



## RETURN BIDS TO:

## RETOURNER LES SOUMISSIONS À:

Bid Receiving Public Works and Government  
Services Canada/Réception des soumissions Travaux  
publics et Services gouvernementaux Canada  
800 Burrard Street, Room 219  
800, rue Burrard, pièce 219  
Vancouver  
British Columbia  
V6Z 0B9  
Bid Fax: (604) 775-9381

## SOLICITATION AMENDMENT MODIFICATION DE L'INVITATION

The referenced document is hereby revised; unless otherwise  
indicated, all other terms and conditions of the Solicitation  
remain the same.

Ce document est par la présente révisé; sauf indication contraire,  
les modalités de l'invitation demeurent les mêmes.

### Comments - Commentaires

Vendor/Firm Name and Address  
Raison sociale et adresse du  
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution  
Public Works and Government Services Canada - Pacific  
Region  
800 Burrard Street, Room 219  
800, rue Burrard, pièce 219  
Vancouver  
British C  
V6Z 0B9

<b>Title - Sujet</b> IOS Guardhouse	
<b>Solicitation No. - N° de l'invitation</b> F1700-204430/A	<b>Amendment No. - N° modif.</b> 001
<b>Client Reference No. - N° de référence du client</b> F1700-204430	<b>Date</b> 2020-07-14
<b>GETS Reference No. - N° de référence de SEAG</b> PW-SPWY-041-8790	
<b>File No. - N° de dossier</b> PWY-0-43025 (041)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2020-07-24</b>	
<b>Time Zone</b> <b>Fuseau horaire</b> Pacific Daylight Saving Time PDT	
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Sezginalp (PWY), Kipp	<b>Buyer Id - Id de l'acheteur</b> pwy041
<b>Telephone No. - N° de téléphone</b> (604) 367-5341 ( )	<b>FAX No. - N° de FAX</b> (604) 775-6633
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DFO - Institute of Ocean Science - Sidney, BC	

Instructions: See Herein

Instructions: Voir aux présentes

<b>Delivery Required - Livraison exigée</b>	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
<b>Telephone No. - N° de téléphone</b> <b>Facsimile No. - N° de télécopieur</b>	
<b>Name and title of person authorized to sign on behalf of Vendor/Firm</b> <b>(type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/</b> <b>de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

Solicitation No. - N° de l'invitation  
F1700-204430

Amd. No. - N° de la modif.  
001

Buyer ID - Id de l'acheteur  
pwy041

Client Ref. No. - N° de réf. du client

File No. - N° du dossier

CCC No./N° CCC - FMS No./N° VME

**Les documents français seront disponibles sur demande.**

Solicitation Amendment 001 is raised to issue Addendum 001.

1. Please find Addendum 001 herein.

All other terms and conditions remain unchanged.

*The following Addendum supersedes information contained in drawings and Specifications issued for the project to the extent referenced. The following changes in the tender documents are effective immediately. This Addendum will form part of the contract documents.*

**1.0 DRAWINGS:**

- 1.1 Electrical drawings- replace all with the attached versions (9 sheets)
- 1.2 Electrical drawing revisions (as clouded)
  - E001 (Rev 2) – Title Page, Symbol Legend and Drawing Index:
    - Update** Drawing Index Revisions
  - E002 (Rev 1) – Site Plan:
    - Delete** bond conductor from communications conduit
    - Add** keynote to clarify work done by others
  - E100 (Rev 2) – Guardhouse Area Plan:
    - Delete** bond conductor from communications conduit
    - Adjust** routing of conduits and junction boxes
  - E110 (Rev 1) – Guardhouse Power & Low Tension (Proposed)
    - Delete** bond conductor from communications conduit
    - Delete** Bix blocks from Data Room
    - Revise** keynotes for conduit sleeves to indicate size
    - Revise** notes for data drop requirements to clarify scope
    - Add** plywood backboard to all walls of Shared Services room
    - Add** two data drops at Security Desk for camera joysticks
    - Add** note to clarify communications conduit bend requirements
  - E111 (Rev 1) – Guardhouse Lighting (Proposed)
    - Revise** callout to indicate size of conduit sleeve
  - E120 (Rev 1) – Workshop Upper Level
    - Delete** bond conductor from communications conduit
    - Delete** conduit, fibre and bond conductor between Electrical Room (5205) and Equipment Room and Storage (5226)
    - Delete** fibre patch panel in Equipment Room and Storage (5226)
    - Revise** building conduit exit callout to indicate that the conduit shall tie into existing, capped-off conduit.
    - Add** callout for bonding conductor in Electrical room
  - E500 (Rev 1) – Details and Elevations
    - Delete** building conduit exit elevation
    - Revise** SSC Data rack scope and requirements
  - E501 (Rev 1) – Details (1 of 2)
    - Revise** Type 10 Junction Box Installation Detail
  - E515 (Rev 2) – (Details (2 of 2))
    - Add** keynotes to clarify ground bus bar, grounding conductor, and termination requirements.

---

**2.0 SPECIFICATIONS:**

2.1 Section 27 05 26 – Grounding and Bonding for Communications Systems

**Replace** article 1.2.1.1 with:






























































ANSI/TIA-607-D, Generic Telecommunications Bonding and Grounding (Earthing) for Customer Premises.

**3.0 BIDDER QUESTIONS:**

n/a

**End of Addendum 01**

# INSTITUTE OF OCEAN SCIENCES NEW GUARDHOUSE

SYMBOL LEGEND					
POWER		LIGHTING		SECURITY / LOW TENSION	
	DUPLEX RECEPTACLE (5-15R TYPE UNLESS INDICATED OTHERWISE)		SINGLE POLE SWITCH		AUDIBLE ALARM
	DUPLEX RECEPTACLE (5-20R)		LOW VOLTAGE SWITCH - SINGLE		PTZ CAMERA
	ISOLATED GROUND DUPLEX RECEPTACLE		LINE VOLTAGE OCCUPANCY SENSOR SWITCH		CARD READER
	SPLIT RECEPTACLE		OCCUPANCY SENSOR - WALL AND CEILING D: INDICATES WITH DAYLIGHT SENSOR		CARD READER KEYPAD COMBINATION
	SINGLE RECEPTACLE		DOWNLIGHT FIXTURE		SECURITY KEYPAD (OR KEYPAD TYPE AS INDICATED)
	QUAD RECEPTACLE		2X2 FIXTURE		KEYSWITCH OVERRIDE
	SPECIAL RECEPTACLE - TYPE AS INDICATED		2FT STRIP		REQUEST TO EXIT PUSH BUTTON
	FLOOR RECEPTACLE (DUPLEX)		4FT STRIP		REQUEST TO EXIT SENSOR
	CEILING RECEPTACLE (DUPLEX)		2FT WALL FIXTURE		PANIC BUTTON
COMMUNICATIONS					
	FLOOR RECEPTACLE (QUAD)		WALL STRUCTURED WIRING OUTLET - #: NUMBER OF DROPS		BUZZER AND KEYSWITCH
	CEILING RECEPTACLE (QUAD)		FLOOR STRUCTURED WIRING OUTLET - #: NUMBER OF DROPS		ELECTROMAGNETIC LOCK
	ISOLATED GROUND FLOOR RECEPTACLE		CEILING STRUCTURED WIRING OUTLET - #: NUMBER OF DROPS		ELECTRIC STRIKE
	ISOLATED GROUND CEILING RECEPTACLE		WALL TELEPHONE OUTLET - #: NUMBER OF DROPS		DOOR POSITION SWITCH
	JUNCTION BOX (WALL, CEILING, IN GROUND)		WALL COAXIAL OUTLET - #: NUMBER OF DROPS		POWER SUPPLY
	MOTOR		WALL COAXIAL OUTLET - #: NUMBER OF DROPS		DOOR PUSH BUTTON
FIRE ALARM					
	PANEL - TYPE AS INDICATED		FLOOR COAXIAL OUTLET - #: NUMBER OF DROPS		FIRE ALARM NOTIFICATION APPLIANCE
	SURFACE MOUNTED PANEL - TYPE AS INDICATED		CEILING COAXIAL OUTLET - #: NUMBER OF DROPS		PULL STATION
	GROUND/BOND BUS BAR		FIBRE OPTIC OUTLET - #: NUMBER OF DROPS, SM: SINGLE MODEL, MM: MULTIMODE		FIRE ALARM ANNUNCIATOR
EQUIPMENT IDENTIFIERS					
	CONTROLLER CABINET				
	CONDUIT STUB		INDICATES DEVICE IS ABOVE COUNTER		
	CONDUIT UP		EQUIPMENT IDENTIFIER		
	CONDUIT DOWN		LUMINAIRE TYPE TAG		
	GROUND ROD COMPLETE WITH INSPECTION WELL		DIRECTIONAL LUMINAIRE INDICATOR		

LINE TYPE LEGEND	
LINE	DESCRIPTION
---	120/240V CONDUIT/CABLE
---	347/600V CONDUIT/CABLE
---	OVER 600V CONDUIT/CABLE
---	COMMUNICATIONS CONDUIT/CABLE
---	TECK CONDUIT/CABLE
---	IN SLAB CONDUIT/CABLE

#### ABBREVIATIONS:

CM - COMMUNICATIONS  
CMM - COMMUNICATIONS  
DPC - DIRECT DIGITAL CONTROL  
GFCI - GROUND-FAULT CIRCUIT INTERRUPTER  
MW - MICROWAVE  
SSC - SHARED SERVICES CANADA

#### NOTES LEGEND:

1. INDICATES THAT THE NOTE APPLIES TO THE ENTIRE DRAWING.  
1. INDICATES THAT THE NOTE IS REFERENCED TO A SPECIFIC LOCATION ON THE DRAWING.

DRAWING INDEX		
NO.	TITLE	REVISION
E001	TITLE PAGE, SYMBOL LEGEND AND DRAWING INDEX	2
E002	SITE PLAN	1
E003	SINGLE LINE DIAGRAM (PROPOSED)	0
E100	GUARDHOUSE AREA PLAN	2
E101	GUARDHOUSE LIGHTING PLAN (PROPOSED)	1
E110	GUARDHOUSE LIGHTING (PROPOSED)	1
E120	WORKSHOP UPPER LEVEL	1
E500	DETAILS AND ELEVATIONS	1
E515	DETAILS (1 OF 2)	2
E500	SCHEDULES	0

ISSUED FOR TENDER  
NOT FOR CONSTRUCTION



FISHERIES AND OCEANS CANADA  
REAL PROPERTY AND SAFETY AND SECURITY

INSTITUTE OF OCEAN SCIENCES NEW GUARDHOUSE 9860 WEST SAANICH ROAD SIDNEY, BC, V8L 5T5		SCALE AS NOTED
		START DATE
		DRAWING NUMBER E001
TITLE PAGE, SYMBOL LEGEND AND DRAWING INDEX		1 OF 11
		REVISION
		1

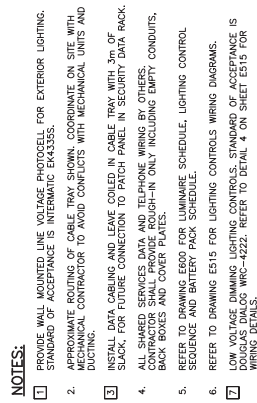
RATIO PBX ENGINEERING

--	--

			APPROVED
1	ISSUED FOR ADDENDUM NO. 01	2020-07-30	
0	ISSUED FOR TENDER	2020-04-28	







ALL EQUIPMENT IS PROPOSED  
UNLESS NOTED OTHERWISE

 <b>FISHERIES AND OCEANS CANADA</b> REAL PROPERTY AND SAFETY AND SECURITY	<b>INSTITUTE OF OCEAN SCIENCES</b> <b>NEW GUARDHOUSE</b> 9860 WEST SAANICH ROAD SIDNEY, BC, V8L 5T5		SCALE AS NOTED START DATE	DRAWING NUMBER <b>E111</b> 6 OF 11	REVISION 1
	<b>GUARDHOUSE LIGHTING</b> <b>(PROPOSED)</b>				

[illegible]

DWG. NO.	DRAWING REFERENCES	NOTES	NO.	DATE



1. ITEMS SHOWN IN LIGHT LINETYPE ARE EXISTING TO REMAIN. ITEMS SHOWN IN BOLD ARE TO BE PROVIDED NEW UNLESS OTHERWISE NOTED.
2. COORDINATE EXACT TRANSFORMER LOCATION WITH OWNER.
3. CONTRACTOR SHALL REVIEW FINAL PROPOSED CONDUIT ROUTING WITH OWNER AND OBTAIN APPROVAL PRIOR TO INSTALLATION.

ALL EQUIPMENT IS PROPOSED  
UNLESS NOTED OTHERWISE

**INSTITUTE OF OCEAN  
SCIENCES  
NEW GUARDHOUSE  
9860 WEST SAANICH ROAD  
SIDNEY, BC. V8L 5T5**

## WORKSHOP UPPER LEVEL

[illegible]

	DATE
	Q

	2

--	--

--	--

[illegible]

NOTES



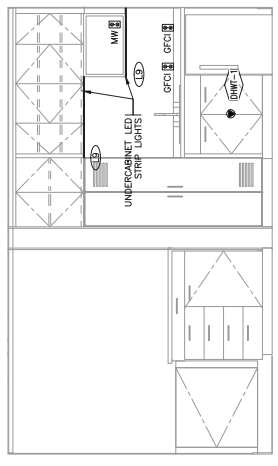
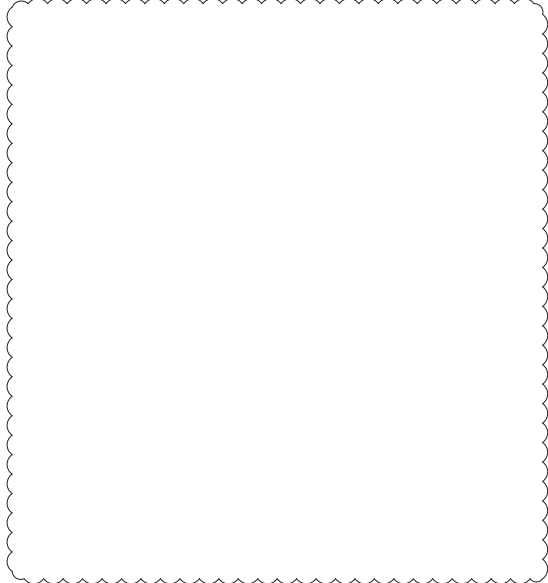
# ATIC

RAREFERENCES

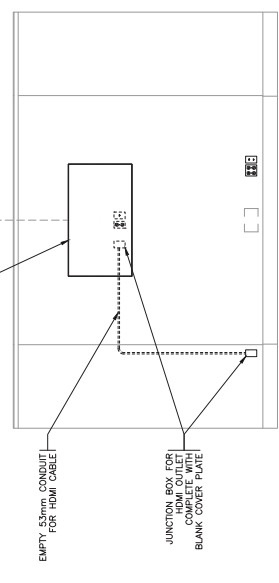
## REFERENCES

DRA

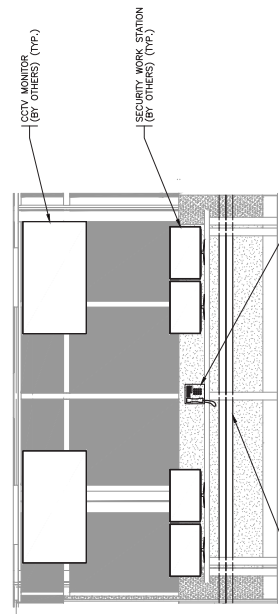
13506.105 Guard House\01 - Design\0	DWG. NO.
-------------------------------------	----------



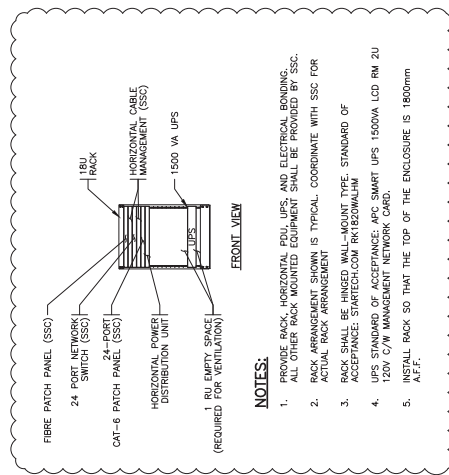
ELEVATION (B) KITCHENETTE ELEVATION  
E110  
1:25



ELEVATION (D) MEETING ROOM NORTH WALL  
E110  
1:25

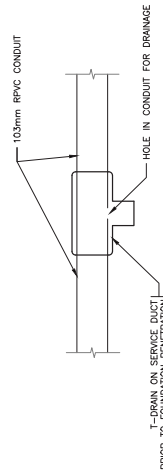


ELEVATION (E) SECURITY ROOM SOUTH WALL  
E110  
1:25



ELEVATION (C) SSC DATA RACK  
E110 GATE HOUSE  
N.T.S.


- NOTES:**
1. PROVIDE RACK, HORIZONTAL PDU UPS, AND ELECTRICAL BONDING.
  2. ALL OTHER RACK MOUNTED EQUIPMENT SHALL BE PROVIDED BY SSC.
  3. RACK ARRANGEMENT SHOWN IS TYPICAL COORDINATE WITH SSC FOR ACTUAL RACK ARRANGEMENT
  4. RACK SHALL BE HINGED WALL-MOUNT TYPE, STANDARD OF ACCEPTANCE: STARTECH.COM RK1820WAL-H
  5. UPS STANDARD OF ACCEPTANCE: APC SMART UPS 1500VA LCD RM 2U 120V C/W MANAGEMENT NETWORK CARD.
  6. INSTALL RACK SO THAT THE TOP OF THE ENCLOSURE IS 1800mm A.F.F.



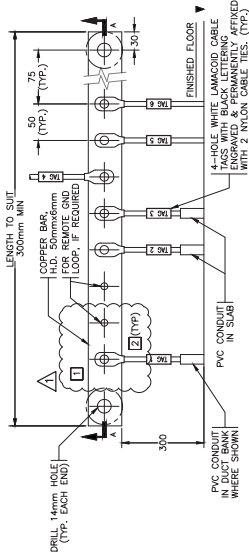
TYP. DETAIL (1) CONDUIT DRAIN  
N.T.S.

ISSUED FOR TENDER  
NOT FOR CONSTRUCTION

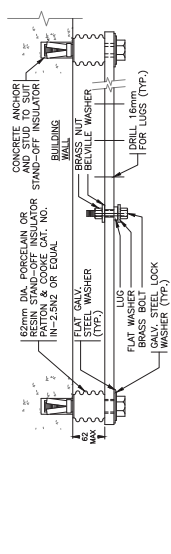
ALL EQUIPMENT IS PROPOSED  
UNLESS NOTED OTHERWISE

<div> <b>FISHERIES AND OCEANS CANADA</b> REAL PROPERTY AND SAFETY AND SECURITY</div>										<div><b>INSTITUTE OF OCEAN SCIENCES</b> <b>NEW GUARDHOUSE</b> 9860 WEST SAANICH ROAD SIDNEY, BC, V8L 5T5</div>										<div>SCALE AS NOTED START DATE DRAWING NUMBER <b>E500</b> 8 OF 11</div>										<div>REVISION 1</div>																																																																																																																																																															
																				<div><b>DETAILS AND ELEVATIONS</b></div>																																																																																																																																																																									
<div><div>PK</div><div>REV</div><div>ABS</div><div>DC</div></div>										<div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div><div>13</div><div>14</div><div>15</div><div>16</div><div>17</div><div>18</div><div>19</div><div>20</div><div>21</div><div>22</div><div>23</div><div>24</div><div>25</div><div>26</div><div>27</div><div>28</div><div>29</div><div>30</div><div>31</div><div>32</div><div>33</div><div>34</div><div>35</div><div>36</div><div>37</div><div>38</div><div>39</div><div>40</div><div>41</div><div>42</div><div>43</div><div>44</div><div>45</div><div>46</div><div>47</div><div>48</div><div>49</div><div>50</div><div>51</div><div>52</div><div>53</div><div>54</div><div>55</div><div>56</div><div>57</div><div>58</div><div>59</div><div>60</div><div>61</div><div>62</div><div>63</div><div>64</div><div>65</div><div>66</div><div>67</div><div>68</div><div>69</div><div>70</div><div>71</div><div>72</div><div>73</div><div>74</div><div>75</div><div>76</div><div>77</div><div>78</div><div>79</div><div>80</div><div>81</div><div>82</div><div>83</div><div>84</div><div>85</div><div>86</div><div>87</div><div>88</div><div>89</div><div>90</div><div>91</div><div>92</div><div>93</div><div>94</div><div>95</div><div>96</div><div>97</div><div>98</div><div>99</div><div>100</div></div>										<div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div><div>13</div><div>14</div><div>15</div><div>16</div><div>17</div><div>18</div><div>19</div><div>20</div><div>21</div><div>22</div><div>23</div><div>24</div><div>25</div><div>26</div><div>27</div><div>28</div><div>29</div><div>30</div><div>31</div><div>32</div><div>33</div><div>34</div><div>35</div><div>36</div><div>37</div><div>38</div><div>39</div><div>40</div><div>41</div><div>42</div><div>43</div><div>44</div><div>45</div><div>46</div><div>47</div><div>48</div><div>49</div><div>50</div><div>51</div><div>52</div><div>53</div><div>54</div><div>55</div><div>56</div><div>57</div><div>58</div><div>59</div><div>60</div><div>61</div><div>62</div><div>63</div><div>64</div><div>65</div><div>66</div><div>67</div><div>68</div><div>69</div><div>70</div><div>71</div><div>72</div><div>73</div><div>74</div><div>75</div><div>76</div><div>77</div><div>78</div><div>79</div><div>80</div><div>81</div><div>82</div><div>83</div><div>84</div><div>85</div><div>86</div><div>87</div><div>88</div><div>89</div><div>90</div><div>91</div><div>92</div><div>93</div><div>94</div><div>95</div><div>96</div><div>97</div><div>98</div><div>99</div><div>100</div></div>										<div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div><div>13</div><div>14</div><div>15</div><div>16</div><div>17</div><div>18</div><div>19</div><div>20</div><div>21</div><div>22</div><div>23</div><div>24</div><div>25</div><div>26</div><div>27</div><div>28</div><div>29</div><div>30</div><div>31</div><div>32</div><div>33</div><div>34</div><div>35</div><div>36</div><div>37</div><div>38</div><div>39</div><div>40</div><div>41</div><div>42</div><div>43</div><div>44</div><div>45</div><div>46</div><div>47</div><div>48</div><div>49</div><div>50</div><div>51</div><div>52</div><div>53</div><div>54</div><div>55</div><div>56</div><div>57</div><div>58</div><div>59</div><div>60</div><div>61</div><div>62</div><div>63</div><div>64</div><div>65</div><div>66</div><div>67</div><div>68</div><div>69</div><div>70</div><div>71</div><div>72</div><div>73</div><div>74</div><div>75</div><div>76</div><div>77</div><div>78</div><div>79</div><div>80</div><div>81</div><div>82</div><div>83</div><div>84</div><div>85</div><div>86</div><div>87</div><div>88</div><div>89</div><div>90</div><div>91</div><div>92</div><div>93</div><div>94</div><div>95</div><div>96</div><div>97</div><div>98</div><div>99</div><div>100</div></div>										<div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div><div>13</div><div>14</div><div>15</div><div>16</div><div>17</div><div>18</div><div>19</div><div>20</div><div>21</div><div>22</div><div>23</div><div>24</div><div>25</div><div>26</div><div>27</div><div>28</div><div>29</div><div>30</div><div>31</div><div>32</div><div>33</div><div>34</div><div>35</div><div>36</div><div>37</div><div>38</div><div>39</div><div>40</div><div>41</div><div>42</div><div>43</div><div>44</div><div>45</div><div>46</div><div>47</div><div>48</div><div>49</div><div>50</div><div>51</div><div>52</div><div>53</div><div>54</div><div>55</div><div>56</div><div>57</div><div>58</div><div>59</div><div>60</div><div>61</div><div>62</div><div>63</div><div>64</div><div>65</div><div>66</div><div>67</div><div>68</div><div>69</div><div>70</div><div>71</div><div>72</div><div>73</div><div>74</div><div>75</div><div>76</div><div>77</div><div>78</div><div>79</div><div>80</div><div>81</div><div>82</div><div>83</div><div>84</div><div>85</div><div>86</div><div>87</div><div>88</div><div>89</div><div>90</div><div>91</div><div>92</div><div>93</div><div>94</div><div>95</div><div>96</div><div>97</div><div>98</div><div>99</div><div>100</div></div>										<div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div><div>13</div><div>14</div><div>15</div><div>16</div><div>17</div><div>18</div><div>19</div><div>20</div><div>21</div><div>22</div><div>23</div><div>24</div><div>25</div><div>26</div><div>27</div><div>28</div><div>29</div><div>30</div><div>31</div><div>32</div><div>33</div><div>34</div><div>35</div><div>36</div><div>37</div><div>38</div><div>39</div><div>40</div><div>41</div><div>42</div><div>43</div><div>44</div><div>45</div><div>46</div><div>47</div><div>48</div><div>49</div><div>50</div><div>51</div><div>52</div><div>53</div><div>54</div><div>55</div><div>56</div><div>57</div><div>58</div><div>59</div><div>60</div><div>61</div><div>62</div><div>63</div><div>64</div><div>65</div><div>66</div><div>67</div><div>68</div><div>69</div><div>70</div><div>71</div><div>72</div><div>73</div><div>74</div><div>75</div><div>76</div><div>77</div><div>78</div><div>79</div><div>80</div><div>81</div><div>82</div><div>83</div><div>84</div><div>85</div><div>86</div><div>87</div><div>88</div><div>89</div><div>90</div><div>91</div><div>92</div><div>93</div><div>94</div><div>95</div><div>96</div><div>97</div><div>98</div><div>99</div><div>100</div></div>										<div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div><div>13</div><div>14</div><div>15</div><div>16</div><div>17</div><div>18</div><div>19</div><div>20</div><div>21</div><div>22</div><div>23</div><div>24</div><div>25</div><div>26</div><div>27</div><div>28</div><div>29</div><div>30</div><div>31</div><div>32</div><div>33</div><div>34</div><div>35</div><div>36</div><div>37</div><div>38</div><div>39</div><div>40</div><div>41</div><div>42</div><div>43</div><div>44</div><div>45</div><div>46</div><div>47</div><div>48</div><div>49</div><div>50</div><div>51</div><div>52</div><div>53</div><div>54</div><div>55</div><div>56</div><div>57</div><div>58</div><div>59</div><div>60</div><div>61</div><div>62</div><div>63</div><div>64</div><div>65</div><div>66</div><div>67</div><div>68</div><div>69</div><div>70</div><div>71</div><div>72</div><div>73</div><div>74</div><div>75</div><div>76</div><div>77</div><div>78</div><div>79</div><div>80</div><div>81</div><div>82</div><div>83</div><div>84</div><div>85</div><div>86</div><div>87</div><div>88</div><div>89</div><div>90</div><div>91</div><div>92</div><div>93</div><div>94</div><div>95</div><div>96</div><div>97</div><div>98</div><div>99</div><div>100</div></div>										<div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div><div>13</div><div>14</div><div>15</div><div>16</div><div>17</div><div>18</div><div>19</div><div>20</div><div>21</div><div>22</div><div>23</div><div>24</div><div>25</div><div>26</div><div>27</div><div>28</div><div>29</div><div>30</div><div>31</div><div>32</div><div>33</div><div>34</div><div>35</div><div>36</div><div>37</div><div>38</div><div>39</div><div>40</div><div>41</div><div>42</div><div>43</div><div>44</div><div>45</div><div>46</div><div>47</div><div>48</div><div>49</div><div>50</div><div>51</div><div>52</div><div>53</div><div>54</div><div>55</div><div>56</div><div>57</div><div>58</div><div>59</div><div>60</div><div>61</div><div>62</div><div>63</div><div>64</div><div>65</div><div>66</div><div>67</div><div>68</div><div>69</div><div>70</div><div>71</div><div>72</div><div>73</div><div>74</div><div>75</div><div>76</div><div>77</div><div>78</div><div>79</div><div>80</div><div>81</div><div>82</div><div>83</div><div>84</div><div>85</div><div>86</div><div>87</div><div>88</div><div>89</div><div>90</div><div>91</div><div>92</div><div>93</div><div>94</div><div>95</div><div>96</div><div>97</div><div>98</div><div>99</div><div>100</div></div>										<div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div><div>13</div><div>14</div><div>15</div><div>16</div><div>17</div><div>18</div><div>19</div><div>20</div><div>21</div><div>22</div><div>23</div><div>24</div><div>25</div><div>26</div><div>27</div><div>28</div><div>29</div><div>30</div><div>31</div><div>32</div><div>33</div><div>34</div><div>35</div><div>36</div><div>37</div><div>38</div><div>39</div><div>40</div><div>41</div><div>42</div><div>43</div><div>44</div><div>45</div><div>46</div><div>47</div><div>48</div><div>49</div><div>50</div><div>51</div><div>52</div><div>53</div><div>54</div><div>55</div><div>56</div><div>57</div><div>58</div><div>59</div><div>60</div><div>61</div><div>62</div><div>63</div><div>64</div><div>65</div><div>66</div><div>67</div><div>68</div><div>69</div><div>70</div><div>71</div><div>72</div><div>73</div><div>74</div><div>75</div><div>76</div><div>77</div><div>78</div><div>79</div><div>80</div><div>81</div><div>82</div><div>83</div><div>84</div><div>85</div><div>86</div><div>87</div><div>88</div><div>89</div><div>90</div><div>91</div><div>92</div><div>93</div><div>94</div><div>95</div><div>96</div><div>97</div><div>98</div><div>99</div><div>100</div></div>										<div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div><div>13</div><div>14</div><div>15</div><div>16</div><div>17</div><div>18</div><div>19</div><div>20</div><div>21</div><div>22</div><div>23</div><div>24</div><div>25</div><div>26</div><div>27</div><div>28</div><div>29</div><div>30</div><div>31</div><div>32</div><div>33</div><div>34</div><div>35</div><div>36</div><div>37</div><div>38</div><div>39</div><div>40</div><div>41</div><div>42</div><div>43</div><div>44</div><div>45</div><div>46</div><div>47</div><div>48</div><div>49</div><div>50</div><div>51</div><div>52</div><div>53</div><div>54</div><div>55</div><div>56</div><div>57</div><div>58</div><div>59</div><div>60</div><div>61</div><div>62</div><div>63</div><div>64</div><div>65</div><div>66</div><div>67</div><div>68</div><div>69</div><div>70</div><div>71</div><div>72</div><div>73</div><div>74</div><div>75</div><div>76</div><div>77</div><div>78</div><div>79</div><div>80</div><div>81</div><div>82</div><div>83</div><div>84</div><div>85</div><div>86</div><div>87</div><div>88</div><div>89</div><div>90</div><div>91</div><div>92</div><div>93</div><div>94</div><div>95</div><div>96</div><div>97</div><div>98</div><div>99</div><div>100</div></div>										<div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div><div>13</div><div>14</div><div>15</div><div>16</div><div>17</div><div>18</div><div>19</div><div>20</div><div>21</div><div>22</div><div>23</div><div>24</div><div>25</div><div>26</div><div>27</div><div>28</div><div>29</div><div>30</div><div>31</div><div>32</div><div>33</div><div>34</div><div>35</div><div>36</div><div>37</div><div>38</div><div>39</div><div>40</div><div>41</div><div>42</div><div>43</div><div>44</div><div>45</div><div>46</div><div>47</div><div>48</div><div>49</div><div>50</div><div>51</div><div>52</div><div>53</div><div>54</div><div>55</div><div>56</div><div>57</div><div>58</div><div>59</div><div>60</div><div>61</div><div>62</div><div>63</div><div>64</div><div>65</div><div>66</div><div>67</div><div>68</div><div>69</div><div>70</div><div>71</div><div>72</div><div>73</div><div>74</div><div>75</div><div>76</div><div>77</div><div>78</div><div>79</div><div>80</div><div>81</div><div>82</div><div>83</div><div>84</div><div>85</div><div>86</div><div>87</div><div>88</div><div>89</div><div>90</div><div>91</div><div>92</div><div>93</div><div>94</div><div>95</div><div>96</div><div>97</div><div>98</div><div>99</div><div>100</div></div>										<div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div><div>13</div><div>14</div><div>15</div><div>16</div><div>17</div><div>18</div><div>19</div><div>20</div><div>21</div><div>22</div><div>23</div><div>24</div><div>25</div><div>26</div><div>27</div><div>28</div><div>29</div><div>30</div><div>31</div><div>32</div><div>33</div><div>34</div><div>35</div><div>36</div><div>37</div><div>38</div><div>39</div><div>40</div><div>41</div><div>42</div><div>43</div><div>44</div><div>45</div><div>46</div><div>47</div><div>48</div><div>49</div><div>50</div><div>51</div><div>52</div><div>53</div><div>54</div><div>55</div><div>56</div><div>57</div><div>58</div><div>59</div><div>60</div><div>61</div><div>62</div><div>63</div><div>64</div><div>65</div><div>66</div><div>67</div><div>68</div><div>69</div><div>70</div><div>71</div><div>72</div><div>73</div><div>74</div><div>75</div><div>76</div><div>77</div><div>78</div><div>79</div><div>80</div><div>81</div><div>82</div><div>83</div><div>84</div><div>85</div><div>86</div><div>87</div><div>88</div><div>89</div><div>90</div><div>91</div><div>92</div><div>93</div><div>94</div><div>95</div><div>96</div><div>97</div><div>98</div><div>99</div><div>100</div></div>										<div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div><div>13</div><div>14</div><div>15</div><div>16</div><div>17</div><div>18</div><div>19</div><div>20</div><div>21</div><div>22</div><div>23</div><div>24</div><div>25</div><div>26</div><div>27</div><div>28</div><div>29</div><div>30</div><div>31</div><div>32</div><div>33</div><div>34</div><div>35</div><div>36</div><div>37</div><div>38</div><div>39</div><div>40</div><div>41</div><div>42</div><div>43</div><div>44</div><div>45</div><div>46</div><div>47</div><div>48</div><div>49</div><div>50</div><div>51</div><div>52</div><div>53</div><div>54</div><div>55</div><div>56</div><div>57</div><div>58</div><div>59</div><div>60</div><div>61</div><div>62</div><div>63</div><div>64</div><div>65</div><div>66</div><div>67</div><div>68</div><div>69</div><div>70</div><div>71</div><div>72</div><div>73</div><div>74</div><div>75</div><div>76</div><div>77</div><div>78</div><div>79</div><div>80</div><div>81</div><div>82</div><div>83</div><div>84</div><div>85</div><div>86</div><div>87</div><div>88</div><div>89</div><div>90</div><div>91</div><div>92</div><div>93</div><div>94</div><div>95</div><div>96</div><div>97</div><div>98</div><div>99</div><div>100</div></div>										<div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div><div>13</div><div>14</div><div>15</div><div>16</div><div>17</div><div>18</div><div>19</div><div>20</div><div>21</div><div>22</div><div>23</div><div>24</div><div>25</div><div>26</div><div>27</div><div>28</div><div>29</div><div>30</div><div>31</div><div>32</div><div>33</div><div>34</div><div>35</div><div>36</div><div>37</div><div>38</div><div>39</div><div>40</div><div>41</div><div>42</div><div>43</div><div>44</div><div>45</div><div>46</div><div>47</div><div>48</div><div>49</div><div>50</div><div>51</div><div>52</div><div>53</div><div>54</div><div>55</div><div>56</div><div>57</div><div>58</div><div>59</div><div>60</div><div>61</div><div>62</div><div>63</div><div>64</div><div>65</div><div>66</div><div>67</div><div>68</div><div>69</div><div>70</div><div>71</div><div>72</div><div>73</div><div>74</div><div>75</div><div>76</div><div>77</div><div>78</div><div>79</div><div>80</div><div>81</div><div>82</div><div>83</div><div>84</div><div>85</div><div>86</div><div>87</div><div>88</div><div>89</div><div>90</div><div>91</div><div>92</div><div>93</div><div>94</div><div>95</div><div>96</div><div>97</div><div>98</div><div>99</div><div>100</div></div>										<div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div><div>13</div><div>14</div><div>15</div><div>16</div><div>17</div><div>18</div><div>19</div><div>20</div><div>21</div><div>22</div><div>23</div><div>24</div><div>25</div><div>26</div><div>27</div><div>28</div><div>29</div><div>30</div><div>31</div><div>32</div><div>33</div><div>34</div><div>35</div><div>36</div><div>37</div><div>38</div><div>39</div><div>40</div><div>41</div><div>42</div><div>43</div><div>44</div><div>45</div><div>46</div><div>47</div><div>48</div><div>49</div><div>50</div><div>51</div><div>52</div><div>53</div><div>54</div><div>55</div><div>56</div><div>57</div><div>58</div><div>59</div><div>60</div><div>61</div><div>62</div><div>63</div><div>64</div><div>65</div><div>66</div><div>67</div><div>68</div><div>69</div><div>70</div><div>71</div><div>72</div><div>73</div><div>74</div><div>75</div><div>76</div><div>77</div><div>78</div><div>79</div><div>80</div><div>81</div><div>82</div><div>83</div><div>84</div><div>85</div><div>86</div><div>87</div><div>88</div><div>89</div><div>90</div><div>91</div><div>92</div><div>93</div><div>94</div><div>95</div><div>96</div><div>97</div><div>98</div><div>99</div><div>100</div></div>										<div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div><div>13</div><div>14</div><div>15</div><div>16</div><div>17</div><div>18</div><div>19</div><div>20</div><div>21</div><div>22</div><div>23</div><div>24</div><div>25</div><div>26</div><div>27</div><div>28</div><div>29</div><div>30</div><div>31</div><div>32</div><div>33</div><div>34</div><div>35</div><div>36</div><div>37</div><div>38</div><div>39</div><div>40</div><div>41</div><div>42</div><div>43</div><div>44</div><div>45</div><div>46</div><div>47</div><div>48</div><div>49</div><div>50</div><div>51</div><div>52</div><div>53</div><div>54</div><div>55</div><div>56</div><div>57</div><div>58</div><div>59</div><div>60</div><div>61</div><div>62</div><div>63</div><div>64</div><div>65</div><div>66</div><div>67</div><div>68</div><div>69</div><div>70</div><div>71</div><div>72</div><div>73</div><div>74</div><div>75</div><div>76</div><div>77</div><div>78</div><div>79</div><div>80</div><div>81</div><div>82</div><div>83</div><div>84</div><div>85</div><div>86</div><div>87</div><div>88</div><div>89</div><div>90</div><div>91</div><div>92</div><div>93</div><div>94</div><div>95</div><div>96</div><div>97</div><div>98</div><div>99</div><div>100</div></div>										<div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div><div>13</div><div>14</div><div>15</div><div>16</div><div>17</div><div>18</div><div>19</div><div>20</div><div>21</div><div>22</div><div>23</div><div>24</div><div>25</div><div>26</div><div>27</div><div>28</div><div>29</div><div>30</div><div>31</div><div>32</div><div>33</div><div>34</div><div>35</div><div>36</div><div>37</div><div>38</div><div>39</div><div>40</div><div>41</div><div>42</div><div>43</div><div>44</div><div>45</div><div>46</div><div>47</div><div>48</div><div>49</div><div>50</div><div>51</div><div>52</div><div>53</div><div>54</div><div>55</div><div>56</div><div>57</div><div>58</div><div>59</div><div>60</div><div>61</div><div>62</div><div>63</div><div>64</div><div>65</div><div>66</div><div>67</div><div>68</div><div>69</div><div>70</div><div>71</div><div>72</div><div>73</div><div>74</div><div>75</div><div>76</div><div>77</div><div>78</div><div>79</div><div>80</div><div>81</div><div>82</div><div>83</div><div>84</div><div>85</div><div>86</div><div>87</div><div>88</div><div>89</div><div>90</div><div>91</div><div>92</div><div>93</div><div>94</div><div>95</div><div>96</div><div>97</div><div>98</div><div>99</div><div>100</div></div>										<div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div><div>13</div><div>14</div><div>15</div><div>16</div><div>17</div><div>18</div><div>19</div><div>20</div><div>21</div><div>22</div><div>23</div><div>24</div><div>25</div><div>26</div><div>27</div><div>28</div><div>29</div><div>30</div><div>31</div><div>32</div><div>33</div><div>34</div><div>35</div><div>36</div><div>37</div><div>38</div><div>39</div><div>40</div><div>41</div><div>42</div><div>43</div><div>44</div><div>45</div><div>46</div><div>47</div><div>48</div><div>49</div><div>50</div><div>51</div><div>52</div><div>53</div><div>54</div><div>55</div><div>56</div><div>57</div><div>58</div><div>59</div><div>60</div><div>61</div><div>62</div><div>63</div><div>64</div><div>65</div><div>66</div><div>67</div><div>68</div><div>69</div><div>70</div><div>71</div><div>72</div><div>73</div><div>74</div><div>75</div><div>76</div><div>77</div><div>78</div><div>79</div><div>80</div><div>81</div><div>82</div><div>83</div><div>84</div><div>85</div><div>86</div><div>87</div><div>88</div><div>89</div><div>90</div><div>91</div><div>92</div><div>93</div><div>94</div><div>95</div><div>96</div><div>97</div><div>98</div><div>99</div><div>100</div></div>										<div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div><div>13</div><div>14</div><div>15</div><div>16</div><div>17</div><div>18</div><div>19&lt;/</div></div>									





FRONT ELEVATION

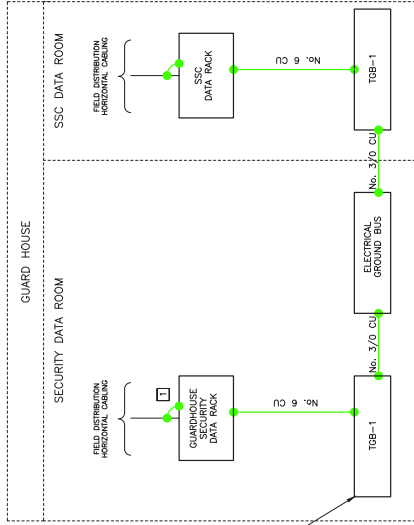


SECTION A-A

**NOTES:**

- TELECOMMUNICATIONS GROUND BUS BAR IN SSC ROOM TO BE DOUBLE DRILLED TO ACCEPT TWO-HOLE LUG COMPRESSION CONNECTORS.
- COMMUNICATIONS BONDING CABLES IN SSC ROOM TO BE GREEN-JACKETED #6AWG. TERMINATE CABLES WITH TWO-HOLE LUG COMPRESSION CONNECTORS ONLY.

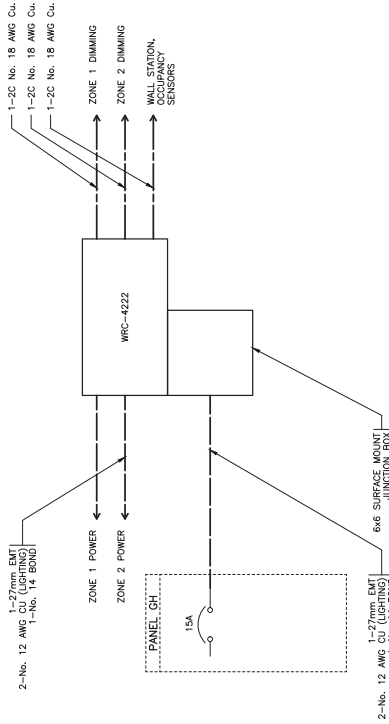
**DETAIL 1 GROUNDING INSTALLATION DETAILS**  
N.T.S.



**NOTES:**

- 1 DENOTES BONDING JUNCTION TO CONDUIT AND CABLE TRAY (TYP.)
2. PROVIDE GREEN JACKETED BOND CONDUCTORS


**DETAIL 2 GUARDHOUSE TELECOMMUNICATIONS**  
N.T.S.



**NOTES:**

- DETAIL APPLIES TO DOUGLAS DALOG ROOM CONTROLLER MODEL WRC-4222. REFER TO DOUGLAS INSTALLATION MANUAL FOR FURTHER DETAILS.

**DETAIL 4 LOW VOLTAGE LIGHTING CONTROLS**  
N.T.S.

	DWG. NO.	DRAWING REFERENCES	NOTES	NO.	DATE										