

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	TOTAL OWNERSHIP MAP
3	PROJECT CLEARANCE SUMMARY
4	TYPICAL SECTIONS & CONTROL
5	ROADWAY SUMMARY
6	INTERSECTION PLAN
7	GRADING PLAN
8-9	TRAFFIC CONTROL PLAN
10-11	TRAFFIC SIGNAL MATERIALS LIST
12	TRAFFIC SIGNAL PLAN
13	TRAFFIC SIGNAL DETAILS
14	SIGNAL WIRING DIAGRAM
15	CONDUIT DIAGRAM
16-25	TRAFFIC SIGNAL DETAILS
1-7	ITD STANDARD DRAWINGS

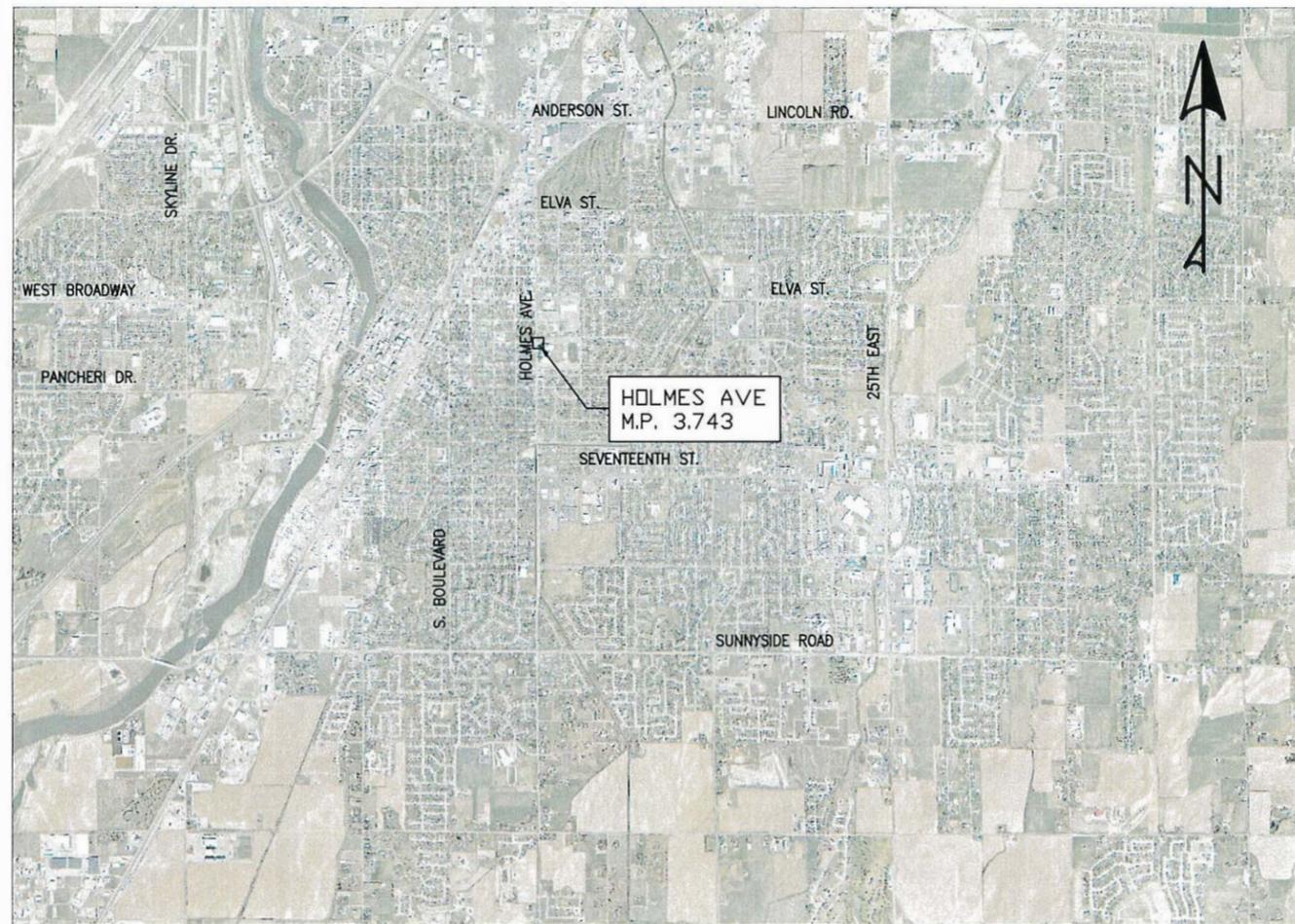
**IDAHO**  
**TRANSPORTATION DEPARTMENT**  


---

**PLAN AND PROFILE OF PROPOSED**  
**NHS-7316, INT 5TH & HOLMES SIGNAL, IDAHO FALLS**  
**FEDERAL AID PROJECT NO. A020(461)**  
**KEY NO. 20461**  
**BONNEVILLE COUNTY**  
**AUGUST 2024**



A020(461)  
 INT 5TH & HOLMES  
 SIGNAL, IDAHO FALLS



**VICINITY MAP SCALE**      **POPULATIONS: 2000 U.S. CENSUS**  
 0      1.0      2.0  
 Miles

**DESIGN DESIGNATION**

ADT 2026	14880
ADT 2046	20710
DHV 2026	1490
DHV 2046	2070
D	90/10
V	35 MPH
<b>TRUCKS:</b>	
ADT 2027	650
ADT 2047	1110
DHV 2027	50
DHV 2047	80

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED C. WILKINS	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED C. CANFIELD	
DETAILED C. WILKINS	CADD FILE NAME TRF-2021-20 X20461 MAIN.dwg
DRAWING CHECKED C. CANFIELD	DRAWING DATE: AUGUST 2024

**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**

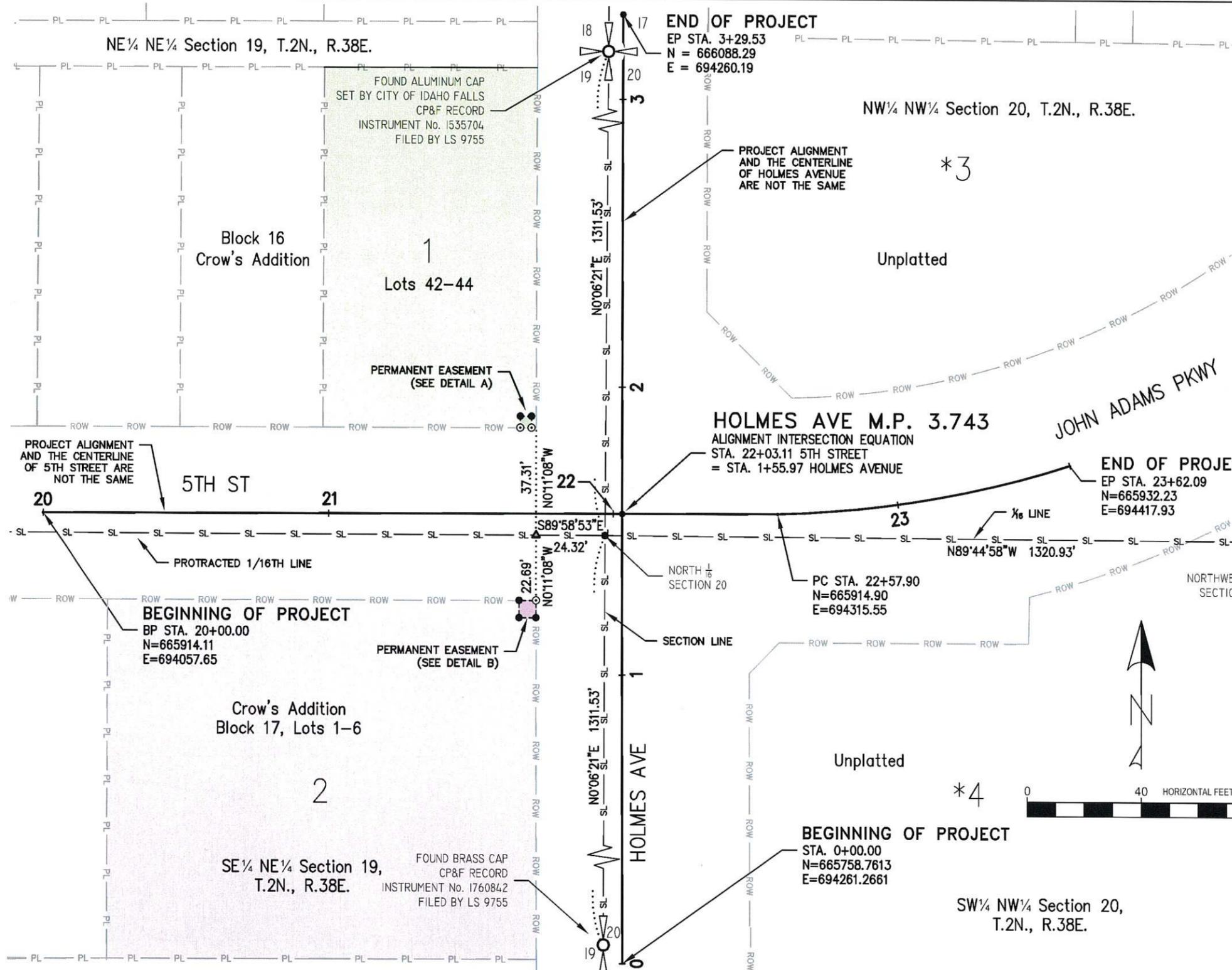
**CITY OF IDAHO FALLS**

PROJECT NO.	A020(461)
-------------	-----------

TITLE SHEET	INT 5TH & HOLMES SIGNAL, IDAHO FALLS
-------------	---

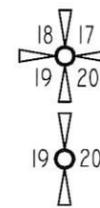
<b>English</b>	<i>Monica Crider</i>
COUNTY BONNEVILLE	Approved for Advertising
KEY NUMBER 20461	<b>12/26/2024</b>
SHEET 1 OF 25	Date Approved

E:\5-RIGHT-OF-WAY PLATS\CITY PLATS\Holmes and John Adams ROW Plat\LHTAC Total Ownership Map\TRF-2021-20 K20461 MAIN.dwg, 8/16/2024 9:25:24 AM



### LEGEND

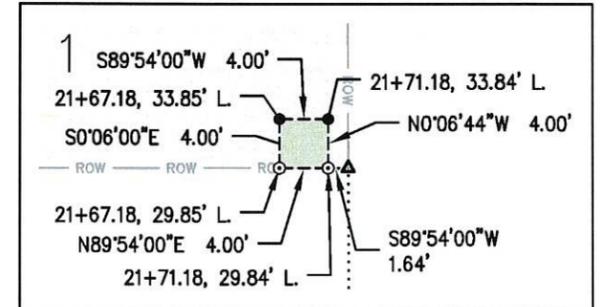
- ⊙ SET COPPERHEAD MONUMENT AND MAGNET MARKED PLS 9755
- ▲ CALCULATED POINT / NOTHING SET
- SET 5/8" PIN WITH ALUMINUM CAP MARKED PLS 9755
- PL — EXISTING PROPERTY LINE / LOT LINE
- - - - - NEW PERMANENT EASEMENT LINE
- SL - SL - PLSS SECTION LINE OR SECTIONAL SUBDIVISION LINE
- ROW — EXISTING RIGHT-OF-WAY LINE
- ..... TIE LINE
- PROJECT ALIGNMENT
- CP&F CORNER PERPETUATION AND FILING RECORD
- R-O-W RIGHT-OF-WAY LINE
- \* ASTERISK INDICATES THE PARCEL IS FOR INFORMATION ONLY



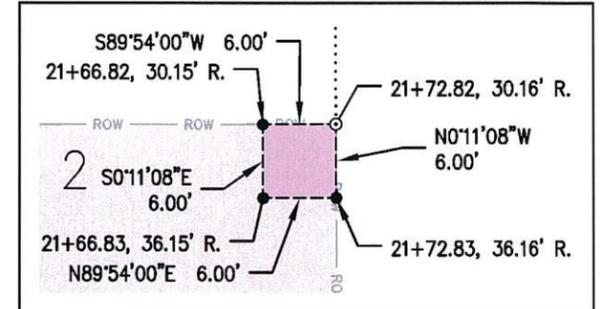
FOUND PLSS SECTION CORNER COMMON TO SECTIONS SHOWN

FOUND PLSS 1/4 CORNER COMMON TO SECTIONS SHOWN

**DETAIL A (PERMANENT EASEMENT) PARCEL PE-1**



**DETAIL B (PERMANENT EASEMENT) PARCEL PE-2**



Parcel No.	Parcel ID No.	Record Owner	Total Ownership Assessed Ac.	Right-of-Way		Remainder		Easement	
				Req'd Ac.	Exst. Ac.	Left Ac.	Right Ac.	Perm. Ac.	Temp. Ac.
1	RPA0540016042A	Mason Paul C	±0.215	0	0	0.215	0	0.000367	0
2	RPA0540017001A	221B Baker St Properties LLC	±0.430	0	0	0	0.430	0.000826	0
*3	RPA00008203474	City of Idaho Falls	NA	0	0	0	0	0	0
*4	RPA00008203474	City of Idaho Falls	NA	0	0	0	0	0	0

If the electronic signature is not clearly present on this document, it has been modified from its original version and the Surveyor's Seal is no longer valid.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
K ROBERTS

DESIGN CHECKED  
K ROBERTS

DETAILED  
K ROBERTS

DRAWING CHECKED  
K ROBERTS

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME  
TRF-2021-20 K20461 MAIN.dwg

DRAWING DATE:  
AUGUST 2024

**IDAHO TRANSPORTATION DEPARTMENT**

**CITY OF IDAHO FALLS**

PROJECT NO.  
A020(461)

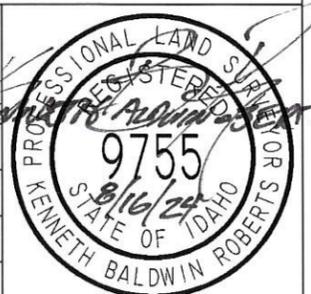
TOTAL OWNERSHIP MAP  
INT 5TH & HOLMES  
SIGNAL, IDAHO FALLS

**English**

COUNTY  
BONNEVILLE

KEY NUMBER  
20461

SHEET 2 OF 25



### CLEARANCES

PROJECT STANDARDS  
 CONCEPT APPROVAL  AASHTO  3R  1R  STATE  
 PM  OTHER \_\_\_\_\_

DESIGN EXCEPTIONS: \_\_\_\_\_

PUBLIC HEARING WAIVER \_\_\_\_\_

PUBLIC HEARING DATE (Latest hearing date held or scheduled for opportunity) \_\_\_\_\_

DESIGN APPROVAL \_\_\_\_\_

RECLAMATION PLAN APPROVAL NO(S) \_\_\_\_\_

AIRPORT \_\_\_\_\_

Land Survey Monument Search and Documentation (I.C.55-1613) \_\_\_\_\_

R/W CERTIFICATE: Issued by  HQ  DISTRICT \_\_\_\_\_

TRIBAL LANDS:  AGREEMENT REQUIRED  SPECIAL PROVISIONS FOR CONTRACT PROPOSAL

BRIDGE PS & E \_\_\_\_\_

ENVIRONMENTAL DECISION: TYPE  CAT-EX  FONSI  ROD \_\_\_\_\_

ENVIRONMENTAL RE-EVALUATION \_\_\_\_\_

CLEARED UNDER PROJECT NO.	APPROVAL DATE
A020(461)	3/31/2022
N/A	N/A
N/A	N/A
N/A	N/A
A020(461)	8/8/2024
N/A	N/A
A020(461)	8/8/2024
N/A	N/A
N/A	N/A
A020(461)	8/16/2024
A020(461)	8/6/2024
N/A	N/A
N/A	N/A
A020(461)	4/2/2024
A020(461)	9/5/2024

### ACCESS CONTROL DETERMINATION

FROM FORM ITD-606 (SUBMITTED FOR CHANGE ONLY)

Approved by Assistant Chief Engineer (Dev.): \_\_\_\_\_ **NO CHANGE**  
 Date \_\_\_\_\_

PROJECT NO. \_\_\_\_\_ LOCATION \_\_\_\_\_ TYPE OF CONTROL \_\_\_\_\_  
 N/A

DESCRIPTION OF CONTROL TYPE: N/A

### PERMITS

IDAHO DEPARTMENT OF WATER RESOURCES PERMIT NO(S) \_\_\_\_\_

US ARMY CORPS OF ENGINEERS 404 PERMIT NO(S) \_\_\_\_\_

OTHER \_\_\_\_\_

DEQ SECTION 401 WATER QUALITY CERTIFICATION  YES  NO

NPDES GENERAL PERMIT/SWPPP REQUIRED:  YES  NO

THIRD PARTY INSPECTION REQUIRED  YES  NO

POLLUTION PREVENTION PLAN REQUIRED  YES  NO

	EXPIRATION DATE
N/A	N/A
N/A	N/A
N/A	N/A

### AGREEMENTS (List Appropriate Name)

LOCAL: CITY \_\_\_\_\_  
 COUNTY \_\_\_\_\_  
 HIGHWAY DISTRICT \_\_\_\_\_  
 ROAD CLOSURE AND MAINTENANCE \_\_\_\_\_  
 STATE/LOCAL CONSTRUCTION \_\_\_\_\_ CITY OF IDAHO FALLS

IRRIGATION DISTRICT(S): Crossing Agreement Required  YES  NO  
 (Signatures Required on either Structure Drawing or Bridge Sheet)

UTILITY HEARING WAIVER	AGREEMENT	AGREEMENT NO.
4/2/24	N/A	N/A
3/29/24	N/A	N/A
4/23/24	N/A	N/A
4/2/24	N/A	N/A
3/29/24	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

UTILITIES: List all Utilities shown on plans  RETAIN & PROTECT

Co. CITY OF IDAHO FALLS (POWER, WATER, AND SEWER)

Co. INTERMOUNTAIN GAS

Co. SPARKLIGHT

Co. LUMEN

Co. BLACKFOOT COMMUNICATIONS

Co. \_\_\_\_\_

Co. \_\_\_\_\_

RAILROAD: List all Railroads encroached upon

Co. \_\_\_\_\_

Co. \_\_\_\_\_

AGREEMENT FOR	EFFECTIVE DATE	NO.
N/A	N/A	N/A
N/A	N/A	N/A

### ESTIMATING BASIS

TACK AND PRIME: CSS-1 DILUTED EMULSIFIED ASPHALT FOR TACK COAT AT 0.1 GAL/S.Y.

PAVING: SUPERPAVE HMA PLANTMIX PAVEMENT CI SP3 IS SPECIFIED FOR THE HMA PATCHES ON THIS PROJECT.

PG 58-28 ASPHALT CEMENT FOR SUPERPAVE HMA PLANTMIX PAVEMENT CI SP3 AT 6.0%, BY WEIGHT OF MIX, INCLUDING 0.5% ANTI-STRIPPING ADDITIVE. EST. @ 148 LB/C.F.

AGGREGATE: 3/4" AGGREGATE TYPE B FOR BASE @ 140 LB/C.F.

NOTE: THE CONTRACTOR WILL BE REQUIRED TO FURNISH A SOURCE (OR SOURCES) FOR ALL ITEMS ON THIS PROJECT. THEY MAY BE ALLOWED TO USE STATE OWNED OR STATE-CONTROLLED SOURCES.

CLASS A COMPACTION IS SPECIFIED.

+ ENTER "N/A" WHEN NOT APPLICABLE  
 ++ LPA PROJECTS - DATE ENTERED BY ROADWAY DESIGN WHEN PROJECT SENT TO PS&E.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED C. WILKINS  
 DESIGN CHECKED C. CANFIELD  
 DETAILED C. WILKINS  
 DRAWING CHECKED C. CANFIELD

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY  
 CADD FILE NAME TRF-2021-20 K20461 MAIN.dwg  
 DRAWING DATE: AUGUST 2024

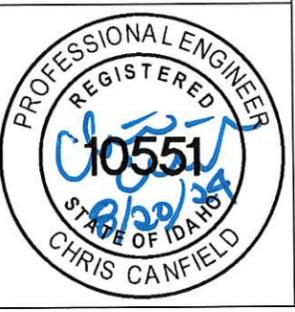
IDAHO TRANSPORTATION DEPARTMENT  
 CITY OF IDAHO FALLS



PROJECT NO. A020(461)

PROJECT CLEARANCE SUMMARY  
 INT 5TH & HOLMES SIGNAL, IDAHO FALLS

**English**  
 COUNTY BONNEVILLE  
 KEY NUMBER 20461  
 SHEET 3 OF 25

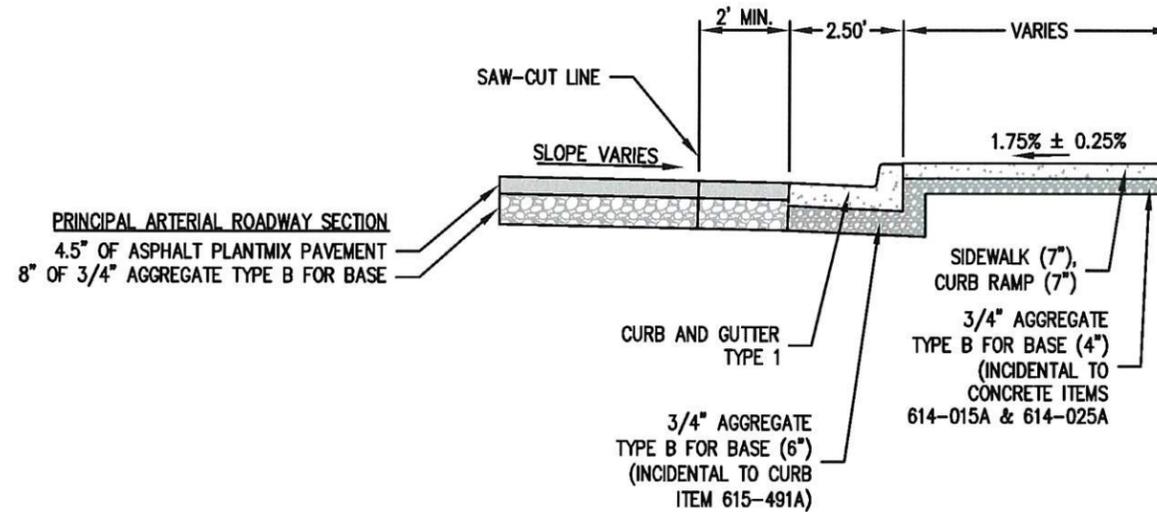


**NOTES**

1. CAUTION MUST BE USED WHEN EXCAVATING IN THIS AREA. CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. CALL 811 FOR LOCATE.
2. RETAIN & PROTECT ALL UTILITIES WHERE POSSIBLE UNLESS SHOWN OTHERWISE. IF ANY UTILITIES NEED TO BE ADJUSTED BASED ON FIELD LOCATE, COORDINATE WITH THE UTILITY OWNER
3. SAW-CUT FULL DEPTH AND REMOVE AND REPLACE ASPHALT/BASE AS REQUIRED (4.5"/8") FOR CURB AND GUTTER REPLACEMENT (INCIDENTAL TO CURB/GUTTER REPLACEMENT).
4. TRANSITION CURB MAY BE REQUIRED TO BE INSTALLED FOR NEW CURB RAMPS. CURB SHALL BE INCIDENTAL TO CURB RAMP.
5. RETAIN AND PROTECT ALL EXISTING LANDSCAPING AND SPRINKLER SYSTEMS. IF NOT POSSIBLE THEN RESTORE TO EXISTING OR BETTER.(INCIDENTAL)
6. ALIGNMENT POINTS OF INTERSECTION (P.I.) ARE CALCULATED LOCATIONS, CREATED FOR ALIGNMENT PURPOSES ONLY. ACTUAL BOUNDARY SURVEY P.I.'s MAY DIFFER.

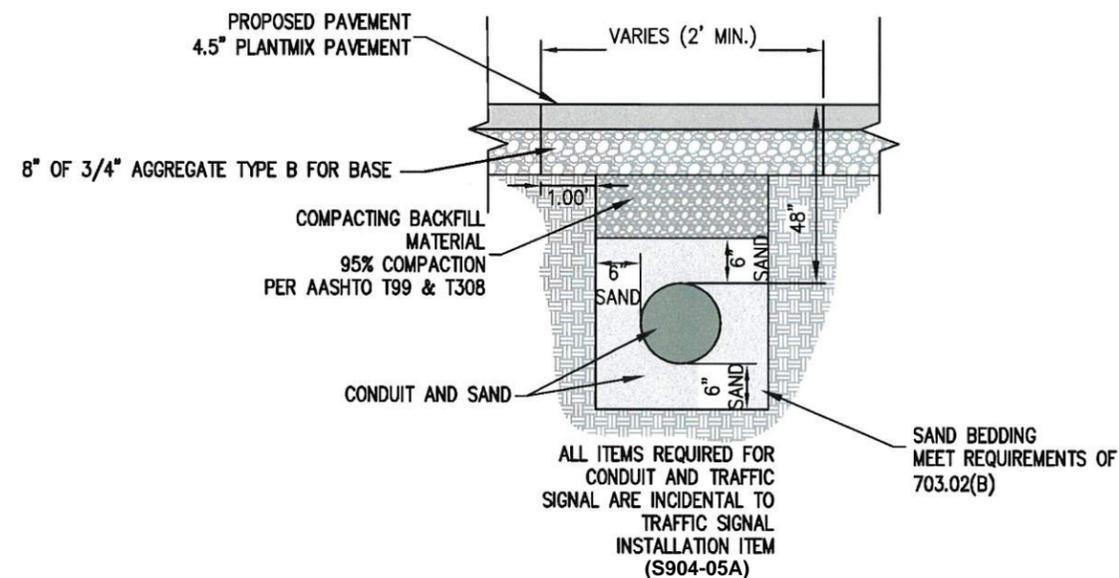
**TYPICAL CURB & GUTTER DETAIL**

NOT TO SCALE



**TRAFFIC SIGNAL CONDUIT INSTALLATION**

NOT TO SCALE



**BASIS OF BEARINGS**

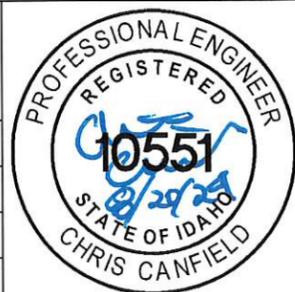
THE BEARING ALONG THIS LINE IS THE BASIS FOR ALL OTHER BEARINGS LISTED ON THE PROJECT SURVEY. THIS BEARING RELATES DIRECTLY TO THE "CITY OF IDAHO FALLS COORDINATE SYSTEM OF 2004" WHICH IS DERIVED FROM THE IDAHO STATE PLANE COORDINATE SYSTEM (EAST ZONE 1101) US SURVEY FEET AND USING A COMBINED SCALE FACTOR OF 1.00027265 FOR A GRID TO GROUND CONVERSION. THE SYSTEM ORIENTATION IS BASED ON GRID NORTH ALONG THE EAST ZONE CENTRAL MERIDIAN. NO CONVERGENCE ANGLE HAS BEEN APPLIED.

**ENGINEERS NOTE:**

IN COMPLIANCE WITH IDAHO CODE § 55-1613 A FIELD SEARCH AND LOCATION SURVEY HAS BEEN CONDUCTED UNDER THE DIRECTION OF A PROFESSIONAL LAND SURVEY PRIOR TO THIS PROJECT'S CONSTRUCTION. ALL POINTS THAT WILL BE DISTURBED WILL BE REPLACED BY CITY FORCES.

**CONTROL POINT NOTE:**

ALL CONTROL IS PURSUANT TO THE CITY OF IDAHO FALLS COORDINATE SYSTEM OF 2004 AND THE VERTICAL CONTROL DATUM OF GEOID 03 AND THE CITY OF IDAHO FALLS NAVD 88.



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED C. WILKINS
DESIGN CHECKED C. CANFIELD
DETAILED C. WILKINS
DRAWING CHECKED C. CANFIELD

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME TRF-2021-20 K20461 MAIN.dwg
DRAWING DATE: AUGUST 2024

**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**

CITY OF IDAHO FALLS

PROJECT NO.	A020(461)
-------------	-----------

TYPICAL SECTIONS & CONTROL	INT 5TH & HOLMES SIGNAL, IDAHO FALLS
----------------------------	---

<b>English</b>
COUNTY BONNEVILLE
KEY NUMBER 20461
SHEET 4 OF 25

SHEET NUMBER				PL	PL	TRFC														
				6	7	8														
ITEM NO.	ITEM	UNIT	TOTAL																	
203-006A	REM OF SIGN	EACH	3	3																
203-060A	REM OF CONC SIDEWALK	SY	101	101																
203-070A	REM OF CURB & GUTTER	FT	141	141																
212-095A	INLET PROTECTION	EACH	6	6																
212-105A	WATER AND POLLUTION	CA	2000																	
614-015A	SIDEWALK (7")	SY	75	75																
614-025A	CURB RAMP	SY	34	34																
615-491A	CURB & GUTTER TYPE 1	FT	141	141																
616-080A	REINSTALL SIGNS	EACH	3	3																
626-010A	TEMPORARY TRAFFIC CONTROL SIGNS	SF	577				577													
626-040A	BARRICADE TYPE 3	EACH	7				7													
626-050A	DRUMS	EACH	9				9													
626-100A	MISC TEMPORARY TRAF CONT ITEMS	CA	3000																	
626-105A	TRAFFIC CONTROL MAINTENANCE	HR	120				120													
626-120A	FLAGGER CONTROL	HR	80				80													
626-135A	WEIGHTED BASE TUBULAR MARKERS	EACH	12				12													
S904-05A	TRAF SIGNAL INSTALLATION	LS	1																	
S900-50A	CONTINGENCY AMOUNT - MISCELLANEOUS WORK	CA	5000																	
S900-50E	CONTINGENCY AMOUNT - UNIDENTIFIED UTILITIES	CA	2000																	
Z629-05A	MOBILIZATION	LS	1																	

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED C. WILKINS	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED C. CANFIELD	
DETAILED C. WILKINS	CADD FILE NAME TRF-2021-20 K20461 MAIN.dwg
DRAWING CHECKED C. CANFIELD	DRAWING DATE: AUGUST 2024

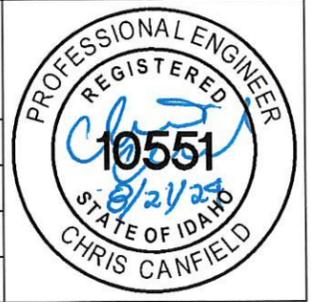
**IDAHO**  
 TRANSPORTATION  
 DEPARTMENT  
 CITY OF IDAHO FALLS



PROJECT NO.  
A020(461)

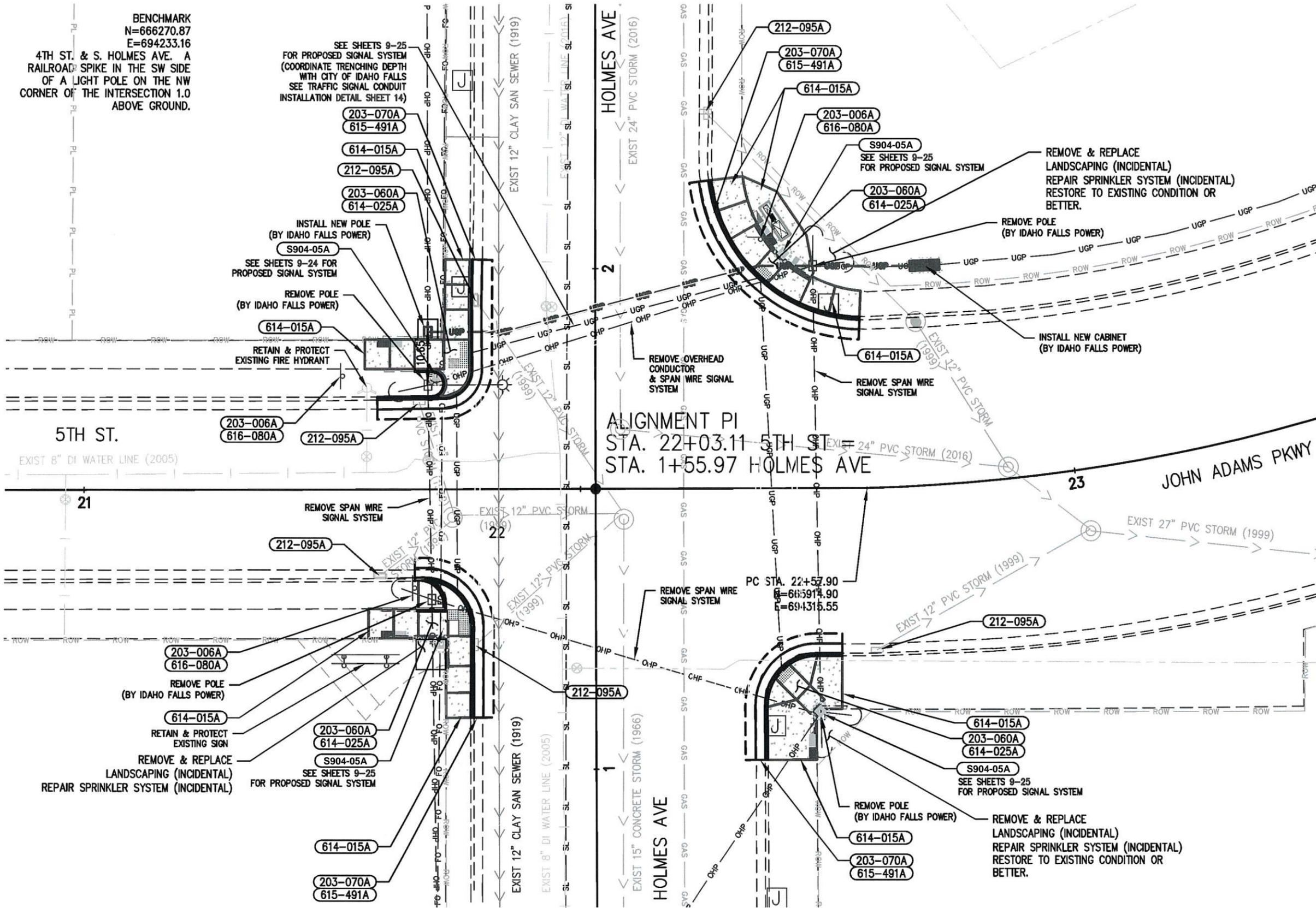
ROADWAY SUMMARY  
INT 5TH & HOLMES  
SIGNAL, IDAHO FALLS

**English**  
 COUNTY BONNEVILLE  
 KEY NUMBER 20461  
 SHEET 5 OF 25

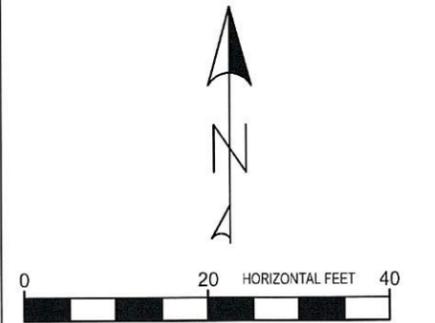


BENCHMARK  
N=666270.87  
E=694233.16  
4TH ST. & S. HOLMES AVE. A  
RAILROAD SPIKE IN THE SW SIDE  
OF A LIGHT POLE ON THE NW  
CORNER OF THE INTERSECTION 1.0  
ABOVE GROUND.

SEE SHEETS 9-25  
FOR PROPOSED SIGNAL SYSTEM  
(COORDINATE TRENCHING DEPTH  
WITH CITY OF IDAHO FALLS  
SEE TRAFFIC SIGNAL CONDUIT  
INSTALLATION DETAIL SHEET 14)



- (203-006A) REM OF SIGN  
1 EACH, 1+36, LT  
1 EACH, 1+79, LT  
1 EACH, 2+06, RT
- (203-060A) REM OF CONC SIDEWALK  
20 S.Y., 1+10 - 1+38, LT  
22 S.Y., 1+74 - 2+01, LT  
26 S.Y., 1+01 - 1+22, RT  
33 S.Y., 1+90 - 2+11, RT
- (203-070A) REM CURB & GUTTER  
33 F.T., 1+02 - 1+22, RT  
31 F.T., 1+10 - 1+38, LT  
32 F.T., 1+75 - 2+02, LT  
45 F.T., 1+90 - 2+18, RT
- (212-095A) INLET PROTECTION  
1 EACH, 1+24, RT  
1 EACH, 1+25, LT  
1 EACH, 1+39, LT  
1 EACH, 1+73, LT  
1 EACH, 1+94, LT  
1 EACH, 2+32, RT
- (614-015A) SIDEWALK (7")  
12 S.Y., 1+02 - 1+12, RT  
6 S.Y., 22+48 - 22+53, RT  
8 S.Y., 1+10 - 1+20, LT  
7 S.Y., 21+57 - 21+67, RT  
7 S.Y., 21+57 - 21+67, LT  
6 S.Y., 1+91 - 2+01, LT  
8 S.Y., 2+09 - 2+18, RT  
7 S.Y., 22+47 - 22+57, LT  
14 S.Y., 1+98 - 2+18, RT
- (614-025A) CURB RAMP (7")  
8 S.Y., 1+13 - 1+22, RT  
7 S.Y., 1+10 - 1+38, LT  
8 S.Y., 1+75 - 1+91, LT  
11 S.Y., 1+98 - 2+09, RT
- (615-491A) CURB & GUTTER (TYPE 1)  
33 F.T., 1+02 - 1+22, RT  
31 F.T., 1+10 - 1+38, LT  
32 F.T., 1+75 - 2+02, LT  
45 F.T., 1+90 - 2+18, RT
- (616-080A) REINSTALL SIGNS  
1 EACH, 1+36, LT  
1 EACH, 1+79, LT  
1 EACH, 2+06, RT
- (S904-05A) TRAFFIC SIGNAL INSTALLATION  
1 LS  
SIGNAL POLE 1+11, RT  
SIGNAL POLE 1+25, LT  
SIGNAL POLE 1+78, LT  
SIGNAL POLE 2+02 RT



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
C. WILKINS  
DESIGN CHECKED  
C. CANFIELD  
DETAILED  
C. WILKINS  
DRAWING CHECKED  
C. CANFIELD

SCALES SHOWN  
ARE FOR 11" X 17"  
PRINTS ONLY  
CADD FILE NAME  
TRF-2021-20 K20461 MAIN.dwg  
DRAWING DATE:  
AUGUST 2024

IDAHO  
TRANSPORTATION  
DEPARTMENT  
CITY OF IDAHO FALLS



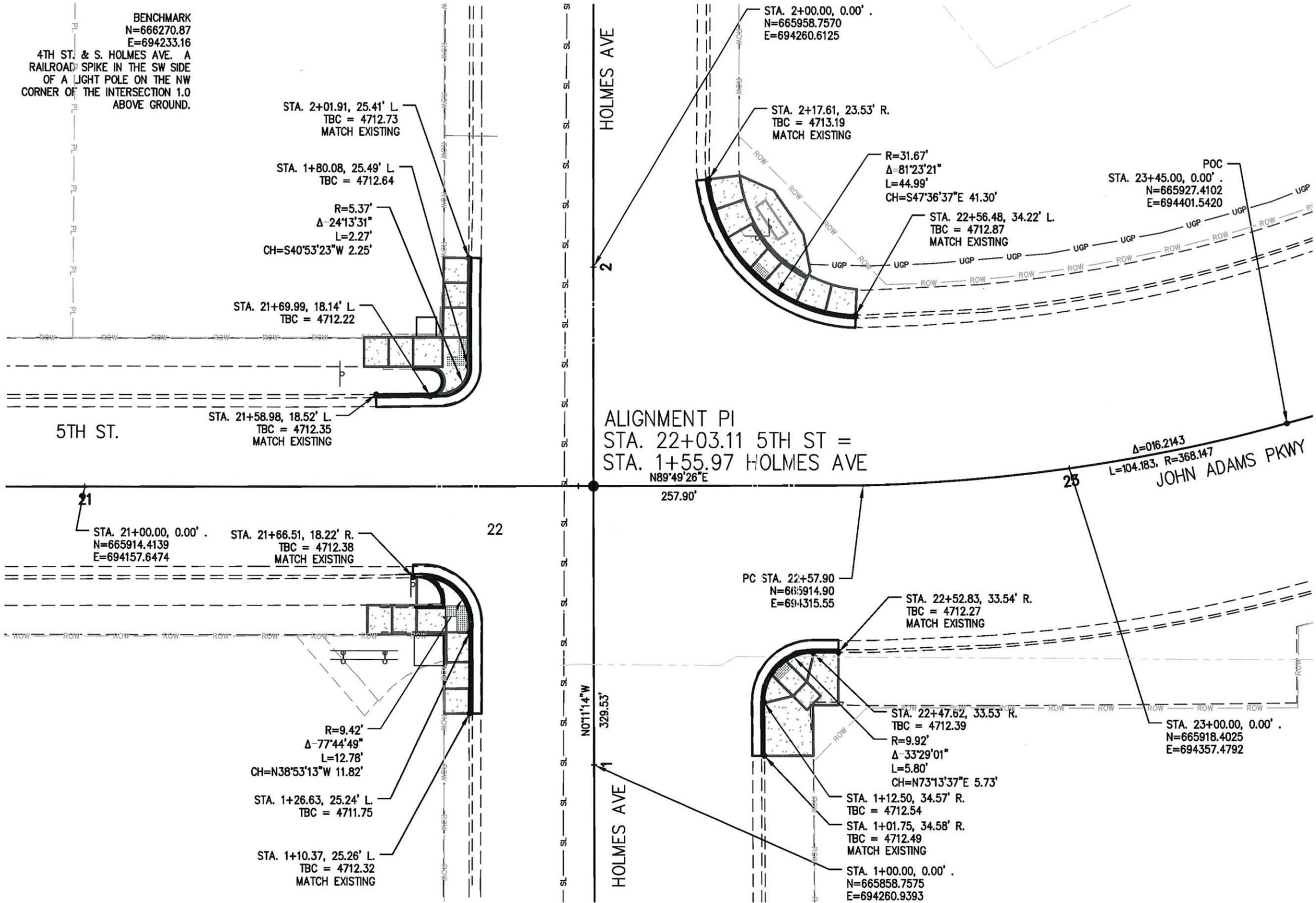
PROJECT NO.  
A020(461)

INTERSECTION PLAN  
INT 5TH & HOLMES  
SIGNAL, IDAHO FALLS

English  
COUNTY  
BONNEVILLE  
KEY NUMBER  
20461  
SHEET 6 OF 25



BENCHMARK  
 N=666270.87  
 E=694233.16  
 4TH ST. & S. HOLMES AVE. A  
 RAILROAD SPIKE IN THE SW SIDE  
 OF A LIGHT POLE ON THE NW  
 CORNER OF THE INTERSECTION 1.0  
 ABOVE GROUND.



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED C. WILKINS
DESIGN CHECKED C. CANFIELD
DETAILED C. WILKINS
DRAWING CHECKED C. CANFIELD

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME TRF-2021-20 K20461 MAIN.dwg
DRAWING DATE: AUGUST 2024

IDAHO  
 TRANSPORTATION  
 DEPARTMENT



CITY OF IDAHO FALLS

PROJECT NO.  A020(461)
------------------------------

GRADING PLAN  INT 5TH & HOLMES SIGNAL, IDAHO FALLS
---

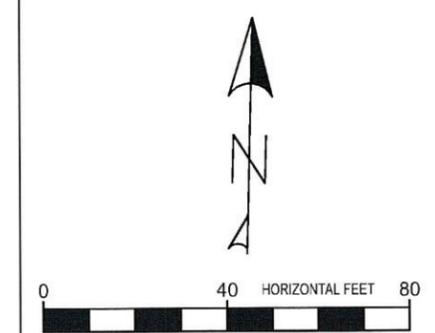
<b>English</b>
COUNTY BONNEVILLE
KEY NUMBER 20461
SHEET 7 OF 25

# GENERAL TRAFFIC CONTROL NOTES

1. ALL CONSTRUCTION SIGNING SHALL MEET OR EXCEED THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AS ADOPTED BY THE STATE.
2. ALL CONSTRUCTION WARNING SIGNS SHALL HAVE TWO WARNING FLAGS AND SHALL HAVE BATTERY OPERATED FLASHING WARNING LIGHTS IN OPERATION DURING THE HOURS OF DARKNESS OR AS DIRECTED.
3. ALL EXISTING WARNINGS AND REGULATORY SIGNS IN CONFLICT WITH CONSTRUCTION SIGNING SHALL BE REMOVED OR COVERED BY AN APPROVED METHOD WHILE CONSTRUCTION SIGNS ARE IN EFFECT.
4. THE DISTANCES SHOWN BETWEEN TRAFFIC CONTROL DEVICES ARE MINIMUMS; SOME ADJUSTMENT MAY BE NECESSARY IN THE FIELD DEPENDING ON CONDITIONS ENCOUNTERED.
5. ALL CONSTRUCTION SIGNING, TEMPORARY PAVEMENT MARKINGS, DRUMS AND TUBULAR MARKERS SHALL BE IN PLACE PRIOR TO ANY DIVERSION OF TRAFFIC WITHIN THE CONSTRUCTION ZONE.
6. THE CONSTRUCTION ZONES SHALL BE MONITORED A MINIMUM OF TWICE DAILY TO ENSURE ALL TRAFFIC CONTROL DEVICES ARE OPERATING EFFECTIVELY, AND THAT ALL DEVICES USED ARE CLEARLY VISIBLE AND IN GOOD REPAIR.
7. REFER TO CONTRACT SPECIAL PROVISIONS AS TO WHEN LANE CLOSURES AND DETOURS ARE ALLOWED TO BE IN PLACE.
8. PROVIDE INTERSECTION 2 WAY STOP CONTROL ON JOHN ADAMS PRKWY & 5TH FOR TRAFFIC CONTROL AT THE INTERSECTION DURING THE REMOVAL OF THE SPAN WIRE SYSTEM UNTIL THE SIGNAL IS FUNCTIONAL.

## APPROXIMATE TRAFFIC CONTROL PLAN SIGN QUANTITIES

SIGN NO.	DESCRIPTION	SIGN SIZE	AREA (SF)	QUAN.	TOTAL AREA SF / CLASS B
G20-2	END ROAD WORK	18" X 36"	4.5	4	18
R1-1	STOP	36"X36"	9	3	27
R9-9	SIDEWALK CLOSED	48"X24"	8	4	32
R9-11a	SIDEWALK CLOSED CROSS HERE	48"X24"	8	4	32
W4-2	LANE ENDS MERGE RIGHT	48"X48"	16	2	32
W20-1	ROAD WORK AHEAD	48"X48"	16	8	128
W20-5L	LEFT LANE CLOSED AHEAD	48"X48"	16	2	32
W20-7A	FLAGGER SYMBOL	48"X48"	16	4	64
W11-2	PEDESTRIAN SYMBOL	48"X48"	16	2	32
W16-7P	ARROW	12"X24"	2	2	4
W21-5	SHOULDER WORK	48"X48"	16	4	64
R9-8	PEDESTRIAN CROSSWALK	48"X24"	8	2	16
<b>TOTAL</b>					<b>481</b>
<b>20% CONTIGENCY</b>					<b>577</b>



REVISIONS			
NO.	DATE	BY	DESCRIPTION

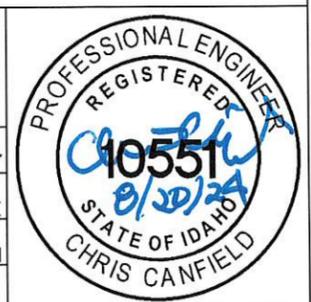
DESIGNED C. WILKINS DESIGN CHECKED C. CANFIELD DETAILED C. WILKINS DRAWING CHECKED C. CANFIELD	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY CADD FILE NAME TRF-2021-20 K20461 MAIN.dwg DRAWING DATE: AUGUST 2024
---	---

**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**

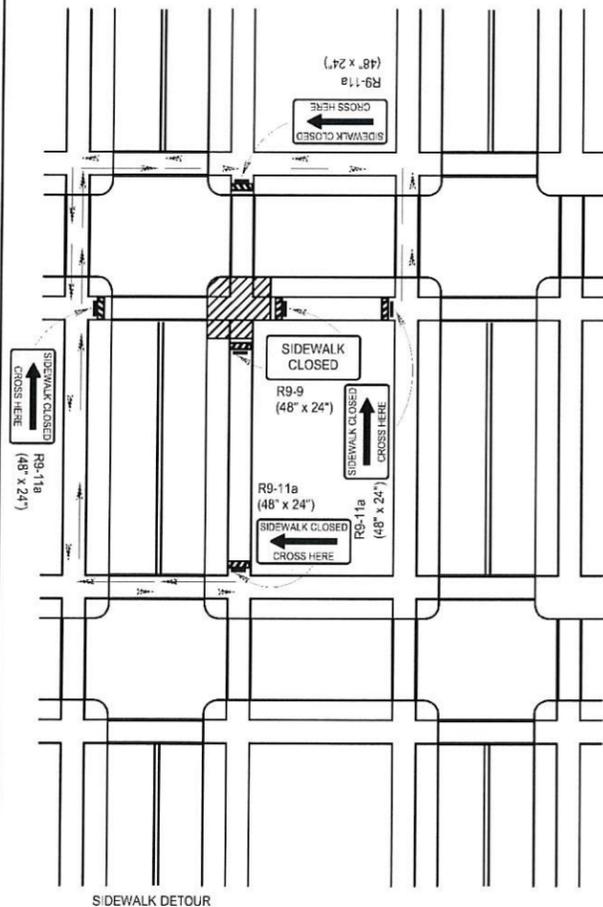
**CITY OF IDAHO FALLS**

PROJECT NO.	TRAFFIC CONTROL PLAN
A020(461)	INT 5TH & HOLMES SIGNAL, IDAHO FALLS

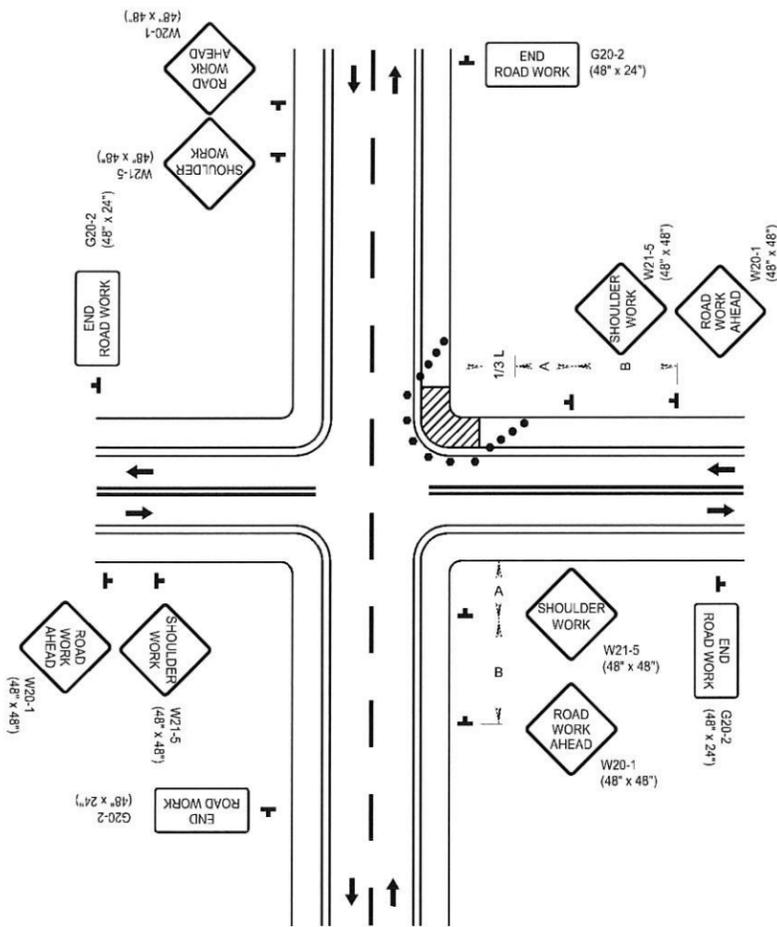
<b>English</b>	
COUNTY	BONNEVILLE
KEY NUMBER	20461
SHEET	8 OF 25



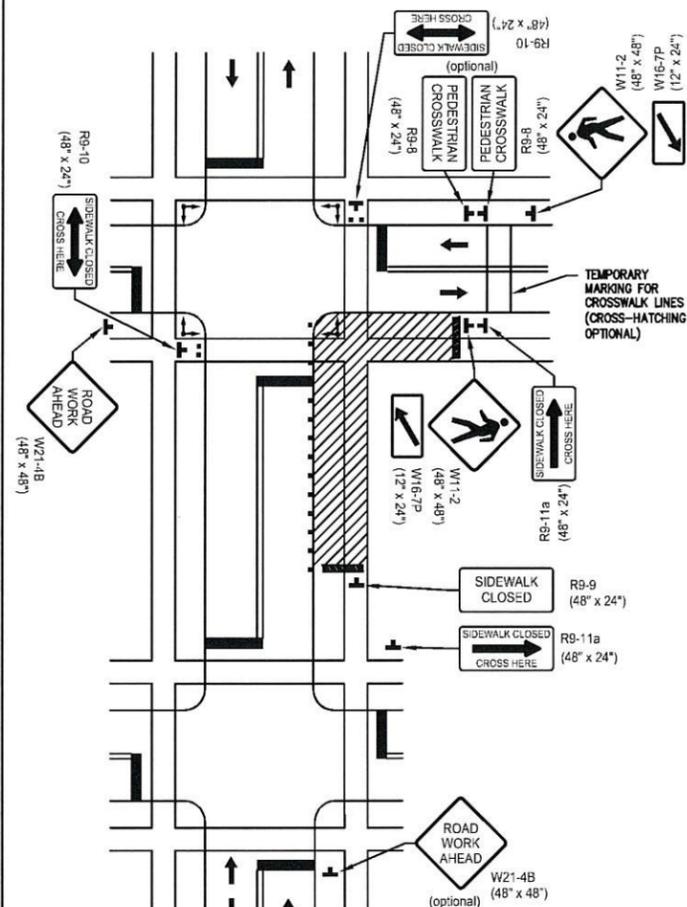
SIDEWALK DETOUR



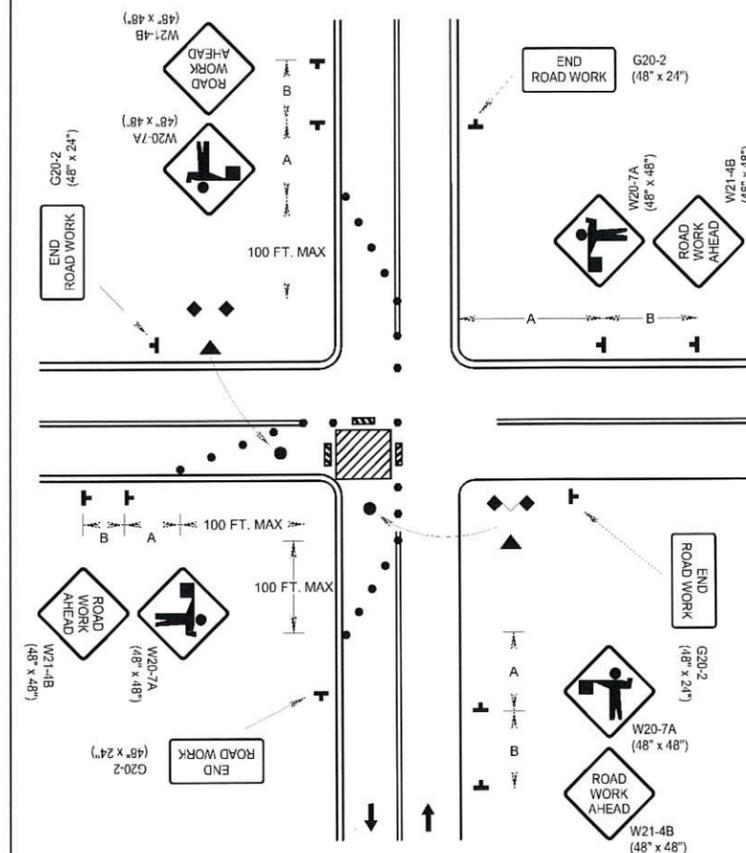
WORK ON SHOULDERS  
(M.U.T.C.D. TA-3)



CROSSWALK CLOSURES AND PEDESTRIAN DETOURS  
(M.U.T.C.D. TA-29)



CLOSURE AT SIDE OF INTERSECTION  
(M.U.T.C.D. TA-27)



MEANING OF SYMBOLS ON TYPICAL DIAGRAMS

- CHANNELIZING DEVICE
- ↑ DIRECTION OF TRAFFIC
- ↪ DIRECTION OF TEMPORARY TRAFFIC DETOUR
- ♠ FLAGGER
- ◆ HIGH LEVEL WARNING DEVICE (FLAG TREE)
- ▲ SIGN
- ▩ TYPE III BARRICADE
- ▨ WORK SPACE

MEANING OF LETTER CODES ON TYPICAL APPLICATION DIAGRAMS

ROAD TYPE	DISTANCE BETWEEN SIGNS**		
	A	B	C
URBAN (LOW SPEED)*	30 (100)	30 (100)	30 (100)
URBAN (HIGH SPEED)*	100 (350)	100 (350)	100 (350)
RURAL	150 (500)	150 (500)	150 (500)
EXPRESSWAY / FREEWAY	300 (1,000)	450 (1,500)	800 (2,640)

\* SPEED CATEGORY TO BE DETERMINED BY CITY OF IDAHO FALLS.  
 \*\* DISTANCES ARE SHOWN IN METERS (FEET). THE COLUMN HEADINGS A, B, AND C ARE THE DIMENSIONS SHOWN IN FIGURES 6H-1 THROUGH 6H-46. THE A DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN. THE B DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS. THE C DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS. (THE THIRD SIGN IS THE FIRST ONE IN A THREE-SIGN SERIES ENCOUNTERED BY A DRIVER APPROACHING A TEMPORARY TRAFFIC CONTROL ZONE.)

FORMULAS FOR L ARE AS FOLLOWS:

FOR SPEED LIMITS OF 60 KM/H (40 MPH) OR LESS:

$$L = \frac{WS^2}{150} \quad (L = \frac{WS^2}{60})$$

FOR SPEED LIMITS OF 70 KM/H (45 MPH) OR GREATER:

$$L = \frac{WS}{1.6} \quad (L - WS)$$

WHERE:

L = TAPER LENGTH IN METER (FEET)  
 W = WIDTH OF OFFSET IN METER (FEET)  
 S = POSTED SPEED LIMIT, OR OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED IN KM/H (MPH)

NOTES:

1. RECOMMENDED SIGNING SEQUENCE AT THE BEGINNING OF THIS PROJECT. SIGNS WITHIN BRACKET ARE TO BE PLACED AT INTERVALS AS DIRECTED BY THE ENGINEER.
2. CONFIRMING M.P.H. SIGNS SHALL BE PLACED AT THE END OF THE WORK ZONE.
3. COVER ALL CONFLICTING SIGNS WITHIN THE PROJECT. SIGNS SHALL BE COVERED USING AN APPROVED METHOD. SIGNS DAMAGED SHALL BE REPLACED AT NO COST TO THE STATE.
4. SIGNING IS TYPICAL FOR BOTH DIRECTIONS OF TRAFFIC.
5. TEMPORARY FLEXIBLE RAISED PAVEMENT MARKERS SHALL BE SUPPLIED AND PLACED BY THE CONTRACTOR, AND CONSIST OF APPROXIMATELY 10,300 TABS. TABS SHALL BE PLACED ACCORDING TO THE TEMP, FLEX, RAISED PAVEMENT MARKING SHEET. ALL TABS SHALL BE DOUBLE COVERED.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED C. WILKINS
DESIGN CHECKED C. CANFIELD
DETAILED C. WILKINS
DRAWING CHECKED C. CANFIELD

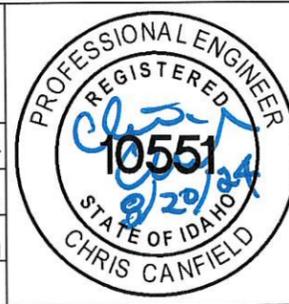
SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME TRF-2021-20 K20461 MAIN.dwg
DRAWING DATE: AUGUST 2024

  
**IDAHO  
TRANSPORTATION  
DEPARTMENT**  
 CITY OF IDAHO FALLS

PROJECT NO.  A020(461)
------------------------------

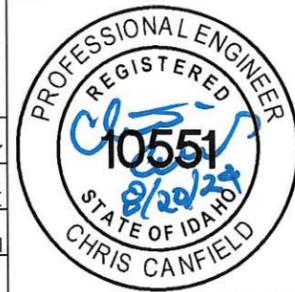
TRAFFIC CONTROL PLAN  INT 5TH & HOLMES SIGNAL, IDAHO FALLS
---

<b>English</b>
COUNTY BONNEVILLE
KEY NUMBER 20461
SHEET 9 OF 25



ITEMS TO BE FURNISHED BY CONTRACTOR FOR TRAFFIC SIGNAL INSTALLATION (ITEM S904-05A)			ITEMS TO BE FURNISHED BY CONTRACTOR FOR TRAFFIC SIGNAL INSTALLATION (ITEM S904-05A)			NOTES
ITEM#	QUANTITY	DESCRIPTION	ITEM#	QUANTITY	DESCRIPTION	
1	1 EACH	SIGNAL CABINET AND CONTROLLER, SIGNAL CABINET TO BE TS-2, TYPE 1, NEMA 'P' TRAFFIC SIGNAL CABINET, WITH CONTROLLER AND ALL RELATED EQUIPMENT, RELAYS, MMU STRETCH, AND LOAD SWITCHES. SIGNAL CABINET SHALL MEET I.F. POWER'S CURRENT SPECIFICATIONS WHICH ARE AVAILABLE FROM CITY OF IDAHO FALLS PUBLIC WORKS. CONTROLLER TO BE ECONOLITE MODEL COBALT ATC. MMU TO BE ECONOLITE MODEL MMU-16-LEIP SMART MONITOR.	18	1 EACH	VEHICLE SIGNAL HEAD, FOUR-SECTION VERTICAL, 12", EMPTY, POLYCARBONATE, WITH 5" BLACK BACKPLATE AND 12" OLIVE GREEN TUNNEL VISORS. TO BE PEEK NO. PSC04C4000, 121212PE, 0700493C; SIEMENS ITS NOS. SG104A1C11GGG40, BPP504ANF, A7001205; OR McCAIN NOS. M32700, M18219, M19273; OR APPROVED EQUAL. BACKPLATE TO INCLUDE RETROREFLECTIVE BORDER, TO BE 3M DIAMOND GRADE CONSPICUITY SHEETING SERIES 983-71 YELLOW TAPE IN 2 INCH WIDTH. RETROREFLECTIVE TAPE TO BE ALIGNED ON THE OUTER EDGE OF THE BACKPLATE. (SIGNAL HEAD 7)	1. ALL ITEMS TO BE FURNISHED FOR TRAFFIC SIGNAL INSTALLATION (ITEM S904-05A) WILL COMPLY WITH BUY AMERICA PROVISIONS FOR REQUIRED MATERIALS STEEL, IRON, ALUMINUM, ETC). IF LISTED ITEMS DO NOT MEET BUY AMERICA PROVISIONS, APPROVED EQUAL SUBMITTALS WILL STILL BE REQUIRED TO MEET BUY AMERICA PROVISIONS.
2	1 EACH	ELECTRICAL SERVICE PEDESTAL, TYPE 3 UNDERGROUND 100 AMP, DUAL METERED AND CONFIGURED AS PER SCHEMATIC, 120/240 VOLT, SINGLE PHASE (TRAFFIC SIGNAL AND LIGHTING SERVICE) TO BE MEYERS MODEL NO. MEUG24-D-UPS, MILBANK MODEL NO. CP3B2212HBWNT04, TESCO MODEL 27 OR APPROVED EQUAL.	19	12" VEHICLE SIGNAL MODULES, WITH QUICK DISCONNECT LEADS, SMOOTH LENS SURFACE, 120 VAC. TO BE THE FOLLOWING OR APPROVED EQUAL:		
3	1 EACH	BATTERY BACKUP SYSTEM, UPS UNIT WITH BATTERIES AND ENCLOSURE, TO BE TESCO NO. 22-BBS, ALPHA TECHNOLOGIES NO. SE48-1616 OR APPROVED EQUAL.		GELCOR LEOTEK DIALIGHT		
4	1 EACH	COMBINATION SIGNAL AND LUMINAIRE POLE (INCLUDING ANCHOR BOLTS AND POLE BASE COVERS), GALVANIZED STEEL, TO BE CLASS 2, WITH 30' SIGNAL MAST ARM AT 20' MOUNTING HEIGHT AND 15' LUMINAIRE MAST ARM AT 30' MOUNTING HEIGHT. TO BE VALMONT DS-32 SERIES, AMERON N SERIES, UNION METAL 203 SERIES OR APPROVED EQUAL. (POLE A)	10 EACH	LED RED BALL DR6-RTFB-17A TSL-12R-LX-IL6-A1 433-12100-003XL		
5	1 EACH	COMBINATION SIGNAL AND LUMINAIRE POLE (INCLUDING ANCHOR BOLTS AND POLE BASE COVERS), GALVANIZED STEEL, TO BE CLASS 1, WITH 55' SIGNAL MAST ARM AT 20' MOUNTING HEIGHT AND 15' LUMINAIRE MAST ARM AT 30' MOUNTING HEIGHT. TO BE VALMONT DS-32 SERIES, AMERON N SERIES, UNION METAL 203 SERIES OR APPROVED EQUAL. (POLE B)	10 EACH	LED YELLOW BALL DR6-YTFB-17A TSL-12Y-LX-IL6-A1 433-3230-001XL		
6	1 EACH	DUAL SIGNAL POLE (INCLUDING ANCHOR BOLTS AND POLE BASE COVERS), GALVANIZED STEEL, TO BE CLASS 2, WITH 40' SIGNAL MAST ARM AT 20' MOUNTING HEIGHT AND 30' MAST ARM AT 20' MOUNTING HEIGHT. TO BE VALMONT DS-32 SERIES, AMERON N SERIES, UNION METAL 203 SERIES OR APPROVED EQUAL. (POLES C)	10 EACH	LED GREEN BALL DR6-GCFB-17A TSL-12G-LX-IL6-A1-CLR 433-2270-001XL		
7	1 EACH	PEDESTRIAN SIGNAL POLE (INCLUDING ANCHOR BOLTS), TO BE 4" SCH 40 A-53 GALVANIZED STEEL PIPE WITH PELCO PB5308 PEDESTAL BASE. (POLE D)	1 EACH	LED RED ARROW DR6-RTAAN-17A TSL-12RA-IL6-A1 432-1314-001		
8	1 EACH	FOUNDATION, REINFORCED CONCRETE, FOR COMBINATION SIGNAL CABINET TYPE P, UPS AND SERVICE PEDESTAL WITH CONCRETE PAD. REFER TO CITY STANDARD DRAWING IF-1110 FOR DETAILS.	2 EACH	LED YELLOW ARROW DR6-YTAAAN-17A TSL-12YA-IL6-A1 431-3334-001		
9	3 EACH	FOUNDATION, TYPE F FOR SIGNAL POLE. REFER TO CITY STANDARD DRAWING IF-1109. (POLES A, B, D AND C)	1 EACH	LED GREEN ARROW DR6-GCAAN-17A TSL-12GA-IL6-A1-CLR 432-2374-001		
10	1 EACH	FOUNDATION, TYPE A FOR PEDESTRIAN SIGNAL POLE. REFER TO CITY STANDARD DRAWING IF-1109. (POLE D)	20	6 EACH THREE-SECTION VEHICLE SIGNAL HEAD MOUNTING BRACKETS FOR MAST ARM MOUNTING, TO BE PELCO AS-0116-3-56. (SIGNAL HEADS 1, 2, 4, 5, 8 AND 10)		
11	2 EACH	LUMINAIRE, 163W, LED WITH 120-277V VOLTAGE, 4000K NOMINAL COLOR TEMPERATURE, TYPE III DISTRIBUTION, GRAY FINISH AND 700MA DRIVE CURRENT. TO BE LEOTEK NO. EC7-18M-MV-NW-3-GY-700. (POLES A AND B)	21	1 EACH FOUR-SECTION VEHICLE SIGNAL HEAD MOUNTING BRACKETS FOR MAST ARM MOUNTING, TO BE PELCO AS-0116-4-56. (SIGNAL HEAD 7)		
12	1 EACH	PHOTOELECTRIC CONTROL, 240-VOLT, TO BE MOUNTED ON RECEPTACLE PROVIDED IN ELECTRICAL SERVICE PEDESTAL, TO BE INTERMATIC MODEL NO. LC 2000 SERIES, GE MODEL NO. PECOTL, FISHER-PIERCE MODEL NO. 7790 ESS OR APPROVED EQUAL.	22	4 EACH VEHICLE SIGNAL HEAD MOUNTING BRACKETS FOR SIDE POLE MOUNTING, TO BE NORTHWEST SIGNAL SUPPLY NO. SV-1-T. (SIGNAL HEADS 3, 6, 9 AND 11)		
13	8 EACH	JUNCTION BOX, 17" X 30" X 18" DEEP, POLYMER CONCRETE COMPOSITE WITH TRAFFIC RATED COVER WITH "TRAFFIC SIGNAL" LOGO FOR SIGNAL AND DETECTION BOXES TO BE QUAZITE NO. PG1730BA18, CARSON IND. NO. H1730-18, ARMORCAS NO. A6001640TAPCX18 OR APPROVED EQUAL.	23	8 EACH PEDESTRIAN SIGNAL HEAD, 16" LED, COUNTDOWN TIMER WITH HOUSING, TO BE IDC NO. 7090-00 WITH DIALIGHT COUNTDOWN MODULE NO. 430-6479-001X. (SIGNAL HEADS 12, 13, 14, 15, 16, 17, 18, AND 19)		
14	2 EACH	JUNCTION BOX, 13" X 24" X 12" DEEP, POLYMER CONCRETE COMPOSITE WITH TRAFFIC RATED COVER WITH "ELECTRIC" LOGO FOR LIGHTING BOXES, TO BE QUAZITE NO. PG1324BA12, CARSON IND. NO. H1324-12, ARMORCAS NO. AG0001946TAPXX12 OR APPROVED EQUAL.	24	6 EACH PEDESTRIAN SIGNAL HEAD MOUNTING BRACKETS, TO BE NORTHWEST SIGNAL SUPPLY NO. SP-2-T FOR SIDE POLE MOUNTING. (SIGNAL HEADS 13, 14, 15, 16, 17, 18, 19, AND 20)		
15	1 EACH	JUNCTION BOX, 17" X 30" X 18" DEEP, POLYMER CONCRETE COMPOSITE WITH TRAFFIC RATED COVER WITH "ELECTRIC" LOGO FOR LIGHTING BOXES, TO BE QUAZITE NO. PG1730BA18, CARSON IND. NO. H1730-18, ARMORCAS NO. A6001640TAPCX18 OR APPROVED EQUAL.	25	2 EACH PEDESTRIAN SIGNAL HEAD MOUNTING BRACKETS, TO BE NORTHWEST SIGNAL SUPPLY NO. SP-2-T FOR PEDESTRIAN SIGNAL POLE MOUNTING. (SIGNAL HEADS 12 AND 19)		
16	1 EACH	JUNCTION BOX, 24" X 36" X 24" DEEP, HIGH DENSITY POLYETHYLENE ENCLOSURE WITH POLYMER CONCRETE LID WITH "COMMUNICATIONS" LOGO FOR INTERCONNECT BOXES, TO BE PENCELL NO. PEM-2436-PC, HUBBELL ENCLOSURE/QUAZITE NO. PG243624Z400 SIZE D WITH TIER 22 COVER, OLDCASTLE NO. PCX24X36X24-TC22 SIZE D WITH TIER 22 COVER OR APPROVED EQUAL.	26	8 EACH PEDESTRIAN PUSHBUTTON ASSEMBLIES, TO BE DICK CAMPBELL NO. 1371-412-H4. PUSHBUTTONS TO BE POLARA ENGINEERING NO. RBDL3-B-4H.		
17	10 EACH	VEHICLE SIGNAL HEAD, THREE-SECTION VERTICAL, 12" EMPTY, POLYCARBONATE, WITH 5" BLACK BACKPLATE AND 12" OLIVE GREEN TUNNEL VISORS, TO BE PEEK NOS. PSC03C3000, 121212PE, 0700493C; SIEMENS ITS NOS. SG103A1C11GGG30, BPP503ANF, A70012005; OR McCAIN NOS. M31515, M18216, M19273; OR APPROVED EQUAL. BACKPLATE TO INCLUDE RETROREFLECTIVE BORDER, TO BE 3M DIAMOND GRADE CONSPICUITY SHEETING SERIES 983-71 YELLOW TAPE IN 2 INCH WIDTH. RETROREFLECTIVE TAPE TO BE ALIGNED ON THE OUTER EDGE OF THE BACKPLATE. (SIGNAL HEADS 1, 2, 3, 4, 5, 6, 8, 9, 10 AND 11)	27	2 EACH STREET NAME SIGN (5TH STREET 62" X 16") (JOHN ADAMS PRKWY, 78" X 16"), TO BE WHITE LEGEND ON GREEN BACKGROUND, HIGH INTENSITY PRISMATIC REFLECTIVE SHEETING WITH TWO PELCOC NO. AS-0128-9-56 MOUNTING BRACKETS.		
			28	2 EACH STREET NAME SIGN (HOLMES AVENUE, 62" X 16"), TO BE WHITE LEGEND ON GREEN BACKGROUND, HIGH INTENSITY PRISMATIC REFLECTIVE SHEETING WITH TWO PELCO NO. AS-0128-9-56 MOUNTING BRACKETS.		
			29	VARIOUS MISCELLANEOUS ITEMS, TO INCLUDE: LOAD SWITCHES, RIGID STEEL AND RIGID PLASTIC CONDUIT; INTERCONNECT DUCT, TO BE DURALINE 2" SCHEDULE 40 SMOOTH WALL DUCT, PART NO. 2038-11XXX WITH DURA-LINE 2" PUSH FIT COUPLERS, PART NO. 02-130-2375; WATERTIGHT STEEL CONDUIT ELBOWS; #2/0 AWG THWN STRANDED COPPER WIRE (600V); #8 AWG THWN STRANDED WIRE (600V); #12 AWG THWN STRANDED COPPER WIRE (600V); #14 AWG 3C SIGNAL CABLE (IMSA 19-1-1984); BUSSMANN NO. HEB-AW-RLA FUSEHOLDERS; BUSSMANN NO. KTK-20, 20 AMP FUSES; BLACKBURN USL11 AND USL30 SPLICE KITS; AND VARIOUS OTHER ITEMS, HARDWARE AND FITTINGS NECESSARY FOR A COMPLETE INSTALLATION.		
			30	2 EACH R10-12L (LEFT TURN YIELD ON GREEN)(30" X 36") SIGN WITH TWO PELCO NO. AS-0105-24-56 MOUNTING BRACKETS.		
			31	2 EACH R5-1 (DO NOT ENTER)(30" X 30") SIGN WITH TWO PELCO NO. AS-0105-24-56 MOUNTING BRACKETS.		
			32	2 EACH R3-5L (LEFT TURN ONLY)(30" X 36") SIGN WITH TWO PELCO NO. AS-0105-24-56 MOUNTING BRACKETS.		
			33	1 EACH R3-1 (NO RIGHT TURN)(24" X 24") SIGN WITH TWO PELCO NO. AS-0105-24-56 MOUNTING BRACKETS.		
			34	2 EACH R5-2 (NO TRUCKS)(24" X 24") SIGN AND M6-01L (ARROW) (15" X 21") WITH TWO PELCO NO. AS-0105-24-56 MOUNTING BRACKETS.		

REVISIONS			DESIGNED C. WILKINS	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY		PROJECT NO.	TRAFFIC SIGNAL MAT LIST	<b>English</b> COUNTY BONNEVILLE KEY NUMBER 20461 SHEET 10 OF 25	
NO.	DATE	BY	DESCRIPTION	DESIGN CHECKED C. CANFIELD		CITY OF IDAHO FALLS	A020(461)		INT 5TH & HOLMES SIGNAL, IDAHO FALLS
				DETAILED C. WILKINS		CADD FILE NAME TRF-2021-20 K20461 MAIN.dwg			
				DRAWING CHECKED C. CANFIELD		DRAWING DATE: AUGUST 2024			



ITEMS TO BE FURNISHED BY CONTRACTOR FOR TRAFFIC SYSTEM INSTALLATION (MULTIPLE APPROACH RADAR DETECTION SYSTEM) (ITEM S904-05A)			ITEMS TO BE FURNISHED BY CONTRACTOR FOR TRAFFIC SYSTEM INSTALLATION(PRE-EMPT DETECTION SYSTEM) (ITEM S904-05A )			NOTES
ITEM#	QUANTITY	DESCRIPTION	ITEM#	QUANTITY	DESCRIPTION	
1	1 EACH	STOP BAR RADAR DETECTORS, TO BE GRIDSMART. THE STOP BAR DETECTION SYSTEM SHALL INCLUDE ONE RADAR SENSOR UNIT AND MOUNTING BRACKET PER APPROACH, ONE PROGRAMMABLE PROCESSOR PER APPROACH, ONE POWER SUPPLY, CIRCUIT BREAKERS, SURGE PROTECTORS AND ALL NECESSARY HARDWARE AND SOFTWARE FOR A COMPLETE INSTALLATION TO SERVICE INTERSECTION APPROACHES AS SHOWN ON THE PLANS.	1	1 EACH	EMERGENCY VEHICLE PRE-EMPT DETECTORS, TO BE GLOBAL TECHNOLOGIES OPTICOM NO. 711, WITH MOUNTING BRACKETS TO BE ASTRO-BRAC NO. AB-0121-42.	1. ALL ITEMS TO BE FURNISHED FOR TRAFFIC SIGNAL INSTALLATION (ITEM S904-05A ) WILL COMPLY WITH BUY AMERICA PROVISIONS FOR REQUIRED MATERIALS STEEL, IRON, ALUMINUM, ETC). IF LISTED ITEMS DO NOT MEET BUY AMERICA PROVISIONS, APPROVED EQUAL SUBMITTALS WILL STILL BE REQUIRED TO MEET BUY AMERICA PROVISIONS.
2	1 EACH	MISCELLANEOUS ITEMS, TO INCLUDE: 6-CONDUCTOR RADAR DETECTION CABLE AND VARIOUS OTHER ITEMS, HARDWARE AND FITTINGS NECESSARY FOR A COMPLETE INSTALLATION.	2	2 EACH	PHASE SELECTOR, TO BE GLOBAL TECHNOLOGIES OPTICOM NO. 762.	
			3	1 EACH	INDICATOR LIGHT FOR EMERGENCY VEHICLE PRE-EMPT, SHALL CONFORM TO THE DETAIL ON THE TRAFFIC SIGNAL DETAILS SHEET. EQUIPMENT SHALL BE APPROVED BY IDAHO FALLS POWER PRIOR TO INSTALLATION.	
			4	1 EACH	MISCELLANEOUS ITEMS, TO INCLUDE: #14 AWG 4C SIGNAL CABLE (IMSA 19-1-1984); #14 AWG 2C SIGNAL CABLE (IMSA 19-1-1984); 3M OPTICOM M138 PRIORITY CONTROL SYSTEMS PRE-EMPT DETECTOR CABLE; AND VARIOUS OTHER ITEMS, HARDWARE AND FITTINGS NECESSARY FOR A COMPLETE INSTALLATION.	

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED C. WILKINS
DESIGN CHECKED C. CANFIELD
DETAILED C. WILKINS
DRAWING CHECKED C. CANFIELD

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME TRF-2021-20 K20461 MAIN.dwg
DRAWING DATE: AUGUST 2024

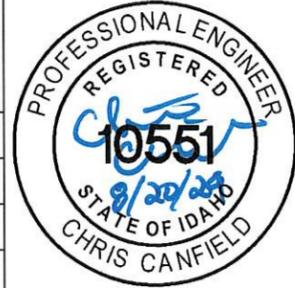
**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**


CITY OF IDAHO FALLS

PROJECT NO.
A020(461)

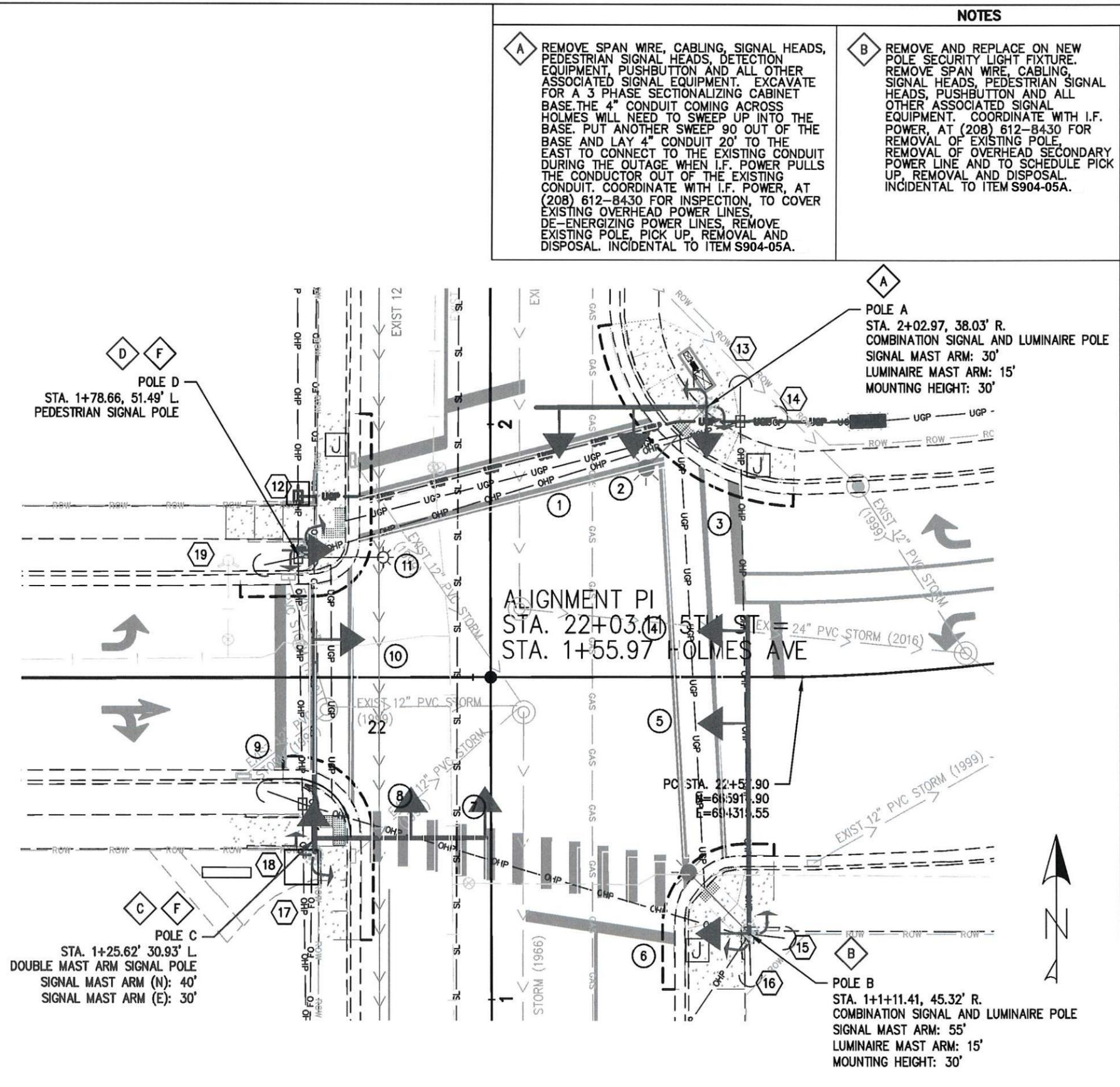
TRAFFIC SIGNAL MAT LIST
INT 5TH & HOLMES SIGNAL, IDAHO FALLS

<b>English</b>
COUNTY BONNEVILLE
KEY NUMBER 20461
SHEET 11 OF 25



LEGEND	
	EXISTING SIGNAL CABINET AND SERVICE PEDESTAL
	EXISTING SIGNAL POLE
	EXISTING LUMINAIRE
	EXISTING SIGNAL HEAD
	EXISTING PEDESTRIAN SIGNAL HEAD
	EXISTING STOP BAR RADAR DETECTOR
	EXISTING SIGN
	EXISTING UNDERGROUND POWER LINE
	EXISTING OVERHEAD POWER LINE
	JUNCTION BOX (SIZE 13" X 24" X 18") WITH "ELECTRIC" LOGO
	JUNCTION BOX (SIZE 17" X 30" X 18") WITH "ELECTRIC / LIGHTING" LOGO
	JUNCTION BOX (SIZE 17" X 30" X 18") WITH "TRAFFIC SIGNAL" LOGO
	JUNCTION BOX (SIZE 24" X 36" X 24") WITH "COMMUNICATIONS" LOGO
	UNDERGROUND POWER LINE
	SIGNAL CONDUIT
	LIGHTING CONDUIT
	DETECTION CONDUIT
	INTERCONNECT CONDUIT
	SIGNAL CABINET, SERVICE PEDESTAL AND BATTERY BACKUP
	POLE AND MAST ARM
	LUMINAIRE
	VEHICLE SIGNAL HEAD
	PEDESTRIAN SIGNAL HEAD
	MAST ARM SIGN
	PRE-EMPT (PE) DETECTOR
	VEHICLE SIGNAL HEAD NUMBER
	PEDESTRIAN SIGNAL HEAD NUMBER

LIGHTING	
ILLUMINATION	LIGHT EMITTING DIODE (LED)
LUMINAIRES	163 WATT
INTENSITY	14,800 LUMENS
DISTRIBUTION	TYPE 3
MOUNTING HT.	30 FEET
CIRCUITRY	UNDERGROUND CONDUIT
SERVICE	PEDESTAL MOUNTED 120/240V
SUPPORT	GALVANIZED STANDARD EXTENSION ON SIGNAL POLE



**A** REMOVE SPAN WIRE, CABLING, SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, DETECTION EQUIPMENT, PUSHBUTTON AND ALL OTHER ASSOCIATED SIGNAL EQUIPMENT. EXCAVATE FOR A 3 PHASE SECTIONALIZING CABINET BASE. THE 4" CONDUIT COMING ACROSS HOLMES WILL NEED TO SWEEP UP INTO THE BASE. PUT ANOTHER SWEEP 90 OUT OF THE BASE AND LAY 4" CONDUIT 20' TO THE EAST TO CONNECT TO THE EXISTING CONDUIT DURING THE OUTAGE WHEN I.F. POWER PULLS THE CONDUCTOR OUT OF THE EXISTING CONDUIT. COORDINATE WITH I.F. POWER, AT (208) 612-8430 FOR INSPECTION, TO COVER EXISTING OVERHEAD POWER LINES, DE-ENERGIZING POWER LINES, REMOVE EXISTING POLE, PICK UP, REMOVAL AND DISPOSAL. INCIDENTAL TO ITEM S904-05A.

**B** REMOVE AND REPLACE ON NEW POLE SECURITY LIGHT FIXTURE. REMOVE SPAN WIRE, CABLING, SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, PUSHBUTTON AND ALL OTHER ASSOCIATED SIGNAL EQUIPMENT. COORDINATE WITH I.F. POWER, AT (208) 612-8430 FOR REMOVAL OF EXISTING POLE, REMOVAL OF OVERHEAD SECONDARY POWER LINE AND TO SCHEDULE PICK UP, REMOVAL AND DISPOSAL. INCIDENTAL TO ITEM S904-05A.

**C** REMOVE SPAN WIRE, CABLING, POLE MOUNTED SIGNS, SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, DETECTION EQUIPMENT, PUSHBUTTON AND ALL OTHER ASSOCIATED SIGNAL EQUIPMENT. INSTALL NEW SIGNALS, SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, PUSHBUTTON, JUNCTION BOXES AND CONDUIT. COORDINATE WITH I.F. POWER, AT (208) 612-8430 FOR REMOVAL OF POLE, SCHEDULE PICK UP, REMOVAL AND DISPOSAL. COORDINATE WITH COMMUNICATIONS COMPANIES TO DETACH CABLING FROM POLE. INCIDENTAL TO ITEM S904-05A.

**D** DELIVER EXISTING SIGNAL CABINET TO I.F. POWER, REMOVE METER BOX, SPAN WIRE, SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, PUSHBUTTON, DETECTION SYSTEM, LUMINAIRE AND ALL OTHER ASSOCIATED SIGNAL EQUIPMENT. INSTALL 4" CONDUIT RISER TO A HEIGHT OF 10' USING 8" STANDOFFS (SEE SHT 13, IFP SERVICE POLICY FIGURE 17). I.F. POWER WILL INSTALL REMAINING CONDUIT AND WEATHERHEAD ON POLE. CONTRACTOR TO FURNISH POWER CABLING, INSTALL CABLING FROM SERVICE PEDESTAL, AND COIL 50' AT END OF 10' RISER. I.F. POWER TO INSTALL REMAINDER OF POWER CABLING AND TERMINATE. COORDINATE WITH I.F. POWER, AT (208) 612-8430 FOR REMOVAL OF POLE, INSTALL NEW TRANSMISSION POLE, SCHEDULE PICK UP, REMOVAL AND DISPOSAL. INCIDENTAL TO ITEM S904-05A.

**F** COORDINATE WITH I.F. POWER TO COVER EXISTING OVERHEAD POWER LINES DURING INSTALLATION OF SIGNAL POLE, MAST ARM AND LUMINAIRE. COORDINATE WITH I.F. POWER, AT (208) 612-8430.

- NOTES**
- REFER TO SHT 12 & 13 FOR SIGNAL CABINET BASE, SECTIONALIZING CABINET BASE, RISER DETAIL, AND SIGNAL POLE FOUNDATIONS.
  - REFER TO SHEET 6, GRADING PLAN, FOR TEST HOLE LOCATIONS AND ROCK DEPTHS.
  - INFORMATION ON THIS SHEET IS ACCURATE ONLY FOR TRAFFIC SIGNAL IMPROVEMENTS.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

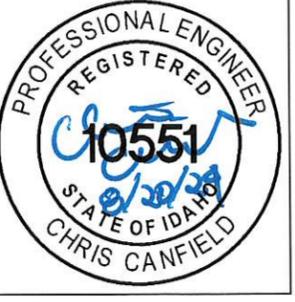
DESIGNED C. WILKINS	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED C. CANFIELD	CADD FILE NAME TRF-2021-20 K20461 MAIN.dwg
DETAILED C. WILKINS	DRAWING DATE: AUGUST 2024
DRAWING CHECKED C. CANFIELD	

**IDAHO**  
 TRANSPORTATION  
 DEPARTMENT  
  
 CITY OF IDAHO FALLS

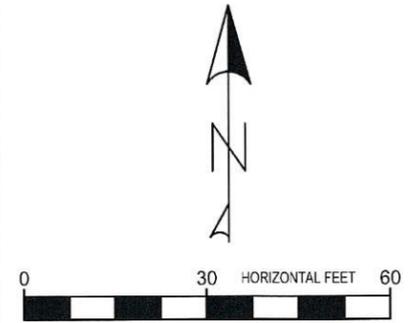
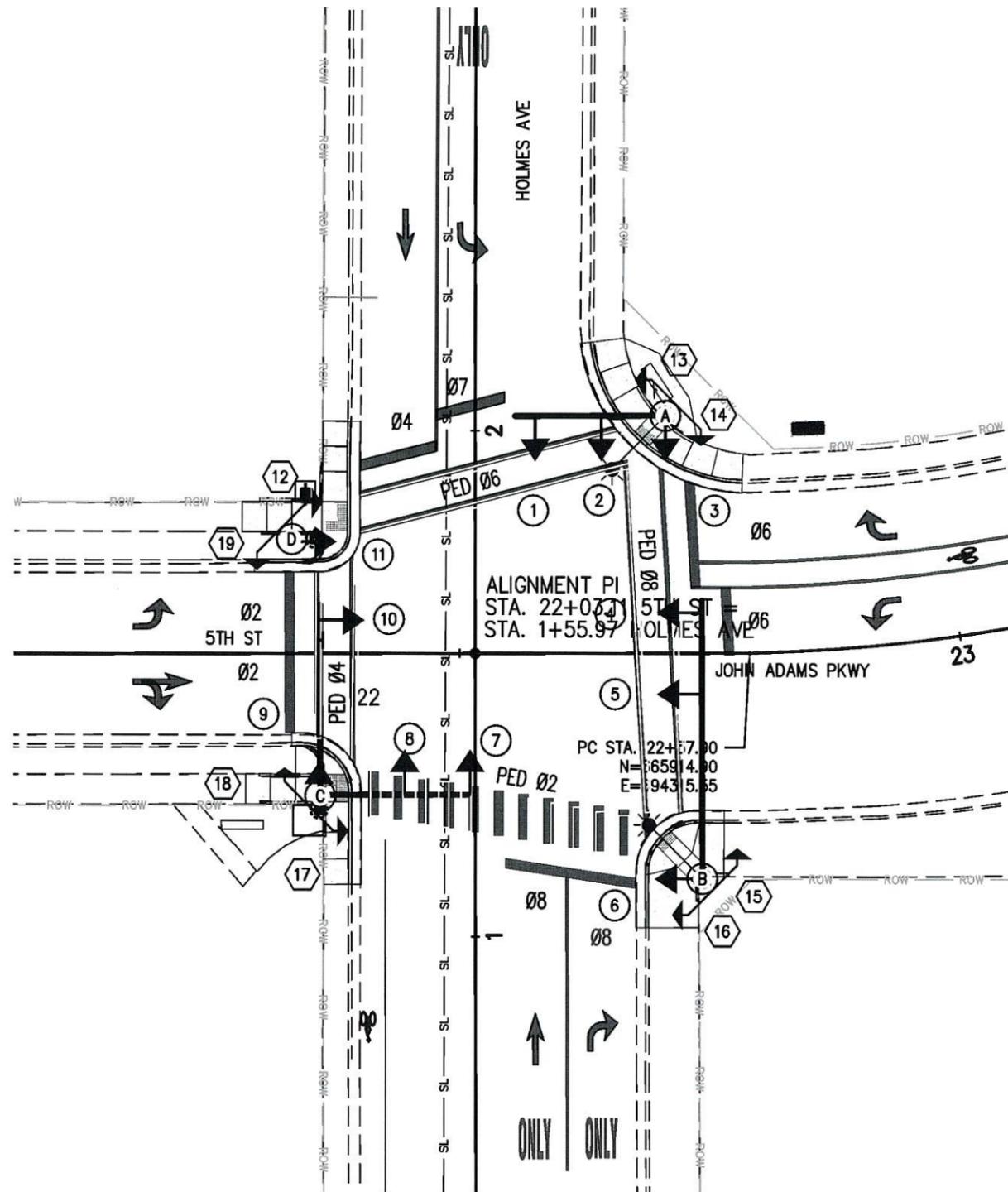
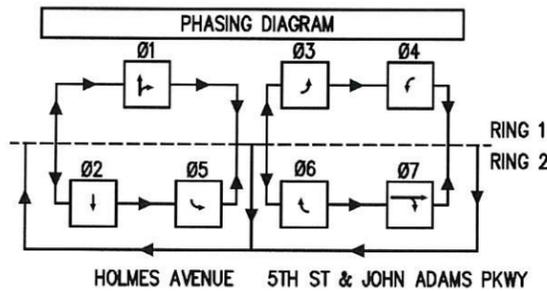
PROJECT NO.  A020(461)
------------------------------

TRAFFIC SIGNAL PLAN  INT 5TH & HOLMES SIGNAL, IDAHO FALLS
--

<b>English</b>
COUNTY BONNEVILLE
KEY NUMBER 20461
SHEET 12 OF 25



SIGNAL SEQUENCE CHART												
PHASE	VEHICLE HEADS						PEDESTRIAN HEADS				CLEARANCE	
	1, 2 & 3	4	5-6	7	8-9	10	11	12-13	14-15	16-17		18-19
Ø1 ↑ ↓	G	RA	R	RA	G	RA	RA	DW	W	DW	DW	PEDESTRIAN
	G	RA	R	RA	G	RA	RA	DW	FDW	DW	DW	
	Y	RA	R	RA	Y	RA	RA	DW	DW	DW	DW	
Ø2 ↑ ↓	G	RA	R	RA	G	RA	RA	DW	DW	DW	W	PEDESTRIAN
	G	RA	R	RA	G	RA	RA	DW	DW	DW	FDW	
	Y	RA	R	RA	Y	RA	RA	DW	DW	DW	DW	
Ø3 OLA →	R	GA	G	RA	R	RA	RA	DW	DW	W	DW	PEDESTRIAN
	R	FYA	G	RA	R	RA	RA	DW	DW	FDW	DW	
Ø4 OLC ← OLD	R	RA	R	RA	R	GA	FYA	W	DW	DW	DW	PEDESTRIAN
	R	RA	R	RA	R	FYA	FYA	FDW	DW	DW	DW	
	R	RA	R	RA	R	YA	YA	DW	DW	DW	DW	
Ø5 OLB ← OLD ↓	R	RA	R	GA	G	RA	GA	DW	DW	DW	W	PEDESTRIAN
	R	RA	R	FYA	G	RA	FYA	DW	DW	DW	FDW	
	R	RA	R	YA	Y	RA	YA	DW	DW	DW	DW	
Ø6 ← OLD OLC	R	RA	R	RA	R	FYA	GA	W	DW	DW	W	PEDESTRIAN
	R	RA	R	RA	R	FYA	FYA	FDW	DW	DW	FDW	
	R	RA	R	RA	R	YA	YA	DW	DW	DW	DW	
Ø7 → ← OLD	R	RA	G	RA	R	RA	FYA	W	DW	W	DW	PEDESTRIAN
	R	RA	G	RA	R	RA	FYA	FDW	DW	FDW	DW	
	R	RA	Y	RA	R	RA	YA	DW	DW	DW	DW	
FLASHING	R	RA	R	RA	R	RA	RA	DW	DW	DW	DW	



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
C. WILKINS  
DESIGN CHECKED  
C. CANFIELD  
DETAILED  
C. WILKINS  
DRAWING CHECKED  
C. CANFIELD

SCALES SHOWN  
ARE FOR 11" X 17"  
PRINTS ONLY  
CADD FILE NAME  
TRF-2021-20 K20461 MAIN.dwg  
DRAWING DATE:  
AUGUST 2024

IDAHO  
TRANSPORTATION  
DEPARTMENT  
CITY OF IDAHO FALLS

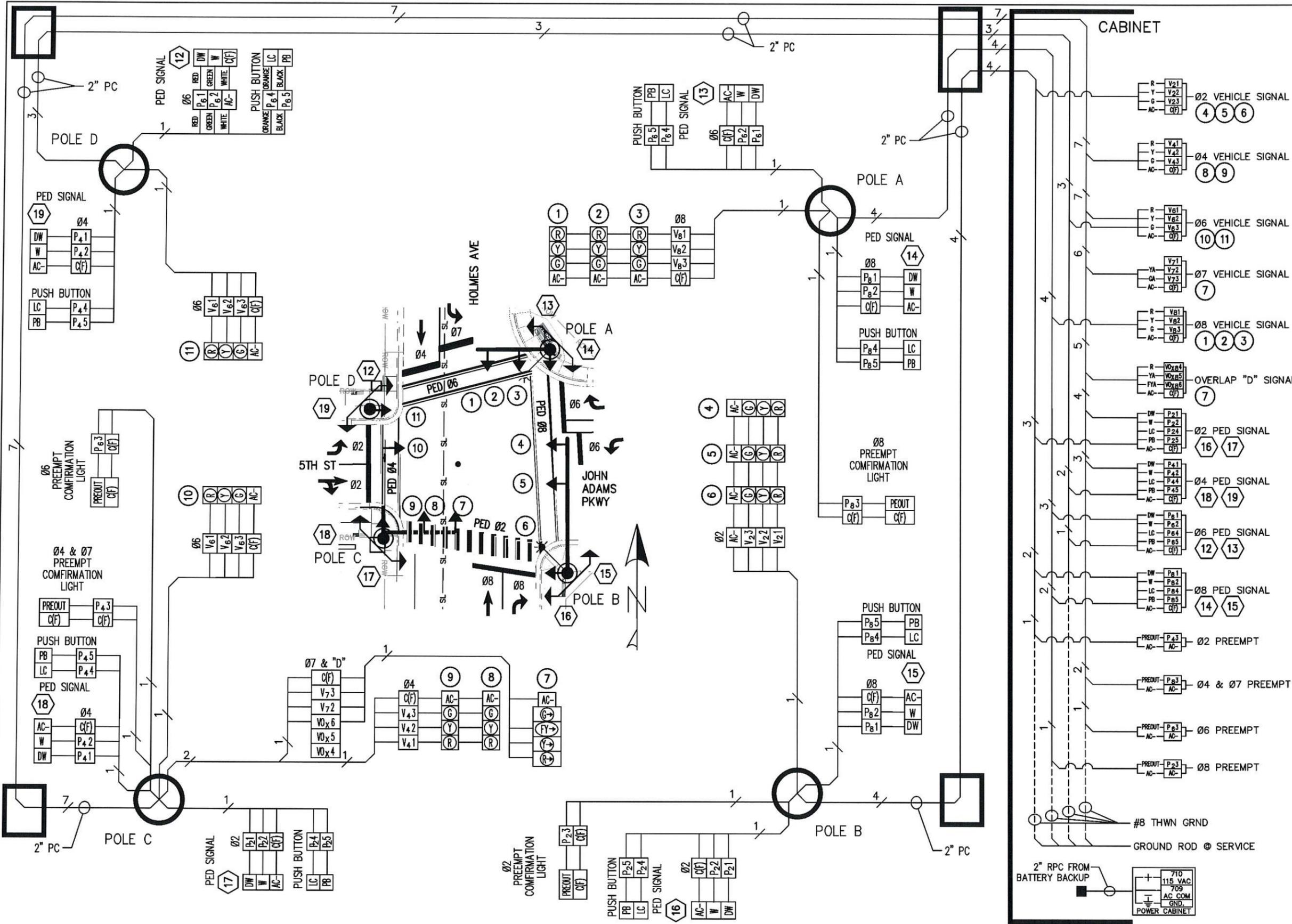


PROJECT NO.  
A020(461)

TRAFFIC SIGNAL DETAILS  
INT 5TH & HOLMES  
SIGNAL, IDAHO FALLS

**English**  
COUNTY  
BONNEVILLE  
KEY NUMBER  
20461  
SHEET 13 OF 25





### SYMBOLY CHART

- / - DENOTES NUMBER OF CONDUCTORS AND /OR CABLE(S) PER CONDUIT.
- # - VEHICLE SIGNAL HEAD NUMBER
- ⬡ - PEDESTRIAN SIGNAL HEAD NUMBER

- ### NOTES
- USE 2" PC FROM EACH SIGNAL "C" SIZE JUNCTION BOX TO EACH SIGNAL POLE BASE. THE FILL SHALL BE 5 CONDUCTOR CABLES FOR VEHICLE PHASES, PEDESTRIAN PHASES WITH PUSHBUTTONS AND 2 CONDUCTOR CABLES FOR PREEMPT INDICATORS; 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.
  - SIGNAL INTERSECTION PLAN SHEET FOR LOCATION OF JUNCTION BOXES.
  - PEDESTRIAN PUSHBUTTON WIRING IS TO BE INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS.

### WIRE COLOR CODING

**FYTA VEHICLE SIGNAL (7C)**

- R - RED
- YA - ORANGE
- FYA - GREEN
- GA - BLACK

**LC (LOGIC COM) - WHITE**

- SPARE - BLUE
- AC - WHITE

**PEDESTRIAN SIGNAL (5C)**

- DW (Ø2 OR Ø6) - RED
- DW (Ø4 OR Ø8) - ORANGE
- W (Ø2 OR Ø6) - GREEN
- AC - WHITE
- W (Ø4 OR Ø8) - BLACK

**INDICATOR LIGHT (2C)**

- PREOUT - BLACK
- AC - WHITE

**VEHICLE SIGNAL (5C)**

- R - RED
- Y - ORANGE
- G - GREEN
- AC - WHITE
- SPARE - BLACK

### REVISIONS

NO.	DATE	BY	DESCRIPTION

DESIGNED  
C. WILKINS

DESIGN CHECKED  
C. CANFIELD

DETAILED  
C. WILKINS

DRAWING CHECKED  
C. CANFIELD

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME  
TRF-2021-20 K20461 MAIN.dwg

DRAWING DATE:  
AUGUST 2024

IDAHO TRANSPORTATION DEPARTMENT

CITY OF IDAHO FALLS



PROJECT NO.  
A020(461)

SIGNAL WIRING DIAGRAM

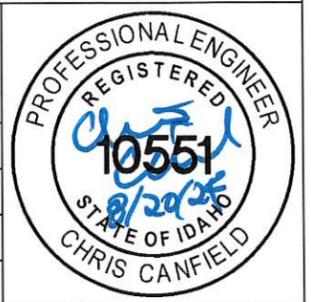
INT 5TH & HOLMES SIGNAL, IDAHO FALLS

**English**

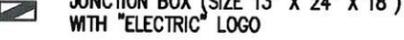
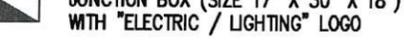
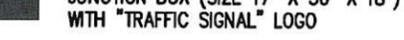
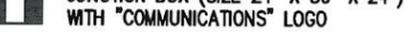
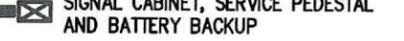
COUNTY  
BONNEVILLE

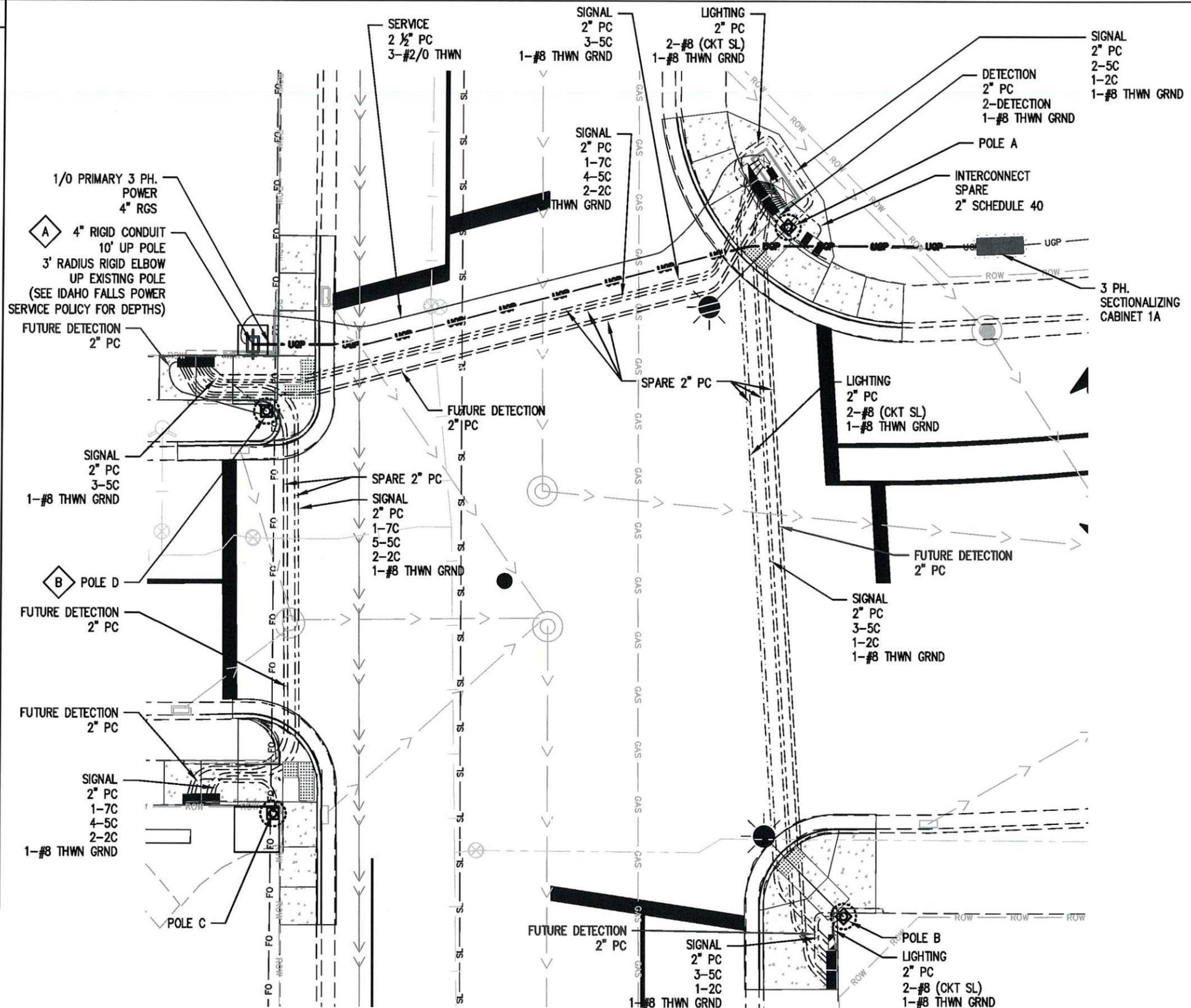
KEY NUMBER  
20461

SHEET 14 OF 25

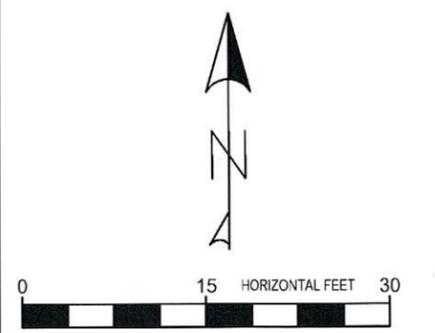


**LEGEND**

-  EXISTING SIGNAL CABINET AND SERVICE PEDESTAL
-  EXISTING SIGNAL POLE
-  EXISTING SIGN
-  EXISTING UNDERGROUND POWER LINE
-  EXISTING OVERHEAD POWER LINE
-  JUNCTION BOX (SIZE 13" X 24" X 18") WITH "ELECTRIC" LOGO
-  JUNCTION BOX (SIZE 17" X 30" X 18") WITH "ELECTRIC / LIGHTING" LOGO
-  JUNCTION BOX (SIZE 17" X 30" X 18") WITH "TRAFFIC SIGNAL" LOGO
-  JUNCTION BOX (SIZE 24" X 36" X 24") WITH "COMMUNICATIONS" LOGO
-  UNDERGROUND POWER LINE
-  SIGNAL CONDUIT
-  LIGHTING CONDUIT
-  DETECTION CONDUIT
-  INTERCONNECT CONDUIT
-  SIGNAL CABINET, SERVICE PEDESTAL AND BATTERY BACKUP
-  POLE



-  INSTALL RIGID METAL CONDUIT RISERS ON RELOCATED POLE ON BACK SIDE OF POLE AWAY FROM SIDEWALK.
-  MAINTAIN 5' CLEARANCE BETWEEN FIRE HYDRANT AND CONDUIT.



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
C. WILKINS  
DESIGN CHECKED  
C. CANFIELD  
DETAILED  
C. WILKINS  
DRAWING CHECKED  
C. CANFIELD

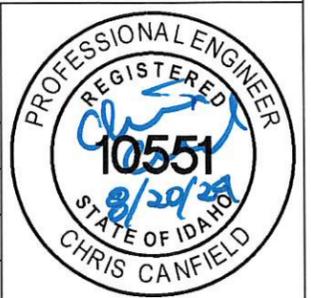
SCALES SHOWN  
ARE FOR 11" X 17"  
PRINTS ONLY  
CADD FILE NAME  
TRF-2021-20 K20461 MAIN.dwg  
DRAWING DATE:  
AUGUST 2024

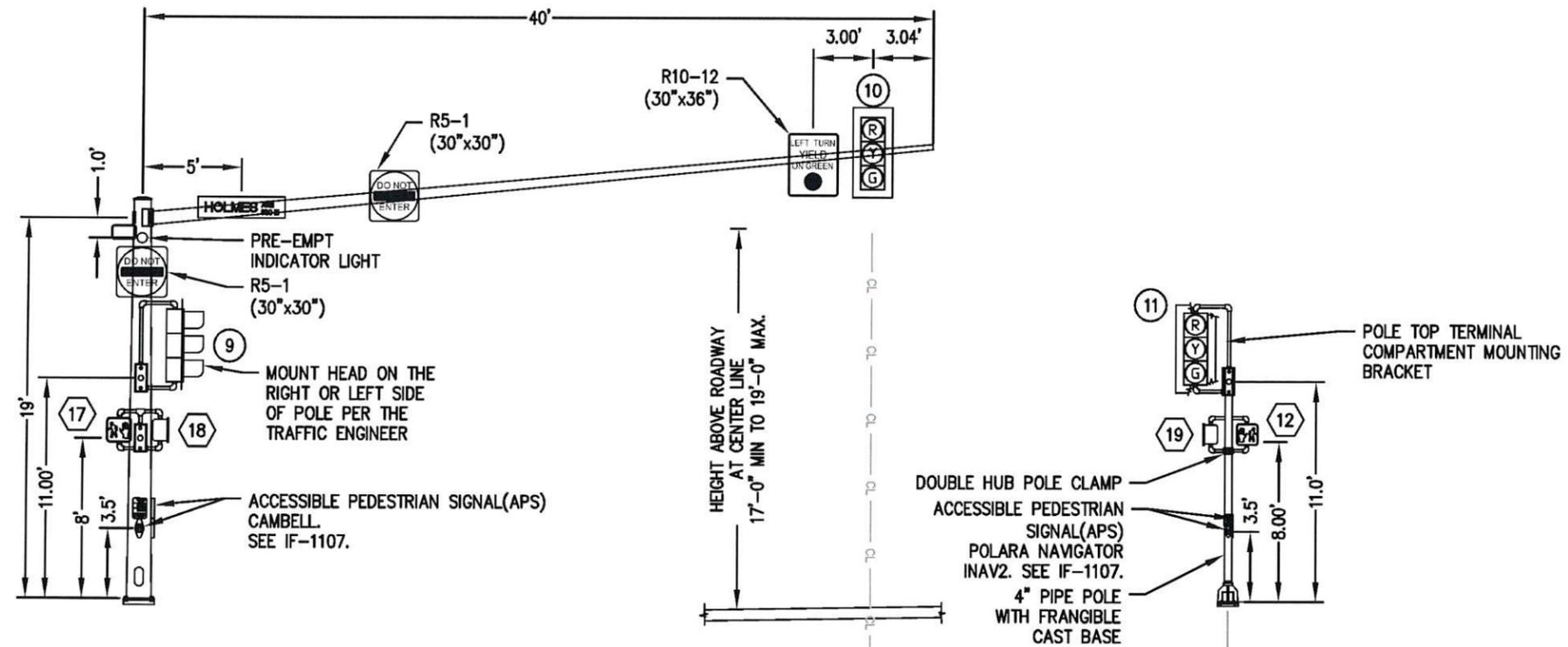
IDAHO  
TRANSPORTATION  
DEPARTMENT  
CITY OF IDAHO FALLS

PROJECT NO.  
A020(461)

CONDUIT DIAGRAM  
INT 5TH & HOLMES  
SIGNAL, IDAHO FALLS

**English**  
COUNTY  
BONNEVILLE  
KEY NUMBER  
20461  
SHEET 15 OF 25

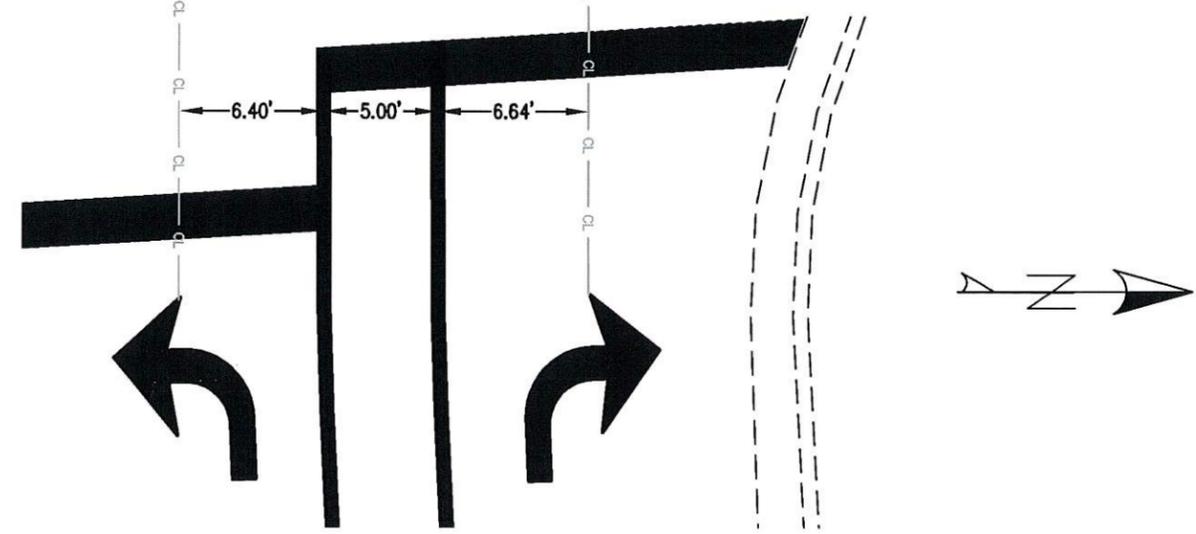




POLE C: 5TH STREET MAST ARM DETAIL  
(NOT TO SCALE)

(WEST BOUND)

POLE D: 5TH STREET PEDESTRIAN POLE DETAIL  
(NOT TO SCALE)



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED C. WILKINS
DESIGN CHECKED C. CANFIELD
DETAILED C. WILKINS
DRAWING CHECKED C. CANFIELD

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME TRF-2021-20 K20461 MAIN.dwg
DRAWING DATE: AUGUST 2024

**IDAHO**  
 TRANSPORTATION  
 DEPARTMENT

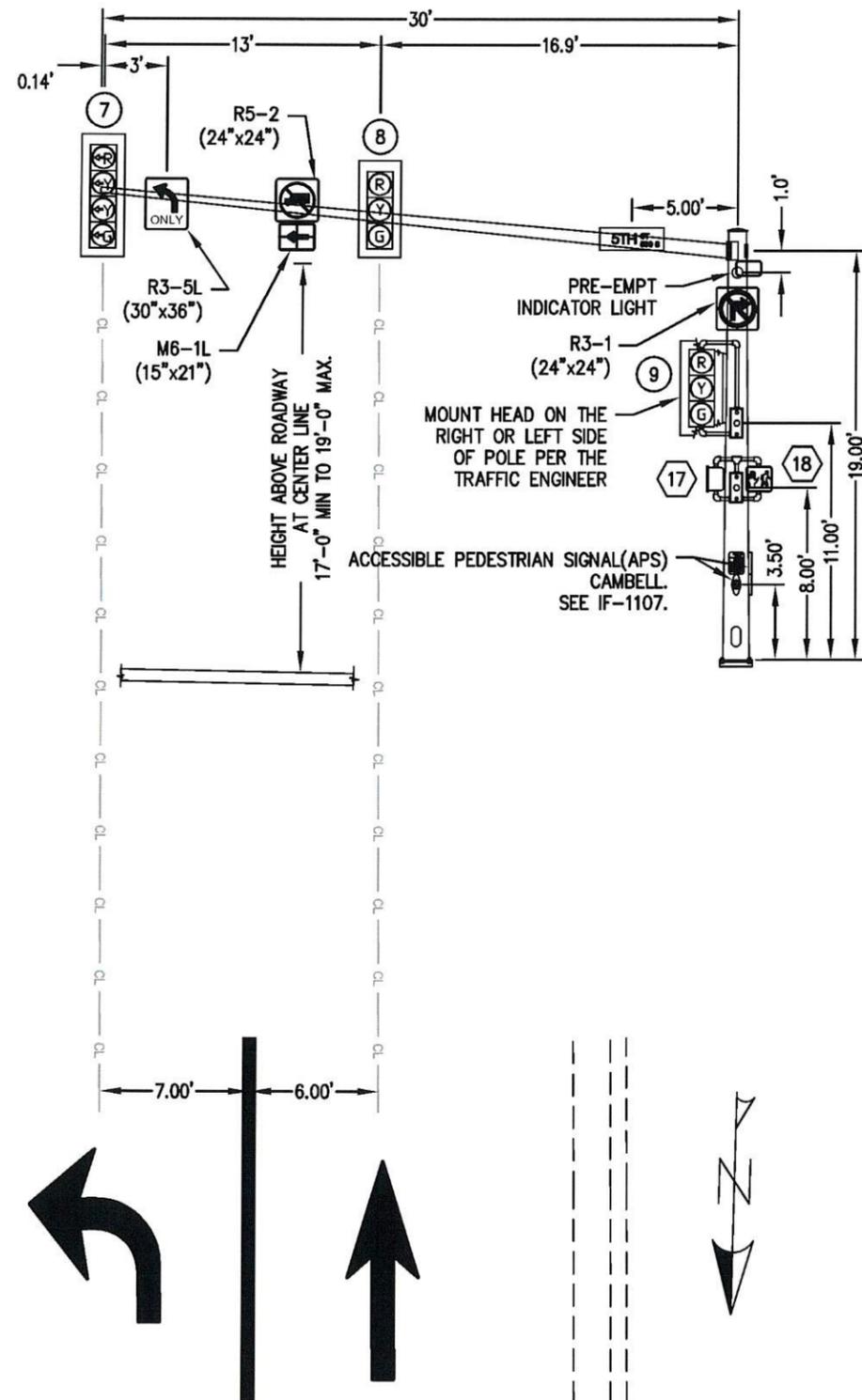
CITY OF IDAHO FALLS

PROJECT NO.  A020(461)
------------------------------

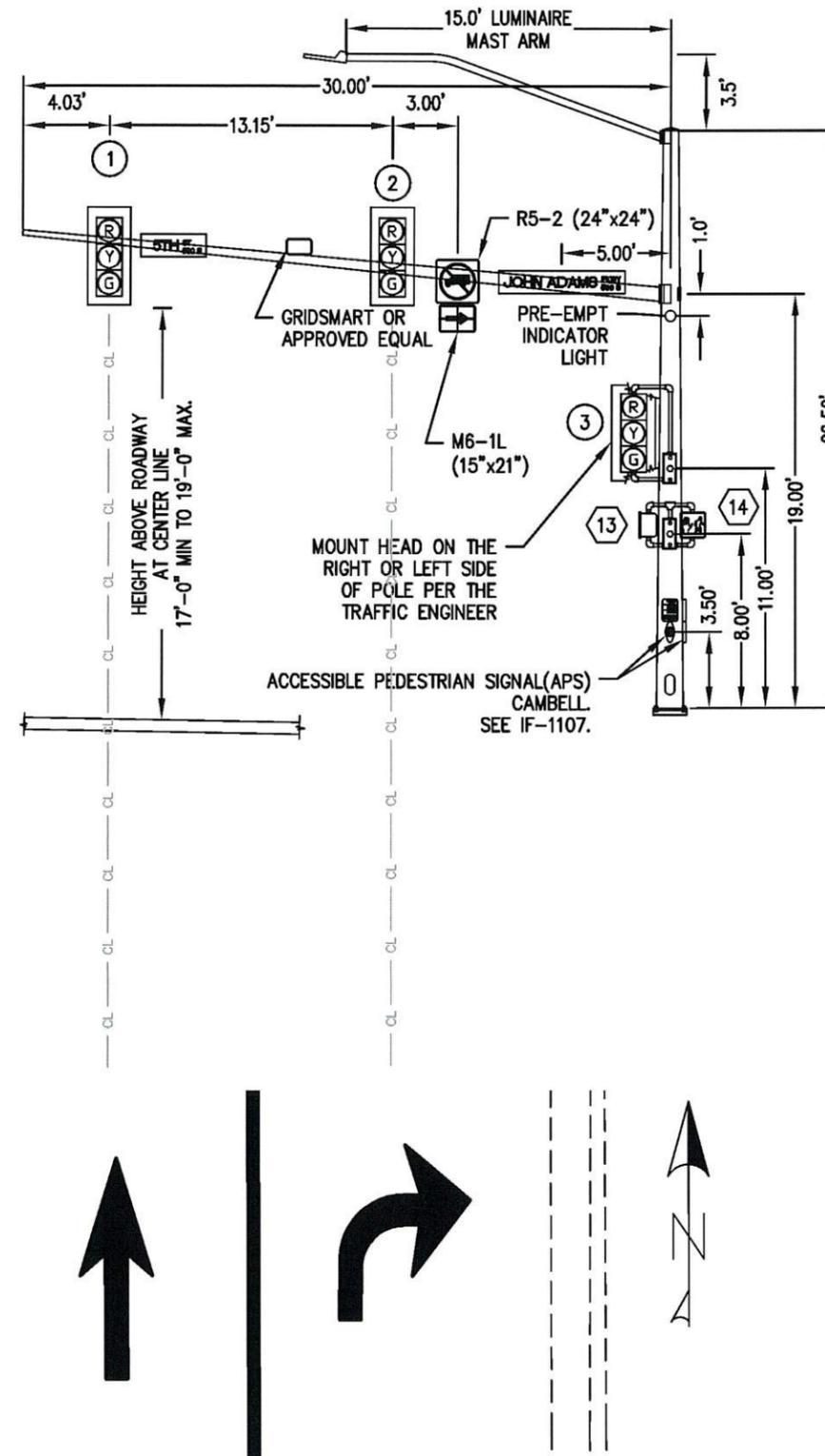
TRAFFIC SIGNAL DETAILS  INT 5TH & HOLMES SIGNAL, IDAHO FALLS
---

<b>English</b>
COUNTY BONNEVILLE
KEY NUMBER 20461
SHEET 16 OF 25





**POLE C: HOLMES AVENUE MAST ARM DETAIL (SOUTH BOUND)**  
(NOT TO SCALE)



**POLE A: HOLMES AVENUE MAST ARM DETAIL (NORTH BOUND)**  
(NOT TO SCALE)

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED C. WILKINS
DESIGN CHECKED C. CANFIELD
DETAILED C. WILKINS
DRAWING CHECKED C. CANFIELD

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME TRF-2021-20 K20461 MAIN.dwg
DRAWING DATE: AUGUST 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**



**CITY OF IDAHO FALLS**

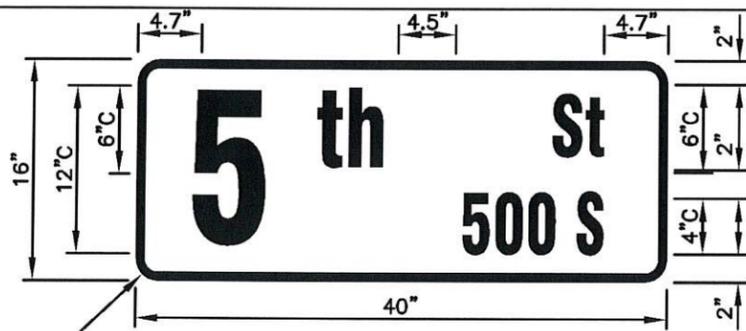
PROJECT NO.  A020(461)
------------------------------

TRAFFIC SIGNAL DETAILS  INT 5TH & HOLMES SIGNAL, IDAHO FALLS
---

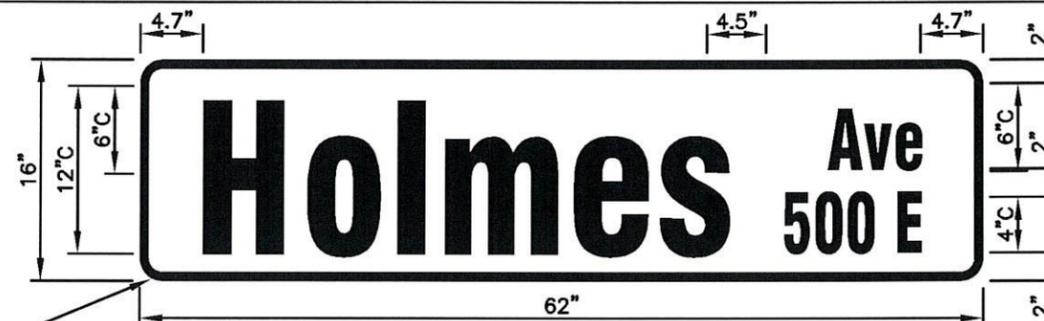
<b>English</b>
COUNTY BONNEVILLE
KEY NUMBER 20461
SHEET 17 OF 25







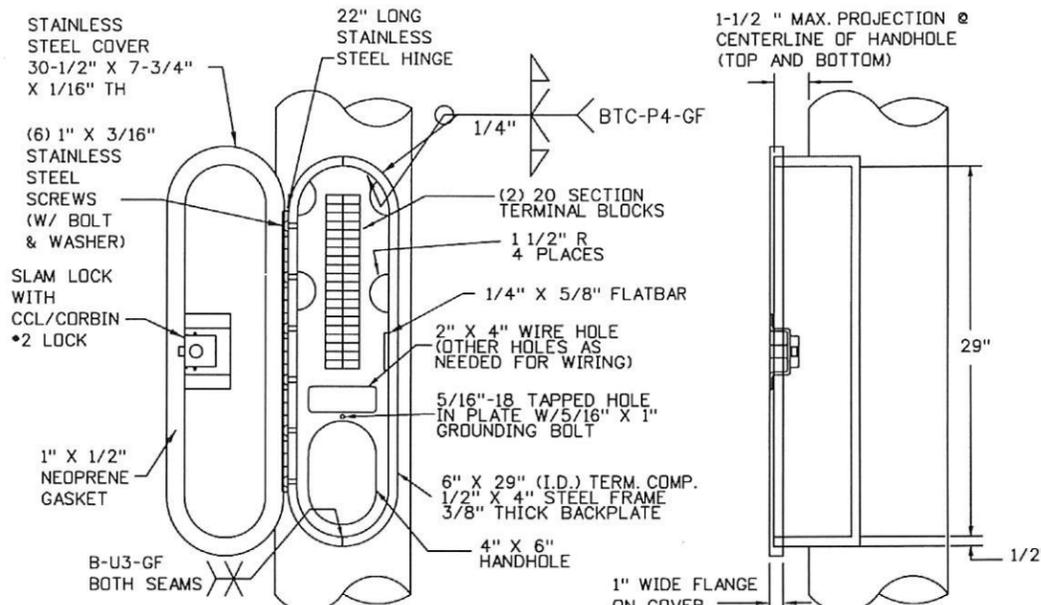
ROUND CORNERS ON TYPE B SIGN PANEL  
1.5" OUTSIDE RADIUS  
0.5" BORDER WITH NO MARGIN  
WHITE LEGEND ON GREEN BACKGROUND



ROUND CORNERS ON TYPE B SIGN PANEL  
1.5" OUTSIDE RADIUS  
0.5" BORDER WITH NO MARGIN  
WHITE LEGEND ON GREEN BACKGROUND

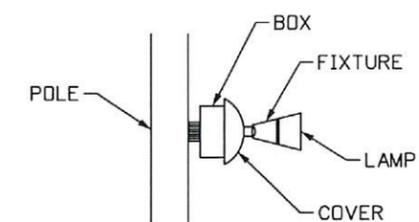
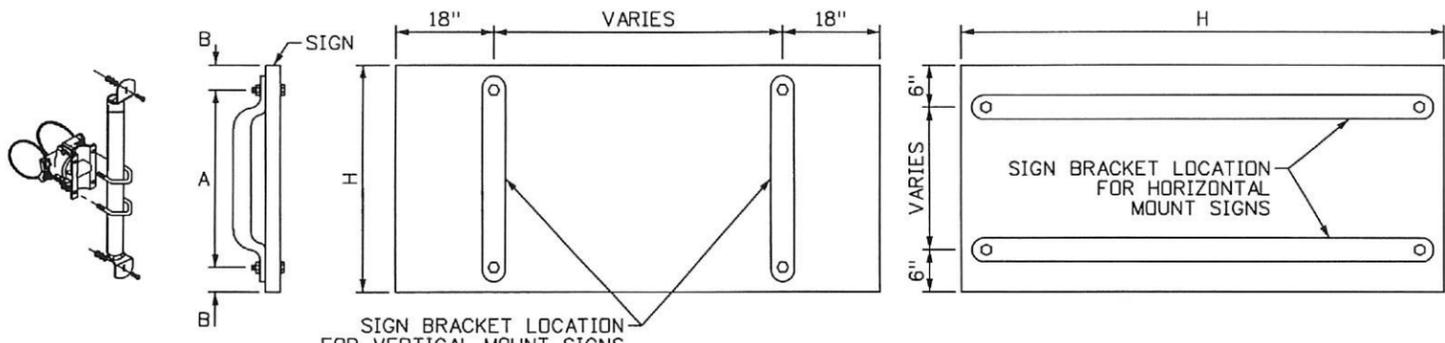


ROUND CORNERS ON TYPE B SIGN PANEL  
1.5" OUTSIDE RADIUS  
0.5" BORDER WITH NO MARGIN  
WHITE LEGEND ON GREEN BACKGROUND



RECESSED TERMINAL COMPARTMENT DETAIL  
NOT TO SCALE

STREET NAME SIGNS  
NOT TO SCALE



PRE-EMPT INDICATOR LIGHT DETAIL  
NOT TO SCALE

SIGN	POLE	QUANTITIES		VERTICAL MOUNT DIMENSIONS			HORIZONTAL MOUNT DIMENSIONS		
		SIGNS	BRACKETS	A	B	H	A	B	H
ELVA ST	A, D	2	4	9"	3.5"	16"	-	-	-
HOLMES AVE	B, F	2	4	9"	3.5"	16"	-	-	-

SIGNING AND MOUNTING BRACKETS SHOWN ON THIS SHEET SHALL NOT BE PAID FOR SEPARATELY, BUT ARE INCIDENTAL TO ITEM 656-005A TRAFFIC SIGNAL INSTALLATION.

SIGN BRACKET INFORMATION FOR TRAFFIC SIGNAL SIGNS

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED C. WILKINS	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED C. CANFIELD	
DETAILED C. WILKINS	
DRAWING CHECKED C. CANFIELD	
CADD FILE NAME TRF-2021-20 K20461 MAIN.dwg	DRAWING DATE: AUGUST 2024
CITY OF IDAHO FALLS	

IDAHO TRANSPORTATION DEPARTMENT

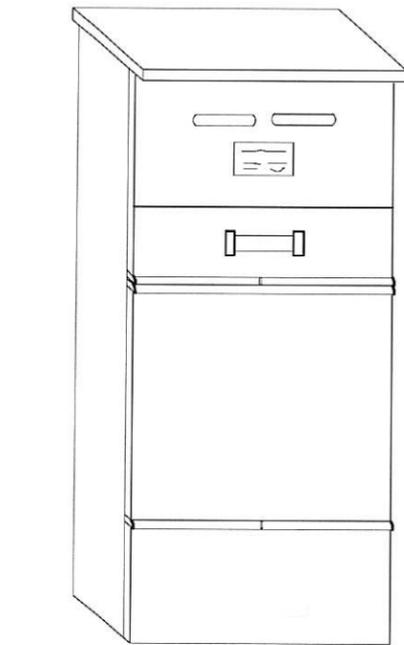
CITY OF IDAHO FALLS

PROJECT NO. A020(461)
--------------------------

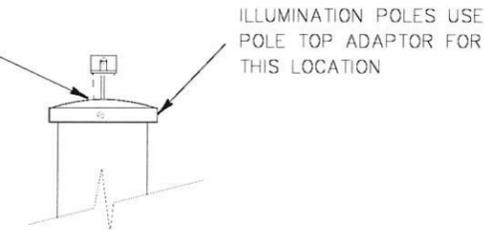
TRAFFIC SIGNAL DETAILS INT 5TH & HOLMES SIGNAL, IDAHO FALLS
--

<b>English</b>
COUNTY BONNEVILLE
KEY NUMBER 20461
SHEET 19 OF 25

**TYPICAL SERVICE PEDESTAL**



DRILL CAP TO ACCEPT PHOTOELECTRIC CONTROL LOCKING TYPE RECEPTACLE. SIGNAL POLES ONLY)



**ALTERNATE LOCATION**

POLE TOP MOUNTING FOR PHOTOELECTRIC CELL

PHOTOELECTRIC CELL TWIST LOCK RECEPTACLE REQUIRED MOUNTED IN UPPER RIGHT SIDE OF CUSTOMER SECTION.

**NOTE**

IDENTIFICATION LABELS SHALL BE REQUIRED FOR BRANCH BREAKERS. LIGHTING BRANCH BREAKER LABELS SHALL READ: LIGHTING CIRCUIT NO. SEE PLANS.) SIGNAL BRANCH BREAKER LABEL SHALL READ: "SIGNAL AT (IDENTIFY TWO LEGS OF THE INTERSECTION)."

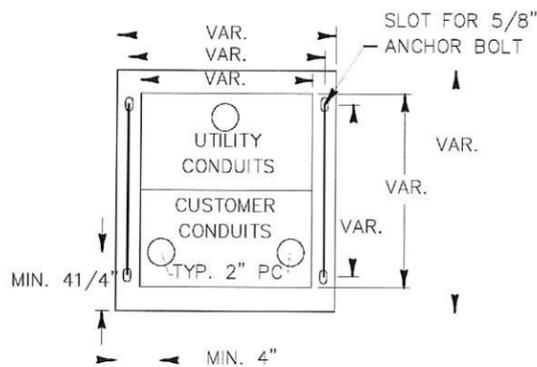
**SERVICE CABINET SCHEDULE**

ITEM	CLASS "B"
① MAIN BREAKER	(SEE SCHEDULE)
② CONTROL BREAKER	1P-15A 120/240 VOLT
③ TEST SWITCH	SPST-15A 120/240 VOLT
④ LIGHTING BRANCH BREAKER	2P-120/240 VOLT (SEE SCHEDULE)
⑤ SIGNAL CONTROL BREAKER	1P-120/240 VOLT (SEE SCHEDULE)
⑦ LIGHTING CONTACTOR	8P (ANY COMBINATION)
⑧ FLASHER CONTROL BREAKER	1P-120/240 VOLT (SEE SCHEDULE)

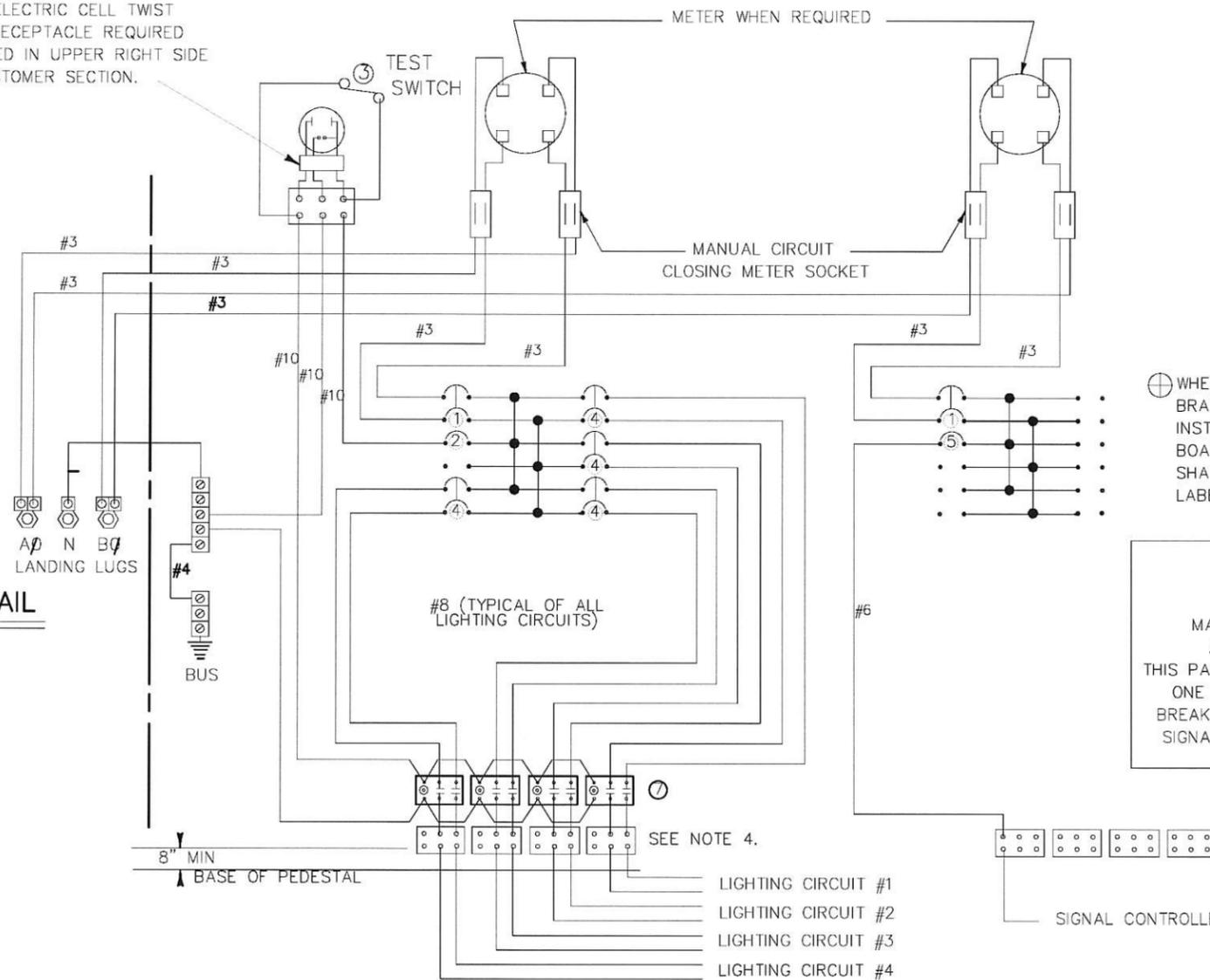
**BREAKER RATING SCHEDULE**

CLASS "B"	
ITEM	NO. OF LIGHTING CIRCUITS
MAIN BREAKER (METERED SIG. SECTION)	100 AMP 2P
MAIN BREAKER (METERED LTG. SECTION)	100 AMP 2P
LIGHTING BRANCH BREAKER	30 AMP 2P
SIGNAL CONTROL BREAKER	30 AMP 1P
LIGHTING CONTACTOR	30 AMP 4P
FLASHER CONTROL BREAKER	
SERVICE WIRE	NO. 3 THWN

**PEDESTAL FLANGE MOUNTING DETAIL**



TO BE FURNISHED WITH 4 EACH 5/8" x 6" x 2"-13NC ANCHOR BOLTS. NO SLEEVE REQUIRED



**NOTE**

WHEN SIGNAL & LIGHTING BRANCH BREAKERS ARE INSTALLED IN SAME PANEL BOARD, THE MAIN BREAKER SHALL BE PERMANENTLY LABELED AS FOLLOWS:

**WARNING**

DO NOT USE MAIN BREAKER AS A DISCONNECT THIS PANEL BOARD CONTAINS ONE OR MORE BRANCH BREAKERS CONTROLLING A SIGNALIZED INTERSECTION

**NOTES:**

- SERVICE CABINETS SHALL BE NEMA TYPE 3R. TO BE FURNISHED WITH A PADLOCK HASP.
- DEAD FRONT CONSTRUCTION IS REQUIRED ON ALL CABINETS.
- PLUG-IN TYPE BREAKERS SHALL BE USED ON "B" SERVICES. MAIN BREAKERS SHALL BE BOLT RETAINED.
- PRESSURE TYPE TERMINALS SHALL BE REQUIRED FOR #8 THROUGH #2 AWG. WIRE.
- ALL SERVICES SHALL BE U.L. LABELED FOR MAXIMUM 100 AMP BUS RATING, AND "APPROVED FOR SERVICE ENTRANCE EQUIPMENT."
- THE MAIN BREAKER LABEL SHALL BE MADE OF RED ON WHITE PLASTIC LAMINATE. THE BRANCH BREAKER LABELS SHALL BE MADE OF BLACK ON WHITE PLASTIC LAMINATE. THE LEGENDS SHALL BE ENGRAVED INTO THE STRIP SO AS TO PROVIDE RED OR BLACK LEGEND ON THE REQUIRED BACKGROUND. THE LABELS SHALL BE PERMANENTLY ATTACHED TO THE DEAD FRONT, NEXT TO THE CORRESPONDING BREAKERS.
- LIGHTING CONTACTORS, LIGHTING & SIGNAL BRANCH CIRCUIT BREAKERS TO BE FACTORY INSTALLED.
- BRANCH CIRCUIT WIRE AND PHOTOELECTRIC CONTROL TO BE SUPPLIED BY THE CONTRACTOR.
- ALL BUSSING TO BE 100 AMP RATED.
- WIRING SHALL BE THWN/MTW 600V 90 C°-RATED.

SHOW UNUSED LIGHTING CIRCUITS AS DASHED LINES AND LABEL AS "SPARE"

**TYPE 3 SERVICE**

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED C. WILKINS	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED C. CANFIELD	
DETAILED C. WILKINS	CADD FILE NAME TRF-2021-20 K20461 MAIN.dwg
DRAWING CHECKED C. CANFIELD	DRAWING DATE: AUGUST 2024

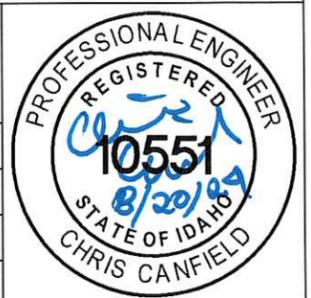
**IDAHO TRANSPORTATION DEPARTMENT**

**CITY OF IDAHO FALLS**

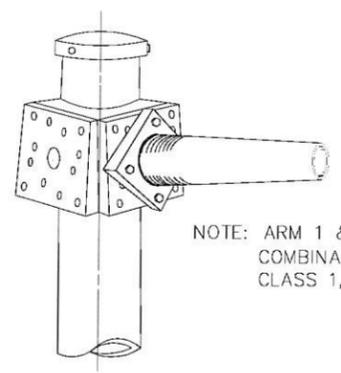
PROJECT NO.	A020(461)
-------------	-----------

TRAFFIC SIGNAL DETAILS	INT 5TH & HOLMES SIGNAL, IDAHO FALLS
------------------------	--------------------------------------

<b>English</b>	
COUNTY	BONNEVILLE
KEY NUMBER	20461
SHEET 20 OF 25	





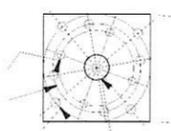


NOTE: ARM 1 & 2 - ANY COMBINATION OF CLASS 1, 2 OR 3

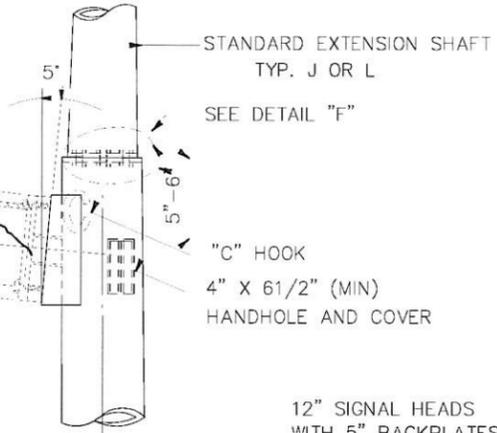
**MULTIPLE SIGNAL ARM ATTACHMENT CONCEPT**

6 ea. -11/4"-7 (CLASS 1), AND  
6 ea. -11/2"-6 (CLASS 2 AND 3)  
HEX HEAD CAP SCREWS TO BE  
FURNISHED WITH THE MAIN SHAFT.  
ALL TAPPED HOLES IN THE SIGNAL  
ARM CONNECTION SHALL BE SEALED  
WITH A REMOVABLE THREADED PLUG.

TAPPED PLATE  
12" B.C. (DESIGN LOAD CLASS 1)  
14" B.C. (DESIGN LOAD CLASS 2)  
17" B.C. (DESIGN LOAD CLASS 3)



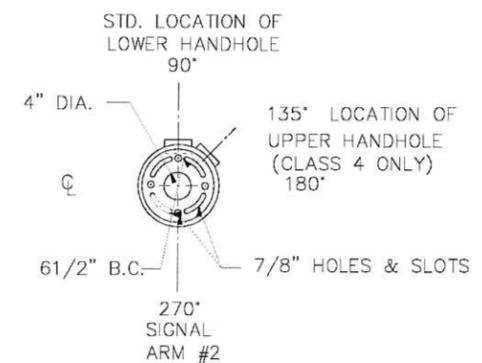
4" DIA. - ROUND OR CHASE  
EDGES FOR WIRE PROTECTION



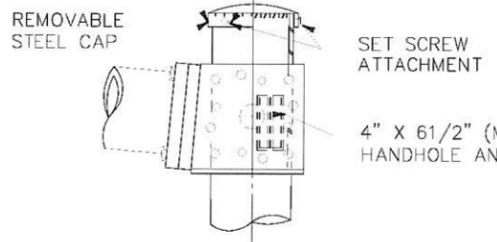
**SIGNAL ARM CONNECTION  
DETAIL "E"**

NOTE:  
CLEAN ALL THREADS AND SEAT  
ALL BOLTS PRIOR TO ASSEMBLY.

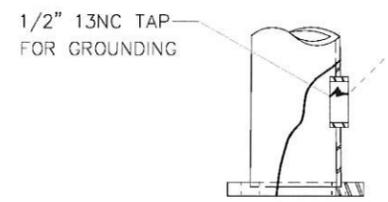
NOTE: HEAD CONFIGURATION AND DIMENSIONS  
SHOWN FOR MAXIMUM LOADING, SEE PLANS  
FOR ACTUAL SIGN AND SIGNAL PLACEMENT.



**DETAIL "F" TOP VIEW**



**STEEL CAP AND HANDHOLE DETAIL**



**BASE DETAIL**

22" B.C. (CLASS 4)  
2" SLOT  
REQUIRED

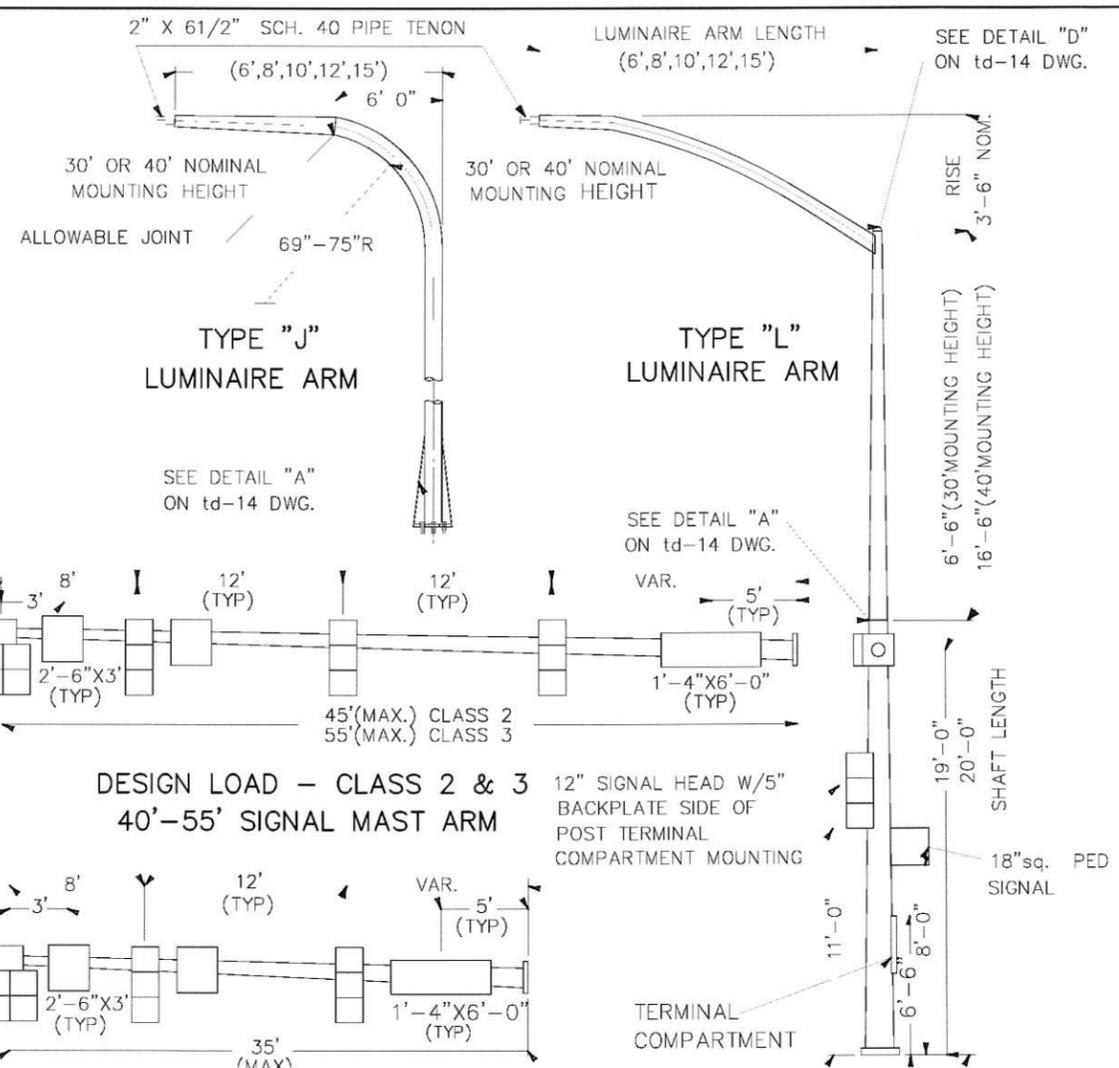
\* IDENT. LOCATION

4" X 6 1/2" (MIN)  
HANDHOLE AND COVER

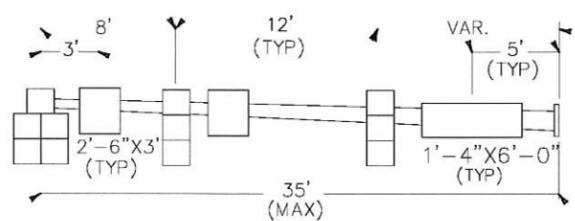
NOTE:  
CLEAN ALL THREADS AND SEAT  
ALL BOLTS.

NOTE:  
ANCHOR BOLTS SHALL PROJECT  
ABOVE THE BASE PLATE THE HEIGHT  
OF THE WASHER, TWO ANCHOR BOLT  
NUTS, AND THREE THREADS (ABOVE  
THE TOP ANCHOR BOLT NUTS).

4 ea. 2 1/4" X 84" X 6" ANCHOR BOLTS  
WITH EIGHT GALV. WASHERS AND  
TWELVE HEX NUTS, TO BE FURNISHED  
WITH MAIN SHAFT.



**DESIGN LOAD - CLASS 2 & 3  
40'-55' SIGNAL MAST ARM**



**DESIGN LOAD - CLASS 1  
20'-35' SIGNAL MAST ARM**

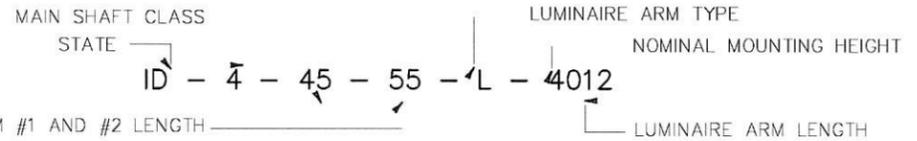
LUMINAIRE ARM		
EXTENSION TYPE	MOUNTING HEIGHT	ARM LENGTH
L OR J	30'	6'
	40'	8'
		10'
		12'
		15'

SIGNAL POLE	
MAIN SHAFT	SIGNAL ARM LENGTH
CLASS 4	20'
	25'
	30'
	35'
	40'
	45'
	55'

\* 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**



- GENERAL NOTES:**
1. THESE STRUCTURES SHALL CONFORM TO THE LATEST REVISION TO THE 1994 AASHTO SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS. WITH 80 M.P. WIND LOADING. MAXIMUM ALLOWABLE OVERSTRESS SHALL BE 120% FOR GROUPS 2 AND 3.
  2. CLASS 1 LOADS FOR A 20 FT. MAST ARM SHALL BE BASED ON A 3 SECTION SIGNAL HEAD.

3. CLASS 4 IS ANY COMBINATION OF CLASS 1, 2 OR 3 DESIGN LOAD ON ARMS 1 AND 2.
4. DESIGN LOADS SHALL BE BASED ON 12" POLYCARBONATE SIGNAL HEADS WITH 5" BACKPLATES AND STRAP ON BRACKET MOUNTING.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED C. WILKINS	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED C. CANFIELD	CADD FILE NAME TRF-2021-20 K20461 MAIN.dwg
DETAILED C. WILKINS	DRAWING DATE: AUGUST 2024
DRAWING CHECKED C. CANFIELD	

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

**CITY OF IDAHO FALLS**

PROJECT NO.  A020(461)
------------------------------

TRAFFIC SIGNAL DETAILS  INT 5TH & HOLMES SIGNAL, IDAHO FALLS
---

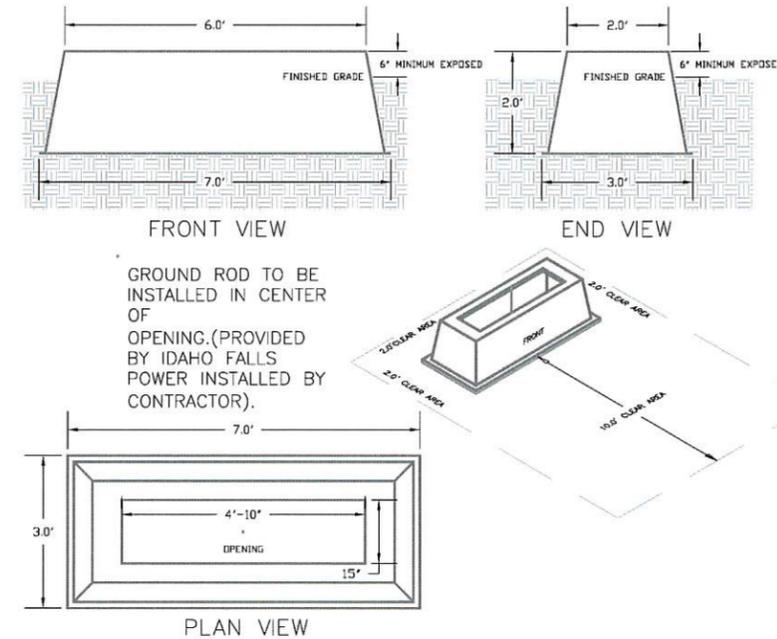
<b>English</b>
COUNTY BONNEVILLE
KEY NUMBER 20461
SHEET 22 OF 25

FOUNDATION SCHEDULE							CABINET ONLY							
CABINET TYPE	FOUNDATION TYPE	A	B	C	D	E	HOOPS		VERTICAL RODS		CU. YDS. CONC.			
							NO.	SIZE	NO.	SIZE	FOUNDATION	PAD		
SIGNAL	M	2'-9"	1'-8"	—	—	1'-0"	3	#4	24'0"	6	#4	13'0"	.5	.1
	P	3'-11"	2'-5"	3'-4 3/4"	1'-6 1/2"	—	3	#4	35'6"	6	#4	13'0"	.9	.1

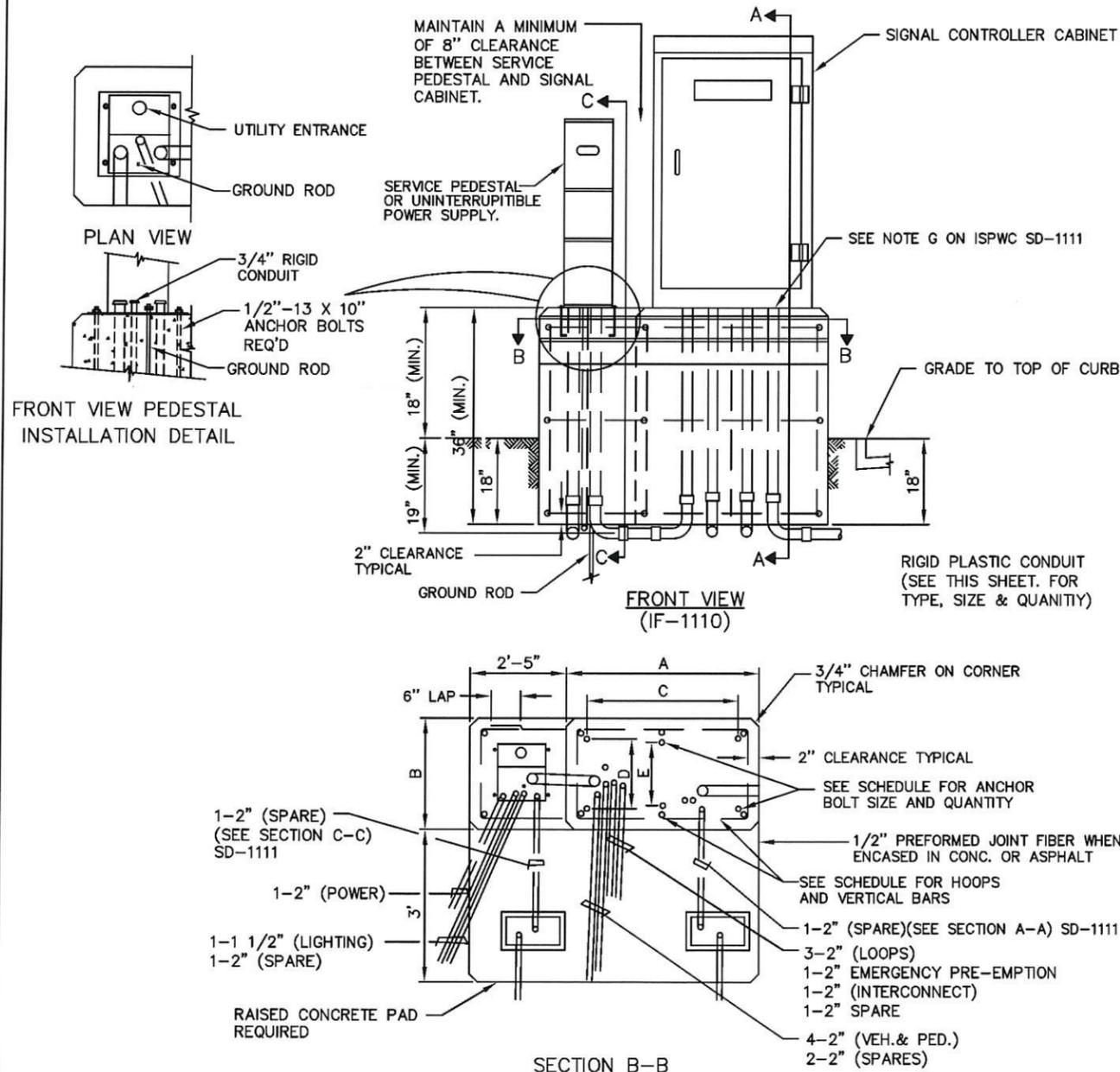
FOUNDATION SCHEDULE (CONT.)																	
CABINET AND 1 SERVICE PEDESTALS							CABINET AND 2 SERVICE PEDESTALS										
HOOPS		VERTICAL RODS		CU. YDS. CONC.			HOOPS		VERTICAL RODS		CU. YDS. CONC.			ANCHOR BOLT			
NO.	SIZE	NO.	SIZE	NO.	FOUNDATION	PAD	NO.	SIZE	NO.	SIZE	NO.	FOUNDATION	PAD	QNTY.	SIZE		
3	#4	8	#4	3	38'6"	.8	.2	3	#4	53'0"	10	#4	21'8"	1.1	.3	2	1/2" X 12" X 3"
3	#4	8	#4	3	50'0"	1.4	.2	3	#4	64'6"	10	#4	21'8"	1.9	.3	4	3/4" X 18" X 4"

**NOTES**  
SEE ISPCW DETAIL SD-1111 FOR ADDITIONAL INFORMATION.

**3 PHASE SECTIONALIZING CABINET BASE (GROUND SLEEVE)**



1. 3 PHASE SECTIONALIZING CABINET BASE (GROUND SLEEVE) SHALL BE PROVIDED BY IDAHO FALLS POWER BUT SHALL BE INSTALLED TO REQUIRED GRADE BY THE CONTRACTOR/DEVELOPER.
2. THE PAD LOCATION SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY PRIOR TO PLACEMENT.
3. THE TOP OF THE BASE SHALL BE INSTALLED A MINIMUM OF 6" ABOVE FINISHED GRADE.
4. POSITIVE DRAINAGE MUST BE PROVIDED AWAY FROM THE CABINET BASE.



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
C. WILKINS  
DESIGN CHECKED  
C. CANFIELD  
DETAILED  
C. WILKINS  
DRAWING CHECKED  
C. CANFIELD

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY  
CADD FILE NAME TRF-2021-20 K20461 MAIN.dwg  
DRAWING DATE: AUGUST 2024

IDAHO TRANSPORTATION DEPARTMENT  
CITY OF IDAHO FALLS

PROJECT NO.  
A020(461)

TRAFFIC SIGNAL DETAILS  
INT 5TH & HOLMES SIGNAL, IDAHO FALLS

**English**  
COUNTY BONNEVILLE  
KEY NUMBER 20461  
SHEET 23 OF 25

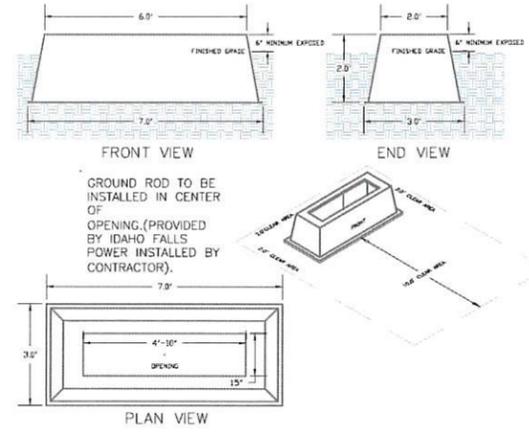


**NOTES**

- CONTACT THE CITY OF IDAHO FALLS ENGINEERING DEPT. IF SOIL IS CLAY, SANDY CLAY, SILTY CLAY, AND CLAYEY SILT OR IF SOIL IS ORGANIC CLAYS AND PEAT.
- TRAFFIC SIGNAL POLES ARE LIMITED TO A MAXIMUM 50' LUMINAIRE MOUNTING HEIGHT, A MAXIMUM 20' LUMINAIRE MAST ARM LENGTH, AND MAXIMUM SIGNAL MAST ARM LENGTHS LISTED IN THE "SIGNAL POLE SCHEDULE".
- CONTRACTOR SHALL PROVIDE CUSTOM FOUNDATION DESIGN FOR TRAFFIC SIGNAL POLES THAT EXCEED LIMITATIONS IN NOTE 2. THE FOUNDATION SHALL BE DESIGNED AND SEALED BY A QUALIFIED ENGINEER CURRENTLY LICENSED TO PRACTICE ENGINEERING IN IDAHO.
- USE 2 HOOPS AT TOP FOR FOUNDATION TYPE "C" ONLY.
- REINFORCEMENT STEEL IN FOUNDATIONS SHALL BE GRADE 60.
- ALL BASES SHALL BE INSPECTED & APPROVED BY THE CITY ENGINEER PRIOR TO CONCRETE PLACEMENT.
- USE MANUFACTURER'S STANDARD FOR ANCHOR BOLT INSTALLATION.
- TRAFFIC SIGNAL POLES SHALL HAVE A GROUND CONNECTED TO THE POWER SOURCE LOCATION ONLY. MULTIPLE GROUNDS ARE ONLY ALLOWED ON STREET LIGHT POLES.
- ALL CONDUITS, ELBOWS & COUPLINGS WITHIN & PROTRUDING FROM THE FOUNDATION SHALL BE AS SHOWN ON THE PLANS. GRADUAL SWEEP ELBOWS ONLY, PLUMBERS ELBOWS NOT ALLOWED



**3 PHASE SECTIONALIZING CABINET BASE (GROUND SLEEVE)**

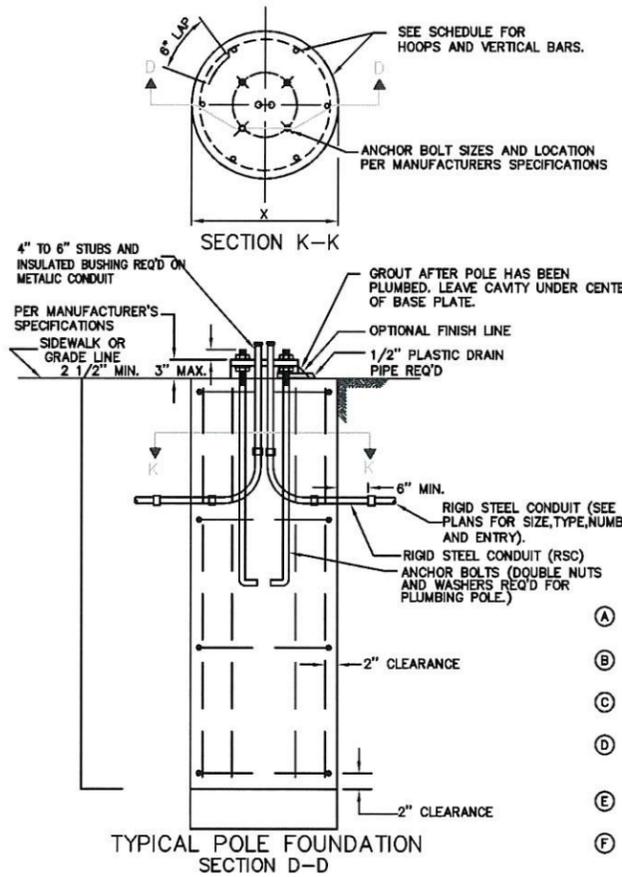


- 3 PHASE SECTIONALIZING CABINET BASE (GROUND SLEEVE) SHALL BE PROVIDED BY IDAHO FALLS POWER BUT SHALL BE INSTALLED TO REQUIRED GRADE BY THE CONTRACTOR/DEVELOPER.
- THE PAD LOCATION SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY PRIOR TO PLACEMENT.
- THE TOP OF THE BASE SHALL BE INSTALLED A MINIMUM OF 6" ABOVE FINISHED GRADE.
- POSITIVE DRAINAGE MUST BE PROVIDED AWAY FROM THE CABINET BASE.

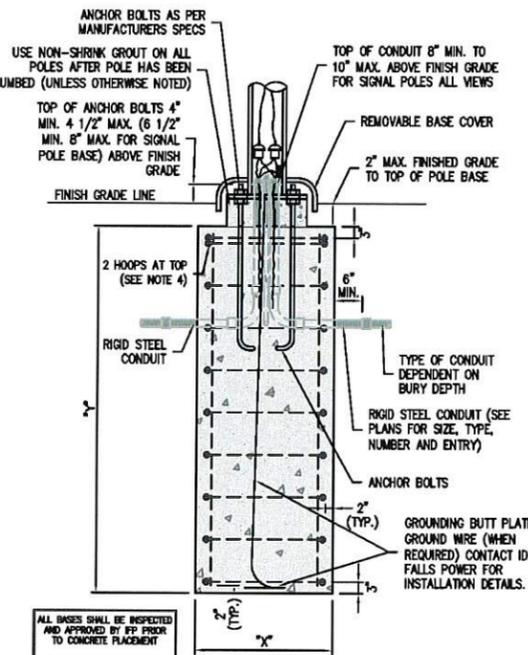
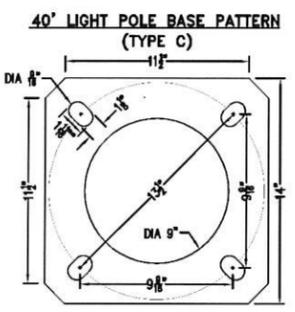
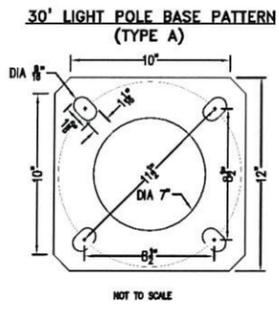
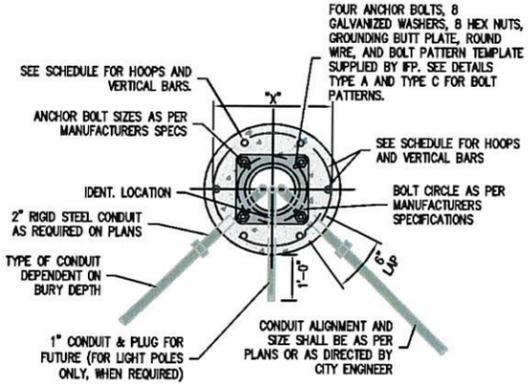
POLE TYPE	MT.HT.	MASTARM LENGTH	FOUNDATION TYPE	X		Y		HOOPS		VERTICAL RODS		CU. YDS. CONCRETE
				NO.	SIZE	NO.	SIZE	NO.	SIZE	NO.	SIZE	
PEDESTRIAN SIGNAL POLE	10'	-	A	2'-0"	5'-0"	4	#4	23'-0"	6	#4	28'-0"	.6
LIGHT POLE	25'-30'	ALL	A	2'-0"	5'-0"	4	#4	23'-0"	6	#4	28'-0"	.6
LIGHT POLE	35'	ALL	B	2'-6"	7'-0"	4	#4	29'-4"	6	#6	40'-0"	1.3
LIGHT POLE	40'-50'	ALL	C	3'-0"	8'-0"	5	#4	44'-2"	8	#6	61'-4"	2.1
PED. PUSHBUTTON POLE	4'-0"	-	E	1'-6"	2'-6"	-	-	-	-	-	-	.2
DUAL MASTARM SIGNAL POLE	-	ALL	F	3'-0"	12'-0"	8	#5	70'-8"	12	#6	140'	3.1
SIGNAL POLE	-	20' - 55'	F	3'-0"	12'-0"	8	#5	70'-8"	12	#6	140'	3.1
SIGNAL POLE	-	60' - 65'	G	3'-6"	14'-0"	9	#5	78'-10"	12	#6	166'	3.7

TRAFFIC SIGNAL POLES ARE LIMITED TO A MAXIMUM 50' LUMINAIRE MOUNTING HEIGHT, A MAXIMUM 20' LUMINAIRE MAST ARM LENGTH, AND MAXIMUM SIGNAL MAST ARM LENGTHS LISTED IN THE "SIGNAL POLE SCHEDULE".  
WHEN BEDROCK IS ENCOUNTERED ROCK MUST BE REMOVED AND POLE PLACED AS SHOWN BELOW.

VERTICAL POLE	SIGNAL ARM LENGTH		
	ARM 1	ARM 2 (MAX.)	
CLASS 1	20' 25' 30' 35'		SINGLE MAST
CLASS 2	40' 45'		
CLASS 3	50' 55'		
CLASS 4 (SEE NOTE 3)	20' 25' 30' 35' 40' 45' 50' 55'	55' 55' 50' 45' 45' 45' 30' 25'	DOUBLE MAST



- NOTES:**
- LOCATE FOUNDATIONS AS INDICATED ON THE PROJECT PLAN SHEETS.
  - ALL CONDUIT ELBOWS USED IN CONCRETE BASES SHALL BE RSC.
  - STEEL CONDUIT SHALL BE USED TO EXTEND ELBOWS BEYOND FOUNDATION.
  - SPARE STUBOUTS SHALL BE TERMINATED WITH A STEEL COUPLING AND PLASTIC PUSH PLUG AT BOTH ENDS.
  - DO NOT GROUT IF BREAKAWAY DEVICES ARE USED.
  - SEE GROUNDING DETAIL DRAWING SD-1117.



VERTICAL POLE	SIGNAL ARM LENGTH		
	ARM 1	ARM 2 (MAX.)	
CLASS 1	20' 25' 30' 35'		SINGLE MAST
CLASS 2	40' 45'		
CLASS 3	50' 55'		
CLASS 4 (SEE NOTE 3)	20' 25' 30' 35' 40' 45' 50' 55'	55' 55' 50' 45' 45' 45' 30' 25'	DOUBLE MAST

POLE TYPE	MT.HT.	MASTARM LENGTH	FOUNDATION TYPE	X		Y		HOOPS		VERTICAL RODS		CU. YDS. CONCRETE
				NO.	SIZE	NO.	SIZE	NO.	SIZE	NO.	SIZE	
PEDESTRIAN SIGNAL POLE	10'	-	A	2'-0"	5'-0"	4	#4	23'-0"	6	#4	28'-0"	0.6
LIGHT POLE PEDESTRIAN SIGNAL POLE	30'	ALL	A	2'-0"	5'-0"	4	#4	23'-0"	6	#4	28'-0"	0.6
LIGHT POLE	40'	ALL	C	3'-0"	8'-0"	5	#4	44'-2"	8	#6	61'-4"	2.1
PED. PUSHBUTTON POLE	4'-0"	-	E	1'-6"	2'-6"	-	-	-	-	-	-	0.2
DUAL MASTARM SIGNAL POLE	-	ALL	F	3'-0"	12'-0"	8	#5	70'-8"	12	#6	140'	3.1
SIGNAL POLE	-	20' - 55'	F	3'-0"	12'-0"	8	#5	70'-8"	12	#6	140'	3.1
SIGNAL POLE (SEE NOTE 2)	-	60' - 65'	G	3'-6"	14'-0"	9	#5	78'-10"	12	#6	166'	3.7

TRAFFIC SIGNAL POLES ARE LIMITED TO A MAXIMUM 50' LUMINAIRE MOUNTING HEIGHT, A MAXIMUM 20' LUMINAIRE MAST ARM LENGTH, AND MAXIMUM SIGNAL MAST ARM LENGTHS LISTED IN THE "SIGNAL POLE SCHEDULE".  
WHEN BEDROCK IS ENCOUNTERED ROCK MUST BE REMOVED AND POLE PLACED AS SHOWN BELOW.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

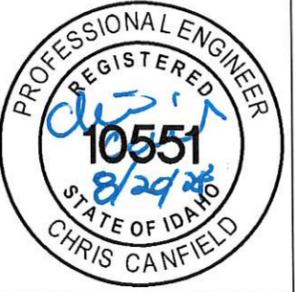
DESIGNED C. WILKINS	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED C. CANFIELD	
DETAILED C. WILKINS	CADD FILE NAME TRF-2021-20 K20461 MAIN.dwg
DRAWING CHECKED C. CANFIELD	DRAWING DATE: AUGUST 2024

IDAHO TRANSPORTATION DEPARTMENT  
CITY OF IDAHO FALLS

PROJECT NO.  A020(461)
------------------------------

TRAFFIC SIGNAL DETAILS  INT 5TH & HOLMES SIGNAL, IDAHO FALLS
---

<b>English</b>
COUNTY BONNEVILLE
KEY NUMBER 20461
SHEET 24 OF 25



**NOTES**

- COORDINATE WITH I.F.P. TO VERIFY THAT RELOCATED UTILITIES & SIGNAL POLES MEET CLEARANCE REQUIREMENTS.

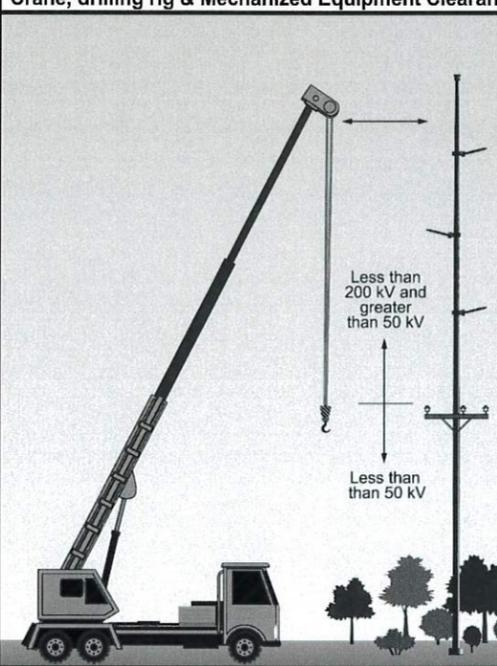
**OPERATION AND CUSTOMER CLEARANCES**

**Crane / Derrick Transmission Clearance**



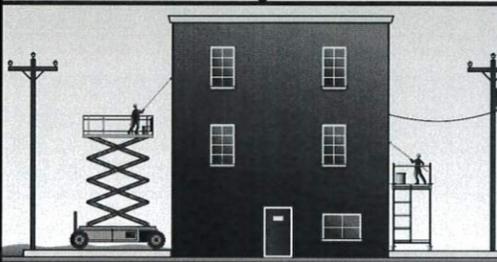
Crane / Derrick	Less than 50kV	Heavy machinery equipment (backhoes, front-end loaders, bulldozer, dump trucks)	Less than 50kV
Must Contact Electric Utility if maximum working radius in the work zone. See OSHA 1926.1408 (a) (2)	20 feet	Horizontal Minimum Clearance from. See OSHA 1926.600 (a) (6)	10 feet
Minimum Approach Distance, ONLY if Specific Controls in Place. See OSHA 1926.1408 (a) (2) (iii)	10 feet	Vertical Minimum Clearance from. See OSHA 1926.600 (a) (6)	10 feet

**Crane, drilling rig & Mechanized Equipment Clearance**



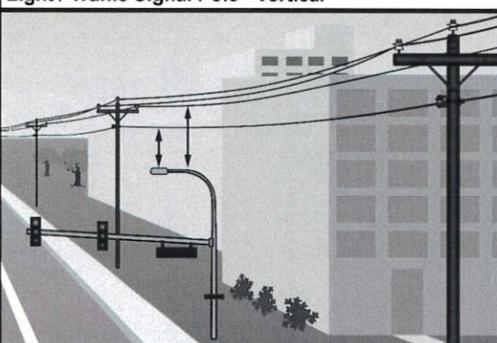
	Less than 50kV	Less than 200kV and Greater than 50
Must Contact Electric Utility if maximum working radius in the work zone. See OSHA 1926.1408 (a) (2)	20 feet	20 feet
Minimum Approach Distance, ONLY if Specific Controls in Place. See OSHA 1926.1408 (a) (2) (iii)	10 feet	15 feet

**Scissor Lift & Scaffolding Clearance**



	Uninsulated Neutral Conductor	Insulated Line less than 300 Volts	Insulated Line less than 300 Volts to 750 volts	Uninsulated Lines 750 volts to 25 kV
Distance from Scaffold See OSHA 1926.451 (f) (4)	10 feet	3 feet	10 feet	10 feet
Worker or any conductive object See OSHA 1910.333 (c) (3) (i) (B)	Avoid Contact	1 feet	1 feet	2 feet

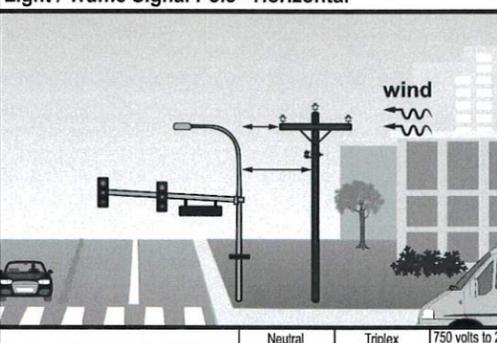
**Light / Traffic Signal Pole - Vertical**



	Neutral	Triplex	750 volts to 25kV
Vertical - NESC 234B2	3 feet	3 feet	4.5 feet

\* OSHA Minimum Clearances (typ. 10 ft.) apply when working on Light / Traffic Signal Pole See OSHA 1910.333 (c) (3) (i) (B)

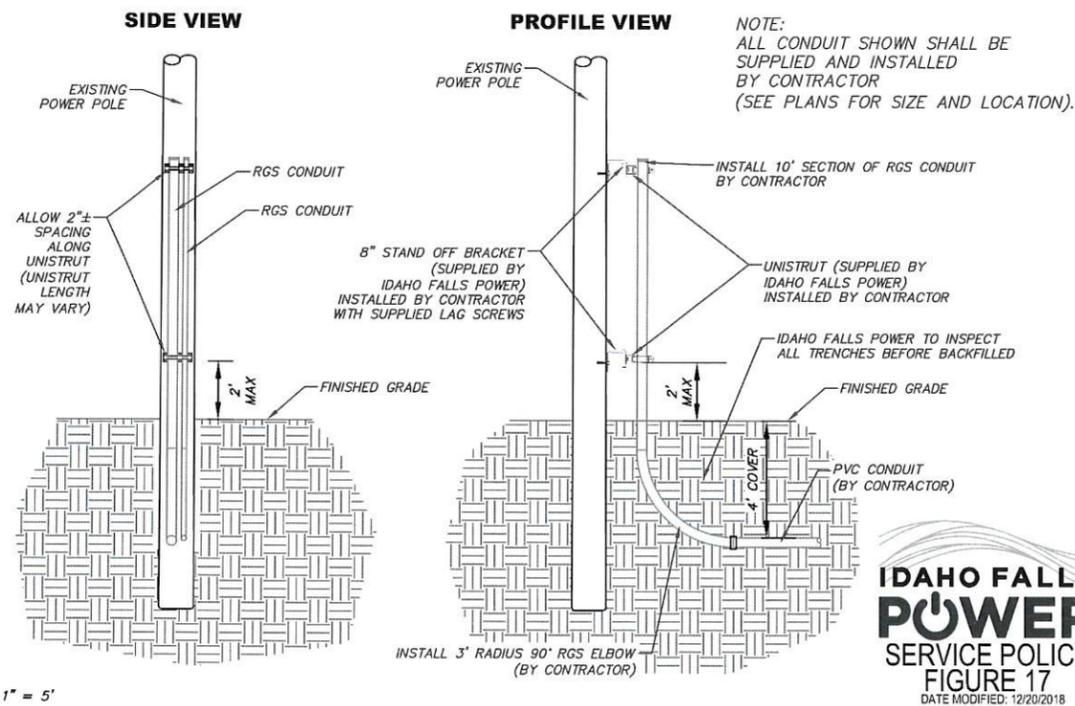
**Light / Traffic Signal Pole - Horizontal**



	Neutral	Triplex	750 volts to 25kV
Horizontal - NESC 234B1	3 feet	3 feet	5 feet
Horizontal 50MPH Wind - NESC 234B1	3 feet	3 feet	4.5 feet

\* OSHA Minimum Clearances (typ. 10 ft.) apply when working on Light / Traffic Signal Pole See OSHA 1910.333 (c) (3) (i) (B)

**RISER DETAIL FOR 2" - 4" CONDUIT**



GUIDE FOR OPERATION OF EQUIPMENT NEAR POWER LINES AND CUSTOMER OWNED POLES TO POWER LINES

SEE NESC AND OSHA FOR DETAILS AND EXCEPTIONS

DRAWING COURTESY OF HI-LINE ENGINEERING

**IDAHO FALLS POWER SERVICE POLICY FIGURE 19**  
DATE MODIFIED: 2018

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED C. WILKINS	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED C. CANFIELD	CADD FILE NAME TRF-2021-20 K20461 MAIN.dwg
DETAILED C. WILKINS	DRAWING DATE: AUGUST 2024
DRAWING CHECKED C. CANFIELD	

**IDAHO TRANSPORTATION DEPARTMENT**



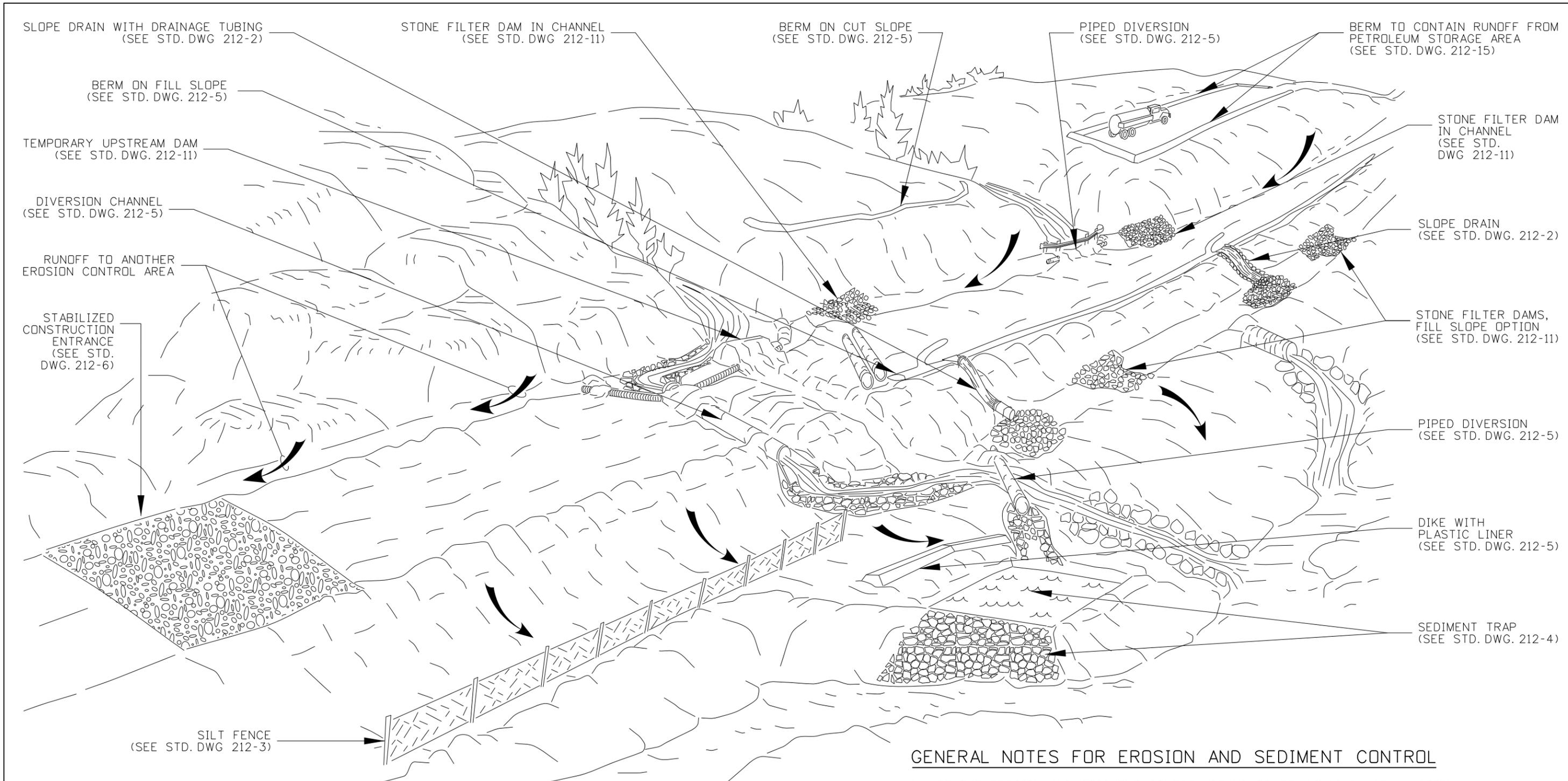
**CITY OF IDAHO FALLS**

PROJECT NO.	A020(461)
-------------	-----------

TRAFFIC SIGNAL DETAILS	INT 5TH & HOLMES SIGNAL, IDAHO FALLS
------------------------	--------------------------------------

<b>English</b>
COUNTY BONNEVILLE
KEY NUMBER 20461
SHEET 25 OF 25





**GENERAL NOTES FOR EROSION AND SEDIMENT CONTROL**

1. USE THE EROSION AND SEDIMENT CONTROL STANDARD DRAWINGS IN CONJUNCTION WITH THE ITD BEST MANAGEMENT PRACTICES MANUAL.
2. THE PLACEMENT OF EROSION CONTROL MEASURES IS SITE SPECIFIC. OBTAIN THE ENGINEER'S APPROVAL OF THE EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO INSTALLATION.
3. EROSION AND SEDIMENT CONTROL MEASURES PLACEMENT AND INSTALLATION MAY BE CONTROLLED BY THE NPDES, 404 PERMIT OR CONTRACT SPECIFICATIONS.
4. DRAWING NOT TO SCALE

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

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	9-93	MSM	6	12-16	RDL			
2	6-96	MSM	7	02-21	TWF			
3	10-10	KEH						
4	10-11	KEH						
5	12-12	RDL						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY  
 CADD FILE NAME: 212-01\_0421.dgn  
 DRAWING DATE: APRIL, 1993

**IDAHO TRANSPORTATION DEPARTMENT**



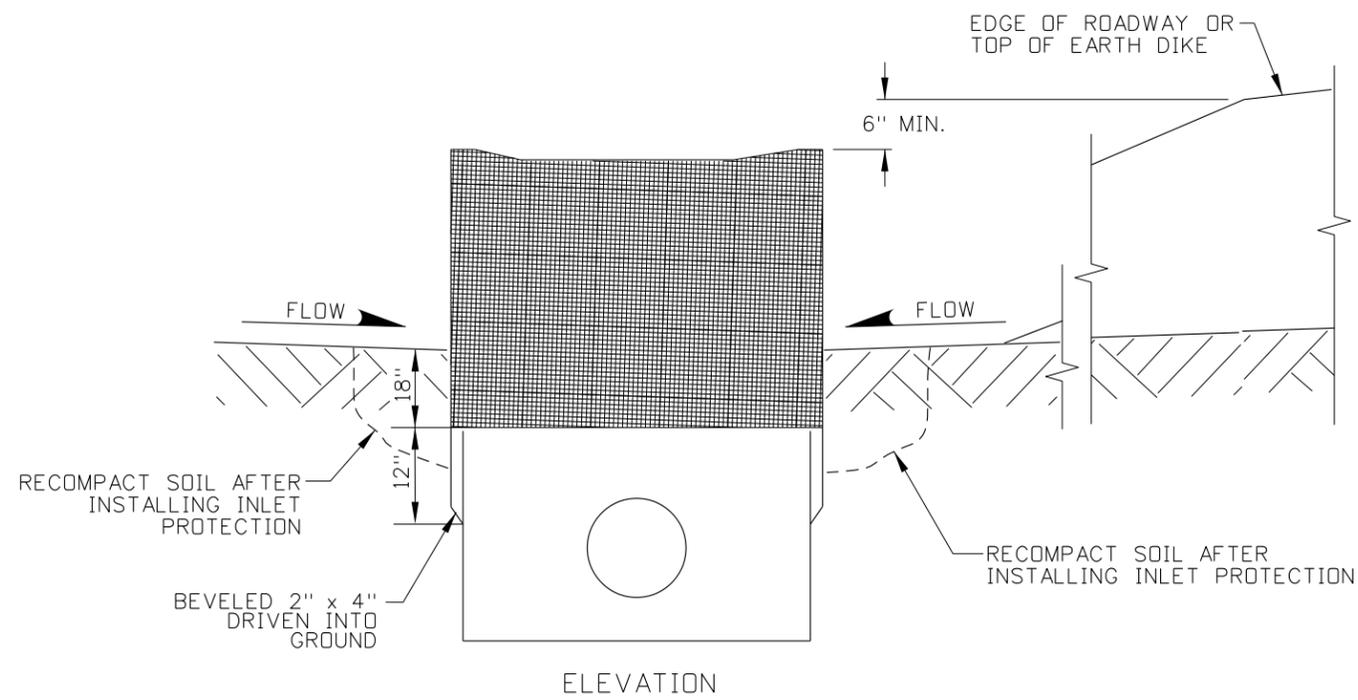
BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN  
 DESIGN/TRAFFIC SERVICES ENGINEER

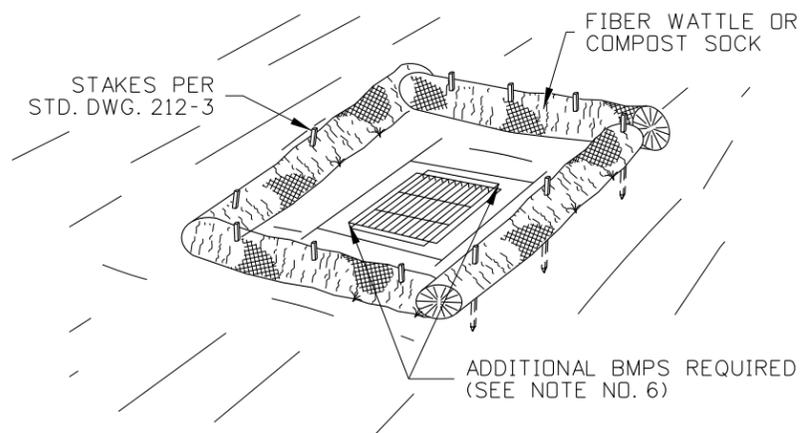
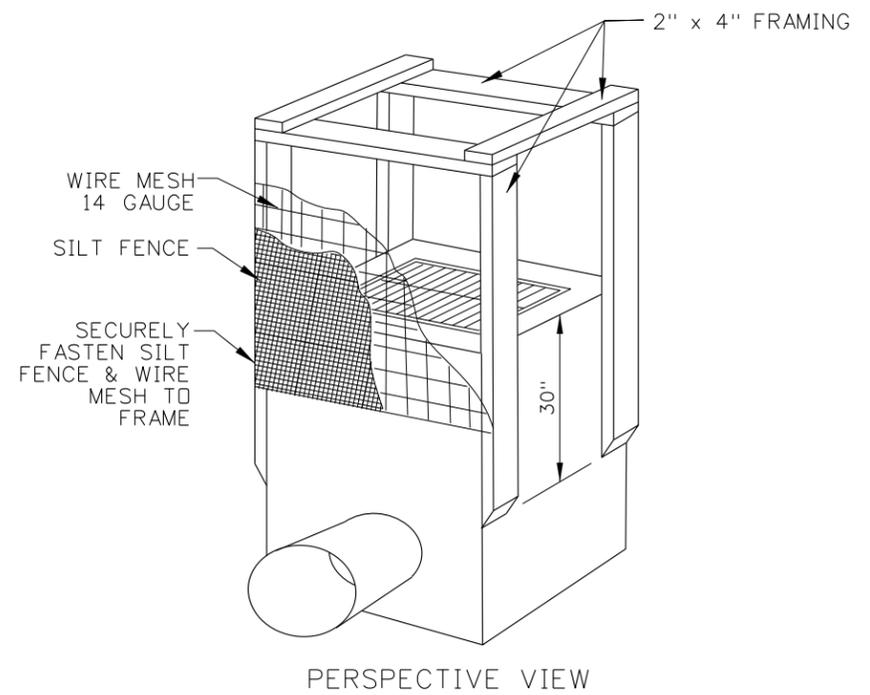
STANDARD DRAWING  
**EROSION AND SEDIMENT CONTROL**  
 EXAMPLE APPLICATIONS

**English**  
 STANDARD DRAWING NO.  
 212-1  
 SHEET 1 OF 1

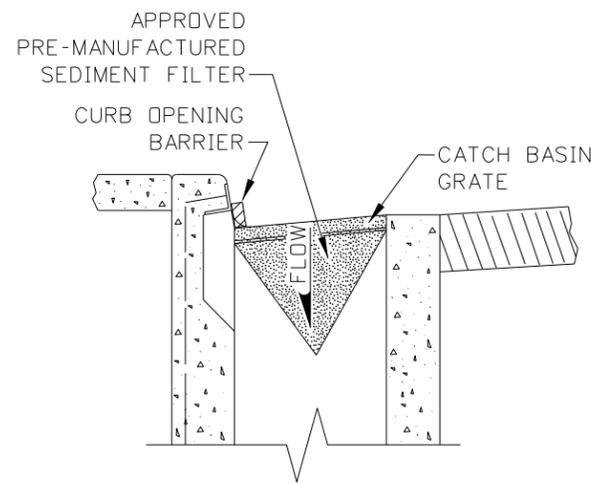




**FRAMED WIRE/FABRIC FILTER**



**FIBER WATTLE FILTER**



**PRE-MANUFACTURED SEDIMENT FILTER FOR INLET GRATE**

**NOTES**

1. SEE THE GENERAL NOTES FOR EROSION CONTROL STANDARD DRAWINGS ON 212-1.
2. REMOVE TRASH, DEBRIS, DUFF, AND MATERIALS THAT MAY INTERFERE WITH THE INLET OR CATCH BASIN PROTECTION FUNCTION PRIOR TO PLACEMENT AND DAILY THEREAFTER OR AS NEEDED.
3. ADJUST TO ENSURE EFFECTIVENESS.
4. FRAMED WIRE/FABRIC FILTER AND FIBER WATTLE FILTERS ARE INTENDED TO BE USED ON STRUCTURES NOT PRESENTLY SURROUNDED BY PAVEMENT.
5. ENSURE WATER DISCHARGING FROM THE INLET MEETS APPLICABLE WATER QUALITY STANDARDS.
6. USE IN CONJUNCTION WITH OTHER INLET PROTECTION DEVICES, NOT AS THE SOLE BMP. SEE SECTION SC-6 IN THE BMP MANUAL.
7. DRAWING 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						
4	03-21	TWF						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY  
 CADD FILE NAME: 212-07\_0421.dgn  
 DRAWING DATE: JUNE, 1996

**IDAHO TRANSPORTATION DEPARTMENT**



BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN  
 DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING  
**TEMPORARY EROSION AND SEDIMENT CONTROL INLET PROTECTION**  
 REQUIRES STD. DWG. 212-1

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

**English**

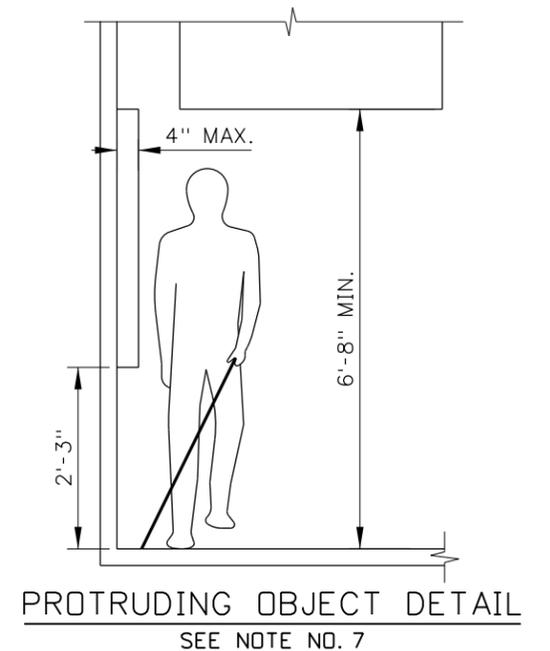
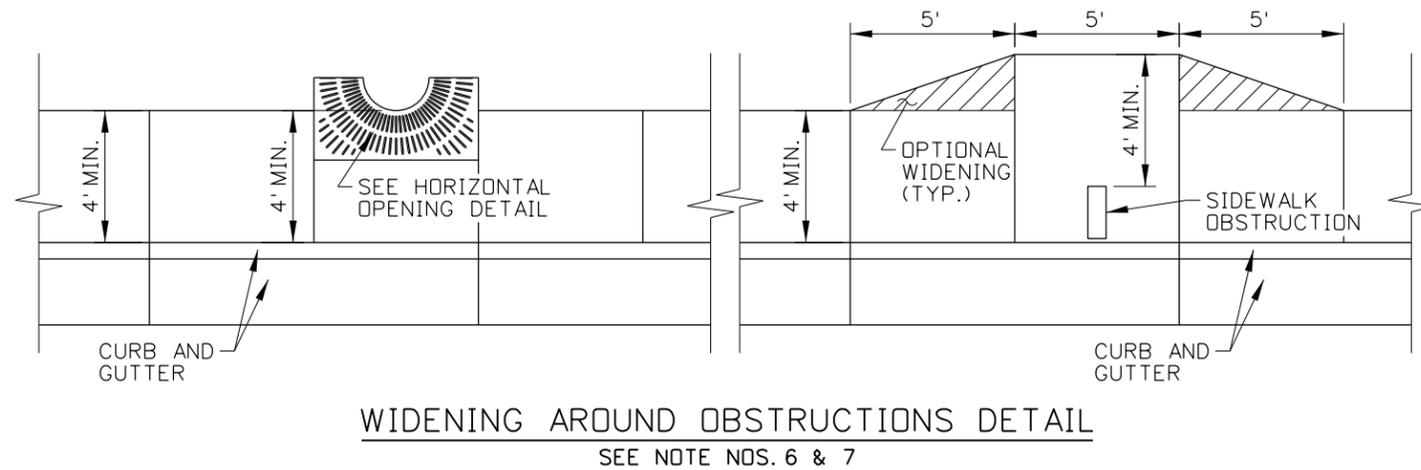
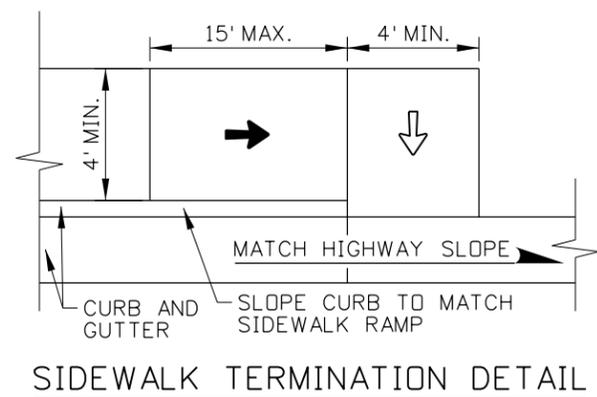
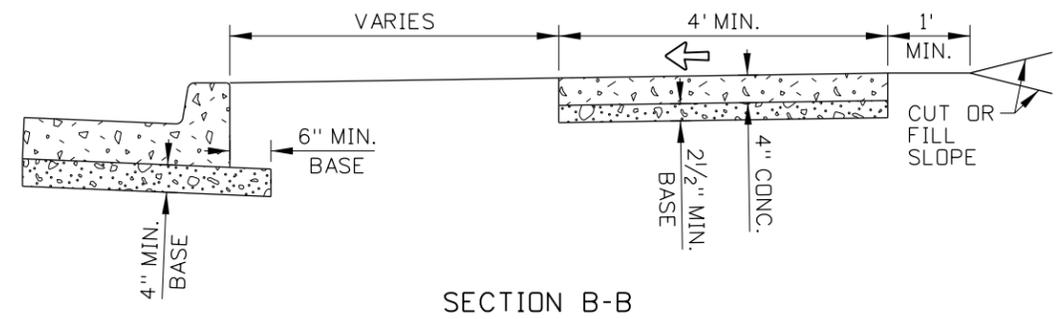
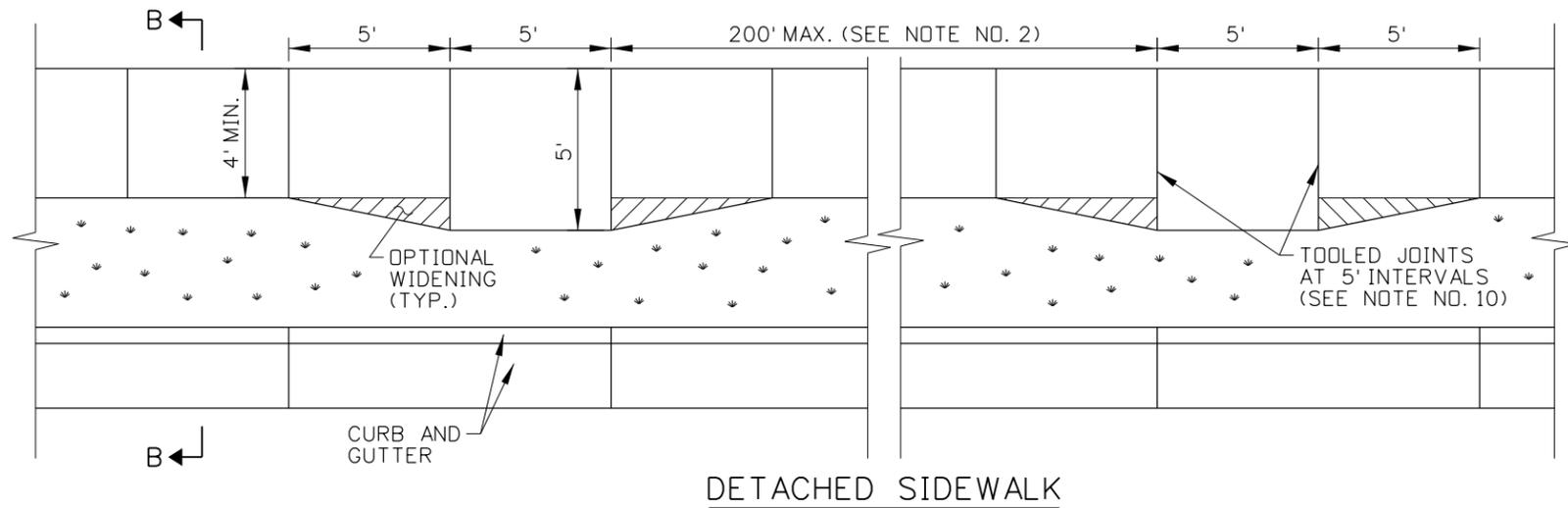
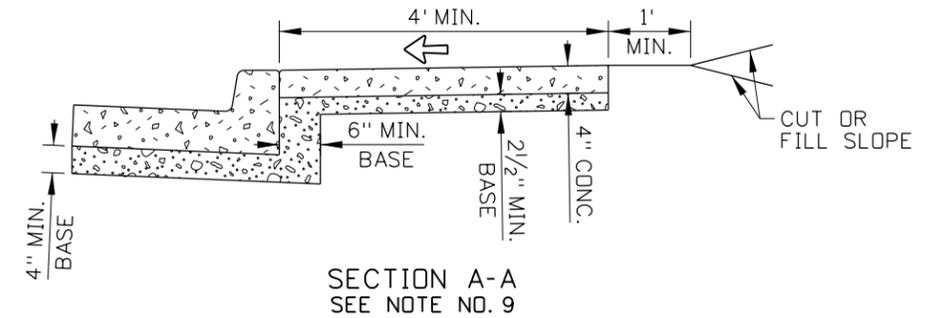
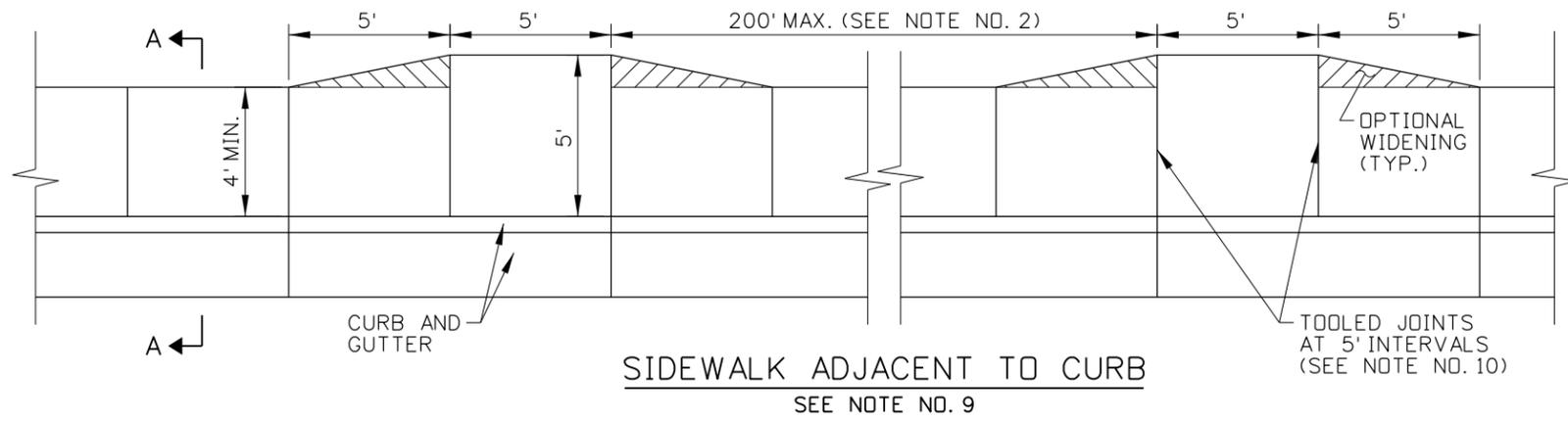
STANDARD DRAWING NO.  
**212-7**

SHEET 1 OF 1



**SYMBOL LEGEND**

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



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**

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

**English**

STANDARD DRAWING NO. **614-1**

SHEET 1 OF 2

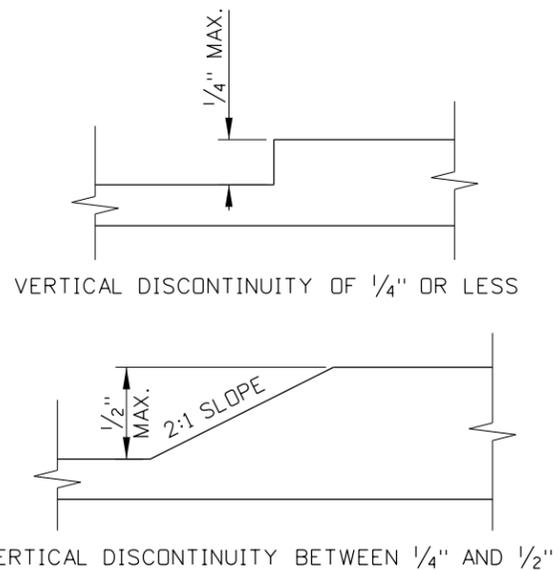
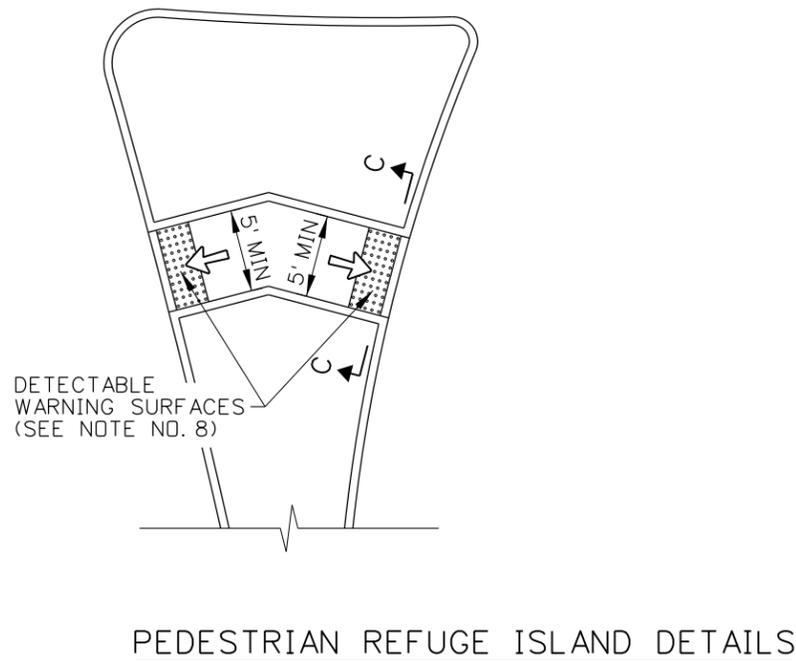
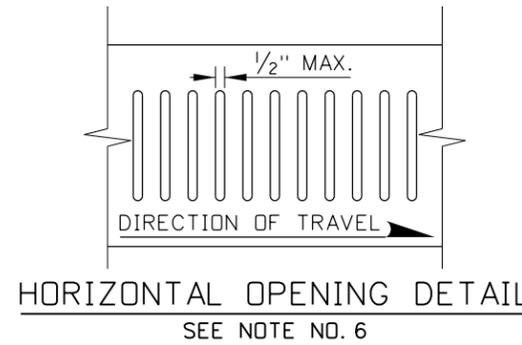
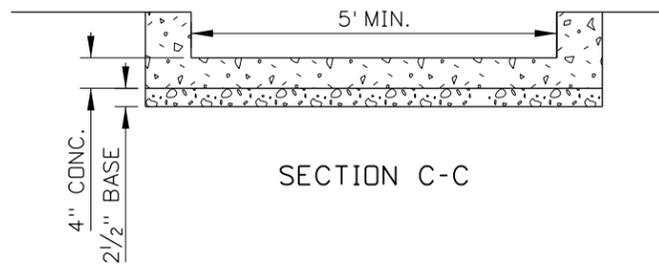
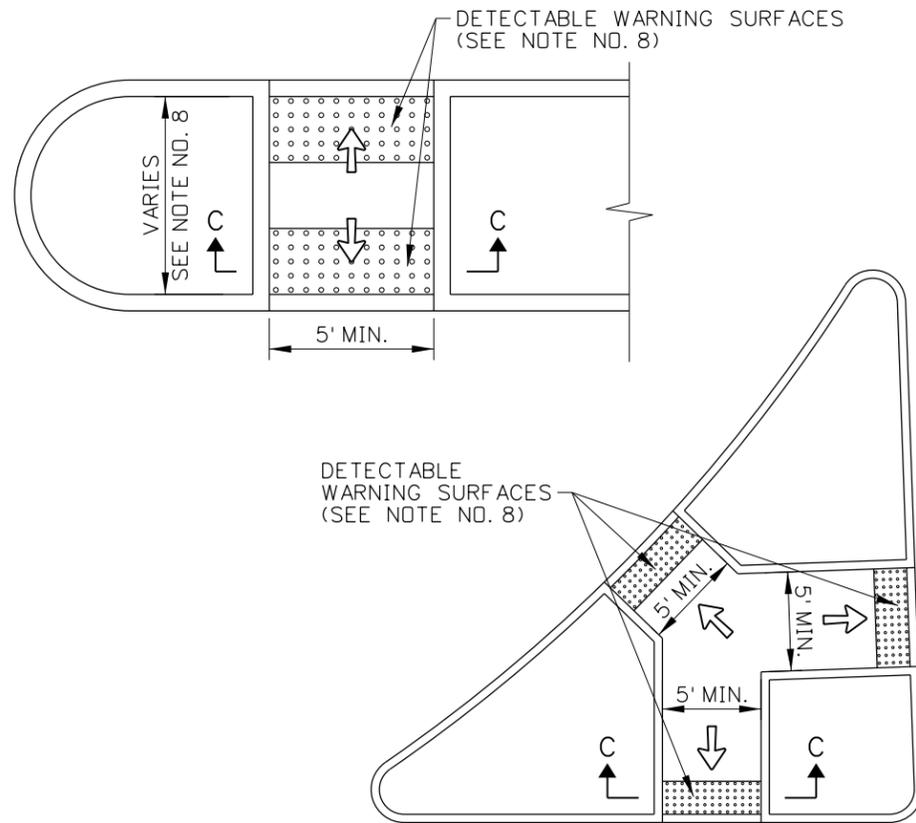
PROFESSIONAL ENGINEER  
LICENSED  
RYAN D. LANCASTER  
STATE OF IDAHO  
13683  
JUN 15, 2016

**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.



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**

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

**English**

STANDARD DRAWING NO. **614-1**

SHEET 2 OF 2



PROFESSIONAL ENGINEER

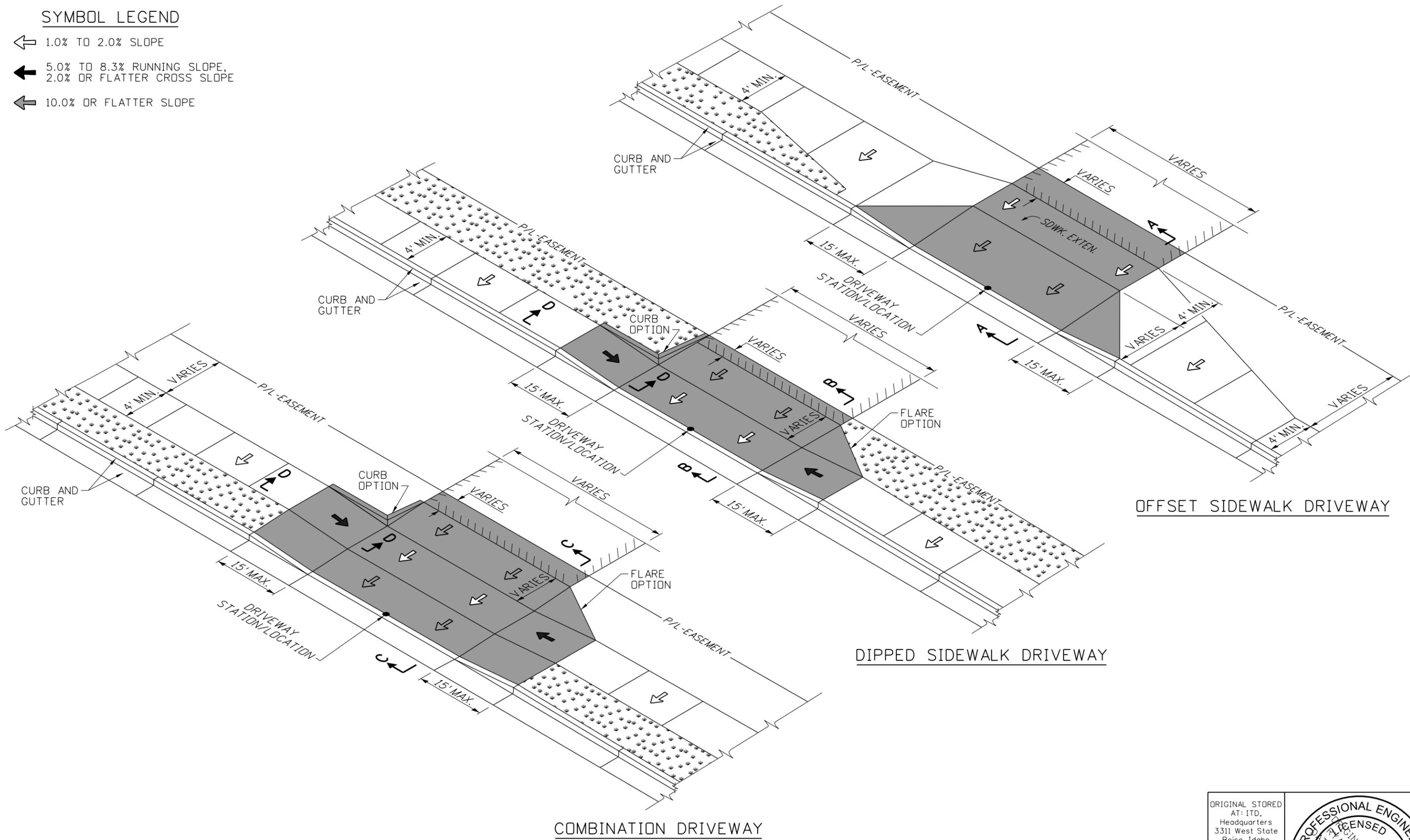
RYAN D. LANCASTER

13683

STATE OF 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



**OFFSET SIDEWALK DRIVEWAY**

**DIPPED SIDEWALK DRIVEWAY**

**COMBINATION DRIVEWAY**

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

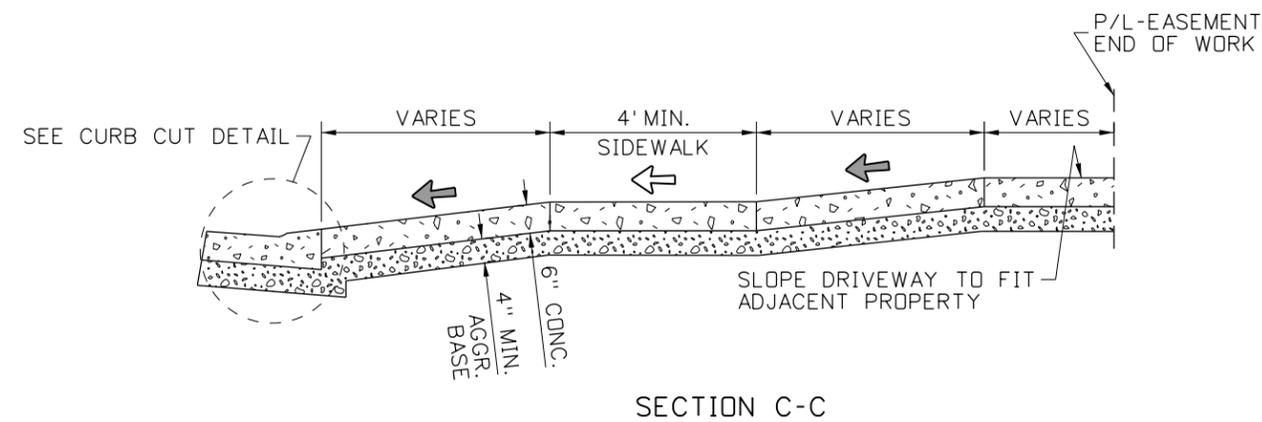
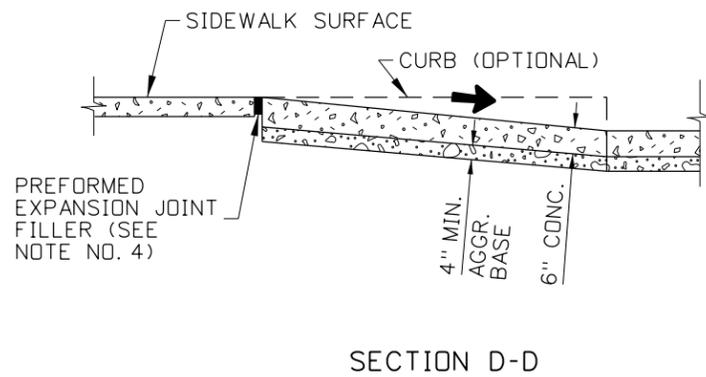
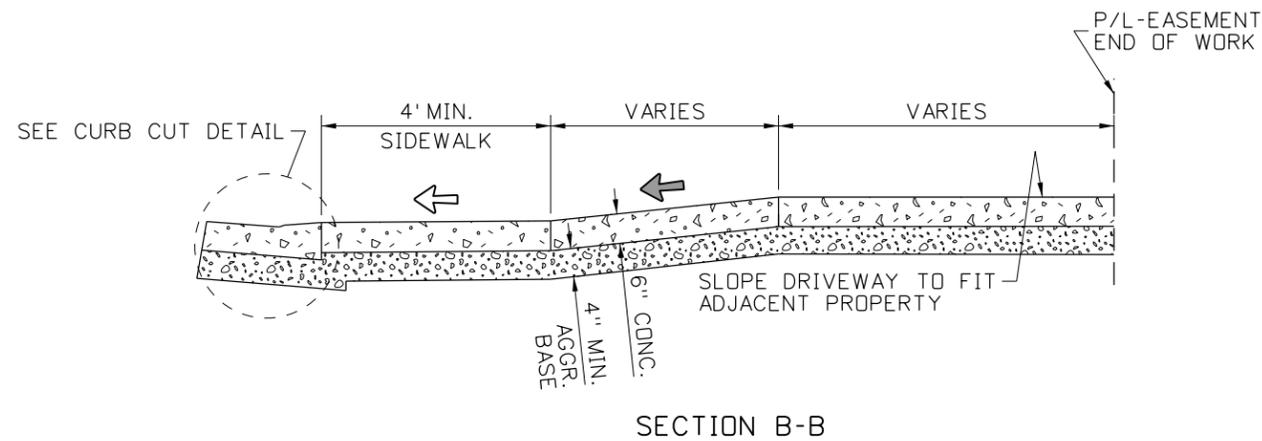
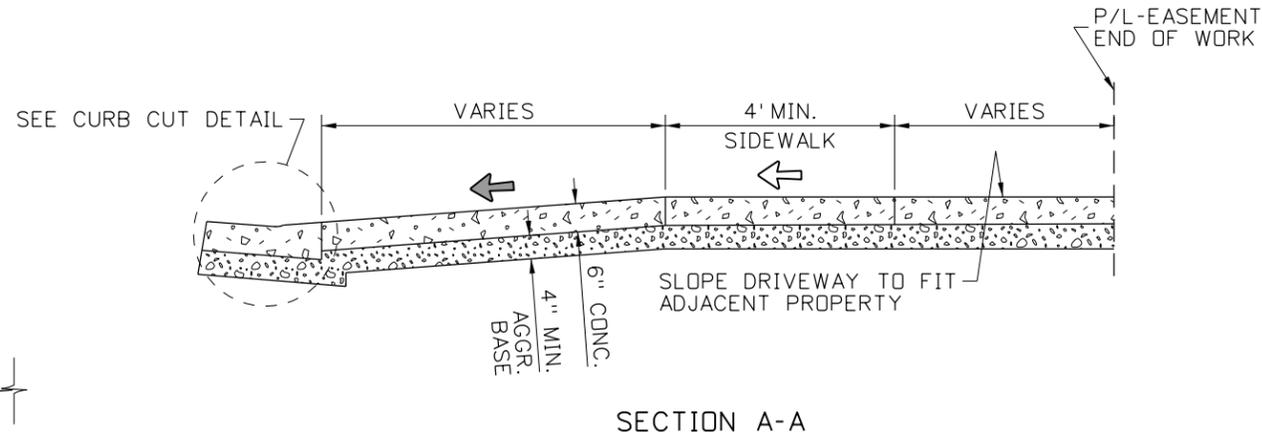
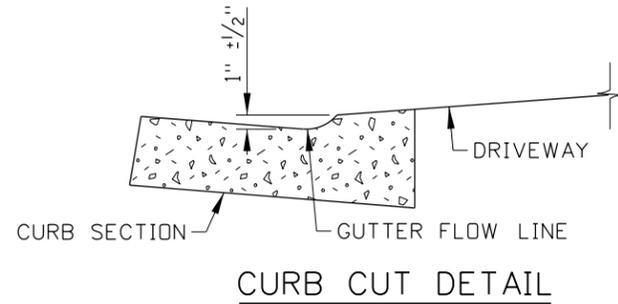
STANDARD DRAWING  
**DRIVEWAYS**

**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

STANDARD DRAWING

**DRIVEWAYS**

ORIGINAL SIGNED BY: KEVIN SABLAN  
DESIGN/TRAFFIC SERVICES ENGINEER

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

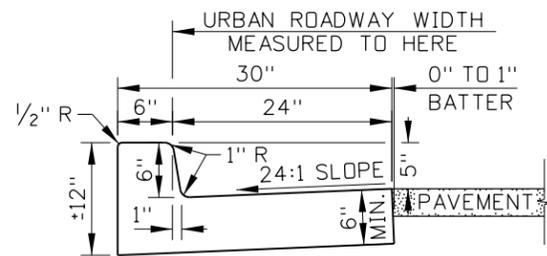
**English**

STANDARD DRAWING NO. **614-2**

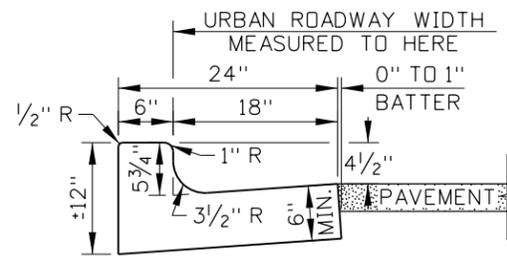
SHEET 2 OF 2



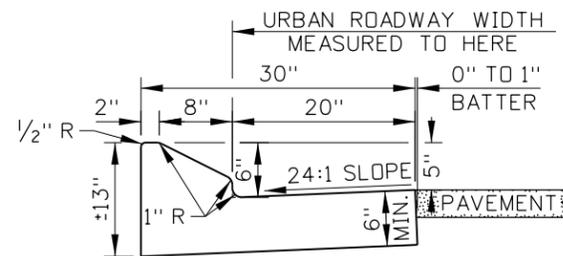
PROFESSIONAL ENGINEER  
LICENSED  
13683  
RYAN D. LANCASTER  
STATE OF IDAHO



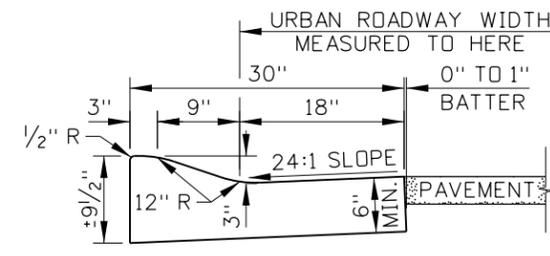
CURB AND GUTTER TYPE 1



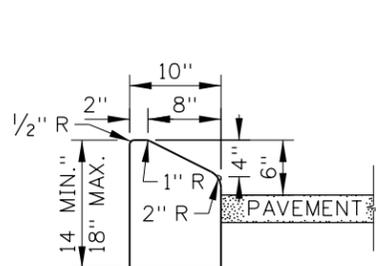
CURB AND GUTTER TYPE 2  
(SEE NOTE NO. 4)



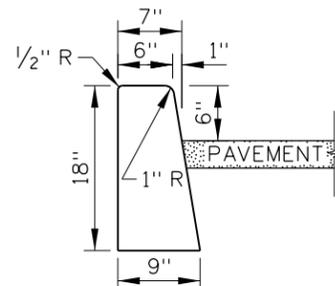
CURB AND GUTTER TYPE 3



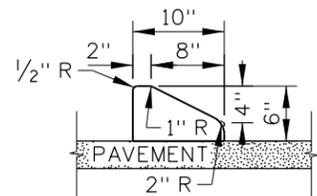
CURB AND GUTTER TYPE 4



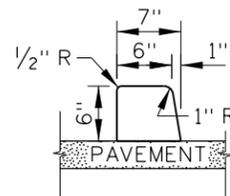
CURB TYPE 1



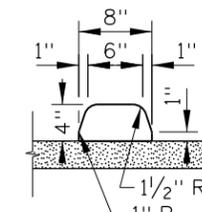
CURB TYPE 2



CURB TYPE 3  
(SEE NOTE NO. 3)



CURB TYPE 4  
(SEE NOTE NO. 3)



CURB TYPE 5  
(SEE NOTE NO. 3)

NOTES

1. TRANSITION BETWEEN DIFFERENT TYPES OVER 10 FEET.
2. PROVIDE 4 INCHES OF AGGREGATE BASE UNDER CURB AND GUTTER, CURB, OR GUTTER UNLESS THE CURB IS PLACED ON PAVEMENT.
3. 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.

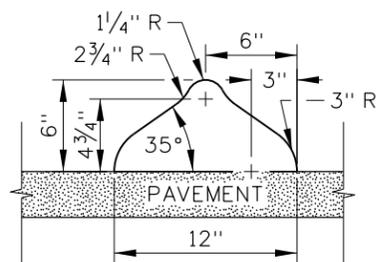
ASPHALT CONCRETE CURB OR TRAFFIC SEPARATOR ON ASPHALT CONCRETE PAVEMENT:

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

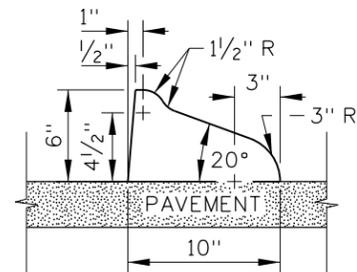
4. ENSURE THAT THE GUTTER SLOPE DOES NOT EXCEED 5 PERCENT AT CURB RAMPS.

5. 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.

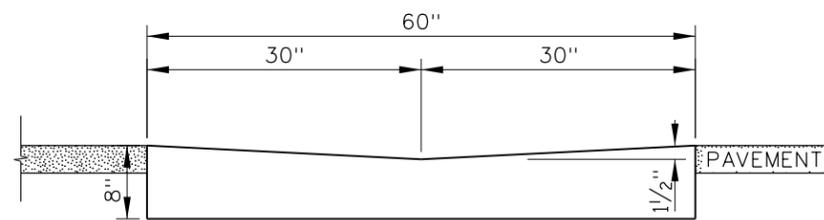
6. DRAWING NOT TO SCALE.



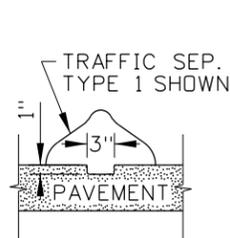
TRAFFIC SEPARATOR TYPE 1  
(SEE NOTE NO. 3)



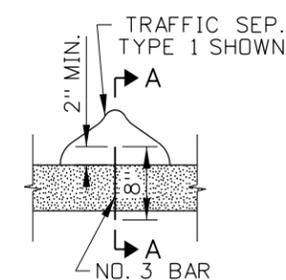
TRAFFIC SEPARATOR TYPE 2  
(SEE NOTE NO. 3)



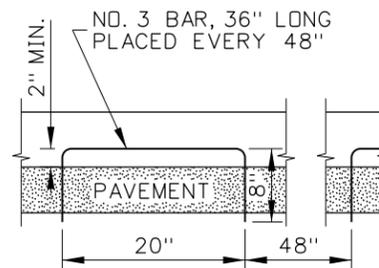
GUTTER TYPE 1



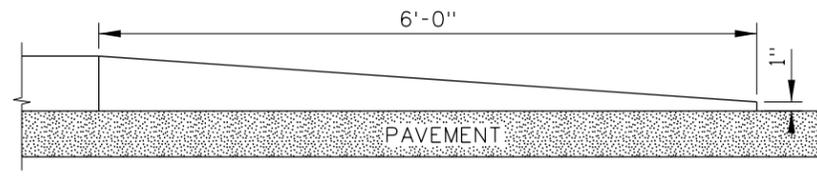
KEY DETAIL  
(SEE NOTE NO. 3)



PIN DETAIL  
(SEE NOTE NO. 3)

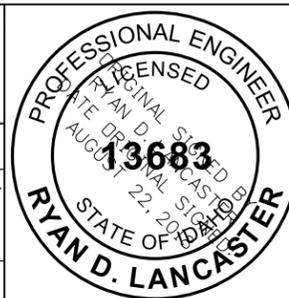


SECTION A-A



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	BY
1	02-76		6	12-04	MSM	11	07-18	RDL
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