

# **APPENDIX G**

## **INSTRUMENTATION SUPPORT DRAWINGS**

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| REVISIONS | DATE | BY | APPROVED |
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## NOTES/SPECIFICATIONS

1. REMOVE ALL DEBRIS AND SORT FROM EXISTING SURFACES TO RECEIVE CONCRETE. POWERWASH ALL SURFACES PRIOR TO CONCRETE PLACEMENT.
2. ALL CONCRETE SHALL BE PLACED AND FINISHED WITHIN THE SPECIFIED TIME FRAME. CONCRETE SHALL HAVE A MAXIMUM ALLOWABLE WATER/CEMENT RATIO OF 0.45. AN AIR CONTENT BETWEEN 2 TO 3% AND SLUMP BETWEEN 10 TO 12 INCHES SHALL BE MAINTAINED. CONCRETE SHALL HAVE A MINIMUM OF 3000 PSI COMPRESSIVE STRENGTH. CONCRETE SHALL BE PLACED AND FINISHED WITHIN THE SPECIFIED TIME FRAME. CONCRETE SHALL BE PLACED AND FINISHED WITHIN THE SPECIFIED TIME FRAME.
3. ALL CONCRETE SHALL BE PLACED AND FINISHED WITHIN THE SPECIFIED TIME FRAME. CONCRETE SHALL HAVE A MAXIMUM ALLOWABLE WATER/CEMENT RATIO OF 0.45. AN AIR CONTENT BETWEEN 2 TO 3% AND SLUMP BETWEEN 10 TO 12 INCHES SHALL BE MAINTAINED. CONCRETE SHALL HAVE A MINIMUM OF 3000 PSI COMPRESSIVE STRENGTH. CONCRETE SHALL BE PLACED AND FINISHED WITHIN THE SPECIFIED TIME FRAME.
4. ALL REINFORCING BARS TO BE NEW DEFORMED BUILT STEEL PER ASTM A-615 GRADE 60 BARS. ALL REINFORCING BARS SHALL BE PLACED AND FINISHED WITHIN THE SPECIFIED TIME FRAME. CONCRETE SHALL HAVE A MAXIMUM ALLOWABLE WATER/CEMENT RATIO OF 0.45. AN AIR CONTENT BETWEEN 2 TO 3% AND SLUMP BETWEEN 10 TO 12 INCHES SHALL BE MAINTAINED. CONCRETE SHALL HAVE A MINIMUM OF 3000 PSI COMPRESSIVE STRENGTH. CONCRETE SHALL BE PLACED AND FINISHED WITHIN THE SPECIFIED TIME FRAME.
5. DETAILING OF CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH ACI 318 "MANUAL OF STANDARD PRACTICE OF DETAILING REINFORCED CONCRETE STRUCTURES". CLEARANCES AS NOTED ON DETAILS ON THIS DRAWING SHALL BE MAINTAINED THROUGHOUT THE ENTIRE PROJECT.
6. WEDGERS SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS USING A SEAMANT AS NECESSARY. WEDGERS SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS USING A SEAMANT AS NECESSARY.
7. ALL CONCRETE SHALL BE PLACED AND FINISHED WITHIN THE SPECIFIED TIME FRAME. CONCRETE SHALL HAVE A MAXIMUM ALLOWABLE WATER/CEMENT RATIO OF 0.45. AN AIR CONTENT BETWEEN 2 TO 3% AND SLUMP BETWEEN 10 TO 12 INCHES SHALL BE MAINTAINED. CONCRETE SHALL HAVE A MINIMUM OF 3000 PSI COMPRESSIVE STRENGTH. CONCRETE SHALL BE PLACED AND FINISHED WITHIN THE SPECIFIED TIME FRAME.
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10. PROVIDE A SMOOTH FINISH ON ALL FORMED SURFACES AND A BROOM FINISH ON ALL UNFORMED SURFACES. ALL SLAB THICKNESSES SHALL MEET ACI 117 REQUIREMENTS.
11. QUALITY CONTROL:

- A- THE CONTRACTOR SHALL EMPLOY THE SERVICES OF AN INDEPENDENT TESTING LABORATORY TO TEST THE CONCRETE.
- 1- SLUMP TEST SHALL BE MADE IN THE FIELD AT A RATE OF ONE PER HOUR.
- 2- FIELD TEST CYLINDERS SPECIMENS SHALL BE TAKEN AT A RATE OF ONE SET PER 25 CUBIC YARDS AND IN GENERAL NOT LESS THAN ONE SET OF SPECIMENS WILL BE TAKEN FOR EACH 1000 CUBIC YARDS OF CONCRETE. FIELD TESTS SHALL BE MADE AT THE FOLLOWING LOCATIONS:
  - A- SECURE SPECIMENS IN ACCORDANCE WITH ASTM C-172.
  - B- MOULD THE SPECIMENS FROM CONCRETE SAMPLES ACCORDING TO ASTM C-111. CURE UNDER STANDARD MOISTURE AND TEMPERATURE CONDITIONS AS SPECIFIED IN ASTM C-111.
  - C- TEST AGE SPECIMENS AT 7 DAYS AND TWO AT 28 DAYS.
  - D- ACCORDING TO ASTM C-111. CURE UNDER STANDARD MOISTURE AND TEMPERATURE CONDITIONS AS SPECIFIED IN ASTM C-111.
  - E- SHALL BE TESTED AT 28 DAYS. THE STRENGTH OF THE CONCRETE WILL BE DETERMINED BY THE TESTING LABORATORY. THE STRENGTH OF THE CONCRETE WILL BE DETERMINED BY THE TESTING LABORATORY.
- 3- DETERMINE THE FOLLOWING WHEN TEST RESULTS ARE TAKEN:
  - A- CONCRETE STRENGTH.
  - B- SLUMP.
  - C- FREQUENCY OF MOISTURE INCORPORATION ARE CORRECTED.
  - D- FREQUENCY OF MOISTURE INCORPORATION ARE CORRECTED.
  - E- FREQUENCY OF MOISTURE INCORPORATION ARE CORRECTED.
- 4- CONCRETE SHALL BE PLACED AND FINISHED WITHIN THE SPECIFIED TIME FRAME. CONCRETE SHALL HAVE A MAXIMUM ALLOWABLE WATER/CEMENT RATIO OF 0.45. AN AIR CONTENT BETWEEN 2 TO 3% AND SLUMP BETWEEN 10 TO 12 INCHES SHALL BE MAINTAINED. CONCRETE SHALL HAVE A MINIMUM OF 3000 PSI COMPRESSIVE STRENGTH. CONCRETE SHALL BE PLACED AND FINISHED WITHIN THE SPECIFIED TIME FRAME.
- 5- CONCRETE SHALL BE PLACED AND FINISHED WITHIN THE SPECIFIED TIME FRAME. CONCRETE SHALL HAVE A MAXIMUM ALLOWABLE WATER/CEMENT RATIO OF 0.45. AN AIR CONTENT BETWEEN 2 TO 3% AND SLUMP BETWEEN 10 TO 12 INCHES SHALL BE MAINTAINED. CONCRETE SHALL HAVE A MINIMUM OF 3000 PSI COMPRESSIVE STRENGTH. CONCRETE SHALL BE PLACED AND FINISHED WITHIN THE SPECIFIED TIME FRAME.

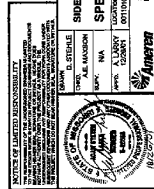
## OTHER NOTES

1. SEE SCHEDULE OF MATERIALS FOR SPECIFICATIONS OF OTHER MATERIALS.
2. ALL PRODUCTS SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. STAINLESS STEEL BATTERS SHALL BE CONTINUOUS SUPPORT TO LOWER BATTERS SHALL BUTT AGAINST EACH OTHER WITHOUT A GAP BATTER CHAIRS FROM ANCHOR BOLT SHALL NOT EXCEED 6 INCHES.
4. CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PROTECT EXISTING STRUCTURES AND UTILITIES FROM DAMAGE DURING CONSTRUCTION.
5. CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PROTECT EXISTING STRUCTURES AND UTILITIES FROM DAMAGE DURING CONSTRUCTION.

## SCHEDULE OF MATERIALS

| ITEM                         | MANUFACTURER                | PRODUCT                                         |
|------------------------------|-----------------------------|-------------------------------------------------|
| CONCRETE                     | OSI LINING TECHNOLOGY, INC. | 80 M/L HD TEXTURED                              |
| NONWOVEN GEOTEXTILE          | OSI LINING TECHNOLOGY, INC. | NONWOVEN POLYPROPYLENE GEOTEXTILE NWT19         |
| WEDGER GEOTEXTILE            | SYNTHETIC INDUSTRIES        | -                                               |
| ANCHOR BOLT (TYPE A)         | HEI                         | WINK BOLT 1/2" DIAMETER, AS 304 STAINLESS STEEL |
| ANCHOR BOLT (TYPE B)         | HEI                         | WINK BOLT 1/2" DIAMETER, AS 304 STAINLESS STEEL |
| ANCHOR BOLT (TYPE C)         | HEI                         | WINK BOLT 1/2" DIAMETER, AS 304 STAINLESS STEEL |
| BUTTER (PLATE)               | -                           | 3" X 2" X 1/4" ANGLE, AS 304 STAINLESS STEEL    |
| POWER ACTUATED PIN           | -                           | 2" X 1/4" PLAT STOCK, AS 304 STAINLESS STEEL    |
| GRABER                       | HEI                         | X-COL STAINLESS STEEL W/L                       |
| SEALING SEAL (FOR WATERSTOP) | -                           | NORPINE                                         |
| SEALING SEAL (FOR WATERSTOP) | CREDENTIA                   | LEAKMASTER                                      |
| WATER STOP                   | CRESTON/MA                  | HYDROTEC Q-4775-X                               |
| POULLOCS                     | OSI LINING TECHNOLOGY, INC. | POULLOCS                                        |

NOTE: CONTRACTOR MAY REQUEST SUBSTITUTION OF ANY PRODUCT PROVIDED CONTRACTOR CAN MAKE EQUIVALENT DEMONSTRATION.



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
TAMM STATE PRISON

PROJECT: SIDE SLOPE RELINING  
SPECIFICATIONS & SCHEDULES  
8304-X-155099  
STATION: 0+00 TO 0+100  
DATE: 01/15/2019  
BY: J. L. BROWN

DESIGNED BY: J. L. BROWN  
CHECKED BY: J. L. BROWN  
APPROVED BY: J. L. BROWN

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## NOTES/SPECIFICATIONS

NOTE: CONTRACTOR MAY REQUEST SUBSTITUTION OF ANY PRODUCT PROVIDED CONTRACTOR CAN MAKE EQUIVALENCY DEMONSTRATION.

**NOTES ON  
CONCRETE**

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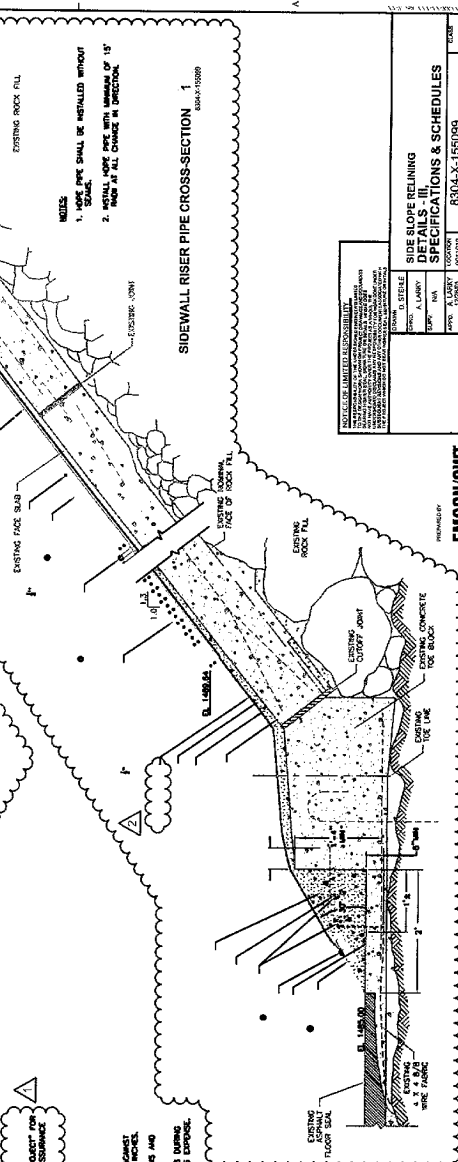
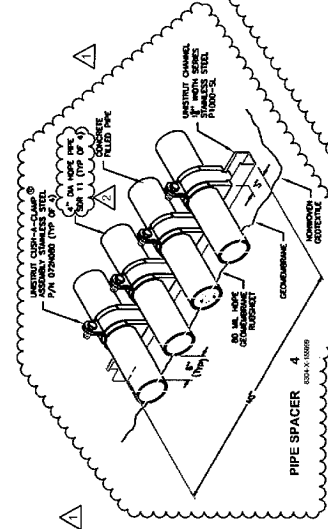
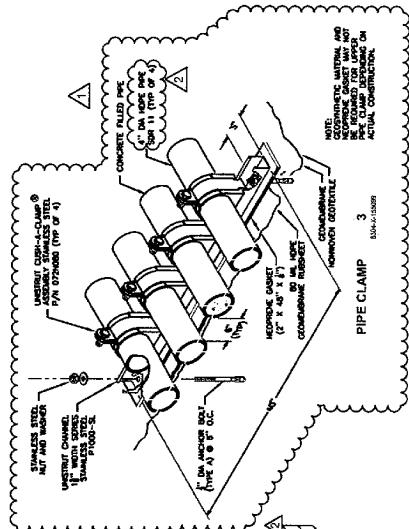
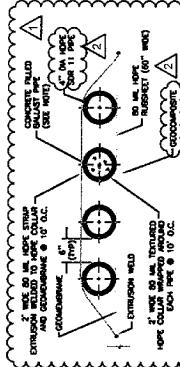
**GEOSYNTHETICS**

SEE "DOA/DOC PLAN - TALL SALK PUMPED STORAGE FACILITY UPPER RESERVOIR REMAINING PROJECT" FOR GEOSYNTHETICS MATERIAL AND INSTALLATION REQUIREMENTS AND QUALITY CONTROL/ QUALITY ASSURANCE PROVISIONS

- OTHER NOTES
1. SEE SCHEDULE OF MATERIALS FOR SPECIFICATIONS OF OTHER MATERIALS.
2. ALL PRODUCTS TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. EXISTING STEEL INTAKES SHALL BE CONTINUOUS SUPPORT TO LATER INTAKES SHALL, BUT AGAINST EACH OTHER WITHOUT A GAP. INTAKE CANTILEVER FROM ANCHOR BOLT SHALL NOT EXCEED 6 INCHES.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN AND INSTALLATION OF TEMPORARY PLATFORMS AND SUPPORTS REQUIRED FOR INSTALLATION OF LATER INTAKES.
5. CONTRACTOR SHALL USE ALL PRECAUTIONS SO AS NOT TO DAMAGE THE EXISTING STRUCTURES DURING INSTALLATION OF LATER STEEL INTAKES. ANY DAMAGE INCURRED SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.

**SIDEWALL RISER PIPE STRAP SECTION**

- NOTE:**
1. ALTERNATIVE PIPE BALLAST SYSTEMS SUCH AS AS CONCRETE COLLARS MAY BE USED PROVIDED A MINIMUM BALLAST WEIGHT OF 1,000 LBS. PER LINEAL FOOT OF PIPE IS PROVIDED.



**FINANCIAL**

|                       |                                                    |             |
|-----------------------|----------------------------------------------------|-------------|
| ST. LOUIS<br>MISSOURI | TALUM SAUK UPPER RESERVOIR<br>TALUM SAUK, MISSOURI | SHEET NO. 2 |
|-----------------------|----------------------------------------------------|-------------|

D. STEINLE  
DRAHN

(CROSS)  
 A. LARKY  
 SIDE SLOPE RELINING  
 DETAIL S - III

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| APPO: A. LARRY | LOCATION | 8304-X-155099 |
| 12/28/84       | 00000000 |               |

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|-------------------------------------------------------------------------------------|---------------|---------|
| TABLE 67                                                                            | UNITED STATES | 1967-71 |
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| TANKER SALES, IN TONNAGE                                                            |               |         |
| 1967-71                                                                             |               |         |

**MISSOURI**  
311. LOGANS  
TAUM SAUK OFFER RESERVOIR  
TAUM SAUK, MISSOURI

100

**Table 1**

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## SCHEDULE OF MATERIALS

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<u>RENT</u> (TYPE 33)</p> <p>32. <u>RENT</u> (TYPE 34)</p> <p>33. <u>RENT</u> (TYPE 35)</p> <p>34. <u>RENT</u> (TYPE 36)</p> <p>35. <u>RENT</u> (TYPE 37)</p> <p>36. <u>RENT</u> (TYPE 38)</p> <p>37. <u>RENT</u> (TYPE 39)</p> <p>38. <u>RENT</u> (TYPE 40)</p> <p>39. <u>RENT</u> (TYPE 41)</p> <p>40. <u>RENT</u> (TYPE 42)</p> <p>41. <u>RENT</u> (TYPE 43)</p> <p>42. <u>RENT</u> (TYPE 44)</p> <p>43. <u>RENT</u> (TYPE 45)</p> <p>44. <u>RENT</u> (TYPE 46)</p> <p>45. <u>RENT</u> (TYPE 47)</p> <p>46. <u>RENT</u> (TYPE 48)</p> <p>47. <u>RENT</u> (TYPE 49)</p> <p>48. <u>RENT</u> (TYPE 50)</p> <p>49. <u>RENT</u> (TYPE 51)</p> <p>50. <u>RENT</u> (TYPE 52)</p> <p>51. <u>RENT</u> (TYPE 53)</p> <p>52. <u>RENT</u> (TYPE 54)</p> <p>53. <u>RENT</u> (TYPE 55)</p> <p>54. <u>RENT</u> (TYPE 56)</p> <p>55. <u>RENT</u> (TYPE 57)</p> <p>56. <u>RENT</u> (TYPE 58)</p> <p>57. <u>RENT</u> (TYPE 59)</p> <p>58. <u>RENT</u> (TYPE 60)</p> <p>59. <u>RENT</u> (TYPE 61)</p> <p>60. <u>RENT</u> (TYPE 62)</p> <p>61. <u>RENT</u> (TYPE 63)</p> <p>62. <u>RENT</u> (TYPE 64)</p> <p>63. <u>RENT</u> (TYPE 65)</p> <p>64. <u>RENT</u> (TYPE 66)</p> <p>65. <u>RENT</u> (TYPE 67)</p> <p>66. <u>RENT</u> (TYPE 68)</p> <p>67. <u>RENT</u> (TYPE 69)</p> <p>68. <u>RENT</u> (TYPE 70)</p> <p>69. <u>RENT</u> (TYPE 71)</p> <p>70. <u>RENT</u> (TYPE 72)</p> <p>71. <u>RENT</u> (TYPE 73)</p> <p>72. <u>RENT</u> (TYPE 74)</p> <p>73. <u>RENT</u> (TYPE 75)</p> <p>74. <u>RENT</u> (TYPE 76)</p> <p>75. <u>RENT</u> (TYPE 77)</p> <p>76. <u>RENT</u> (TYPE 78)</p> <p>77. <u>RENT</u> (TYPE 79)</p> <p>78. <u>RENT</u> (TYPE 80)</p> <p>79. <u>RENT</u> (TYPE 81)</p> <p>80. <u>RENT</u> (TYPE 82)</p> <p>81. <u>RENT</u> (TYPE 83)</p> <p>82. <u>RENT</u> (TYPE 84)</p> <p>83. <u>RENT</u> (TYPE 85)</p> <p>84. <u>RENT</u> (TYPE 86)</p> <p>85. <u>RENT</u> (TYPE 87)</p> <p>86. <u>RENT</u> (TYPE 88)</p> <p>87. <u>RENT</u> (TYPE 89)</p> <p>88. <u>RENT</u> (TYPE 90)</p> <p>89. <u>RENT</u> (TYPE 91)</p> <p>90. <u>RENT</u> (TYPE 92)</p> <p>91. <u>RENT</u> (TYPE 93)</p> <p>92. <u>RENT</u> (TYPE 94)</p> <p>93. <u>RENT</u> (TYPE 95)</p> <p>94. <u>RENT</u> (TYPE 96)</p> <p>95. <u>RENT</u> (TYPE 97)</p> <p>96. <u>RENT</u> (TYPE 98)</p> <p>97. <u>RENT</u> (TYPE 99)</p> <p>98. <u>RENT</u> (TYPE 100)</p> <p>99. <u>RENT</u> (TYPE 101)</p> <p>100. <u>RENT</u> (TYPE 102)</p> <p>101. <u>RENT</u> (TYPE 103)</p> <p>102. <u>RENT</u> (TYPE 104)</p> <p>103. <u>RENT</u> (TYPE 105)</p> <p>104. <u>RENT</u> (TYPE 106)</p> <p>105. <u>RENT</u> (TYPE 107)</p> <p>106. <u>RENT</u> (TYPE 108)</p> <p>107. <u>RENT</u> (TYPE 109)</p> <p>108. <u>RENT</u> (TYPE 110)</p> <p>109. <u>RENT</u> (TYPE 111)</p> <p>110. <u>RENT</u> (TYPE 112)</p> <p>111. <u>RENT</u> (TYPE 113)</p> <p>112. <u>RENT</u> (TYPE 114)</p> <p>113. <u>RENT</u> (TYPE 115)</p> <p>114. <u>RENT</u> (TYPE 116)</p> <p>115. <u>RENT</u> (TYPE 117)</p> <p>116. <u>RENT</u> (TYPE 118)</p> <p>117. <u>RENT</u> (TYPE 119)</p> <p>118. <u>RENT</u> (TYPE 120)</p> <p>119. <u>RENT</u> (TYPE 121)</p> <p>120. <u>RENT</u> (TYPE 122)</p> <p>121. <u>RENT</u> (TYPE 123)</p> <p>122. <u>RENT</u> (TYPE 124)</p> <p>123. <u>RENT</u> (TYPE 125)</p> <p>124. <u>RENT</u> (TYPE 126)</p> <p>125. <u>RENT</u> (TYPE 127)</p> <p>126. <u>RENT</u> (TYPE 128)</p> <p>127. <u>RENT</u> (TYPE 129)</p> <p>128. <u>RENT</u> (TYPE 130)</p> <p>129. <u>RENT</u> (TYPE 131)</p> <p>130. <u>RENT</u> (TYPE 132)</p> <p>131. <u>RENT</u> (TYPE 133)</p> <p>132. <u>RENT</u> (TYPE 134)</p> <p>133. <u>RENT</u> (TYPE 135)</p> <p>134. <u>RENT</u> (TYPE 136)</p> <p>135. <u>RENT</u> (TYPE 137)</p> <p>136. <u>RENT</u> (TYPE 138)</p> <p>137. <u>RENT</u> (TYPE 139)</p> <p>138. <u>RENT</u> (TYPE 140)</p> <p>139. <u>RENT</u> (TYPE 141)</p> <p>140. <u>RENT</u> (TYPE 142)</p> <p>141. <u>RENT</u> (TYPE 143)</p> <p>142. <u>RENT</u> (TYPE 144)</p> <p>143. <u>RENT</u> (TYPE 145)</p> <p>144. <u>RENT</u> (TYPE 146)</p> <p>145. <u>RENT</u> (TYPE 147)</p> <p>146. <u>RENT</u> (TYPE 148)</p> <p>147. <u>RENT</u> (TYPE 149)</p> <p>148. <u>RENT</u> (TYPE 150)</p> <p>149. <u>RENT</u> (TYPE 151)</p> <p>150. <u>RENT</u> (TYPE 152)</p> <p>151. <u>RENT</u> (TYPE 153)</p> <p>152. <u>RENT</u> (TYPE 154)</p> <p>153. <u>RENT</u> (TYPE 155)</p> <p>154. <u>RENT</u> (TYPE 156)</p> <p>155. <u>RENT</u> (TYPE 157)</p> <p>156. <u>RENT</u> (TYPE 158)</p> <p>157. <u>RENT</u> (TYPE 159)</p> <p>158. <u>RENT</u> (TYPE 160)</p> <p>159. <u>RENT</u> (TYPE 161)</p> <p>160. <u>RENT</u> (TYPE 162)</p> <p>161. <u>RENT</u> (TYPE 163)</p> <p>162. <u>RENT</u> (TYPE 164)</p> <p>163. <u>RENT</u> (TYPE 165)</p> <p>164. <u>RENT</u> (TYPE 166)</p> <p>165. <u>RENT</u> (TYPE 167)</p> <p>166. <u>RENT</u> (TYPE 168)</p> <p>167. <u>RENT</u> (TYPE 169)</p> <p>168. <u>RENT</u> (TYPE 170)</p> <p>169. <u>RENT</u> (TYPE 171)</p> <p>170. <u>RENT</u> (TYPE 172)</p> <p>171. <u>RENT</u> (TYPE 173)</p> <p>172. <u>RENT</u> (TYPE 174)</p> <p>173. <u>RENT</u> (TYPE 175)</p> <p>174. <u>RENT</u> (TYPE 176)</p> <p>175. <u>RENT</u> (TYPE 177)</p> <p>176. <u>RENT</u> (TYPE 178)</p> <p>177. <u>RENT</u> (TYPE 179)</p> <p>178. <u>RENT</u> (TYPE 180)</p> <p>179. <u>RENT</u></p> |
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## NOTES/SPECIFICATIONS

NOTE: CONTRACTOR MAY REQUEST SUBSTITUTION OF ANY PRODUCT PROVIDED CONTRACTOR CAN MAKE EQUIVALENCY DEMONSTRATION.

1. REMOVE ALL DEBRIS AND DIRT FROM

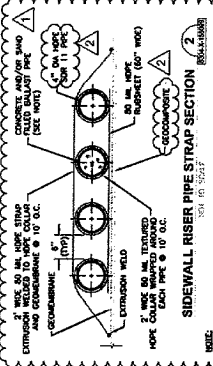
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**GEOSYNTHETICS**  
10000 Highway 100, Suite 100, Houston, TX 77036  
713/661-1111

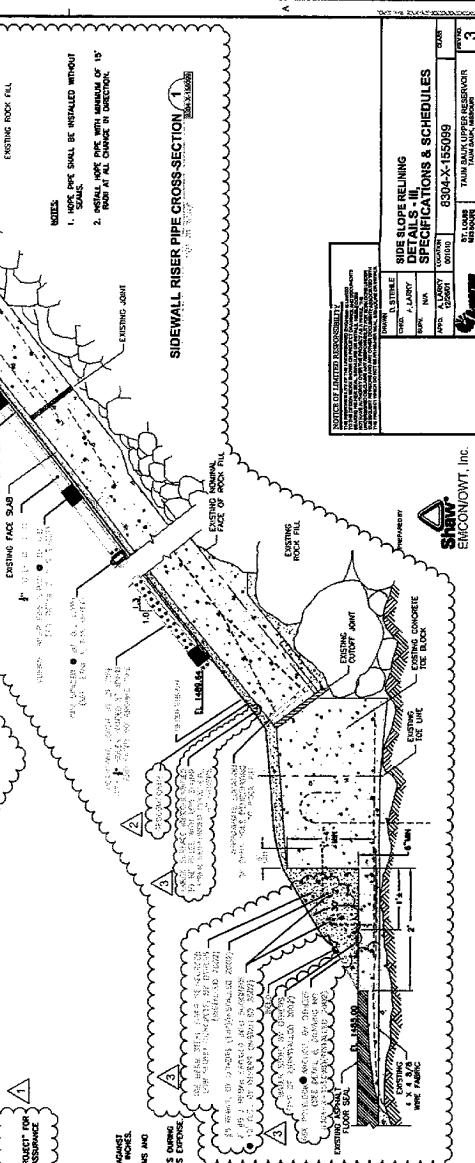
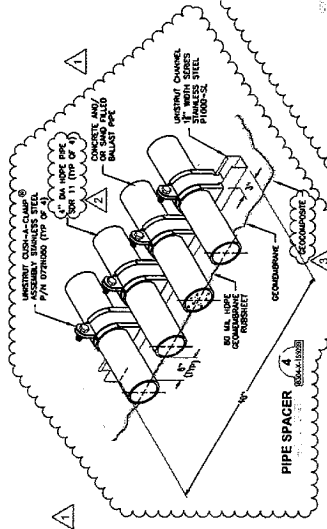
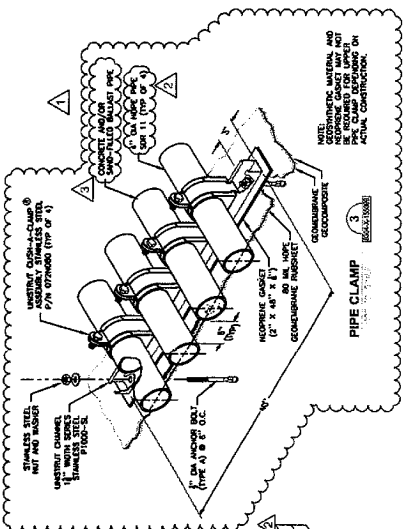
- GEOSYNTHETICS  
SEE "204/0002 RJLN - TUNA SALM PLANTED STORAGE FACILITY UNDER RESCUE HELPING PROJECT FOR SEVERELY DAMAGED MATERIAL AND INSTALLATION REQUIREMENTS AND QUALITY CONTROL QUALITY ASSURANCE PROCEDURES."  
OTHER NOTES

## SEE SCHEDULE OF MATERIALS FOR SPECIFICATIONS.

- SEE SCHEDULE OF MATERIALS FOR SPECIFICATIONS OF OTHER MATERIALS.
- ALL PRODUCTS SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- STAINLESS STEEL BATTERS SHALL BE CONTINUOUS SUPPORT TO LOWER BATTERS SHALL BUTT AGAINST EACH OTHER WITHOUT A GAP. BATTER OVERLAP FROM ANCHOR BOLT SHALL NOT EXCEED 6 INCHES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN AND INSTALLATION OF TEMPORARY PLATFORMS AND

[illegible]

- NOTE:** SEE 101 TO 5221F
- REMARKS:**
1. ALTERNATIVE PIPE BALLAST SYSTEMS SUCH AS AS CONCRETE COLLARS MAY BE USED PROVIDED A MINIMUM BALLAST WEIGHT OF 9 LBS/FT OF PIPE IS PROVIDED.
- EXISTING  
4 X 4 3/8"  
WIRE FABRIC



|                                                                                     |      |                                                         |          |
|-------------------------------------------------------------------------------------|------|---------------------------------------------------------|----------|
| SIDE SLOPE RELINING<br>DETAILS - III,<br>SPECIFICATIONS & SCHEDULES                 |      | 8304-X-155099                                           |          |
| CHRG. F. LARRY                                                                      | DATE | QUANTITY                                                | 001010   |
| BY: N/A                                                                             |      | APPROV. F. LARRY                                        | 02/26/01 |
|  |      | TAIWAI SANKU LIPPERS RESERVOIR<br>TAIWA SANKU, MARIQUET |          |

[illegible]

## SCHEDULE OF MATERIALS

NOTE: CONTRACTOR MAY REQUEST SUBSTITUTION OF ANY PRODUCT PROVIDED CONTRACTOR CAN MAKE EQUIVALENCY DEMONSTRATION.

[illegible]

SEE "COM/COC PLAN - TAMI SAUK PUMPED STORAGE FACILITY UPPER RESERVOIR  
RETURNING PROJECT" FOR GEOSYNTHETICS MATERIAL AND INSTALLATION REQUIREMENTS  
AND QUALITY CONTROL/ QUALITY ASSURANCE PROCEDURES.

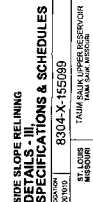
SEE SCHEDULE OF MATERIALS FOR SPECIFICATIONS OF OTHER MATERIALS.

ALL PRODUCTS SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

SEAMLESS STEEL BATTERIES SHALL BE CONTINUOUS SUPPORT TO INNER BATTERIES SHALL BUT AGAINST EACH OTHER WITHOUT A GAP. BATTERY CANTILEVERS FROM ANCHOR BOLT SHALL NOT EXCEED 6 INCHES.

CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN AND INSTALLATION OF TEMPORARY PLATINGS AND SUPPORTS REQUIRED FOR INSTALLATION OF LINER SYSTEM.

CONTRACTOR SHALL TAKE ALL PRECAUTIONS SO AS NOT TO DAMAGE THE EXISTING LINER SYSTEM. ANY DAMAGE TO EXISTING LINER SYSTEM AND DAMAGE INCURRED SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.



EMCON/OWT, Inc.



## SCHEDULE OF MATERIALS

**NOTE:** CONTRACTOR MAY REQUEST SUBSTITUTION OF ANY PRODUCT PROVIDED CONTRACTOR CAN MAKE EQUIVALENCY DEMONSTRATION

[illegible]

1. SEE "COM/CDL PLAN - TAIM SAUX PUMPED STORAGE FACILITY UPPER RESERVOIR RELINING PROJECT" FOR GEOSYNTHETICS MATERIAL AND INSTALLATION REQUIREMENTS AND QUALITY CONTROL/ QUALITY ASSURANCE PROCEDURES.

1. SEE SCHEDULE OF MATERIALS FOR SPECIFICATIONS OF OTHER MATERIALS.

2. ALL PRODUCTS SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

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- The diagram illustrates a cross-section of a composite pipe joint. It features a central 'COMPOSITE' core, which is a 'FIBER REINFORCED PLASTIC (FRP)' pipe. This core is surrounded by a 'REINFORCING RING' (FRP). The joint is formed by an 'EXTENSION WELD' and a 'HOLE COLLAR' (FRP). The collar is secured with 'BOLTS' and 'NUTS' (FRP). The joint is also reinforced with 'FIBER REINFORCED PLASTIC (FRP)' and 'COMPOSITE' material. The diagram includes labels for 'EXTENSION WELD', 'HOLE COLLAR (FRP)', 'BOLTS', 'NUTS', 'FIBER REINFORCED PLASTIC (FRP)', 'COMPOSITE', 'REINFORCING RING', and 'FRP PIPE'. Dimensions are given as '1" DIA. (1/4" THICK)' for the collar and '1" DIA. (1/4" THICK)' for the bolts/nuts. A note indicates 'EXTENSION WELD TO BE 10" LONG'.

NOTE:

1. ALTERNATIVE PIPE BALLAST SYSTEMS SUCH AS AS CONCRETE COLLARS MAY BE USED PROVIDED A MINIMUM BALLAST WEIGHT OF 9.1 LB/FT OF PIPE IS PROVIDED

[illegible]