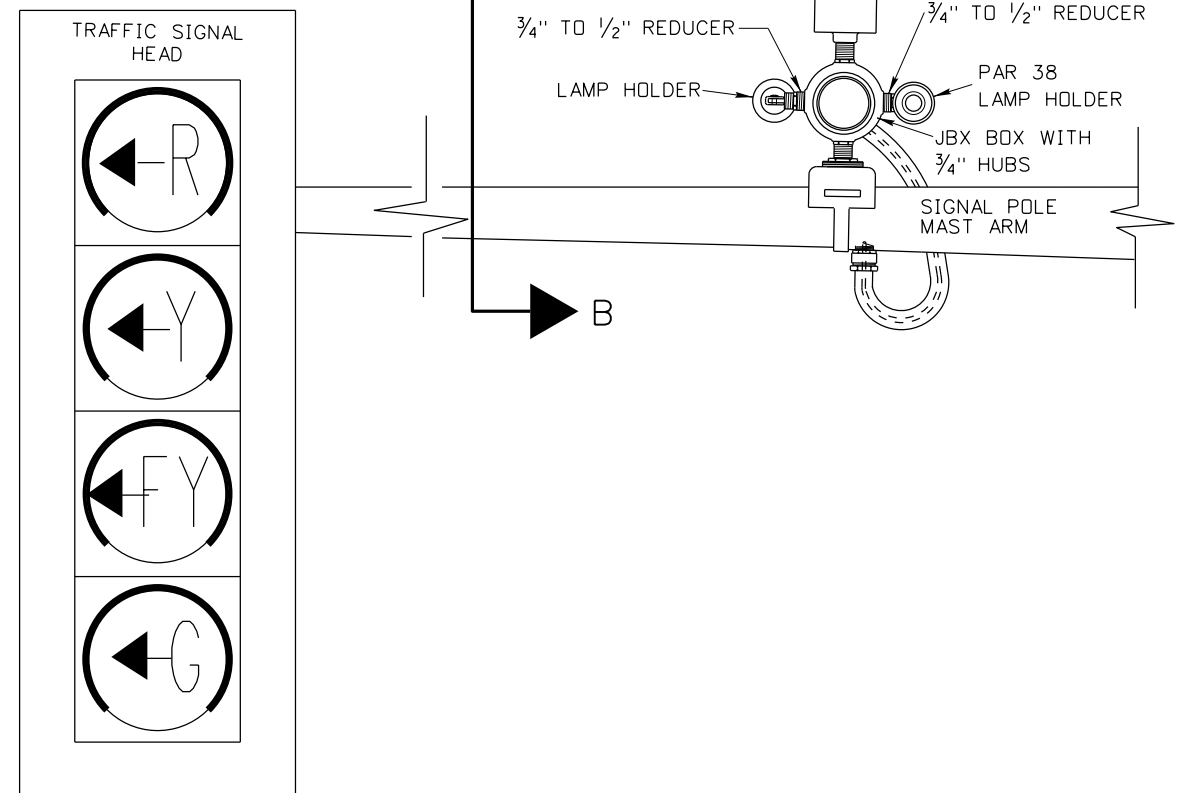


RECESSED TERMINAL COMPARTMENT DETAIL

REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY CADD FILE NAME s22td14a&b_0909.dgn DRAWING DATE: SEPTEMBER, 2007	IDAHO TRANSPORTATION DEPARTMENT DISTRICT NINE TRAFFIC	PROJECT NO.	td-14b	English COUNTY KEY NUMBER SHEET OF	NOT APPROVED PRELIMINARY FOR CONSTRUCTION
NO.	DATE	BY	DESCRIPTION	DESIGN CHECKED				MAIN SHAFT TERMINAL COMPARTMENT		
				DETAILED						
				DRAWING CHECKED						



USE ONE M-138 CABLE FOR DUAL CHANNEL
OPTICAL DETECTOR (GTT 722) AND ONE
IMSA 3 CONDUCTOR CABLE FOR DUAL
CALL BACK INDICATOR LIGHTS



REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	02-11	HEB	4 SECTION HEAD & CORRECTED LEVELS

DESIGNED
DESIGN CHECKED
DETAILED
DRAWING CHECKED

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME td32a_0912.dgn
DRAWING DATE:

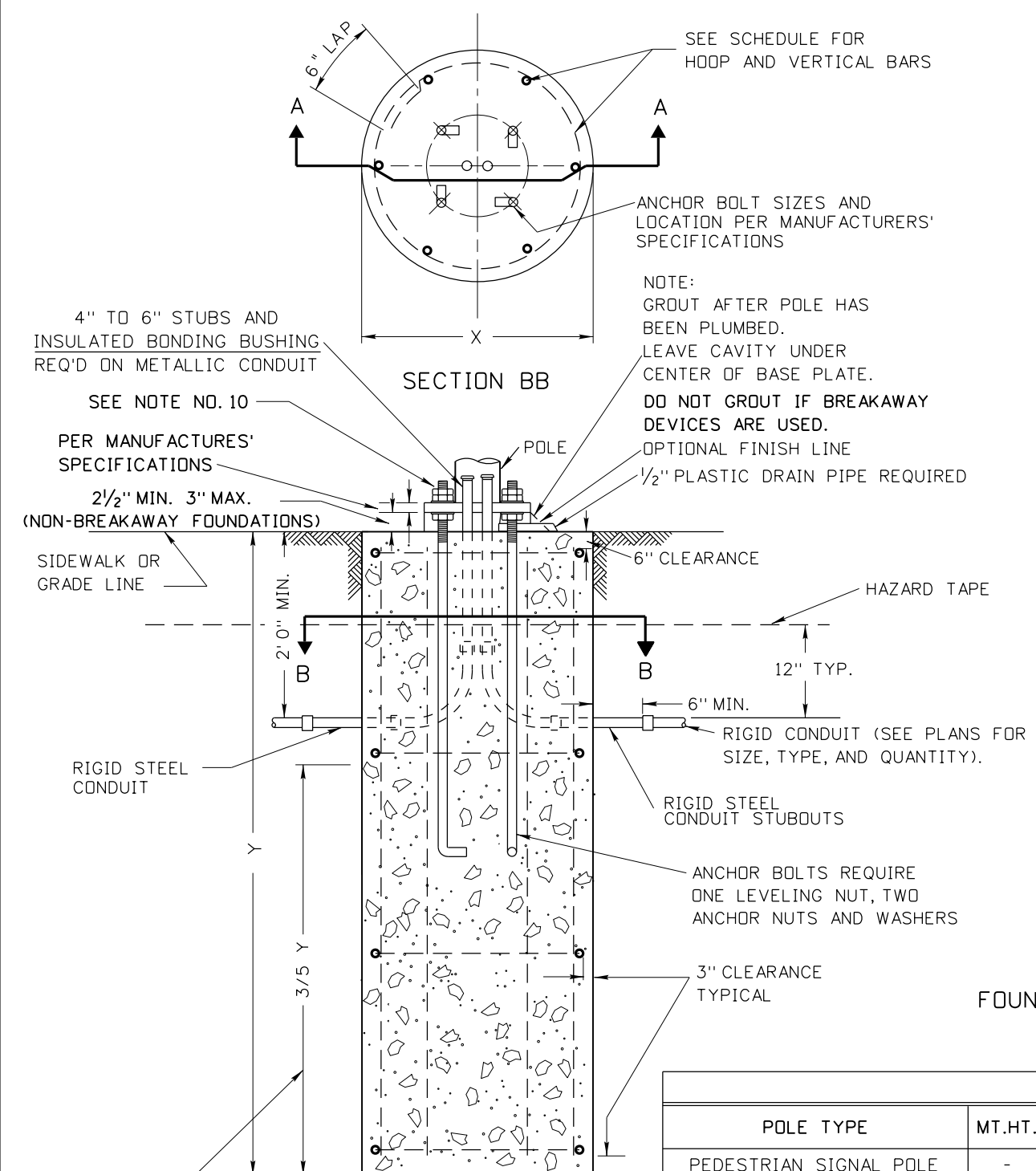
IDAHO TRANSPORTATION DEPARTMENT	
DISTRICT XXXX TRAFFIC	

PROJECT NO.	

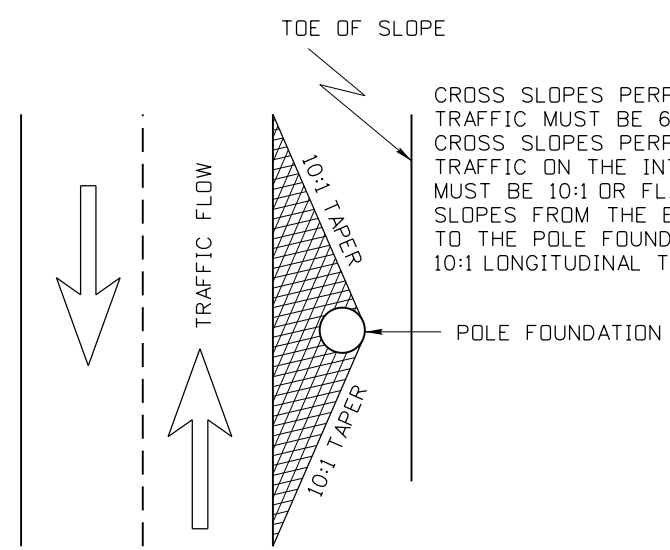
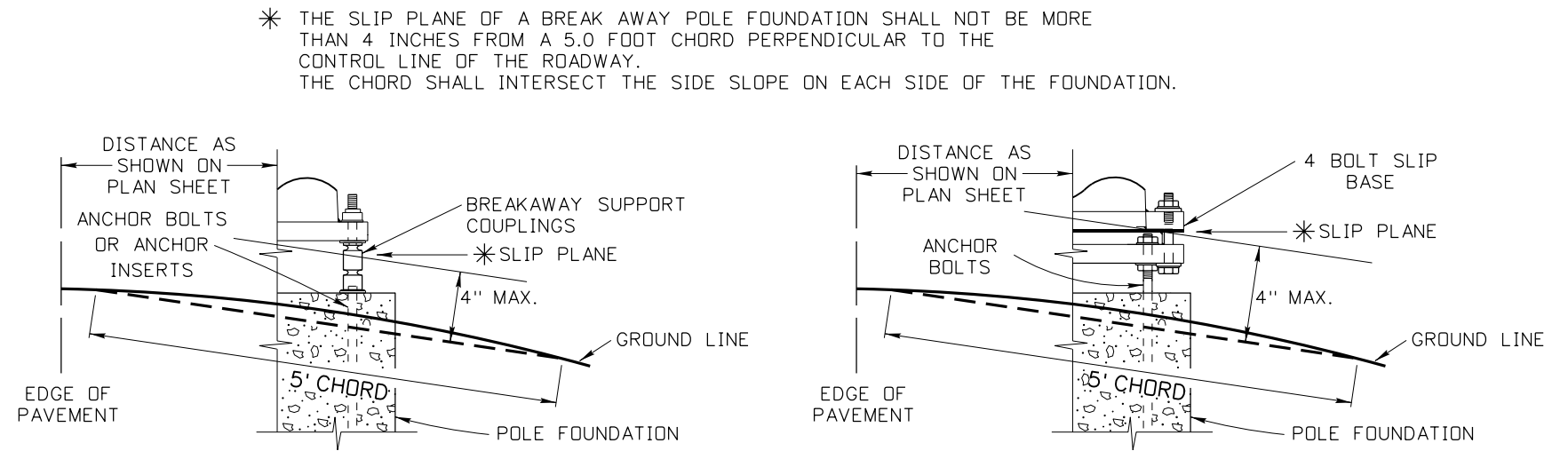
td32a
DUAL CHANNEL DETECTOR AND CALL BACK LIGHT

<i>English</i>	
COUNTY	
KEY NUMBER	
SHEET	OF

NOT
APPROVED
PRELIMINARY
FOR
CONSTRUCTION



THE LOWER 3/5 OF THE FOUNDATION TO BE PLACED AGAINST UNDISTURBED SOIL UNLESS OTHERWISE APPROVED BY THE ENGINEER. THE UPPER 2/5 OF THE FOUNDATION MAY BE FORMED AS NEEDED.



POLE FOUNDATION SCHEDULE													
POLE TYPE	MT.HT.	MASTARM LENGTH	FOUNDATION TYPE	X	Y	HOOPS			VERTICAL RODS			CU. YDS. CONCRETE	
						NO.	SIZE	LIN.FT.	NO.	SIZE	LIN.FT.		
PEDESTRIAN SIGNAL POLE	-	-	A	2'-0"	5'-0"	4	#4	20'-10"	6	#4	25'-6"	.6	
LIGHT POLE	30'	ALL	A	2'-0"	5'-0"	4	#4	20'-10"	6	#4	25'-6"	.6	
LIGHT POLE	35'	ALL	B	2'-6"	7'-0"	4	#4	27'-2"	6	#6	37'-6"	1.3	
LIGHT POLE	40'-50'	ALL	C	3'-0"	8'-0"	5	#4	41'-10"	8	#6	58'-0"	2.1	
SIGNAL POLE		20' - 45'	D	3'-0"	9'-0"	5	#4	41'-10"	8	#6	66'-0"	2.4	
PEDESTRIAN PUSHBUTTON POLE	4'-0"	-	E	1'-6"	2'-6"	-	-	-	-	-	-	.2	
DUAL MAST ARM SIGNAL POLE	-	ALL	F	3'-0"	12'-0"	8	#5	66'-10"	12	#6	135'-0"	3.1	
SIGNAL POLE	-	50' - 55'	F	3'-0"	12'-0"	8	#5	66'-10"	12	#6	135'-0"	3.1	

- NOTES:
- THE FOUNDATIONS SHALL BE LOCATED AS INDICATED ON THE PROJECT PLAN SHEETS.
 - FOUNDATION REBAR CAGES MAY BE WELDED IF THE STEEL REBAR CONFORMS TO ASTM A706/A706M AND ALL WELDING CONFORMS TO ANSI/AWS D1.4 (STRUCTURAL WELDING CODE - REINFORCING STEEL).
 - REBAR IN POLE FOUNDATIONS SHALL BE 60 KSI STEEL.
 - STEEL TEMPLATE REQUIRED FOR ANCHOR BOLT PLACEMENT.
 - SPARE STUBOUTS WHEN SHOWN ON PLAN SHEETS SHALL BE TERMINATED WITH A STEEL COUPLING AND FOAM PLUG AT BOTH ENDS.
 - CLASS 40 CONCRETE SHALL BE USED IN POLE FOUNDATIONS.
 - FOUNDATION CONCRETE SHALL ACHIEVE 100% STRENGTH AND CURE FOR A MINIMUM OF 7 DAYS BEFORE ANY LOADING IS APPLIED.
 - FILLER JOINT MATERIAL WILL BE PLACED AROUND POLE FOUNDATION WHEN POLE FOUNDATION IS IN CONTACT WITH SIDEWALK.
 - ELEVATION OF TOP OF POLE FOUNDATION SHALL MATCH THE ADJACENT PAVEMENT EDGE OR SIDEWALK ELEVATION.
 - ANCHOR BASE ASSEMBLIES SHALL BE INSTALLED AND TIGHTENED IN ACCORDANCE WITH SUBSECTION 619.03 OF THE ITD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE SUPPLEMENTAL SPECIFICATIONS.

REVISIONS							
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE
1	08-96	HEB					
2	07-03	HEB					
3	05-05	HEB					
4	07-10	EBG					
5	04-14	HEB					

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: i7c10414.dgn

DRAWING DATE: DECEMBER, 1994

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: CARL D. MAIN

DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING

MAST ARM SIGNAL POLE, LIGHTING POLE AND PEDESTRIAN POLE FOUNDATION DETAILS

REQUIRES STD. DWG. I-7-C-2

English

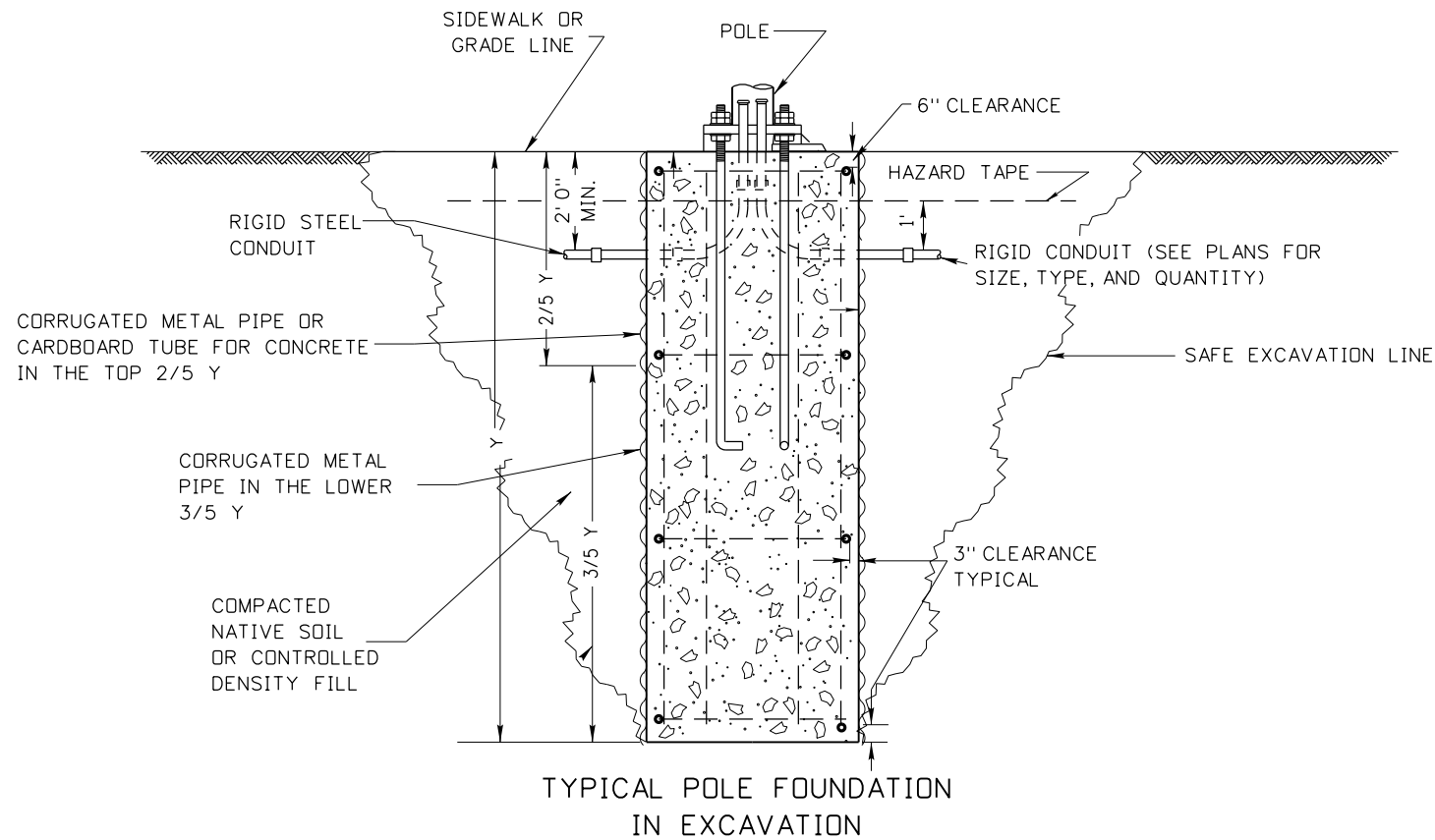
STANDARD DRAWING NO. I-7-C-1

SHEET 1 OF 1

ORIGINAL STORED AT: ITD, Headquarters 3311 West State Boise, Idaho

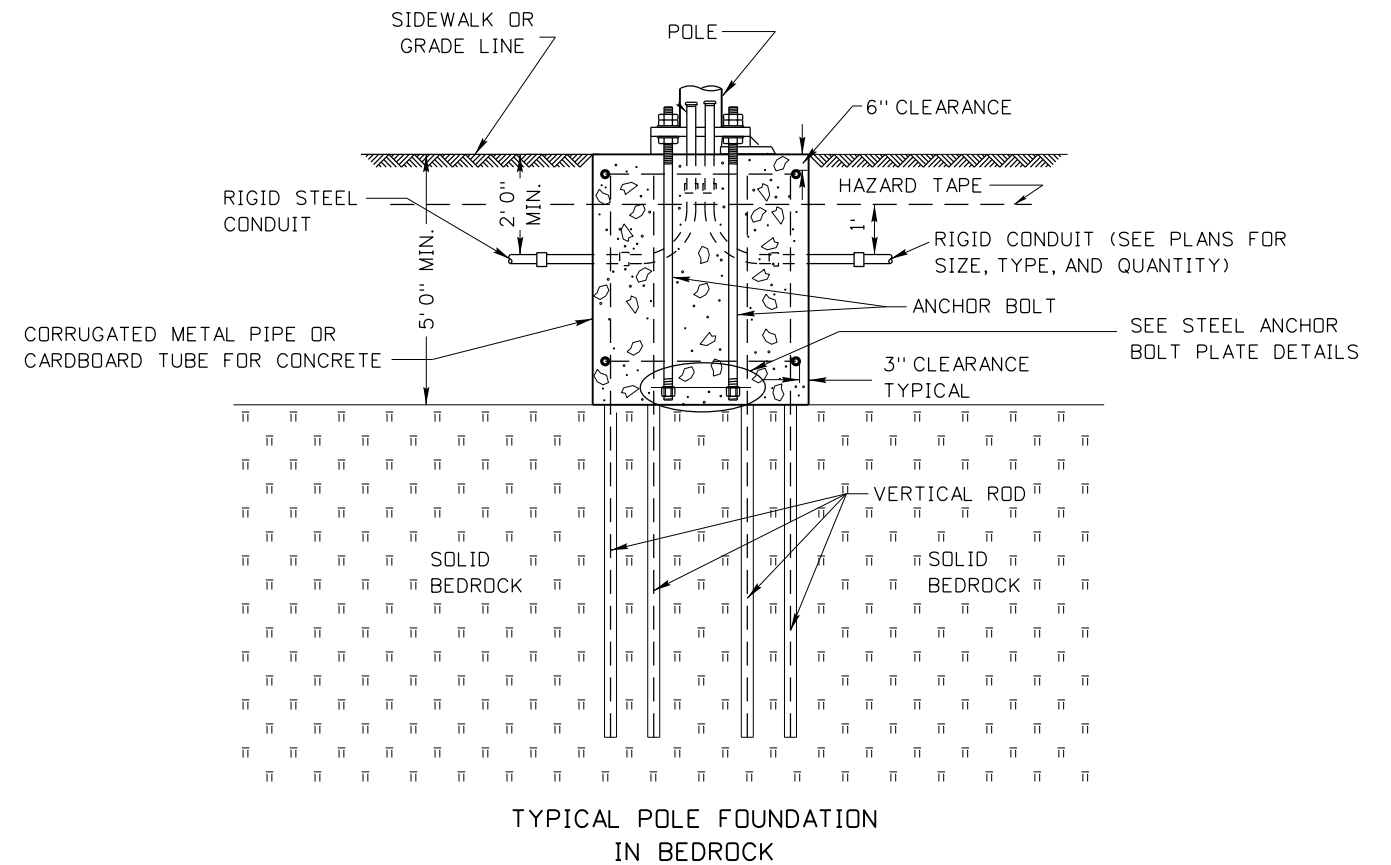
ORIGINAL SIGNED BY: TRI BUJ

DATE ORIGINAL SIGNED: APRIL 28, 2014



EXCAVATION NOTES:

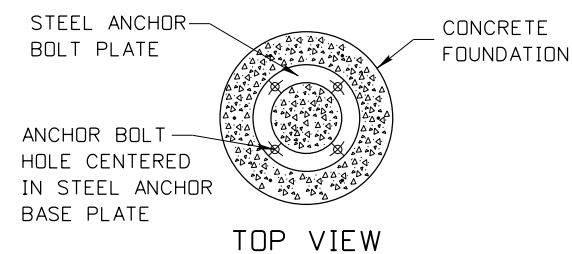
1. IF CORRUGATED METAL PIPE IS USED UP TO SIDEWALK OR GRADE LINE, CUT OUT HOLE FOR THE CONDUITS WILL BE EQUAL TO THE DIAMETER OF CONDUIT OR CONDUITS PLUS ONE INCH.
2. WHEN NATIVE SOIL IS USED FOR BACKFILL, IT SHALL BE COMPACTED IN ACCORDANCE WITH SUBSECTION 210.03 OF THE IDAHO STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND SUPPLEMENTAL SPECIFICATIONS.
3. IF CONTROL DENSITY FILL IS USED FOR BACK FILL, IT SHALL HAVE A COMPRESSIVE STRENGTH OF 100 PSI TO 300 PSI.
4. DRAWING NOT TO SCALE.



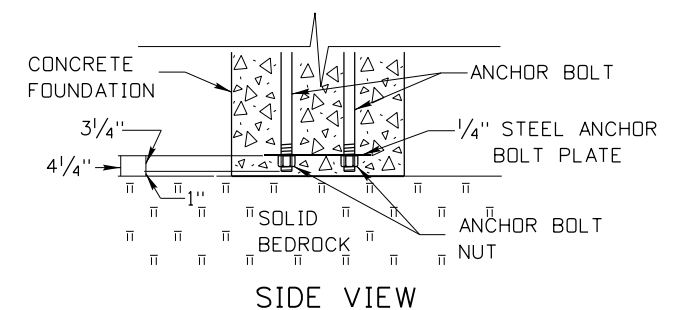
SOLID BEDROCK NOTES:

1. IF DEPTH TO BEDROCK IS LESS THAN 5', NOTIFY THE ENGINEER AND REDESIGN OF THE FOUNDATION MAY BE REQUIRED.
2. SOCKET ALL VERTICAL RODS FULL LENGTH AS SHOWN ON STANDARD DRAWING I-7-C-1 IN BEDROCK. DIAMETERS OF DRILLED HOLES FOR VERTICAL RODS SHALL BE AT LEAST 2 INCHES. FILL DRILLED HOLES WITH GROUT, 705.02, TYPE B, CLASS 1.
3. EXCAVATION NOTES APPLY TO THIS APPLICATION.
4. DRAWING NOT TO SCALE.

STEEL ANCHOR BOLT PLATE DETAILS



ANCHOR BOLT PLATE SCHEDULE		
BOLT CIRCLE	OUTSIDE DIAMETER	INSIDE DIAMETER
17 1/2"	21 1/4"	13 3/4"
18 1/2"	22 1/4"	14 3/4"
22"	26 1/4"	17 3/4"



SEE STANDARD DRAWING I-7-C-1 FOR DETAILS

NOT TO SCALE

ORIGINAL STORED
AT: ITD,
Headquarters
3311 West State
Boise, Idaho

ORIGINAL SIGNED BY:
TRI BUJ
DATE ORIGINAL SIGNED:
NOVEMBER 25, 2014

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	11-14	HEB						

SCALES SHOWN
ARE FOR 11" X 17"
PRINTS ONLY

CADD FILE NAME:
i7c21114.dgn

DRAWING DATE:
APRIL, 2014

**IDAHO
TRANSPORTATION
DEPARTMENT**

BOISE IDAHO

ORIGINAL SIGNED BY: RYAN D. LANCASTER

STANDARDS ENGINEER

STANDARD DRAWING

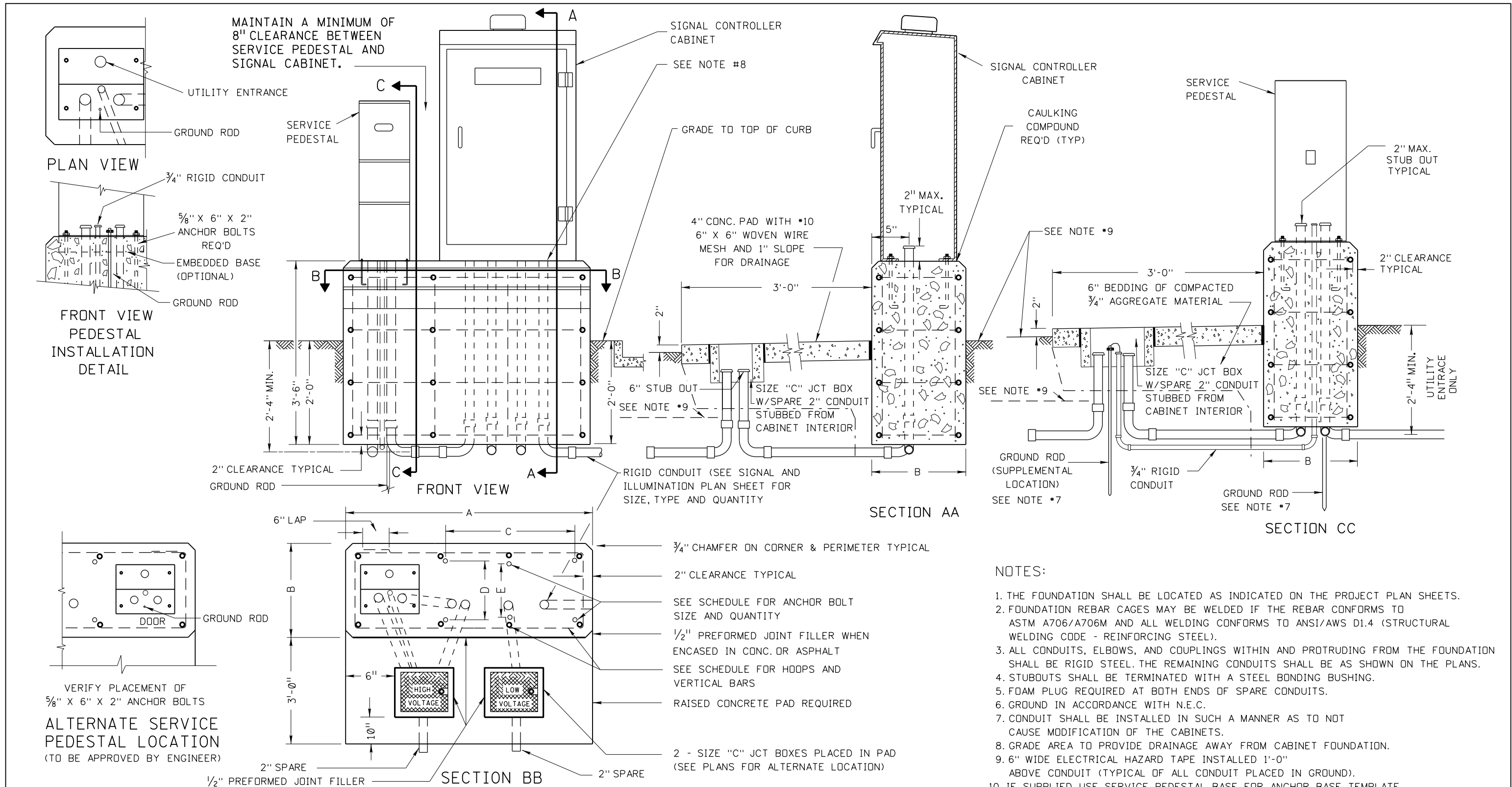
**MAST ARM SIGNAL POLE,
LIGHTING POLE AND PEDESTRIAN
POLE FOUNDATION DETAILS**

REQUIRES STD. DWG. I-7-C-1

English

STANDARD DRAWING NO.
I-7-C-2

SHEET 1 OF 1



- NOTES:
1. THE FOUNDATION SHALL BE LOCATED AS INDICATED ON THE PROJECT PLAN SHEETS.
 2. FOUNDATION REBAR CAGES MAY BE WELDED IF THE REBAR CONFORMS TO ASTM A706/A706M AND ALL WELDING CONFORMS TO ANSI/AWS D1.4 (STRUCTURAL WELDING CODE - REINFORCING STEEL).
 3. ALL CONDUITS, ELBOWS, AND COUPLINGS WITHIN AND PROTRUDING FROM THE FOUNDATION SHALL BE RIGID STEEL. THE REMAINING CONDUITS SHALL BE AS SHOWN ON THE PLANS.
 4. STUBOUTS SHALL BE TERMINATED WITH A STEEL BONDING BUSHING.
 5. FOAM PLUG REQUIRED AT BOTH ENDS OF SPARE CONDUITS.
 6. GROUND IN ACCORDANCE WITH N.E.C.
 7. CONDUIT SHALL BE INSTALLED IN SUCH A MANNER AS TO NOT CAUSE MODIFICATION OF THE CABINETS.
 8. GRADE AREA TO PROVIDE DRAINAGE AWAY FROM CABINET FOUNDATION.
 9. 6" WIDE ELECTRICAL HAZARD TAPE INSTALLED 1'-0" ABOVE CONDUIT (TYPICAL OF ALL CONDUIT PLACED IN GROUND).
 10. IF SUPPLIED, USE SERVICE PEDESTAL BASE FOR ANCHOR BASE TEMPLATE.
 11. NOT TO SCALE

FOUNDATION SCHEDULE														
CABINET AND SERVICE PEDESTAL														
CABINET TYPE	FOUNDATION TYPE	A	B	C	D	E	HOOPS			VERTICAL RODS			CU. YDS. CONC.	
							NO.	SIZE	LIN. FT.	NO.	SIZE	LIN. FT.	FOUNDATION	PAD
SIGNAL	M	5'-6"	1'-8"	—	—	1'-0"	4	#4	54'-0"	8	#4	25'-4"	1.2	.2
	P & R	6'-8"	2'-5"	3'-4 3/4"	1'-6 1/2"	—	4	#4	69'-4"	8	#4	25'-4"	2.1	.25

REVISIONS							
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE
1	08-96	NQB					
2	12-04	HEB					
3	05-05	HEB					
4	05-14	HEB					

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 656-5_0614.dgn

DRAWING DATE: DECEMBER, 1994

IDAHO
TRANSPORTATION
DEPARTMENT



BOISE IDAHO

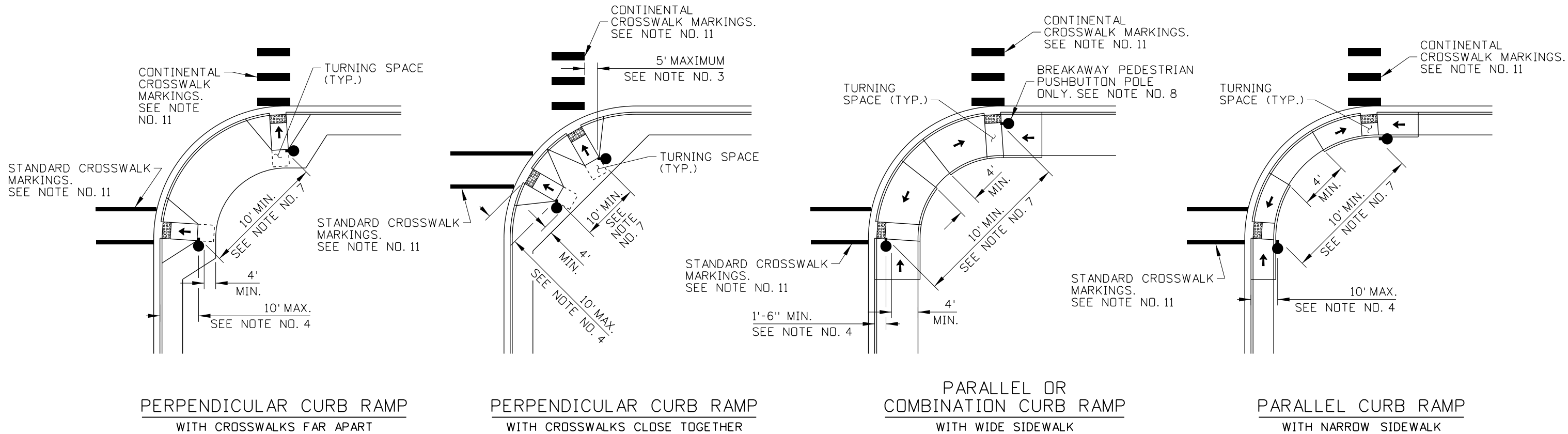
ORIGINAL SIGNED BY: CARL D. MAIN
DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING
SIGNAL CABINET &
SERVICE PEDESTAL
FOUNDATION DETAILS

English
STANDARD DRAWING NO.
656-5
SHEET 1 OF 1

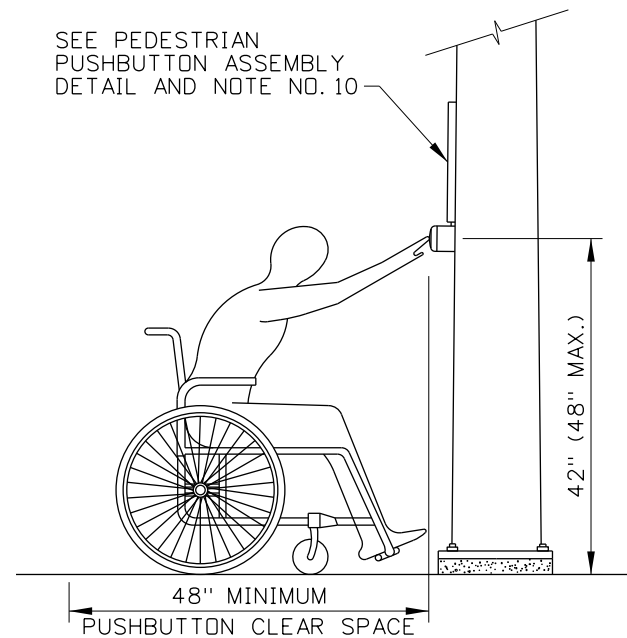
ORIGINAL STORED
AT: ITD,
Headquarters
3311 West State
Boise, Idaho

ORIGINAL SIGNED BY:
ROBERT KOEBERLEIN
DATE ORIGINAL SIGNED:
JUNE 19, 2014

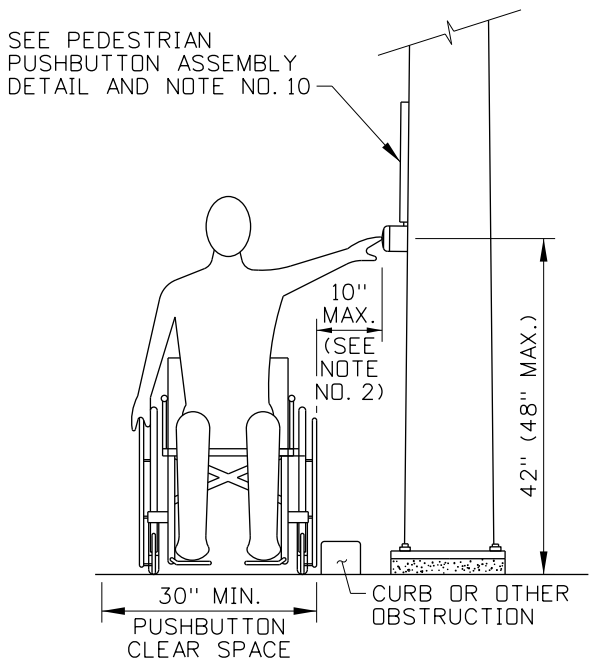


NOTES

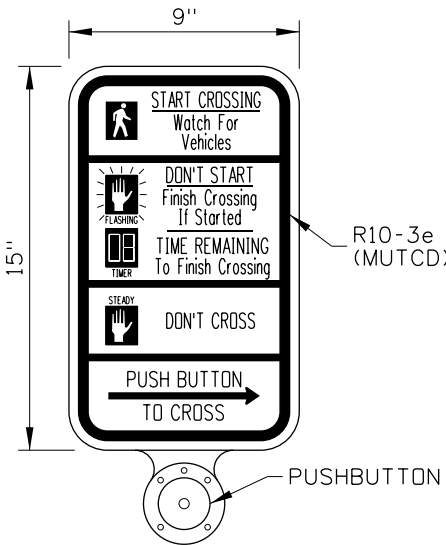
- FOUR TYPICAL CONFIGURATIONS ARE SHOWN. FOR OTHER CONFIGURATIONS, THE MAXIMUM AND MINIMUM DIMENSIONS SHOWN REMAIN APPLICABLE. WHERE CURB AND CURB RAMPS ARE NOT PRESENT, MEASURE FROM THE EDGE OF TRAVELED WAY.
- PROVIDE A PUSHBUTTON CLEAR SPACE, WITH 30" BY 48" MINIMUM DIMENSIONS, ADJACENT TO PEDESTRIAN PUSHBUTTONS. ENSURE THAT THE CLEAR SPACE SURFACE IS FIRM, STABLE, AND SLIP RESISTANT. POSITION THE CLEAR SPACE SO THE PUSHBUTTON CAN BE ACCESSED WITH EITHER A FORWARD OR PARALLEL APPROACH. AN OBSTRUCTION, UP TO 10" IN DEPTH, BETWEEN THE CLEAR SPACE AND THE PUSHBUTTON IS PERMITTED FOR A PARALLEL APPROACH. WHERE CURB RAMPS ARE USED, THE TURNING SPACE FOR THE CURB RAMP MAY DOUBLE AS THE CLEAR SPACE.
- PLACE PUSHBUTTON BETWEEN THE EDGE OF THE CROSSWALK LINE (EXTENDED) FARTEST FROM THE CENTER OF THE INTERSECTION AND THE SIDE OF A CURB RAMP (IF PRESENT), BUT NOT MORE THAN 5' FROM THE SAID CROSSWALK LINE.
- PLACE PUSHBUTTON BEHIND THE FACE OF CURB OR OUTSIDE THE EDGE OF TRAVELED WAY A MINIMUM DISTANCE OF 1'-6" AND A MAXIMUM DISTANCE OF 10'.
- ENSURE THAT THE FACE OF THE PUSHBUTTON IS PARALLEL TO THE CROSSWALK TO BE USED.
- MOUNT THE PUSHBUTTON 42" ABOVE THE CLEAR SPACE. THE MAXIMUM MOUNTING HEIGHT IS 48".
- PROVIDE A MINIMUM DISTANCE OF 10' BETWEEN PEDESTRIAN PUSHBUTTONS. WHERE THERE ARE PHYSICAL CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10' SEPARATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.
- PUSHBUTTONS MAY BE INSTALLED ON A SIGNAL POLE OR PEDESTRIAN PUSHBUTTON POLES. ENSURE THAT POLES WITHIN 10' OF THE FACE OF CURB OR EDGE OF TRAVELED WAY HAVE BREAKAWAY FEATURES.
- INSTALL ACCESSIBLE PEDESTRIAN SIGNALS WHEN RECOMMENDED BY AN ENGINEERING STUDY.
- USE MODULAR OR CAST PEDESTRIAN PUSHBUTTON ASSEMBLIES. DO NOT USE H FRAME PEDESTRIAN PUSHBUTTON ASSEMBLIES. USE THE R10-3e(MUTCD) SIGN ON THE PUSHBUTTON ASSEMBLY.
- CROSSWALK MARKINGS MAY VARY.
- DRAWINGS NOT TO SCALE.



FORWARD APPROACH
SEE NOTE NOS. 2 & 6



PARALLEL APPROACH
SEE NOTE NOS. 2 & 6



PEDESTRIAN PUSHBUTTON ASSEMBLY DETAIL
SEE NOTE NO. 10

REVISIONS							
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE

SCALES SHOWN
ARE FOR 11" X 17"
PRINTS ONLY

CADD FILE NAME:
656-15_0614.dgn

DRAWING DATE:
MAY, 2014

**IDAHO
TRANSPORTATION
DEPARTMENT**



BOISE IDAHO

ORIGINAL SIGNED BY: CARL D. MAIN
DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING

**PEDESTRIAN PUSHBUTTON
PLACEMENT**

English

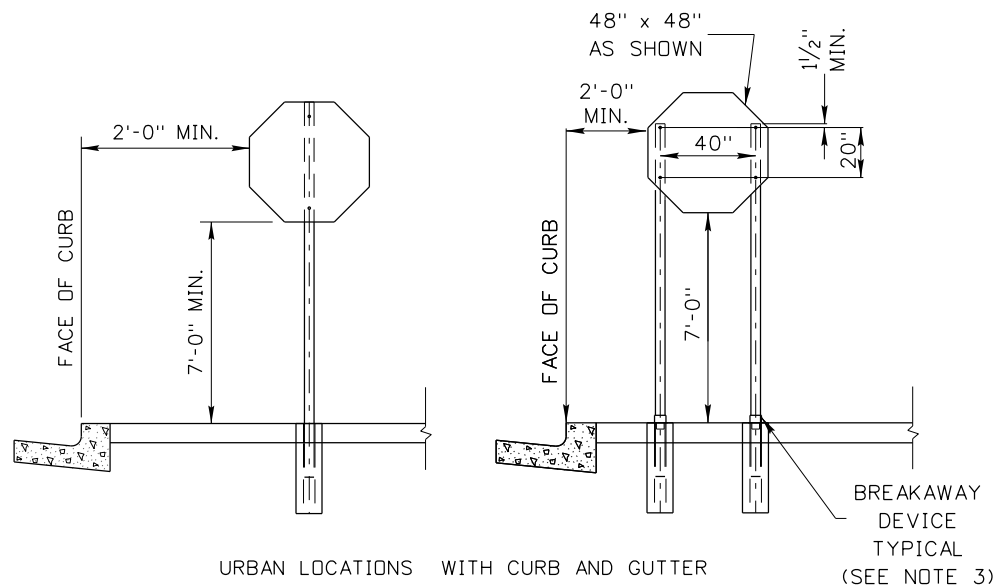
STANDARD DRAWING NO.

656-15

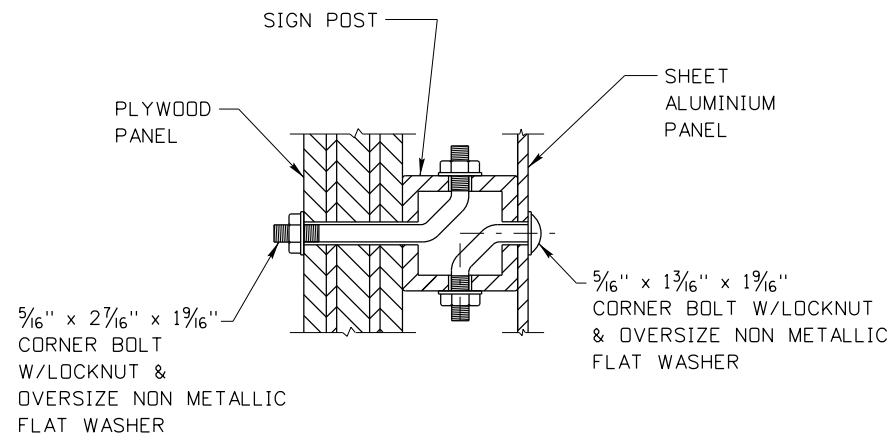
SHEET 1 OF 1

ORIGINAL STORED
AT: ITD,
Headquarters
3311 West State
Boise, Idaho

ORIGINAL SIGNED BY:
RYAN D. LANCASTER
DATE ORIGINAL SIGNED:
JUNE 17, 2014

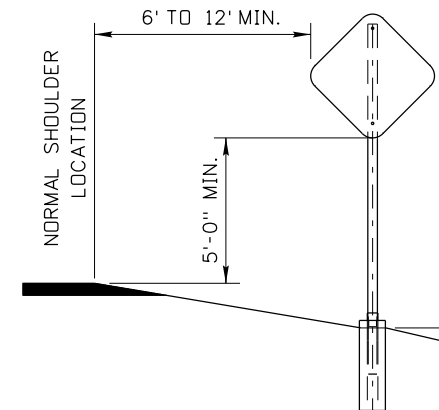


SIGN HEIGHT AND LATERAL LOCATION



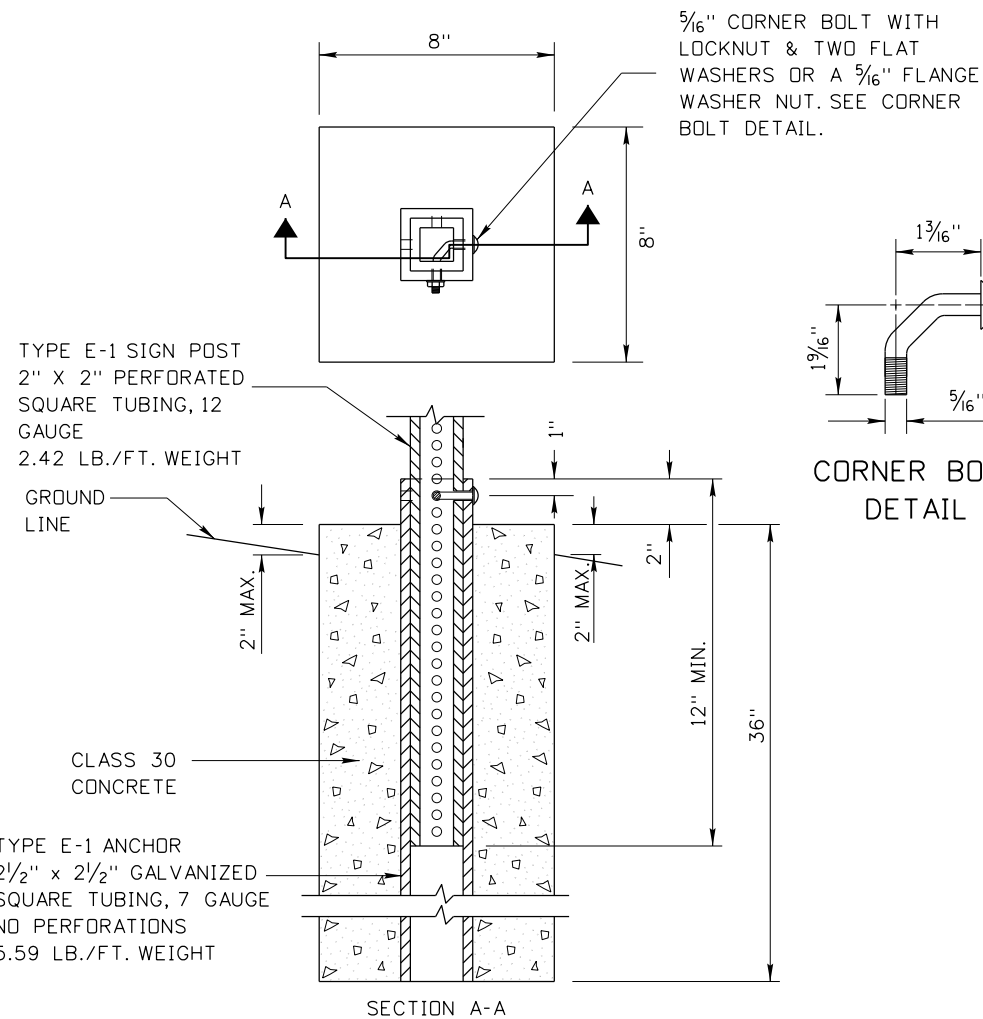
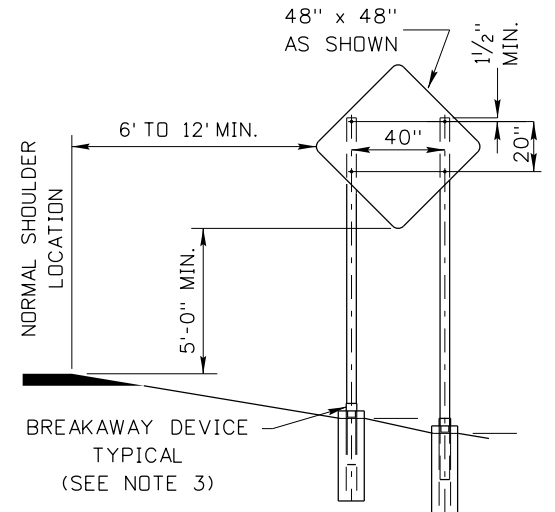
CORNER BOLTS MAY BE USED WITH BACK TO BACK INSTALLATIONS

BACK TO BACK SIGN MOUNTING DETAILS

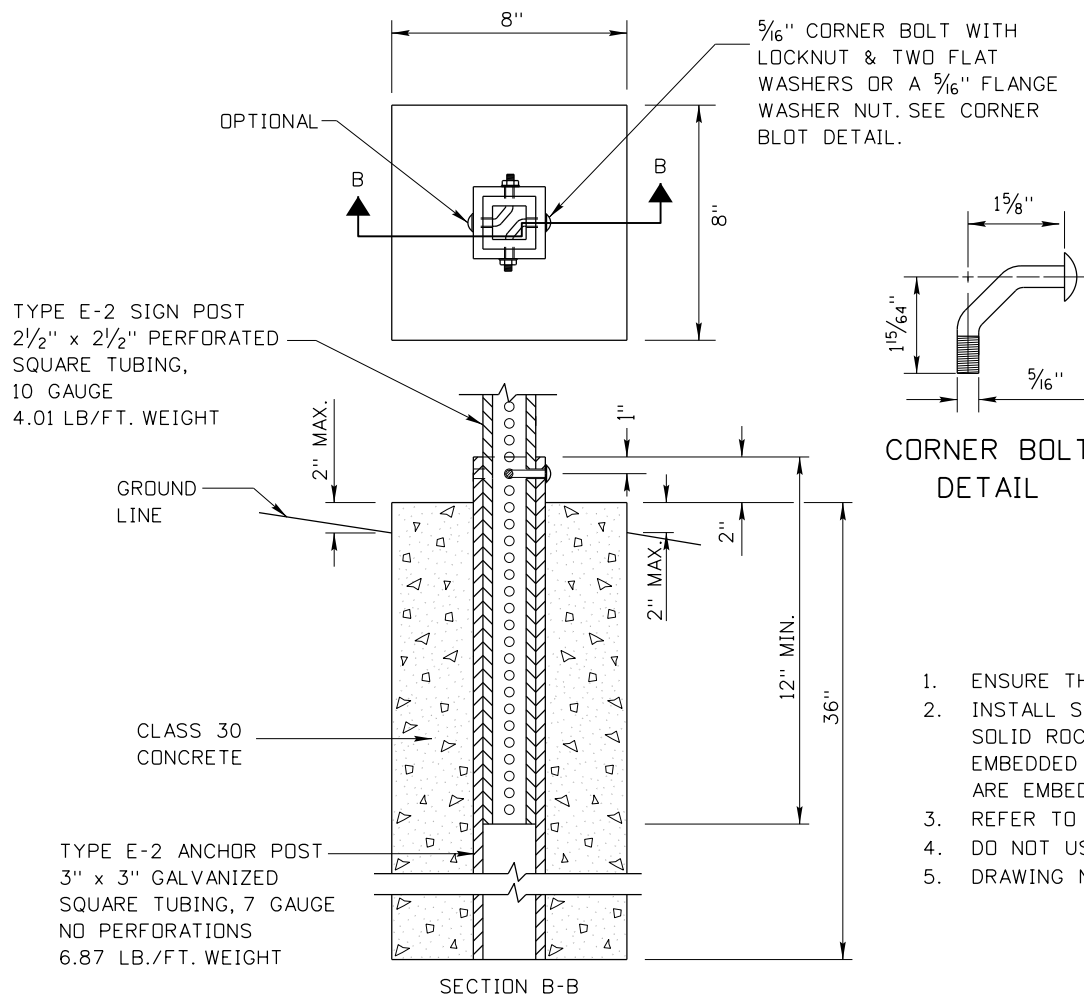
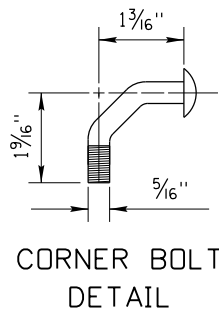


RURAL LOCATION
(SEE NOTE 2 WHEN SOLID ROCK IS ENCOUNTERED)

SIGN HEIGHT AND LATERAL LOCATION



2" X 2" SIGN POST INSTALLATION DETAILS



2 1/2" X 2 1/2" SIGN POST INSTALLATION DETAILS

CORNER BOLT
DETAIL

NOTES

1. ENSURE THAT THE BOTTOM OF ANCHOR IS BE KEPT OPEN TO DRAIN.
2. INSTALL SIGN POST AND ANCHOR IN FOUNDATION OR GROUT INTO SOLID ROCK. ENSURE THAT THE 2" X 2" POST INSTALLATIONS ARE EMBEDDED 18" ONTO SOLID ROCK AND 2 1/2" X 2 1/2" POST INSTALLATIONS ARE EMBEDDED 24" INTO SOLID ROCK.
3. REFER TO ITD QUALIFIED PRODUCTS LIST FOR BREAKAWAY DEVICES.
4. DO NOT USE BRACE ANGLES.
5. DRAWING NOT TO SCALE.

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	02-92	JEC	6	05-15	HEB			
2	12-94	HEB	7	12-16	HEB			
3	06-99	HEB						
4	12-01	NQB						
5	12-13	HEB						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	
CADD FILE NAME: i8f_1216.dgn	
DRAWING DATE: JULY, 1991	

IDAHO TRANSPORTATION DEPARTMENT	
BOISE IDAHO	

ORIGINAL SIGNED BY: TED MASON DESIGN/TRAFFIC SERVICES ENGINEER	
---	--

STANDARD DRAWING BREAKAWAY STEEL SIGN POSTS TYPE E	
---	--

English STANDARD DRAWING NO. I-8-F	
SHEET 1 OF 1	

ORIGINAL STORED
AT: ITD,
Headquarters
3311 West State
Boise, Idaho

ORIGINAL SIGNED BY:
RYAN D. LANCASTER
DATE ORIGINAL SIGNED:
JANUARY 9, 2017



R1-1 (30"X30")
R1-1A (36"X36")
R1-1B (48"X48")



R1-2 (36"X36"X36")
R1-2A (48"X48"X48")
R1-2B (60"X60"X60")



R2-1 (24"X30")
R2-1A (36"X48")
R2-1B (48"X60")



R2-2 (24"X24")
R2-2A (36"X36")
R2-2B (48"X48")



R3-1L (24"X24")
R3-1AL (36"X36")



R3-1R (24"X24")
R3-1AR (36"X36")



R3-4 (24"X24")
R3-4A (36"X36")



R3-5 LorR (30"X36")



R3-6 LorR (30"X36")



R3-7 LorR (30"X30")
R3-7A LorR (36"X36")
R3-7B LorR (48"X48")



R3-8 LorR (30"X30")
R3-8A LorR (36"X36")
R3-8B LorR (48"X48")



R3-10 (24"X36")
R3-10A (36"X48")



R3-11 (30"X36")



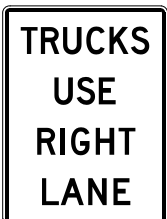
R4-1 (24"X30")
R4-1A (36"X48")
R4-1B (48"X60")



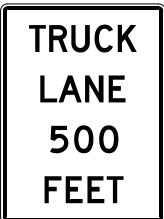
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R4-2A (36"X48")
R4-2B (48"X60")



R4-4 (24"X30")
R4-4A (36"X48")
R4-4B (48"X60")



R4-5 (24"X30")
R4-5A (36"X48")
R4-5B (48"X60")



R4-6 (24"X30")
R4-6A (36"X48")
R4-6B (48"X60")



R4-7 (24"X30")
R4-7A (36"X48")
R4-7B (48"X60")



R5-1 (30"X30")
R5-1A (36"X36")



R5-9 (30"X18")
R5-9A (36"X24")



R6-1 LorR (36"X12")



R8-7 (30"X24")
R8-7A (48"X36")



R8-8 (48"X36")



R10-10 LorR (24"X30")
R10-10A LorR (30"X36")

- NOTES:
1. ALL SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AS ADOPTED BY THE STATE.
 2. SIGNS SHALL BE PUNCHED WITH THE REQUIRED NUMBER OF 3/8" DIAMETER MOUNTING HOLES AS SHOWN ON STANDARD DRAWING I-12-F.
 3. DASHED NUMBERS INDICATED ARE VARIABLE.

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	12-93	HEB						
2	12-01	NQB						
3	07-03	NQB						
4	06-07	HEB						
5	12-13	HEB						

SCALES SHOWN
ARE FOR 11" X 17"
PRINTS ONLY

CADD FILE NAME:
i12a1213.dgn

DRAWING DATE:
JANUARY, 1991

IDAHO
TRANSPORTATION
DEPARTMENT



BOISE IDAHO

ORIGINAL SIGNED BY: RYAN LANCASTER for
DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING

STANDARD
REGULATORY SIGNS

REQUIRES STD. DWG. I-12-F

English

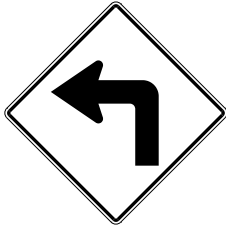
STANDARD DRAWING NO.

I-12-A

SHEET 1 OF 1

ORIGINAL STORED
AT: ITD,
Headquarters
3311 West State
Boise, Idaho

ORIGINAL SIGNED BY:
CARL D. MAIN
DATE ORIGINAL SIGNED:
DECEMBER 5, 2013



W1-1 LorR (30"X30")
W1-1A LorR (36"X36")
* W1-1B LorR (48"X48")



W1-2 LorR (30"X30")
W1-2A LorR (36"X36")
* W1-2B LorR (48"X48")



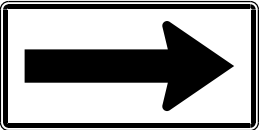
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W1-3A LorR (36"X36")
* W1-3B LorR (48"X48")



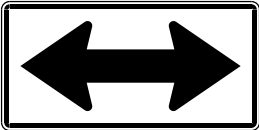
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W1-4A LorR (36"X36")
* W1-4B LorR (48"X48")



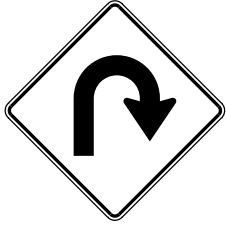
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W1-5A LorR (36"X36")
W1-5B LorR (48"X48")



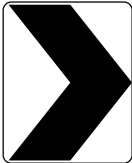
* W1-6 LorR (48"X24")
* W1-6A LorR (60"X36")



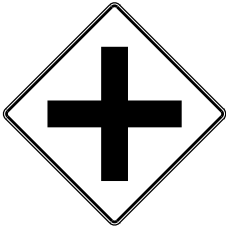
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W1-7A (60"X36")



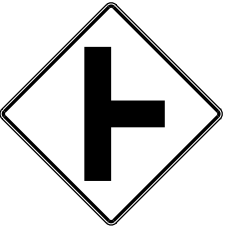
W1-8B LorR (48"X48")



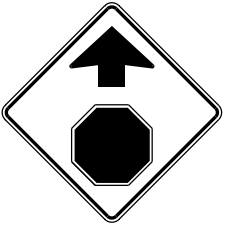
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W1-9A (18"X24")
W1-9B (24"X30")



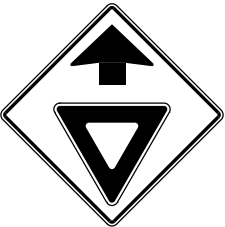
W2-1 (30"X30")
W2-1A (36"X36")
W2-1B (48"X48")



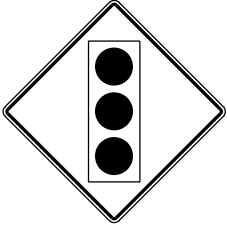
W2-2 (30"X30")
W2-2A (36"X36")
W2-2B (48"X48")



W3-1A (36"X36")
* W3-1B (48"X48")



W3-2A (36"X36")
* W3-2B (48"X48")



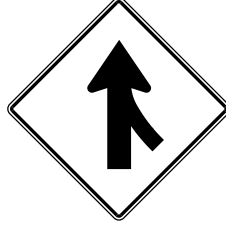
W3-3A (36"X36")
* W3-3B (48"X48")



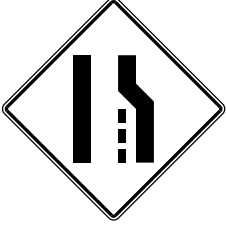
W3-5A (36"X36")
* W3-5B (48"X48")



W3-5TA (36"X36")
* W3-5TB (48"X48")



W4-1 LorR (30"X30")
W4-1A LorR (36"X36")
W4-1B LorR (48"X48")



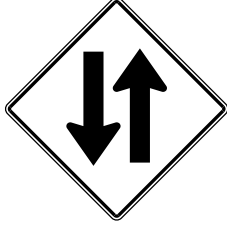
W4-2A LorR (36"X36")
* W4-2B LorR (48"X48")



W6-1A (36"X36")
* W6-1B (48"X48")



W6-2A (36"X36")
* W6-2B (48"X48")



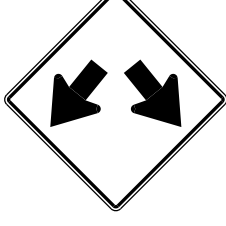
W6-3 (30"X30")
W6-3A (36"X36")
* W6-3B (48"X48")



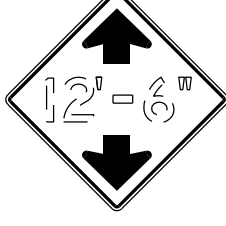
W9-1 LorR (30"X30")
W9-1A LorR (36"X36")
* W9-1B LorR (48"X48")



W9-2 LorR (30"X30")
W9-2A LorR (36"X36")
* W9-2B LorR (48"X48")



W12-1 (30"X30")
W12-1A (36"X36")
* W12-1B (48"X48")



W12-2A (36"X36")
W12-2B (48"X48")



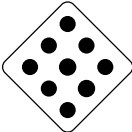
* W13-1A (24"X24")



W13-2 (24"X30")
W13-2A (36"X48")
W13-2B (48"X60")



* W14-3 (48"X36")



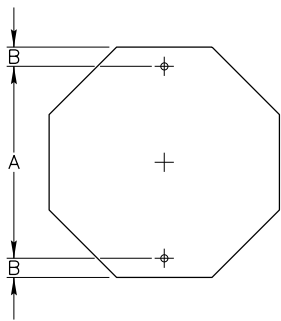
DM-1 (y)or(r) (18"X18")

NOTES:

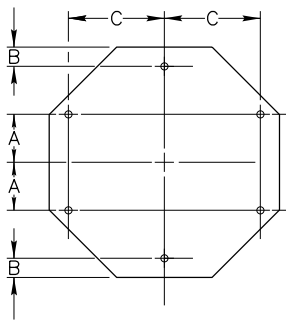
- ALL SIGNS SHALL BE IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AS ADOPTED BY THE STATE.
- SIGNS SHALL BE PUNCHED WITH THE REQUIRED NUMBER OF 3/8" DIAMETER MOUNTING HOLES, AS SHOWN ON STANDARD DRAWING I-12-F.
- SIGNS INDICATED WITH AN * HAVE EITHER A YELLOW OR AN ORANGE (o) BACKGROUND, DEPENDING ON THEIR USE. THE SIGN NUMBERS SHALL BE DESIGNATED SUCH AS: W1-1L FOR YELLOW OR W1-1L(o) FOR ORANGE.
- DASHED NUMBERS INDICATED ARE VARIABLE.

REVISIONS								SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY		IDAHO TRANSPORTATION DEPARTMENT 	ORIGINAL SIGNED BY: RYAN LANCASTER <i>for</i> DESIGN/TRAFFIC SERVICES ENGINEER		STANDARD DRAWING		<i>English</i>	
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE						BY	STANDARD WARNING SIGNS		STANDARD DRAWING NO.
1	12-93	HEB	6	12-13	HEB								I-12-D			
2	12-01	HEB														
3	07-03	HEB														
4	06-07	HEB														
5	09-11	HEB														
								CADD FILE NAME: it2d1213.dgn				REQUIRES STD. DWG. I-12-F		SHEET 1 OF 1		
								DRAWING DATE: DECEMBER, 1993		BOISE IDAHO						

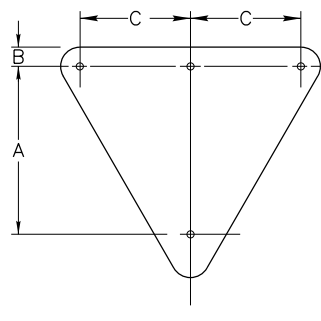
ORIGINAL SIGNED BY:
RYAN D. MAIN
DECEMBER 5, 2013



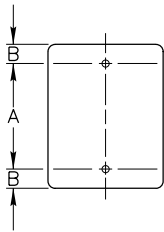
SIGN SIZE	A	B
30"X30"	24"	3"



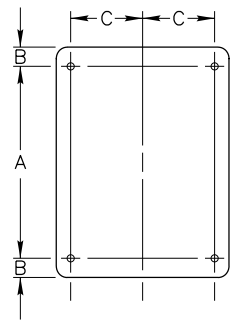
SIGN SIZE	A	B	C
36"X36"	8"	3"	12"
48"X48"	10"	—	20"



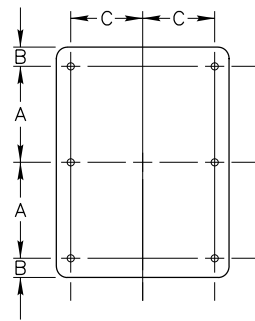
SIGN SIZE	A	B	C
30"X30"	18"	3"	—
36"X36"	23"	3"	—
48"X48"	25"	3"	17"
60"X60"	35"	4"	23"



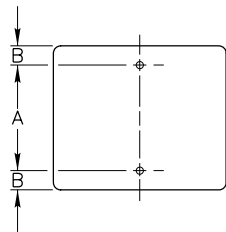
SIGN SIZE	A	B
6"X12"	9"	1 1/2"
6"X18"	15"	1 1/2"
9"X12"	9"	1 1/2"
12"X18"	15"	1 1/2"
12"X30"	24"	3"
12"X36"	32"	2"
18"X24"	18"	3"
24"X30"	24"	3"
24"X36"	30"	3"
30"X36"	30"	3"



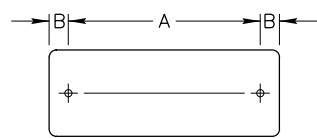
SIGN SIZE	A	B	C
36"X36"	30"	3"	15"
36"X48"	42"	3"	15"
48"X30"	24"	3"	15"
48"X36"	30"	3"	15"
60"X36"	30"	3"	21"



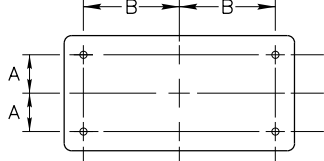
SIGN SIZE	A	B	C
48"X60"	27"	3"	15"



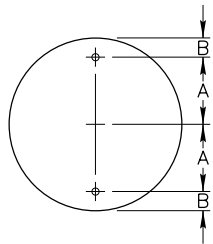
SIGN SIZE	A	B
12"X6"	3"	1 1/2"
18"X9"	6"	1 1/2"
18"X12"	9"	1 1/2"
18"X18"	15"	1 1/2"
21"X15"	12"	1 1/2"
24"X6"	3"	1 1/2"
24"X10"	7"	1 1/2"
24"X12"	9"	1 1/2"
24"X18"	15"	1 1/2"
24"X24"	18"	3"
30"X18"	12"	3"
30"X24"	18"	3"
30"X30"	24"	3"
36"X24"	18"	3"
36"X30"	24"	3"
42"X24"	18"	3"
42"X30"	24"	3"
42"X36"	30"	3"



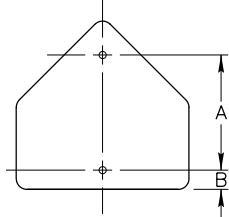
SIGN SIZE	A	B
30"X15"	24"	3"
36"X12"	30"	3"
36"X18"	30"	3"
48"X12"	42"	3"
48"X18"	42"	3"
54"X18"	48"	3"



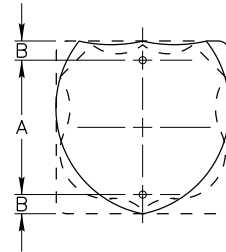
SIGN SIZE	A	B
48"X24"	9"	20"



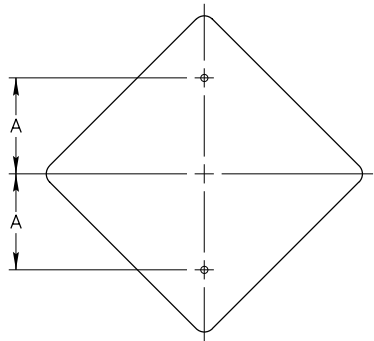
SIGN SIZE	A	B
36"	15"	3"
48"	21"	3"



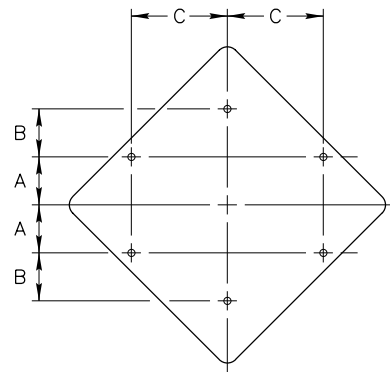
SIGN SIZE	A	B
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36"X36"	24"	3"



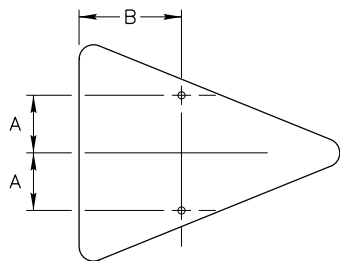
SIGN SIZE	A	B
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30"X24"	18"	3"



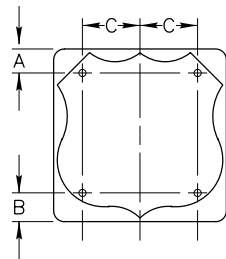
SIGN SIZE	A
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24"X24"	12"
30"X30"	15"



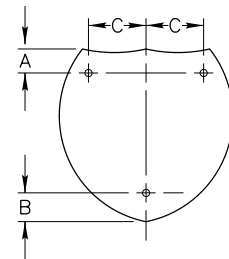
SIGN SIZE	A	B	C
36"X36"	8"	10"	12"
48"X48"	10"	—	20"



SIGN SIZE	A	B
36"X48"	9"	16"



SIGN SIZE	A	B	C
36"X36"	5"	6"	12"



SIGN SIZE	A	B	C
36"X36"	5"	6"	12"
45"X36"	5"	6"	16"

NOTES:

1. ALL MOUNTING HOLES SHALL BE 3/8" DIAMETER.

REVISIONS							
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE
1	12-01	NQB					
2	06-07	HEB					
3	07-14	HEB					

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	
CADD FILE NAME: i12f0714.dgn	
DRAWING DATE: DECEMBER, 1994	

IDAHO TRANSPORTATION DEPARTMENT	
BOISE IDAHO	

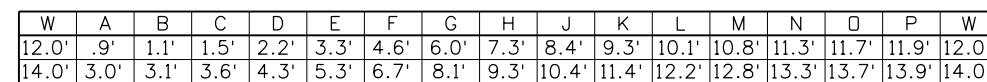
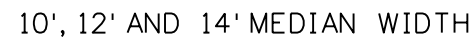
ORIGINAL SIGNED BY: CARL D. MAIN	
DESIGN/TRAFFIC SERVICES ENGINEER	

STANDARD DRAWING	
PUNCHING SCHEDULE FOR TYPE "B" OR TYPE "E" SIGNS	

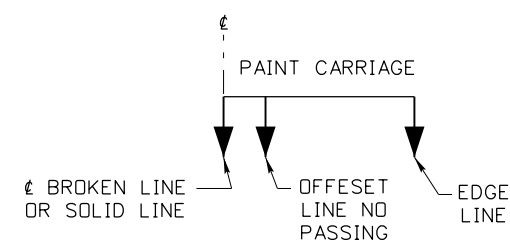
English	STANDARD DRAWING NO.
	I-12-F
	SHEET 1 OF 1

ORIGINAL STORED
AT: ITD,
Headquarters
3311 West State
Boise, Idaho

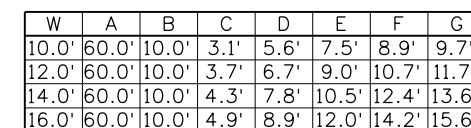
ORIGINAL SIGNED BY:
RYAN D. LANCASTER
DATE ORIGINAL SIGNED:
JULY 14, 2014



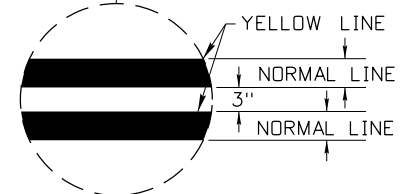
12' AND 14' MEDIAN WIDTH



PAINT TRUCK SETUP



OFFSET NOSE
(OPTIONAL)



DETAIL "A"

NOTES:

1. NORMAL LINES ARE 4" TO 6" WIDE.
2. WIDE LINES ARE TO BE AT LEAST TWICE THE WIDTH OF A NORMAL LINE.
3. WHEN EDGE LINES ARE USED ON HIGHWAYS LESS THAN 24' WIDE, PLACE THE EDGE LINE 6" FROM THE EDGE OF PAVEMENT.
4. DRAWING NOT TO SCALE.

ORIGINAL STORED
AT: ITD,
Headquarters
3311 West State
Boise, Idaho

English

I-21

SHEET 1 OF 1

ORIGINAL SIGNED BY:
RYAN D. LANCASTER
DATE ORIGINAL SIGNED:
DECEMBER 6, 2016

[illegible]

SCALES SHOWN
ARE FOR 11" X 17"
PRINTS ONLY

CADD FILE NAME:
i21_1216.dgn

DRAWING DATE:
DECEMBER, 2016

IDAHO
TRANSPORTATION
DEPARTMENT



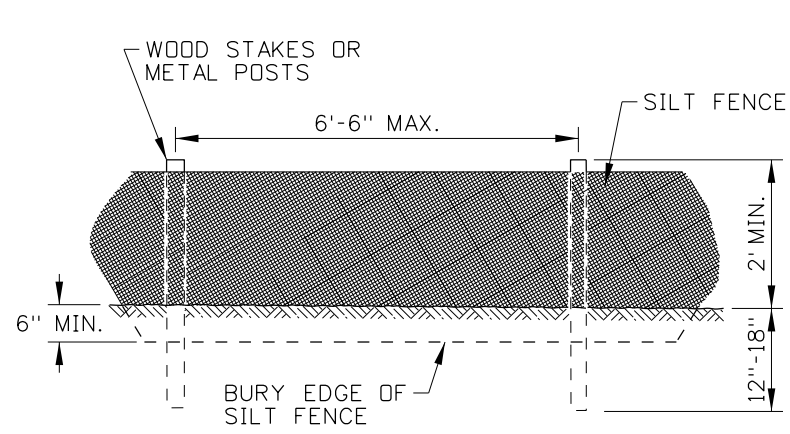
BOISE IDAHO

ORIGINAL SIGNED BY: TED MASON
DESIGN/TRAFFIC SERVICES ENGINEER

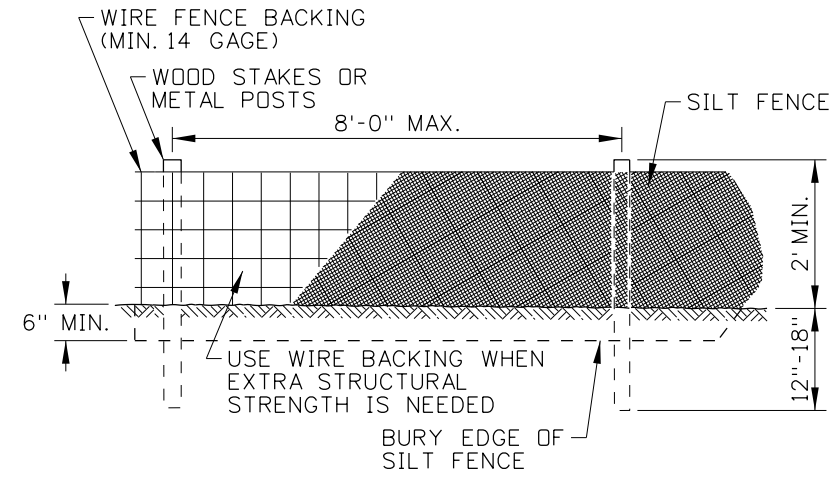
STANDARD DRAWING

PAVEMENT MARKINGS FOR ARTERIAL AND COLLECTOR ROADWAYS

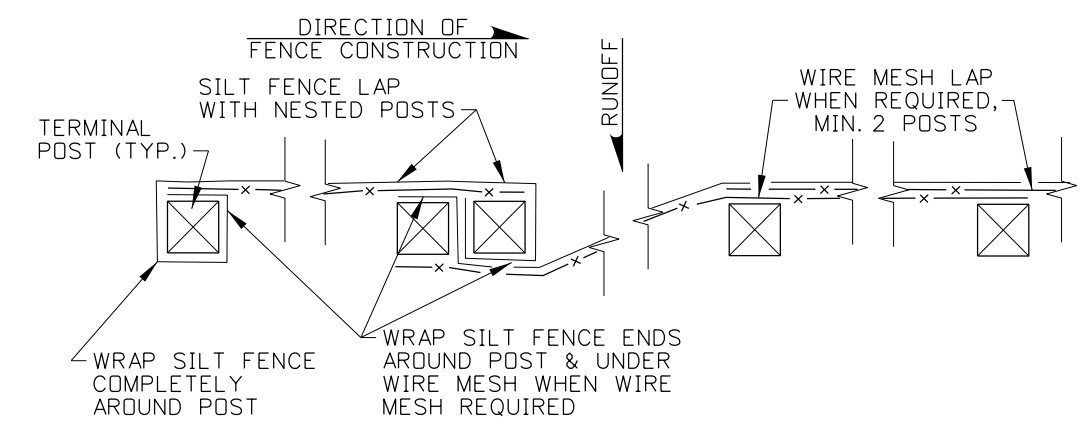
English



SILT FENCE (NO WIRE BACKING)



SILT FENCE (WIRE BACKING)



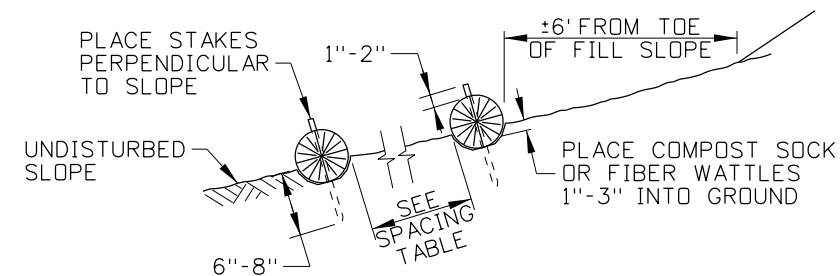
SILT FENCE LAP DETAIL

FIBER WATTLE & COMPOST SOCK SPACING TABLE				
SLOPE	WATTLE SIZE			
	6"	9"	12"	20"
1:1	5 FT	10 FT	15 FT	20 FT
2:1	10 FT	20 FT	30 FT	40 FT
3:1	15 FT	30 FT	45 FT	60 FT
4:1 OR FLATTER	20 FT	40 FT	60 FT	80 FT

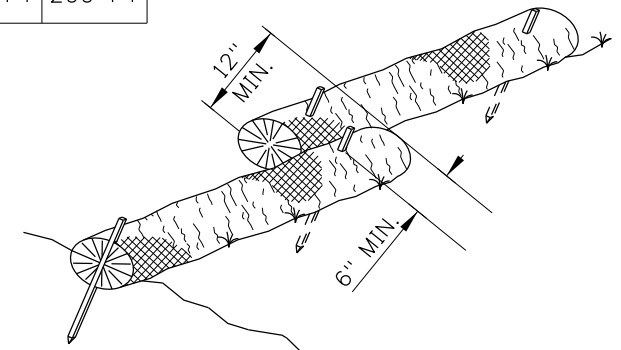
SILT FENCE SPACING TABLE				
SLOPE	SOIL TYPE			
	SILTY	CLAYS	SANDY	
1:1	50 FT	75 FT	100 FT	
2:1	75 FT	100 FT	125 FT	
4:1	100 FT	125 FT	150 FT	
10:1 OR FLATTER	125 FT	150 FT	200 FT	

NOTES

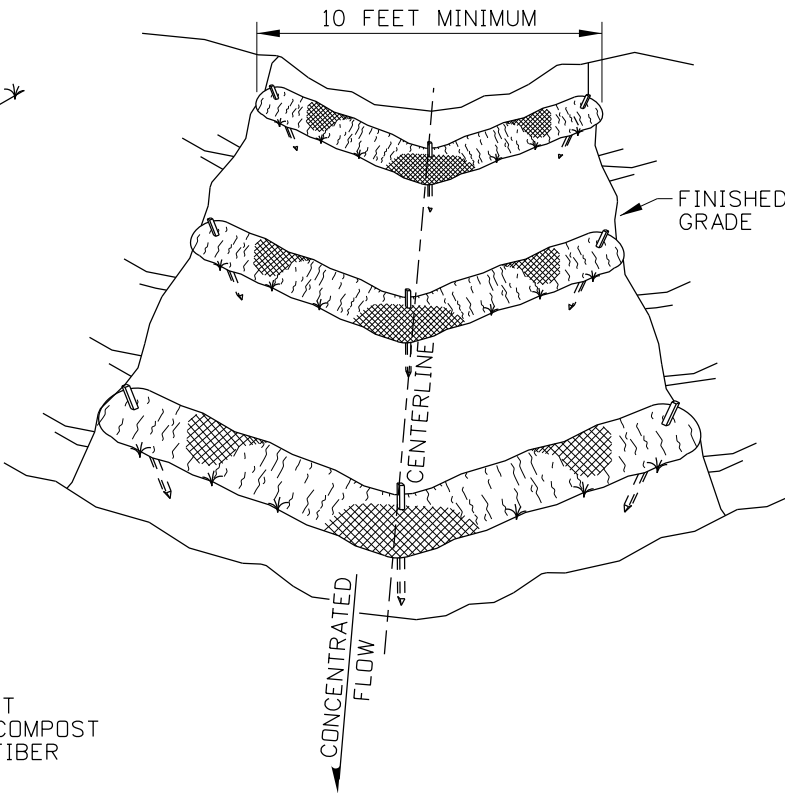
1. THE GENERAL NOTES FOR ALL P-1 SERIES STANDARD DRAWINGS (TEMPORARY EROSION CONTROL) ARE GIVEN ON STANDARD DRAWING P-1-D.
2. INSTALL TEMPORARY SEDIMENT CONTROL BARRIERS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND SPECIFICATIONS. THE DIMENSIONS SHOWN ARE GENERAL GUIDELINES.
3. PLACE SEDIMENT BARRIERS TO FOLLOW THE SLOPE CONTOURS. METAL POSTS OR WOOD STAKES MAY BE USED.
4. ENSURE THAT RUNOFF PASSES THROUGH THE SILT FENCE AND NOT AROUND THE FENCE.
5. ENSURE THAT SILT FENCE MATERIAL IS IN ACCORDANCE WITH 718.09 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
6. GROUND SILT FENCES WITH WIRE MESH IN ACCORDANCE WITH THE GROUNDING DETAIL SHOWN ON STANDARD DRAWING F-2-A.
7. THE NEED FOR TEMPORARY SEDIMENT CONTROL DEVICES ARE DETERMINED BY SITE DESIGN. SPACE SILT FENCES, COMPOST SOCKS, AND FIBER WATTLES IN ACCORDANCE WITH THE SILT FENCE SPACING TABLE AND FIBER WATTLE & COMPOST SOCK SPACING TABLE.
8. ON SLOPES, TURN THE ENDS OF EACH ROW OF COMPOST SOCKS AND FIBER WATTLES UPSLOPE TO PREVENT RUNOFF FROM FLOWING AROUND THE SOCK OR WATTLE.
9. EXTEND OR JOIN SILT FENCE USING SILT FENCE LAP WITH NESTED POSTS.
10. REMOVE SEDIMENT FROM THE UPSLOPE SIDE OF SILT FENCES, COMPOST SOCKS, AND FIBER WATTLES WHEN ACCUMULATION HAS REACHED 1/2 OF THE EFFECTIVE HEIGHT OF THE BARRIER.
11. NOT TO SCALE.



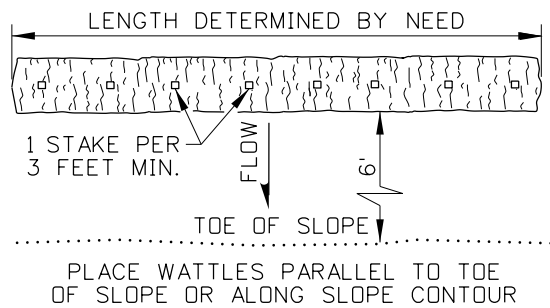
COMPOST SOCK AND FIBER WATTLE
SIDE VIEW



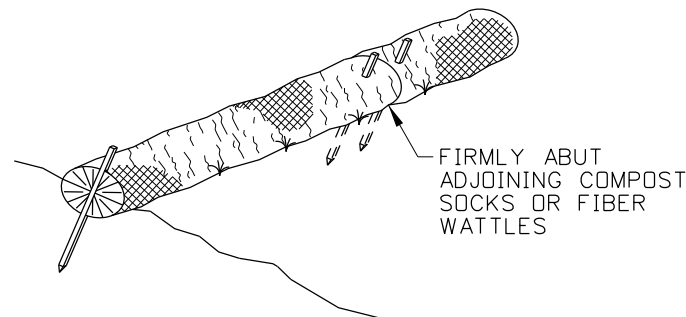
COMPOST SOCK AND FIBER WATTLE
OVERLAPPING DETAIL



COMPOST SOCK AND FIBER WATTLE
TEMPORARY CHECK DAM DETAIL



COMPOST SOCK AND FIBER WATTLE
PLAN VIEW



COMPOST SOCK AND FIBER WATTLE
ABUTTING DETAIL

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	09-93	MSM	6	01-13	RDL			
2	12-94	MSM						
3	06-96	GFK						
4	10-10	KEH						
5	10-11	KEH						

SCALES SHOWN
ARE FOR 11" X 17"
PRINTS ONLY

CADD FILE NAME:
plb_0213.std

DRAWING DATE:
APRIL, 1993

IDAHO
TRANSPORTATION
DEPARTMENT



BOISE IDAHO

ORIGINAL SIGNED BY: LOREN THOMAS
HIGHWAYS PROGRAM OVERSIGHT ENGINEER

ORIGINAL SIGNED BY: TOM COLE
CHIEF ENGINEER

STANDARD DRAWING

TEMPORARY SEDIMENT
CONTROL BARRIERS

REQUIRES STD. DWG. P-1-D

English

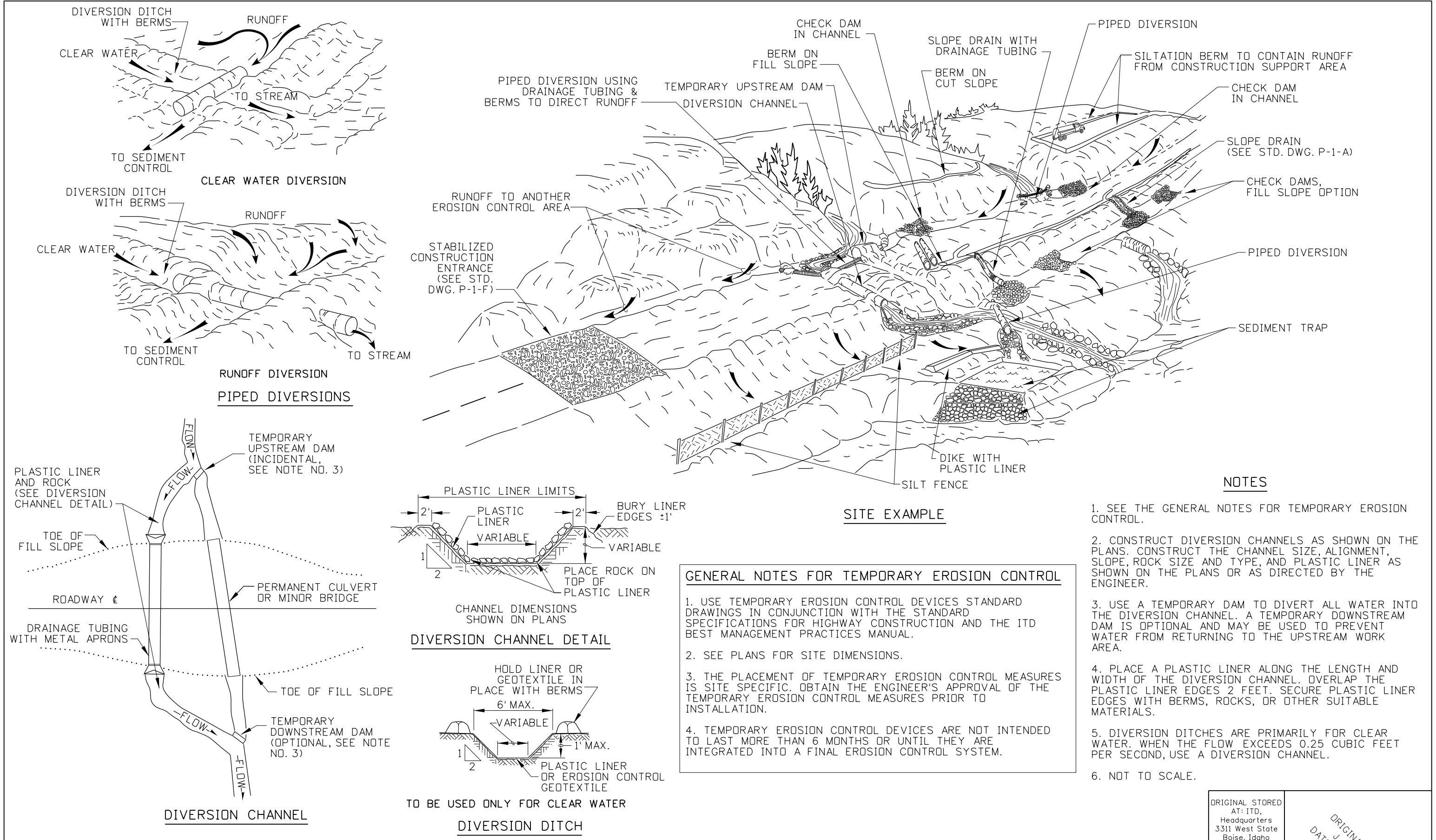
STANDARD DRAWING NO.

P-1-B

SHEET 1 OF 1

ORIGINAL STORED
AT: ITD,
Headquarters
3311 West State
Boise, Idaho

ORIGINAL SIGNED BY:
J. CALEB LAKEY
DATE ORIGINAL SIGNED:
FEBRUARY 1, 2013



NOTES

1. SEE THE GENERAL NOTES FOR TEMPORARY EROSION CONTROL.
2. CONSTRUCT DIVERSION CHANNELS AS SHOWN ON THE PLANS. CONSTRUCT THE CHANNEL SIZE, ALIGNMENT, SLOPE, ROCK SIZE AND TYPE, AND PLASTIC LINER AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
3. USE A TEMPORARY DAM TO DIVERT ALL WATER INTO THE DIVERSION CHANNEL. A TEMPORARY DOWNSTREAM DAM IS OPTIONAL AND MAY BE USED TO PREVENT WATER FROM RETURNING TO THE UPSTREAM WORK AREA.
4. PLACE A PLASTIC LINER ALONG THE LENGTH AND WIDTH OF THE DIVERSION CHANNEL. OVERLAP THE PLASTIC LINER EDGES 2 FEET. SECURE PLASTIC LINER EDGES WITH BERMS, ROCKS, OR OTHER SUITABLE MATERIALS.
5. DIVERSION DITCHES ARE PRIMARILY FOR CLEAR WATER. WHEN THE FLOW EXCEEDS 0.25 CUBIC FEET PER SECOND, USE A DIVERSION CHANNEL.
6. NOT TO SCALE.

SITE EXAMPLE

GENERAL NOTES FOR TEMPORARY EROSION CONTROL

1. USE TEMPORARY EROSION CONTROL DEVICES STANDARD DRAWINGS IN CONJUNCTION WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE ITD BEST MANAGEMENT PRACTICES MANUAL.
2. SEE PLANS FOR SITE DIMENSIONS.
3. THE PLACEMENT OF TEMPORARY EROSION CONTROL MEASURES IS SITE SPECIFIC. OBTAIN THE ENGINEER'S APPROVAL OF THE TEMPORARY EROSION CONTROL MEASURES PRIOR TO INSTALLATION.
4. TEMPORARY EROSION CONTROL DEVICES ARE NOT INTENDED TO LAST MORE THAN 6 MONTHS OR UNTIL THEY ARE INTEGRATED INTO A FINAL EROSION CONTROL SYSTEM.

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	9-93	MSM						
2	6-96	MSM						
3	10-10	KEH						
4	10-11	KEH						
5	12-12	RDL						

SCALES SHOWN
ARE FOR 11" X 17"
PRINTS ONLY

CADD FILE NAME:
p1d_1212.std

DRAWING DATE:
APRIL, 1993

IDAHO
TRANSPORTATION
DEPARTMENT



BOISE IDAHO

ORIGINAL SIGNED BY: LOREN THOMAS
HIGHWAYS PROGRAM OVERSIGHT ENGINEER

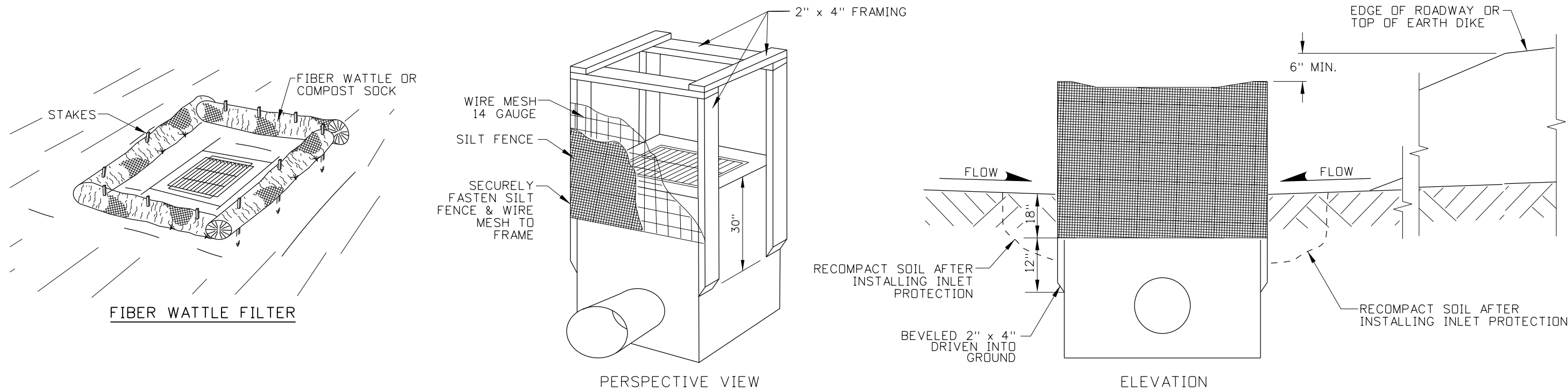
ORIGINAL SIGNED BY: TOM COLE
CHIEF ENGINEER

STANDARD DRAWING
TEMPORARY EROSION CONTROL
DIVERSION DEVICES
& SITE EXAMPLE

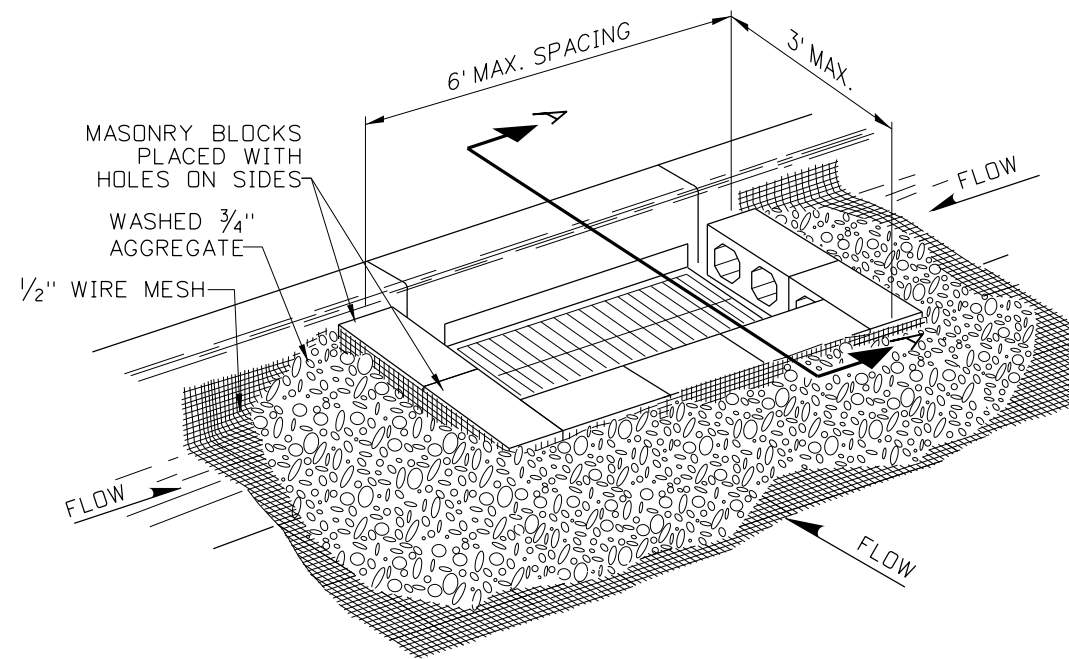
English
STANDARD DRAWING NO.
P-1-D
SHEET 1 OF 1

ORIGINAL STORED
AT: ITD,
Headquarters
3311 West State
Boise, Idaho

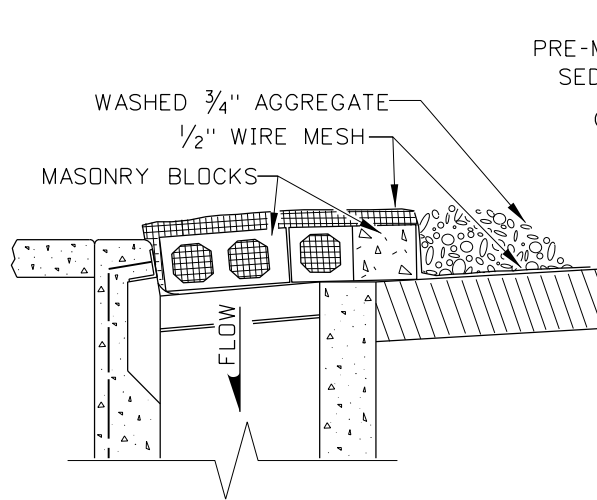
ORIGINAL SIGNED BY:
J. CALEB LAKEY
DATE ORIGINAL SIGNED:
DECEMBER 17, 2012



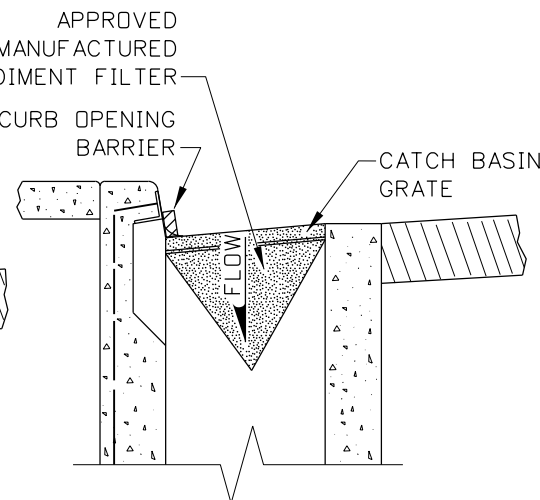
FRAMED WIRE/FABRIC FILTER



GRAVEL AND WIRE MESH FILTER PERIMETER FILTER



SECTION A-A



PRE-MANUFACTURED SEDIMENT FILTER FOR INLET GRATE

NOTES

1. THE GENERAL NOTES FOR ALL P-1 SERIES STANDARD DRAWINGS (TEMPORARY EROSION CONTROL) ARE GIVEN ON STANDARD DRAWING P-1-D.
2. REMOVE TRASH, DEBRIS, DUFF, AND MATERIALS THAT MAY INTERFERE WITH THE INLET OR CATCH BASIN PROTECTION FUNCTION PRIOR TO PLACEMENT AND THEREAFTER ON A DAILY BASIS OR AS NEEDED.
3. FIELD ADJUSTMENTS MAY BE NECESSARY TO ENSURE EFFECTIVENESS.
4. FRAMED WIRE/FABRIC FILTER AND FIBER WATTLE FILTERS ARE INTENDED TO BE USED ON ANY STRUCTURE NOT PRESENTLY SURROUNDED BY PAVEMENT.
5. GRAVEL AND WIRE MESH FILTER AND PRE-MANUFACTURED SEDIMENT FILTER INSTALLATIONS ARE INTENDED TO BE USED ON STRUCTURES SURROUNDED BY PAVEMENT WITH OR WITHOUT CURBS.
6. ENSURE THAT WATER DISCHARGING FROM THE INLET MEETS APPLICABLE WATER QUALITY STANDARDS.
7. NOT TO SCALE.

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	10-10	KEH						
2	10-11	KEH						
3	01-13	RDL						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: plh_0213.std

DRAWING DATE: JUNE, 1996

IDAHO
TRANSPORTATION
DEPARTMENT

BOISE IDAHO



ORIGINAL SIGNED BY: LOREN THOMAS
HIGHWAYS PROGRAM OVERSIGHT ENGINEER

ORIGINAL SIGNED BY: TOM COLE
CHIEF ENGINEER

STANDARD DRAWING

TEMPORARY SEDIMENT
CONTROL INLET PROTECTION

REQUIRES STD. DWG. P-1-D

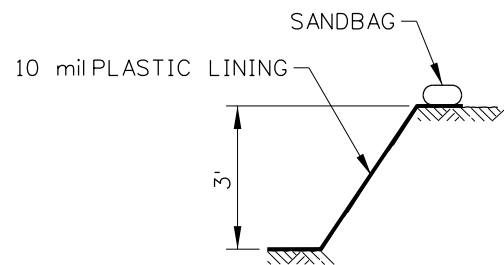
English

STANDARD DRAWING NO.
P-1-H

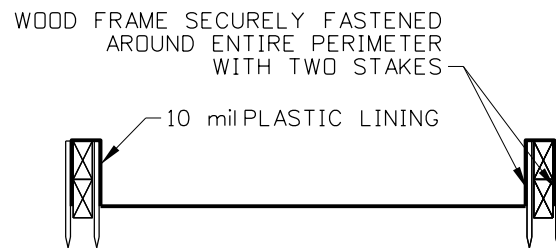
SHEET 1 OF 1

ORIGINAL STORED AT: ITD, Headquarters 3311 West State Boise, Idaho

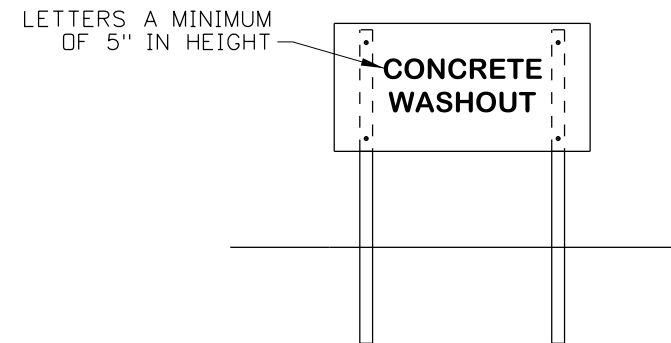
ORIGINAL SIGNED BY:
J. CALEB LAKEY
DATE ORIGINAL SIGNED:
FEBRUARY 1, 2013



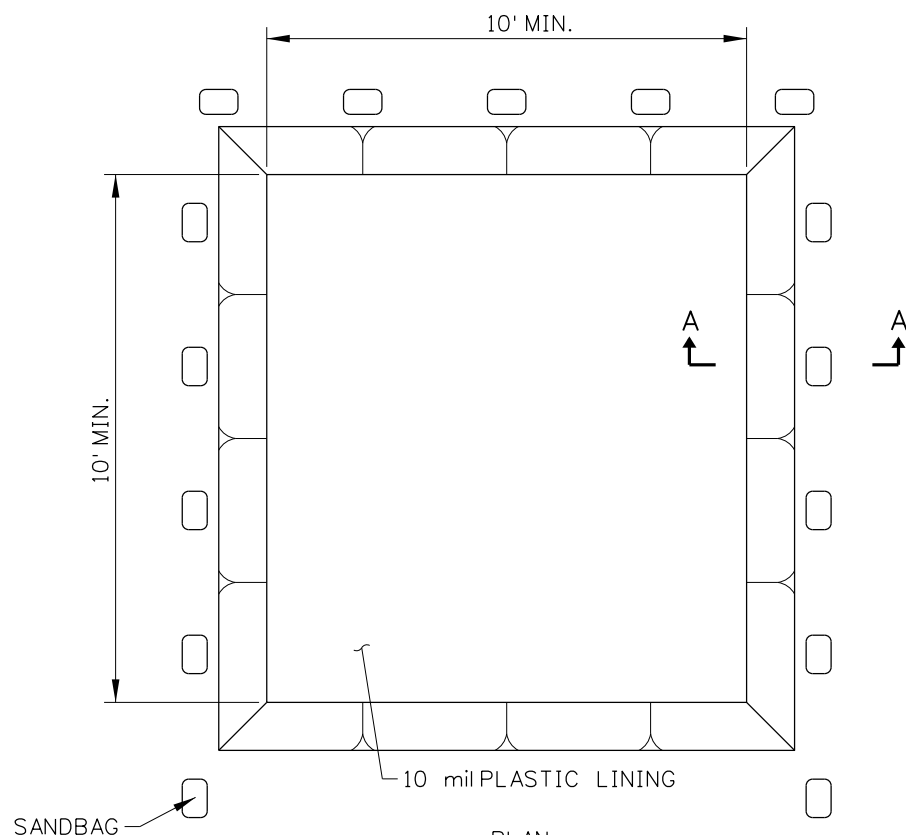
SECTION A-A



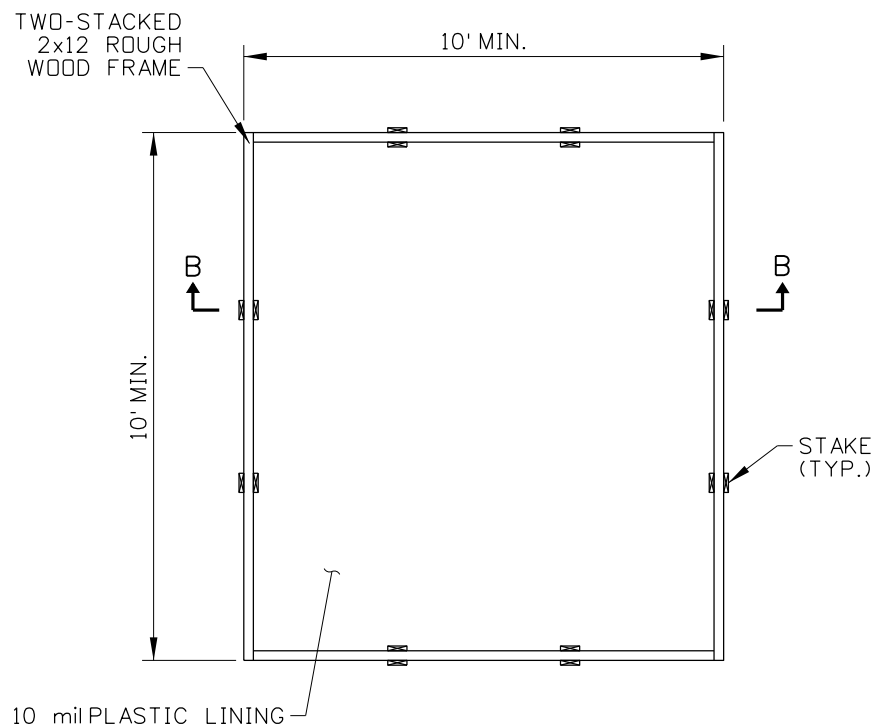
SECTION B-B



CONCRETE WASHOUT SIGN DETAIL
(SEE NOTE NO. 2)



TYPE BELOW GRADE



TYPE ABOVE GRADE

NOTES

1. USE THIS DRAWING IN CONJUNCTION WITH THE ITD BEST MANAGEMENT PRACTICES (BMP) MANUAL.
2. ACTUAL LAYOUT DETERMINED IN THE FIELD
3. INSTALL THE CONCRETE WASHOUT SIGN WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
4. USE OF PREFABRICATED TEMPORARY WASHOUT MAY ONLY BE USED ON APPROVAL BY THE ENGINEER.
5. NOT TO SCALE.

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	11-13	RDL						

SCALES SHOWN
ARE FOR 11" X 17"
PRINTS ONLY

CADD FILE NAME:
p5b_1113.dgn

DRAWING DATE:
OCTOBER, 2010

IDAHO
TRANSPORTATION
DEPARTMENT



BOISE IDAHO

ORIGINAL SIGNED BY: TOM COLE *for*
HIGHWAYS PROGRAM OVERSIGHT ENGINEER

ORIGINAL SIGNED BY: TOM COLE
CHIEF ENGINEER

STANDARD DRAWING

TEMPORARY CONCRETE
WASHOUT

ORIGINAL STORED
AT: ITD,
Headquarters
3311 West State
Boise, Idaho

English

STANDARD DRAWING NO.

P-5-B

SHEET 1 OF 1

ORIGINAL SIGNED BY:
J. CALEB LAKEY
DATE ORIGINAL SIGNED:
NOVEMBER 20, 2013