

**CONTRACTOR'S SUBMITTAL TRANSMITTAL**

LANTDIV NORFOLK 4-4355/3 (Rev. 11-80)

CONTRACT NO. 17-0-17-6 TRANSMITTAL NO. DATE 1984

FROM CONTRACTOR  
 TO

PROJECT TITLE AND LOCATION  
 Public Works  
 MCP  
 Cent. ...

*Lt Richards*  
*Fadmt*  
*40/511*  
*11/02*

**CONTRACTOR USE ONLY**

**REVIEWER USE ONLY**

\*List only one specification division per form.

\*\*ACTION CODES

List only one of the following categories on each transmittal form, and indicate which is being submitted

- A-Approved
- D-Disapproved
- AN-Approved as noted
- RA-Receipt acknowledged.
- C-Comments
- R-Resubmit

Contractor Approved

OICC Approval

Deviation/Substitution For OICC Approval

ITEM NO.	PROJ. SPEC. SECT. & PARA. and/or PROJ. DWG. NO.	ITEM IDENTIFICATION (Type, size, model no., Mfg. name, dwg. or brochure number)	NO. OF COPIES	ACTION CODES **	REVIEWER'S INITIALS CODE AND DATE
	1500T-6	Service Entrance Cable THW-500 CMW	7	AN	JDY 404 1/8/85

**CONTRACTOR'S COMMENTS**

Request that THW (500 CMW) cable be used rather than type USE. Cable is in conduit encased in concrete.

**COPY TO: FIELD**

**DATE: 2-20-85**

**COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC**

**CONTRACTOR REPRESENTATIVE (Signature)**

**DATE RECEIVED BY REVIEWER**

**FROM (Reviewer)**

**TO**

12/3/84

LANTDIV

ROICC / TRADER

Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contract requirements unless the contractor calls attention to and supports the deviation.

Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE ONLY Section and in comments below on ONE COPY of the transmittal form.

**REVIEWER'S COMMENTS**

DEVIATION APPROVED SUBJECT TO ACCEPTABLE CREDIT TO GOV'T FOR SUBSTITUTION OF ELECTRICAL CABLE. FORWARD CREDIT PROPOSAL TO ROICC JAX. ROICC JAX WILL ISSUE NOTICE TO PROCEED/FINAL APPROVAL.

COPIES TO  
 ROICC (2)  
 LANTDIV (1)  
 A-E (1)

**DATE**

**SIGNATURE**

1/10/85

J. J. Hast



# STABILOY Type THW

ALCAN STABILOY® 600V THW (UL)

DISAPPROVED

LANTDIV REVIEWER  
DATE

**DESCRIPTION:** Alcan Type THW building wire is designed for general purpose wiring in residential, commercial and industrial buildings. It meets the requirements of Underwriters Laboratories Inc. Standard # 88 for Type THW with a maximum operating temperature of 75°C in wet or dry locations. Rated at 600 Volts, the cable is approved for use in accordance with the recommendations of the National Electrical Code. Alcan Type THW meets the requirements of Federal Specification JC-30A.

**CONDUCTOR:** STABILOY compact stranded

**INSULATION:** Black polyvinyl chloride (PVC)

**MARKING:** Cables will bear the following surface marking: Alcan (Plant) (Size) Compact AL STABILOY® 600 Volt THW (UL).

APPROVED  
SUBJECT TO THE REQUIREMENTS OF CONTRACT NO. 05-81-1766  
APPROVAL OF ANY DEVIATION FROM THE CONTRACT CALLS ATTENTION TO AND SUPPORTS THE RESPONSIBILITY OF THE CONTRACTOR TO BE RESPONSIBLE FOR PROVIDING PROPER PHYSICAL DIMENSIONS & WEIGHTS. COORDINATION OF TRADES, ETC., AS REQUIRED.  
DATE 10 DEC 1984

DEVIATION: APPROVED  
DISAPPROVED

Size AWG or MCM	Number of Strands	Insulation Thickness (mils)	Nominal THW Diameter (inches)	Nominal Conductor Diameter (inches)	Nominal Weight (lbs/1000')	Total Length	Standard Package
4	7	60	289	169	25	1000'	NRC 16 15
2	7	60	333	213	39	1000'	NRC 16 15
1	19	60	388	268	62	1000'	NRC 21 15
1/0	19	80	459	299	79	1000'	NRC 21 15
2/0	19	80	496	336	99	1000'	NRC 21 18
3/0	19	80	536	376	125	1000'	NRC 24 15
4/0	19	80	583	423	157	1000'	NRC 24 18
250	37	95	635	475	199	1000'	NRC 27 18
300	37	95	733	520	235	1000'	NRC 30 18
350	37	95	783	570	282	1000'	NRC 30.24
400	37	95	830	616	329	1000'	NRC 30.24
500	37	95	873	659	376	1000'	NRC 30.24
600	61	110	952	736	469	1000'	NRC 32.24
700	61	110	1063	813	563	1000'	NRC 40 24
750	61	110	1127	877	657	1000'	NRC 40 24
1000	61	110	1159	908	704	1000'	NRC 42 26
			1312	1060	839	1000'	NRC 48 28

**NOTES:**

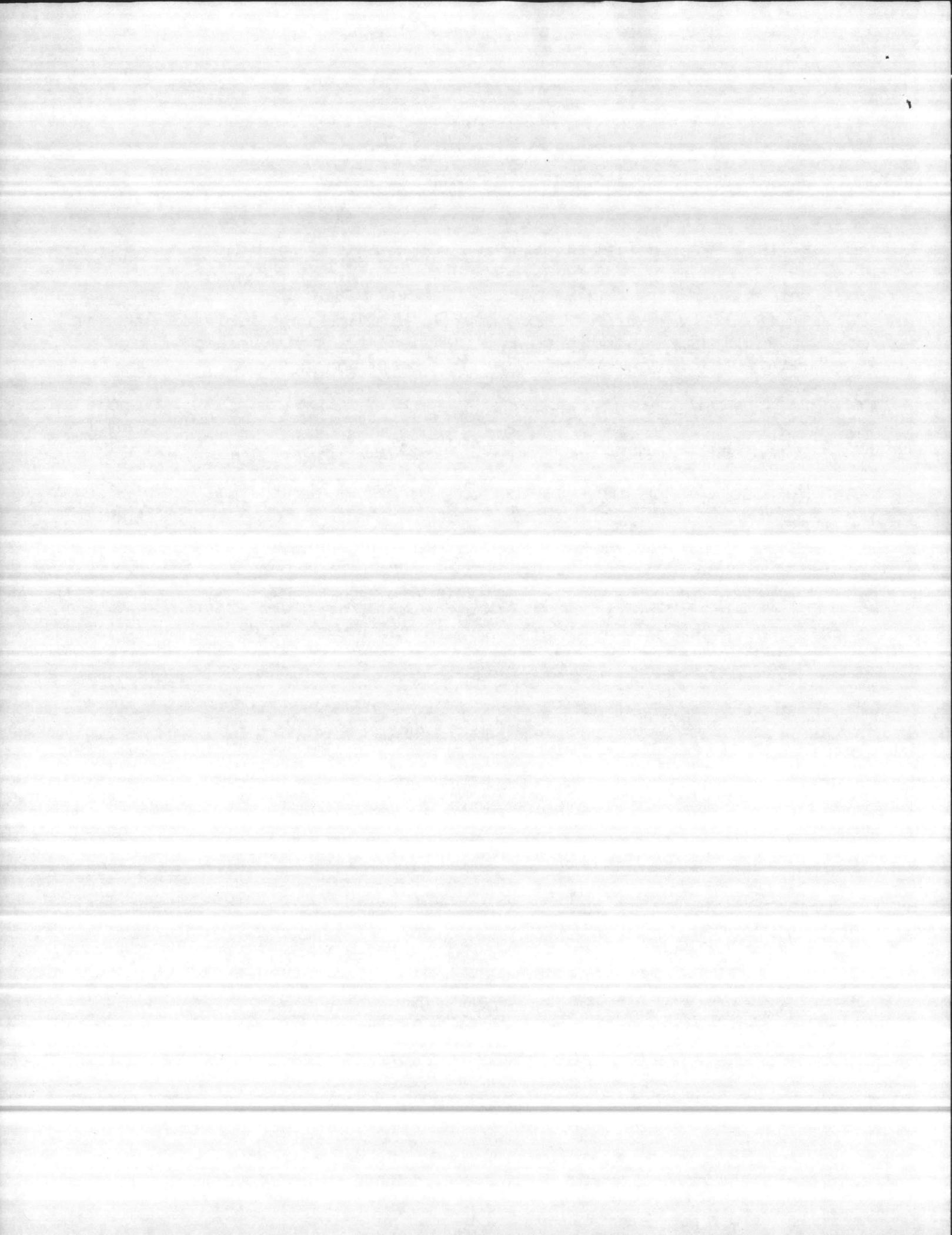
- 1 Colored insulation is available upon special inquiry
- 2 Two, three or four conductors can be paralleled on a reel
- 3 Standard lengths are subject to normal manufacturing tolerances
- 4 Data are approximate and subject to normal manufacturing tolerances
- 5 STABILOY® is a registered trademark of Alcan Aluminum Corporation

It is hereby certified that the equipment (material) shown and marked in this submittal is that proposed to be incorporated into

Contract Number N62470-81-0-1766, as in compliance with the Contract drawings and specifications, can be installed in the allocated spaces, and is submitted Government approval.

Certified by DG

Date 11-06-84



ALCAN ALUMINUM CORPORATION

Alcan Cable is a division of Alcan Aluminum Corporation. Founded as Central Cable Corporation in 1939, Alcan Cable was acquired by Alcan and renamed in 1964. As one of the five operating divisions of Alcan Aluminum Corporation, Alcan Cable is an important member of the international Alcan Group of more than 90 companies worldwide.

Alcan Aluminum Corporation employs almost 5,000 people and is the fourth largest aluminum fabricator in the United States. Alcan Cable Division employs approximately 575 people in four manufacturing plants, two sales offices and the Headquarters Office. Additionally, Alcan Cable Manufacturer's Representatives operate twenty strategically located sales offices with warehouses plus eight additional sales service facilities.

Alcan Cable's headquarters is located in Atlanta, Georgia, with cable manufacturing plants in Tucker, Georgia; Williamsport, Pennsylvania; Sedalia, Missouri; and Bay St. Louis, Mississippi.

The plant in Tucker, Georgia concentrates production in high-voltage, long distance transmission cable (ACSR, all-aluminum and self-damping conductors).

Williamsport houses the Alcan Cable rolling mill where wire bar is rolled into redraw rod for wire production at the other plants. Williamsport also produces bare overhead products, polyethylene and cross-linked polyethylene covered service drop cables and 600 Volt cross-linked polyethylene insulated underground cable.

The Sedalia plant concentrates production in aluminum building wire products and aluminum service entrance cables. Our STABILOY building wire is fabricated here.

Bay St. Louis is the home of the Alcan facility dedicated to the production of 600 Volt cross-linked polyethylene underground distribution cable.

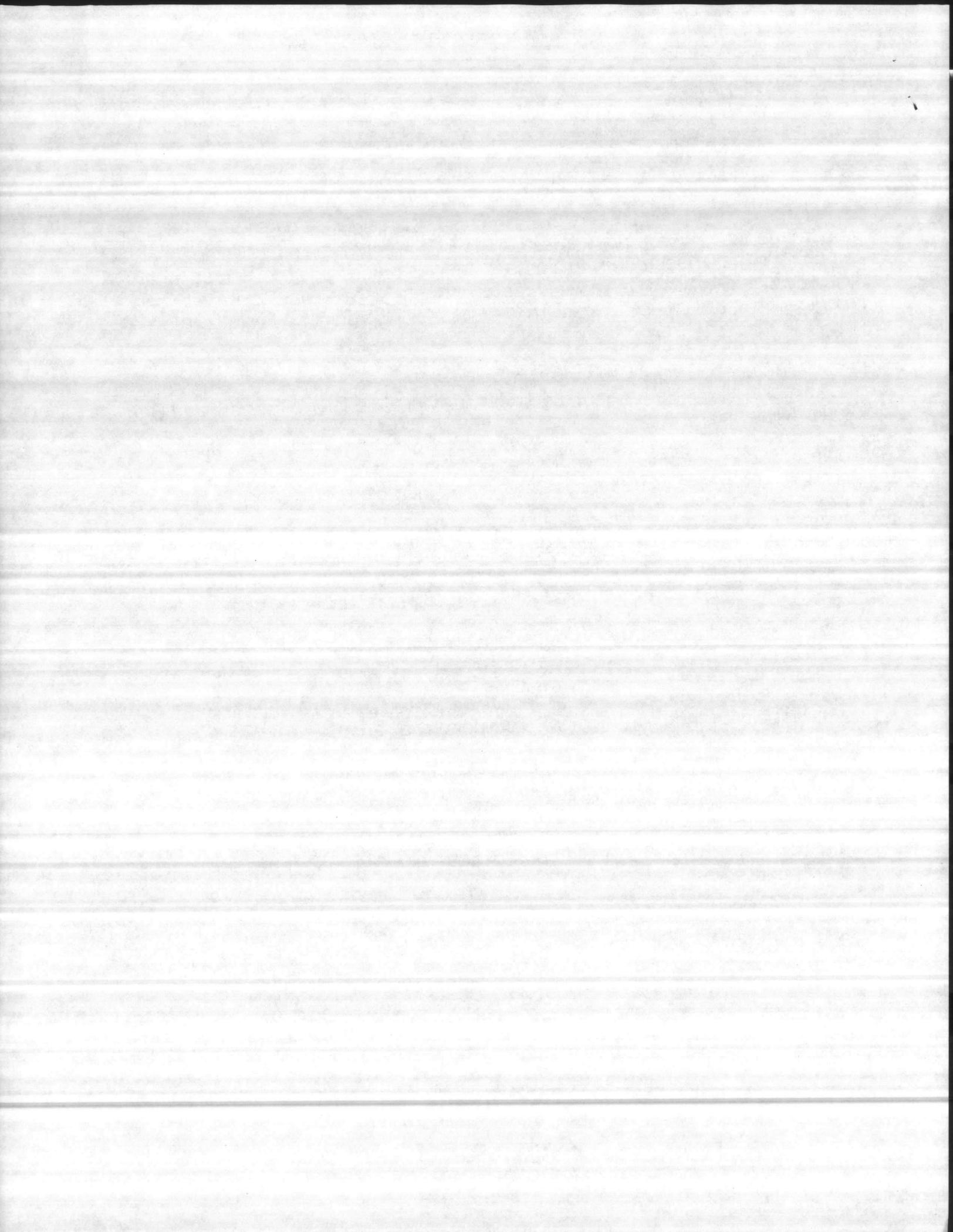
ALCAN CABLE is backed by the research, development and manufacturing facilities of Alcan Aluminium Limited. We're proud of our long history of providing new and innovative products to the many customers we serve. We're always at work, improving our products and preparing our company to satisfy the needs of our customers and the aluminum industry both today and as we move into the twenty-first century.

"It is hereby certified that the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into Contract Number NS2470 81-C-1466s in compliance with the Contract drawings and specifications, can be installed in the allocated spaces, and is submitted Government approval.

Certified by DS

2-94





Larry Farina

1.3.3.2 Workmen's Competency: Submit cable splicer's certificate of competency.

PART 2 - PRODUCTS

2.1 MATERIALS AND EQUIPMENT: Provide materials and equipment listed by UL or approved by Factory Mutual (FM) System, when such equipment is listed or approved.

2.1.1. Conduit: Conduit shall be rigid hot-dipped galvanized steel or plastic conforming to the following:

2.1.1.1 Rigid galvanized steel conduit and fittings shall conform to the requirements of UL 6 for threaded type.

→ 2.1.1.2 Plastic duct for concrete encased burial shall be PVC and shall conform to NEMA TC6, Type EB and NEMA TC8, Type DB. Fittings shall conform to NEMA TC9.

2.1.1.3 Outlet boxes for use with steel conduit, rigid or flexible shall be cast-metal cadmium or zinc-coated if of ferrous metal with gasketed closures and shall conform to UL 514.

2.1.2 Tape: Plastic insulating tape shall conform to the requirements of UL 510.

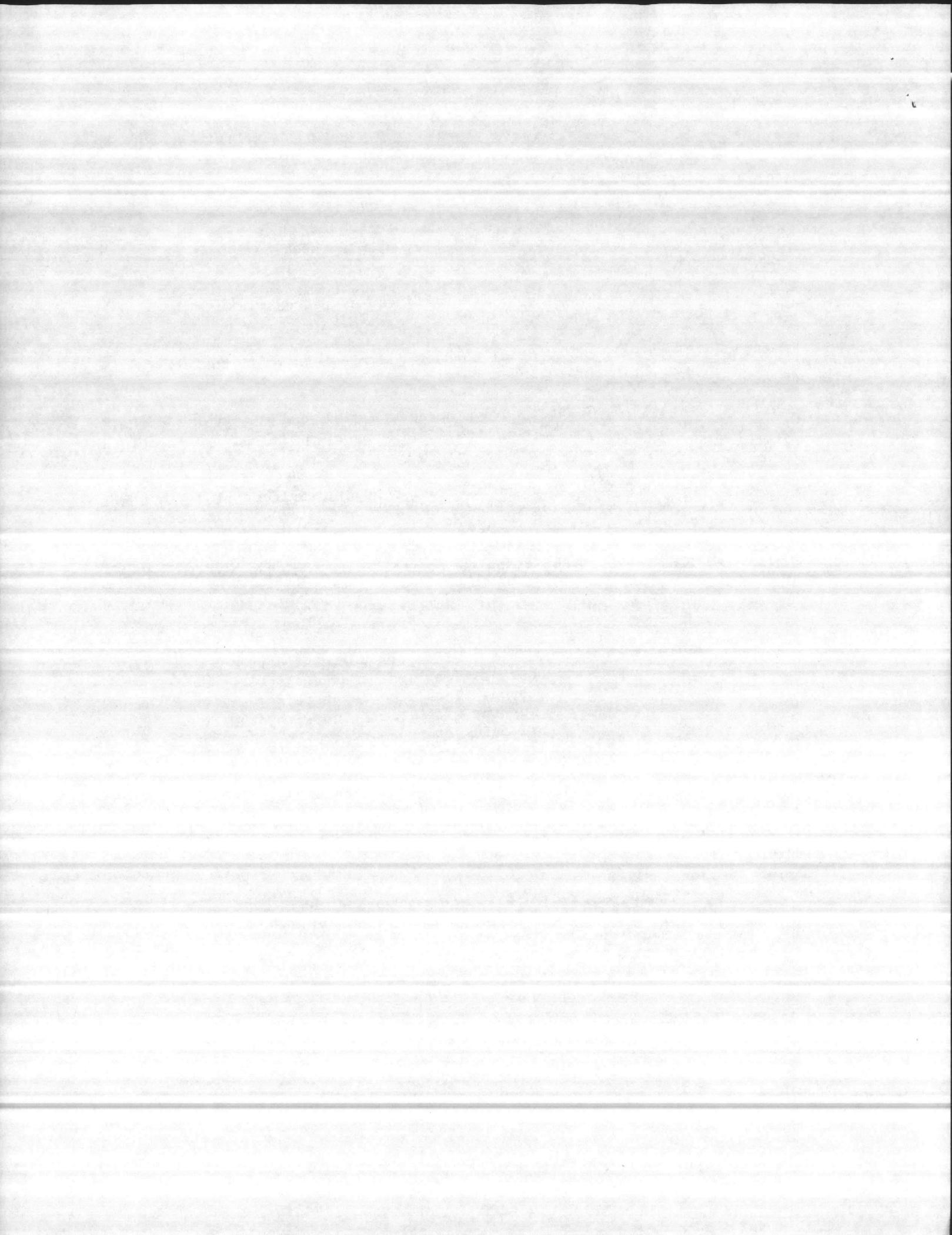
2.1.3 Wire and Cable:

2.1.3.1. Wire and Cable conductor sizes are designated by American Wire Gauge (AWG). Conductor and conduit sizes indicated are for copper conductors, unless otherwise noted. Insulated conductors shall bear the date of manufacture imprinted on the wire insulation with other identification. Wire and cable manufactured more than 6 months before delivery to the job site shall not be used.

→ 2.1.3.2 Conductors rated 600 volts and less, including service entrances, shall conform to UL 854. Type USE. Conductors shall be copper. Conductor size and number of conductors in each cable shall be as indicated. Cable shall be color coded. Conductor identification shall be provided within each enclosure where a tap, splice or termination is made. Conductor identification shall be by color coded insulated conductors, plastic coated self sticking printed markers, colored nylon cable ties and plates or heat shrink type sleeves. Control circuit terminations shall be properly identified. Aluminum or copper-clad aluminum conductors may be substituted for copper conductors No. 4 AWG and larger.

SYBSTITUTE

TAW



Public Works  
N62470-81-C-1766

Reasons for Deviation

1. Wire incorrectly shipped to job and installed.
2. Wire is suitable for wet location.
3. No Change in contract time.
4. Contractor proposes to reduce contract price to reflect difference in cost of USE Cable and THW cable per standard change order procedures

