

PRE ARRIVAL READINESS EVALUATION PARE 3.0 PEACE BRIDGE CANADIAN PLAZA IMPROVEMENTS

FOR
THE BUFFALO AND FORT ERIE PUBLIC BRIDGE AUTHORITY
MARCH 2024
ISSUED FOR BID TENDER SET



CROSSING PATHS  BUILDING FUTURES
THE PEACE BRIDGE

TITLE PAGE

PREPARED BY:




WSP USA Inc.
40 La Riviere Drive
Suite 320
Buffalo, NY 14202
(716) 853-1220

IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS ACTING AS AN ARCHITECT OR ENGINEER TO ALTER OR IN ANY MANNER TO REPRODUCE THE SEAL OF AN ARCHITECT OR ENGINEER IS ALTERED, THE SEAL IS USED IN ANY MANNER OR IN ANY MANNER TO REPRODUCE THE SEAL AND THE NOTATION ALTERED, FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

MARK	DESCRIPTION	DATE	APPR
A	ISSUED FOR BID (NOT FOR CONST.)	03/21/2024	

DESIGNED BY: M. VELLICIC	DATE: 03/21/2024
DRAWN BY: M.V.	SOLICITATION NO.:
SUBMITTED BY: WSP CANADA	CONTRACT NO.:
FILE NAME: pe/peace-bridge-canadian-plaza-improvements-2024	PILOT DATE: 03/21/2024
SIZE: 22" X 34"	PLOTTED BY: B.M.


 BUFFALO AND FORT ERIE PUBLIC
 BRIDGE AUTHORITY
 PROJECT# PARE 3.0
 TITLE PAGE

DRAWING
NUMBER
G-1

GENERAL NOTES

- 1. THE OWNER OF THE WORK FOR THIS CONTRACT IS THE BUFFALO AND FORT ERIE PUBLIC BRIDGE AUTHORITY. HEREAFTER REFERRED TO AS THE AUTHORITY.
2. RECORD PLANS FOR THIS FACILITY ARE AVAILABLE BY REQUEST AT THE AUTHORITY'S MAIN OFFICE LOCATED AT 100 QUEEN ST., FORT ERIE, ON L2A 3S6.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
4. WHEN PROPOSED WORK SHOWN IN THE PLANS DIFFERS FROM THE STANDARD SHEETS AND STANDARD SPECIFICATIONS, THE INFORMATION AS DETAILED ON THE PLANS SHALL GOVERN.
5. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT, DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF RECONSTRUCTION WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS.
6. THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF ALL APPLICABLE GOVERNMENT BODIES, AS WELL AS THE REQUIREMENTS OF THE AUTHORITY. ALL REQUIREMENTS DEALING WITH INTERNATIONAL MOVEMENT OF GOODS AND PERSONNEL SHALL BE FOLLOWED.
7. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT NO SPOIL AREA FOR SURPLUS MATERIAL IS AVAILABLE FOR THIS CONTRACT WITHIN THE AUTHORITY'S RIGHT-OF-WAY. THEREFORE, ALL MATERIAL TO BE REMOVED FROM THE JOB SITE SHALL BE DISPOSED OF BY THE CONTRACTOR OFF THE AUTHORITY'S PROPERTY. ALL COSTS ASSOCIATED WITH THE SPOIL AREA AND REMOVAL OF SPOIL MATERIAL SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE CONTRACT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUPPLY/SECURE A STORAGE AREA FOR THEIR MATERIALS AND EQUIPMENT SEE SHEET FOR AVAILABLE LAYDOWN AREAS ON AUTHORITY PROPERTY.
8. CONTRACTOR SHALL COORDINATE ALL WORK ACTIVITIES WHERE APPLICABLE, WITH ADJACENT CONTRACTORS OR ON-GOING WORK OPERATIONS. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO, ANNUAL BRIDGE INSPECTION, FEATURE LIGHTING, BRIDGE PAINTING, AUTHORITY MAINTENANCE AND REPAIR WORK OR OTHER ACTIVITIES.
9. WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, ALL RELATED COSTS INCLUDING THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE COST FOR THIS WORK.
10. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE THE NEW WORK TO PREVENT CONFLICTS AND INTERFERENCES FROM OCCURRING. ANY ADDITIONAL WORK OR COSTS AS A RESULT OF THE CONTRACTOR NOT PERFORMING THE WORK IN A COORDINATED MANNER SHALL BE AT THE CONTRACTOR'S OWN EXPENSE WITH NO ADDITIONAL COST TO THE AUTHORITY.
11. IN THE EVENT THAT GROUND WATER IS ENCOUNTERED DURING THE COURSE OF CONSTRUCTION, THE COST OF DEWATERING, PUMPING, BAILING OR DRAINING NECESSARY TO KEEP THE EXCAVATION FREE OF WATER SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE EXCAVATION.

FIELD INSPECTION PRIOR TO BIDDING

- 1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING FIELD CONDITIONS BEFORE BIDDING ON THE PROJECT.

DIMENSIONS

- 1. THE CONTRACTOR SHALL EXAMINE AND VERIFY, IN THE FIELD, ALL CONDITIONS AND DIMENSIONS. DIMENSIONS OF THE EXISTING STRUCTURES SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THEY HAVE BEEN TAKEN FROM THE ORIGINAL CONSTRUCTION OR SUBSEQUENT REHABILITATION DRAWINGS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL NOT SCALE THESE CONTRACT DOCUMENTS FOR DIMENSIONS OR DISTANCES. THE CONTRACTOR SHALL TAKE ALL SUCH FIELD MEASUREMENTS TO ASSURE PROPER FIT OF THE FINISHED WORK. AND THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. IF FIELD CONDITIONS AND DIMENSIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL USE THE FIELD CONDITIONS AND DIMENSIONS AND MAKE THE APPROPRIATE CHANGES TO THOSE SHOWN ON THE PLANS. SUBJECT TO THE APPROVAL OF THE ENGINEER. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR APPROVAL, THE FIELD MEASUREMENTS MADE SHALL BE INDICATED ON THE SHOP DRAWINGS SUBMITTED FOR REFERENCE OF THE REVIEWER. DO NOT SCALE THE PLANS FOR CONSTRUCTION DIMENSIONS.

UTILITIES

- 1. LOCATION OF UTILITIES, PUBLIC AND/OR PRIVATE, INDICATED AS EXISTING AND/OR TO BE CONSTRUCTED AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THEIR EXACT LOCATION SHALL BE DETERMINED IN THE FIELD.
2. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT CONDUITS MAY BE PRESENT, THEIR EXISTENCE AND LOCATIONS SHALL BE FIELD VERIFIED. IF CONDUITS ARE PRESENT AND ARE ENCOUNTERED DURING CONSTRUCTION OPERATIONS. CARE SHALL BE EXERCISED NOT TO DAMAGE CONDUITS, EXPANSION COUPLINGS, OR CONTENTS OF CONDUITS. ANY DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER. AT NO COST TO THE AUTHORITY.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL EXISTING UTILITIES AFFECTED BY HIS WORK FOR THE DURATION OF THE CONTRACT. COST TO BE INCLUDED IN THE VARIOUS CONTRACT ITEMS.
4. THE CONTRACTOR IS ADVISED THAT THE PEACE BRIDGE CARRIES MAJOR COMMUNICATION UTILITIES IN THIS WORK ZONE. THE CONTRACTOR SHALL TAKE CARE NOT TO DISTURB THESE UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE APPROPRIATE COMPANY PRIOR TO PERFORMING ANY WORK WHICH, IN THE CONTRACTOR'S OPINION, OR ENGINEER'S OPINION WILL JEOPARDIZE THE UTILITIES. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR ANY DAMAGE OCCURRING TO THESE UTILITIES.
5. ALL ELECTRICAL WORK SHALL CONFORM TO ALL PROVISIONS OF THE CANADIAN ELECTRICAL CODE, LOCAL CODES, MOL AND OSHA; WHERE CODES CONFLICT, THE MOST STRINGENT SHALL APPLY.
6. ILLUMINATION WITHIN THE WORK ZONE SHALL BE MAINTAINED DURING NIGHT TIME CONDITIONS. THE CONTRACTOR SHALL MAKE USE OF COMBINATIONS OF EXISTING LIGHTING EQUIPMENT, TEMPORARY LIGHTING PROVIDED BY CONTRACTOR AND FINAL LIGHTING INSTALLATION. TEMPORARY LIGHTING PROVIDED BY CONTRACTOR SHALL PROVIDE ILLUMINANCE LIGHTING LEVELS OF 25 LUX, 3:1 AVG./MIN, MAX /MIN OF 6:1. THE CONTRACTOR SHALL SUPPLY A LIGHTING PLAN DETAILING ILLUMINATION LEVELS TO THE ENGINEER FOR REVIEW AND APPROVAL.

EXISTING BRIDGE AND FACILITIES

- 1. THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE. OR WHICH ARE TO REMAIN THE PROPERTY OF THE AUTHORITY, WILL NOT BE DAMAGED.
2. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, INCLUDING THE EXISTING POLES AND FIXTURES, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR, TO THE SATISFACTION OF THE ENGINEER, AT NO ADDITIONAL COST TO THE AUTHORITY. ALL EXISTING MATERIALS SHALL BE PROTECTED FROM DAMAGE AND SHALL BE CLEANED OF CONCRETE AND OTHER MATERIALS RESULTING FROM THE CONTRACTOR'S ACTIVITIES. THE CONTRACTOR SHALL CLEAN ALL SURROUNDING ROADWAYS, PARKING AREAS, AND BRIDGE ELEMENTS OF DEBRIS AND OTHER MATERIAL CAUSED BY HIS OPERATIONS TO THE SATISFACTION OF THE ENGINEER.

SIGNAGE

- 1. EXISTING SIGNS DESIGNATED FOR REMOVAL ARE NOT TO BE REMOVED BEFORE BEING REPLACED BY NEW SIGNS A AT THE LOCATIONS CALLED FOR IN THE PLANS. IF EXISTING SIGNS ARE REMOVED BEFORE THE NEW ONES ARE INSTALLED, TEMPORARY SIGNS SHALL BE PROVIDED AT THE LOCATIONS.
2. THE SIGN LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE APPROVED BY THE ENGINEER IN THE FIELD.

MAINTENANCE AND PROTECTION OF TRAFFIC

- 1. PROTECTION OF THE PUBLIC: THE CONTRACTOR SHALL MAINTAIN AND PROTECT ALL TRAFFIC IN ACCORDANCE WITH THE PROVISIONS OF THE PROJECT SPECIFICATIONS, AS DIRECTED BY THE ENGINEER AND AS REQUIRED BY THE AUTHORITY.
2. THE CONTRACTOR SHALL COORDINATE HIS MAINTENANCE AND PROTECTION OF TRAFFIC ACTIVITIES AND ACCESS NEEDS WITH THE AUTHORITY. LANE CLOSURES REQUIRE PRIOR COORDINATION BETWEEN THE AUTHORITY AND THE CONTRACTOR. THE CLOSING OF LANES WILL ONLY BE PERMITTED WHEN DEEMED NECESSARY BY THE CONTRACTOR'S ACTIVITIES AS APPROVED BY THE ENGINEER. NO CLAIM WILL BE ALLOWED FOR A LANE CLOSURE REFUSAL OR LIMITATION.
3. ALL VEHICLES, EQUIPMENT, CONSTRUCTION WORKERS, AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO THE WORK AREA AS SHOWN IN THE PLANS. THE CONTRACTOR SHALL, AT NO TIME ALLOW HIS EMPLOYEE'S VEHICLES TO BE PARKED ON THE BRIDGE, TOLL PLAZAS, OR ACTIVE TRAFFIC AREAS UNDER OR AROUND THE BRIDGE.
4. THE CONTRACTOR SHALL TAKE NOTE THAT THE AREA ADJACENT TO THE WORK AREA IS USED FOR ACTIVE TRAFFIC. THE CONTRACTOR SHALL PLAN CONSTRUCTION OPERATIONS SO THAT THE TRAFFIC IS NOT AFFECTED.
5. WHEN THE CONTRACTOR PERFORMS WORK AT NIGHT, THE WORK SITE SHALL BE ILLUMINATED TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR IS TO SUPPLY A LIGHTING PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL.
6. FIXED HAZARDS CURRENTLY PROTECTED SHALL REMAIN PROTECTED AT ALL TIMES. AT LOCATIONS WHERE EXISTING GUIDE RAIL OR CONCRETE BARRIER IS TO BE REMOVED, THE WORK SHALL BE PERFORMED IN A TIMELY MANNER TO MINIMIZE THE TIME THE AREA IS WITHOUT GUIDE RAIL OR CONCRETE BARRIER (PERMANENT OR TEMPORARY). THE WORK SHALL BE FURTHER RESTRICTED AS FOLLOWS:
A. DRUMS SHALL BE INSTALLED AT INTERVALS TO BE APPROVED BY THE ENGINEER THROUGHOUT THE WORK AREA WHEN GUIDE RAIL OR CONCRETE BARRIER IS REMOVED.

IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS ACTING AS AN ENGINEER TO ALTER ANY ITEM IN ANY WAY IF AN ITEM BEARING THE SEAL OF AN ARCHITECT OR ENGINEER IS ALTERED. THE CONTRACTOR SHALL SIGN AND DATE THE DRAWING AND THE SIGNATURE AND THE DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

Table with 2 columns: MARK, DATE. Row 1: A, 03/21/2024. Row 2: B, 03/21/2024.

Table with 4 columns: DESIGNED BY, DATE, WIN BY, SOLICITATION NO., SUBMITTED BY, CONTRACT NO., FILE NAME, PLOTTED BY, PLOT DATE, SIZE. Values include M. VELLICEVICA, 03/21/2024, B.M., WSP CANADA, 03/21/2024, 22" X 34".

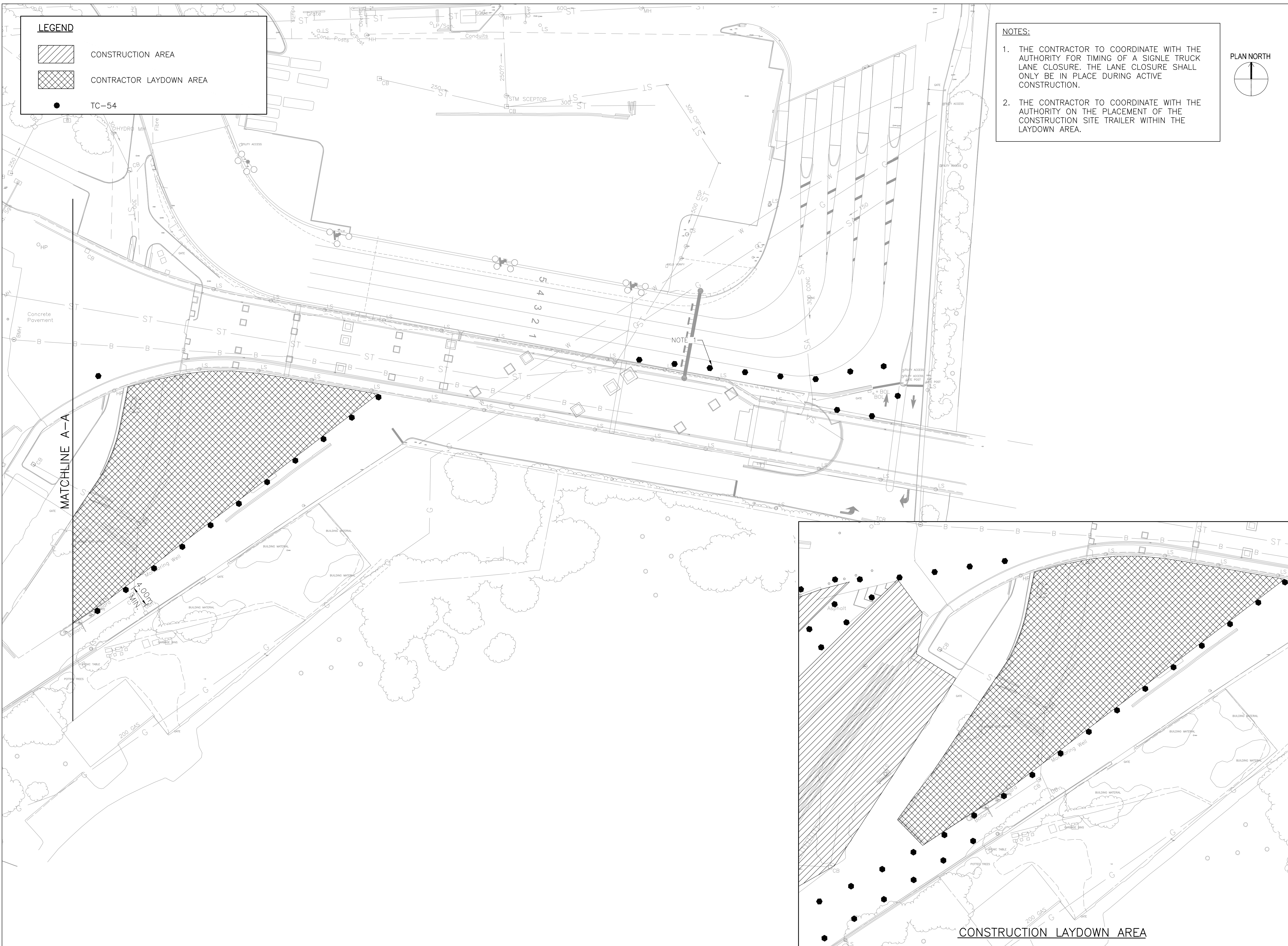
Buffalo and Fort Erie Public Bridge Authority logo and WSP logo with contact information.

Buffalo and Fort Erie Public Bridge Authority logo, Project# PARE 3.0, General Notes, and Peace Bridge logo.

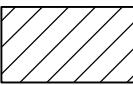


DRAWING NUMBER G-3

DISCLAIMER

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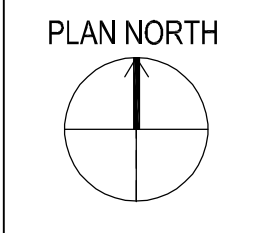


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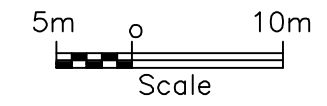
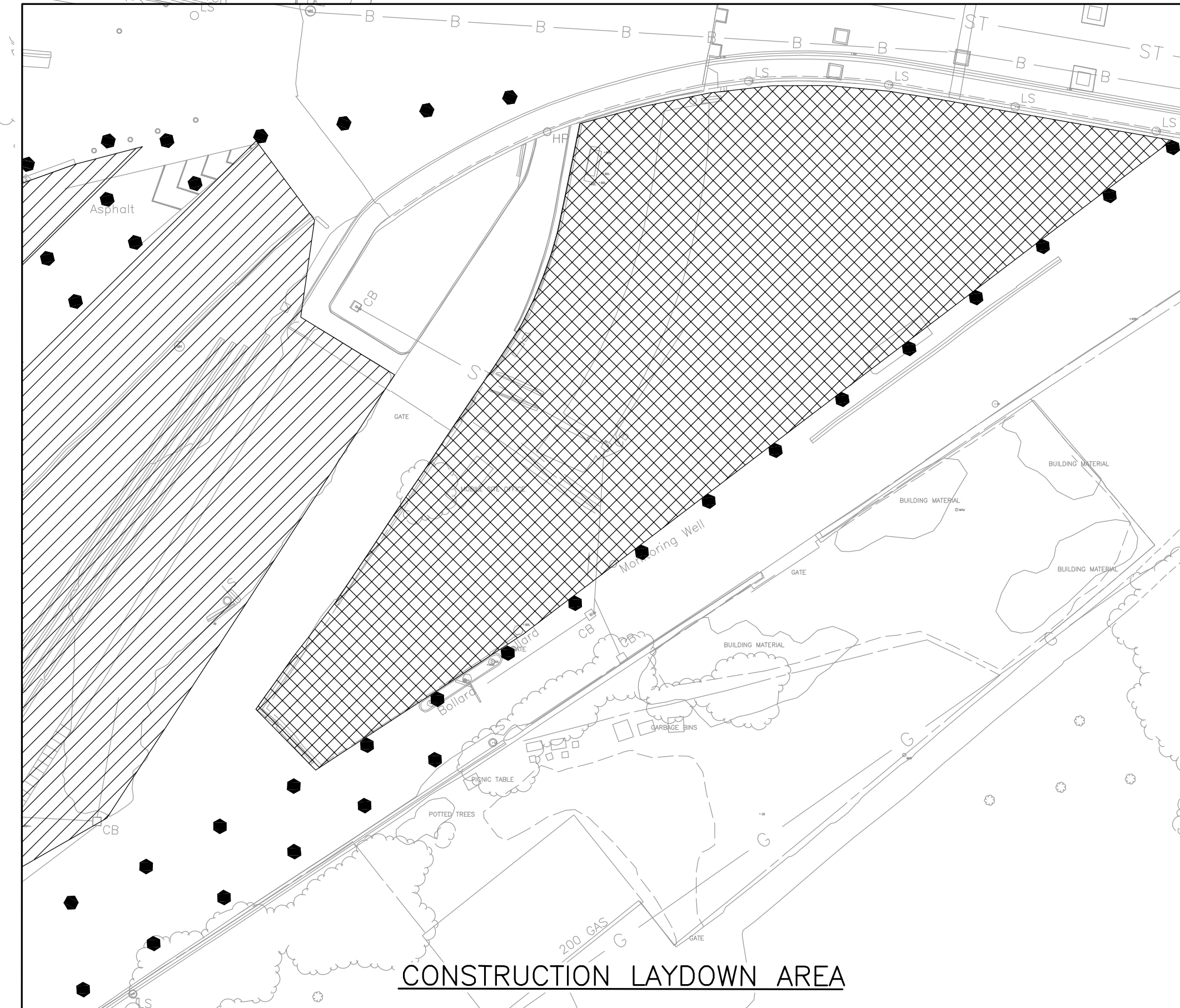
-  CONSTRUCTION AREA
-  CONTRACTOR LAYDOWN AREA
-  TC-54

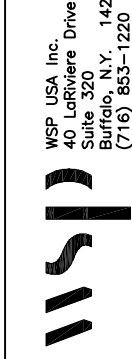
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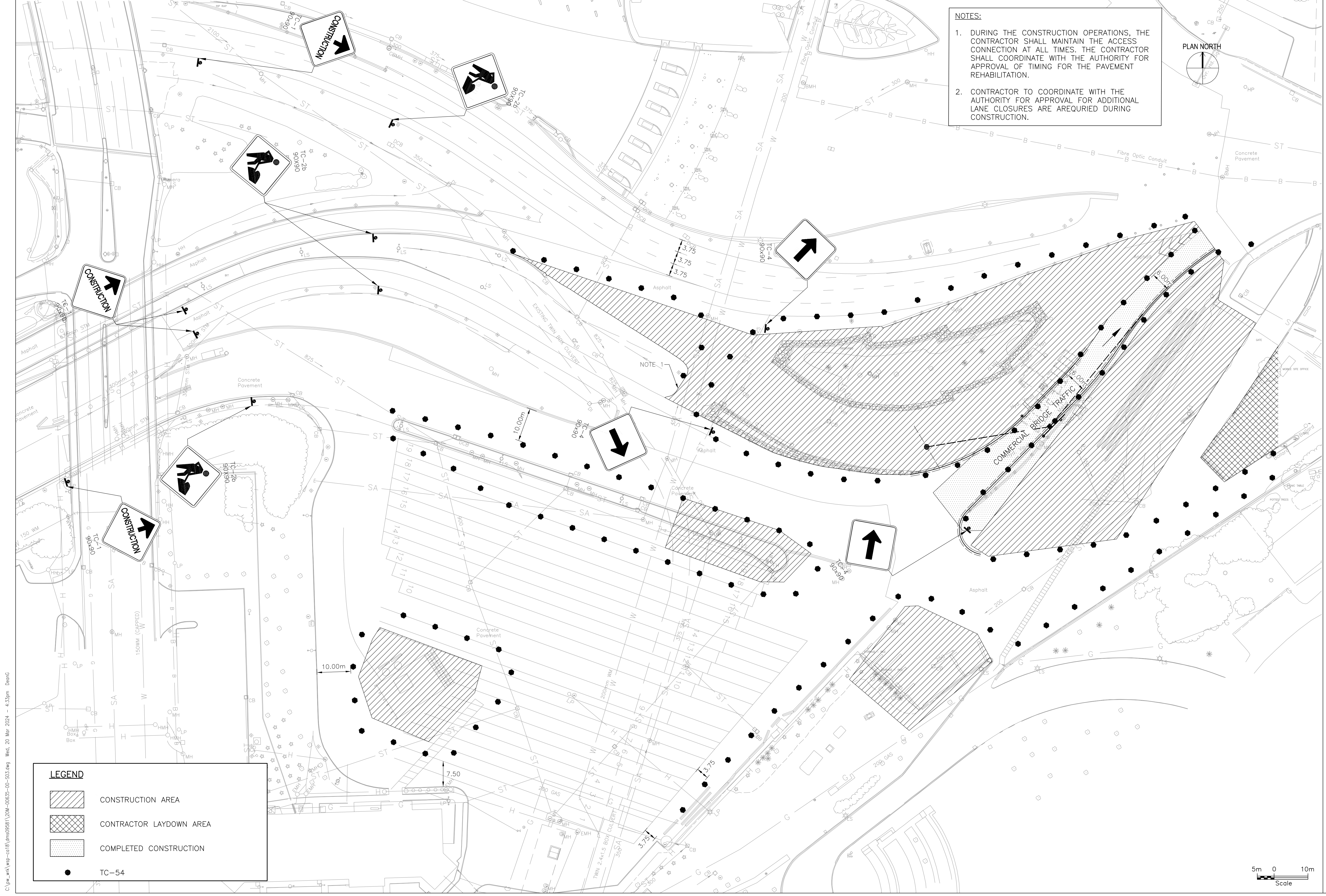
1. THE CONTRACTOR TO COORDINATE WITH THE AUTHORITY FOR TIMING OF A SINGLE TRUCK LANE CLOSURE. THE LANE CLOSURE SHALL ONLY BE IN PLACE DURING ACTIVE CONSTRUCTION.
2. THE CONTRACTOR TO COORDINATE WITH THE AUTHORITY ON THE PLACEMENT OF THE CONSTRUCTION SITE TRAILER WITHIN THE LAYDOWN AREA.



MATCHLINE A-A

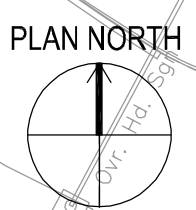


<p>BUFFALO AND FORT ERIE PUBLIC BRIDGE AUTHORITY</p> <p>PROJECT# PARE 3.0</p> <p>STAGING SITE PLAN</p> <p>STAGE 1</p>		 <p>wsp</p> <p>WSP USA, Inc. 20 J. J. Moore Drive Buffalo, N.Y. 14202 (716) 835-1200</p>	
<p>DESIGNED BY: M. VELLICEVIC</p> <p>WIN BY: M.V.</p> <p>SUBMITTED BY: WSP CANADA</p> <p>FILE NAME: <small>0:\work\00635-00\20M-00635-00-502.dwg</small></p> <p>SIZE: 22' X 34'</p>	<p>DATE: 03/21/2024</p> <p>SOLICITATION NO.:</p> <p>CONTRACT NO.:</p> <p>ISSUED FOR BID (NOT FOR CONST.):</p>	<p>PLOTTED BY: B.M.</p> <p>DATE: 03/21/2024</p>	<p>DESCRIPTION:</p> <p>MARK:</p> <p>DATE:</p> <p>APPR:</p>
<p>IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS ACTING AS AN ENGINEER OR ARCHITECT TO ALTER OR REPRODUCE THIS DRAWING OR ANY PART THEREOF WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER OR ARCHITECT WHOSE SEAL AND SIGNATURE ARE ON THIS DRAWING. THE SIGNATURE AND THE DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.</p>			
<p>DISCLAIMER</p>			



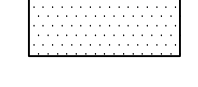



NOTES:

1. DURING THE CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL MAINTAIN THE ACCESS CONNECTION AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE WITH THE AUTHORITY FOR APPROVAL OF TIMING FOR THE PAVEMENT REHABILITATION.
2. CONTRACTOR TO COORDINATE WITH THE AUTHORITY FOR APPROVAL FOR ADDITIONAL LANE CLOSURES ARE AREQUIRED DURING CONSTRUCTION.



LEGEND


-  CONSTRUCTION AREA
-  CONTRACTOR LAYDOWN AREA
-  COMPLETED CONSTRUCTION
-  TC-54

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECT SUPERVISION OF A LICENSED ARCHITECT OR ENGINEER, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE SEAL OF AN ARCHITECT OR ENGINEER IS ALTERED. THE SEAL AND THE NOTATION ALTERED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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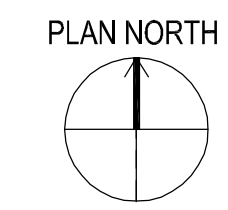
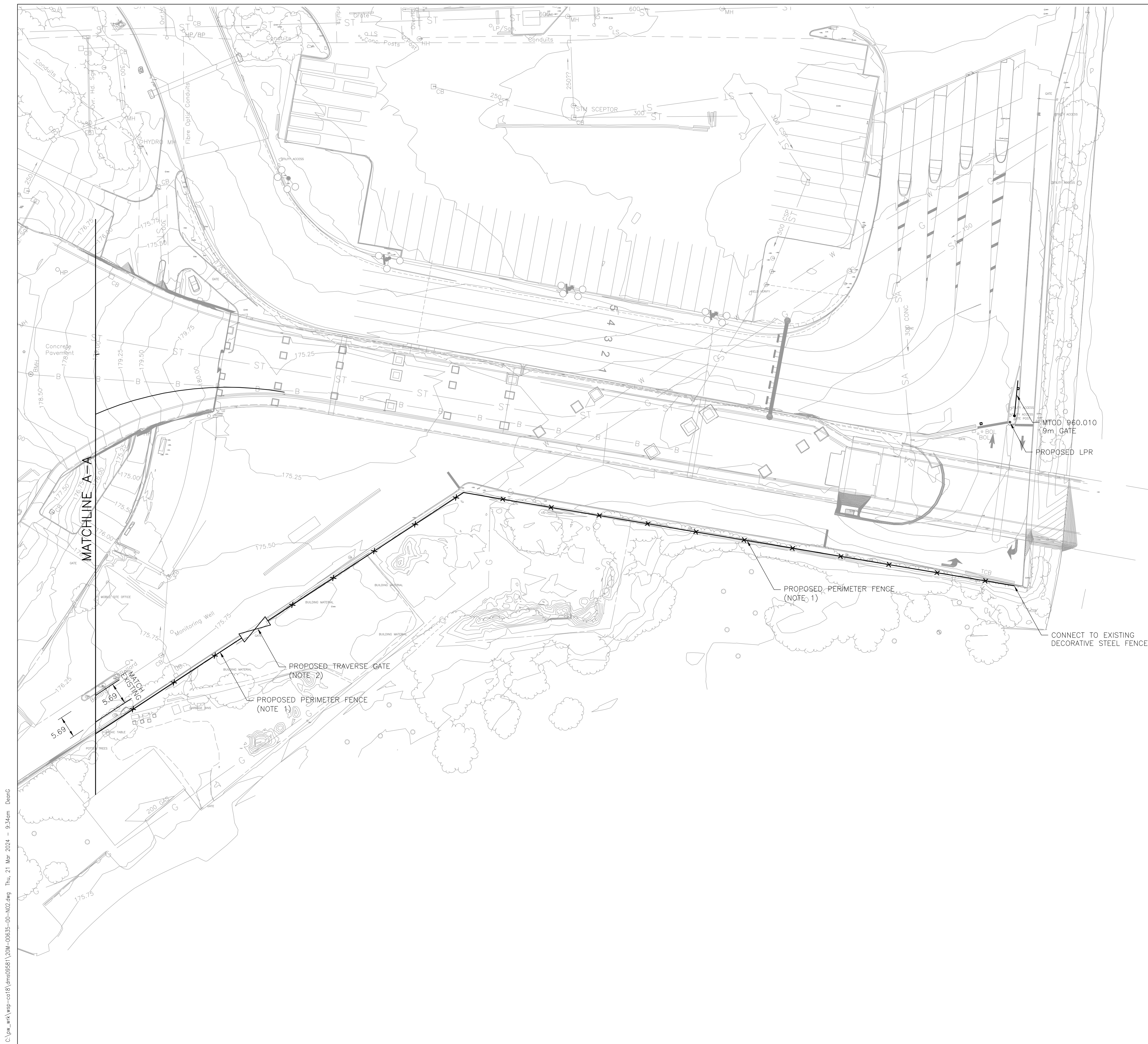
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DRAWN BY: B.M.	SOLICITATION NO.:
SUBMITTED BY: WSP CANADA	CONTRACT NO.:
FILE NAME: p:\projects\2024\wsp\constr\wsp\staging\staging2\staging2.dwg	PLotted BY: B.M.
SIZE: 22" X 34"	PLotted DATE: 03/21/2024

BUFFALO AND FORT ERIE PUBLIC BRIDGE AUTHORITY
 PROJECT# PARE 3.0
STAGING SITE PLAN
STAGE 2

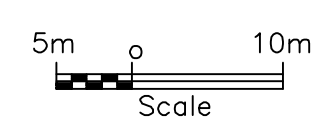


DRAWING NUMBER
S-3

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- NOTES:**
1. AMERISTAR AEGIS II OR EQUIVALENT WITH APPROVAL FROM THE AUTHORITY
 2. AMERISTAR TRAVERSE GATE WITH 8.0m OPENING MATCHING THE STYLE OF ADJACENT AEGIS II FENCE (OR EQUIVALENT WITH APPROVAL FROM THE AUTHORITY).



DESIGNED BY: M. VELLICIC		DATE: 03/21/2024	
WIN BY: M.V.		SOLICITATION NO.: 	
SUBMITTED BY: WSP CANADA		CONTRACT NO.: 	
FILE NAME: 		ISSUED FOR: 	
SIZE: 22' X 34'		DATE: 03/21/2024	
PLOTTED BY: B.M.		DESCRIPTION: 	
PLLOT DATE: 03/21/2024		APPR: 	
DISCLAIMER: 			

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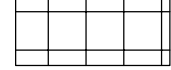
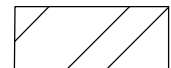
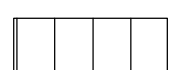

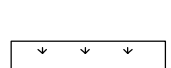
BUFFALO AND FORT ERIE PUBLIC BRIDGE AUTHORITY
 PROJECT# PARE 3.0
 NEW CONSTRUCTION

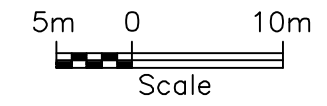
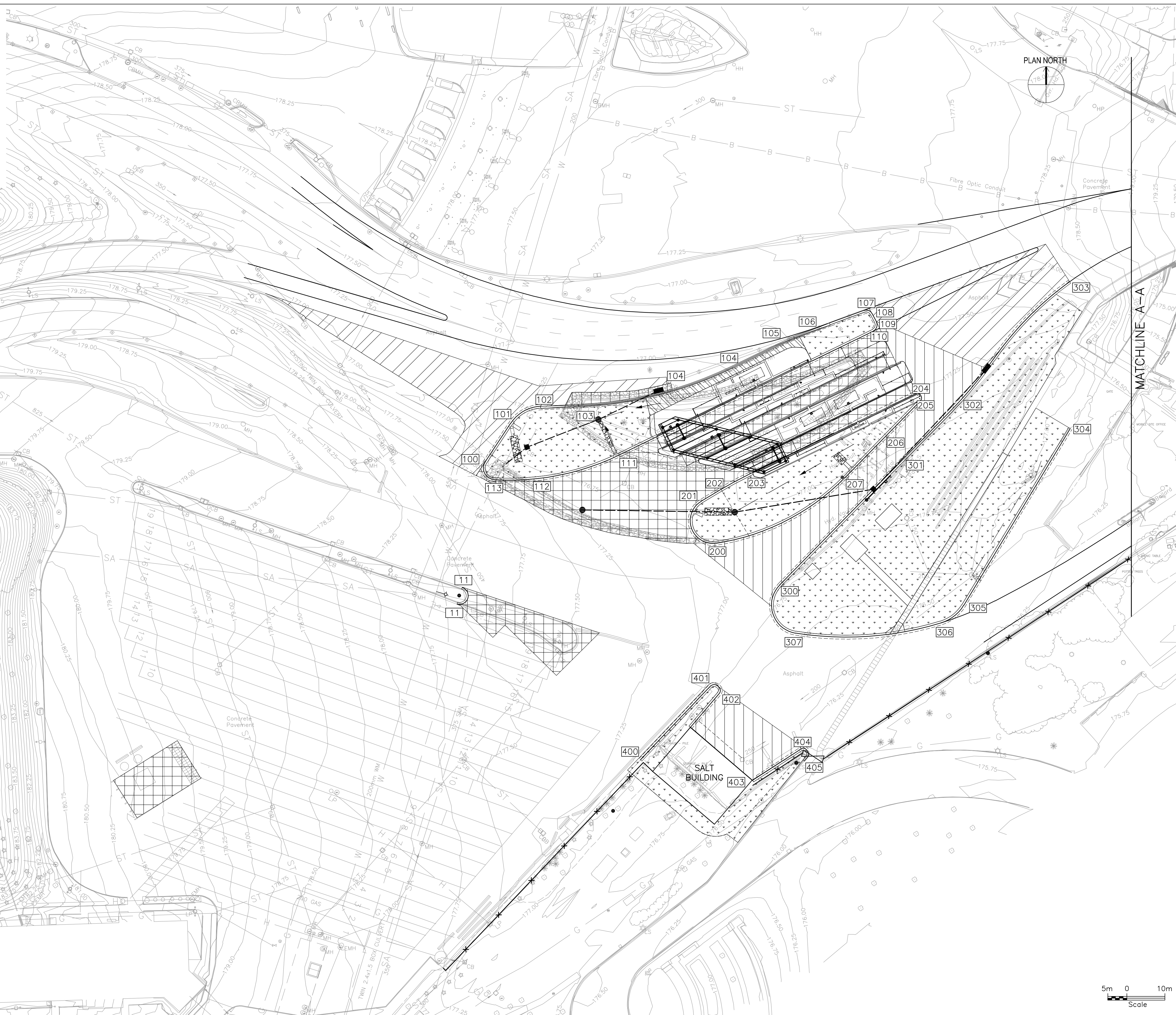
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LEGEND

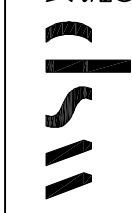
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-  ASPHALT REPLACEMENT 210mm
-  FULL DEPTH ASPHALT
-  50mm ASPHALT 150mm GRANULAR 'A'
-  GRASS SEEDING



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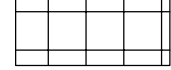

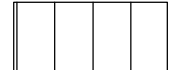
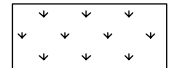
BUFFALO AND FORT ERIE PUBLIC BRIDGE AUTHORITY

 WSP USA, Inc.
 10000 Erie Blvd E., Suite 100
 Buffalo, NY 14203
 (716) 835-1200

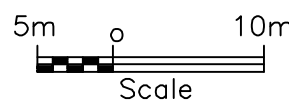
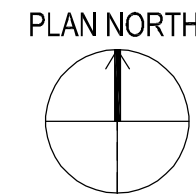
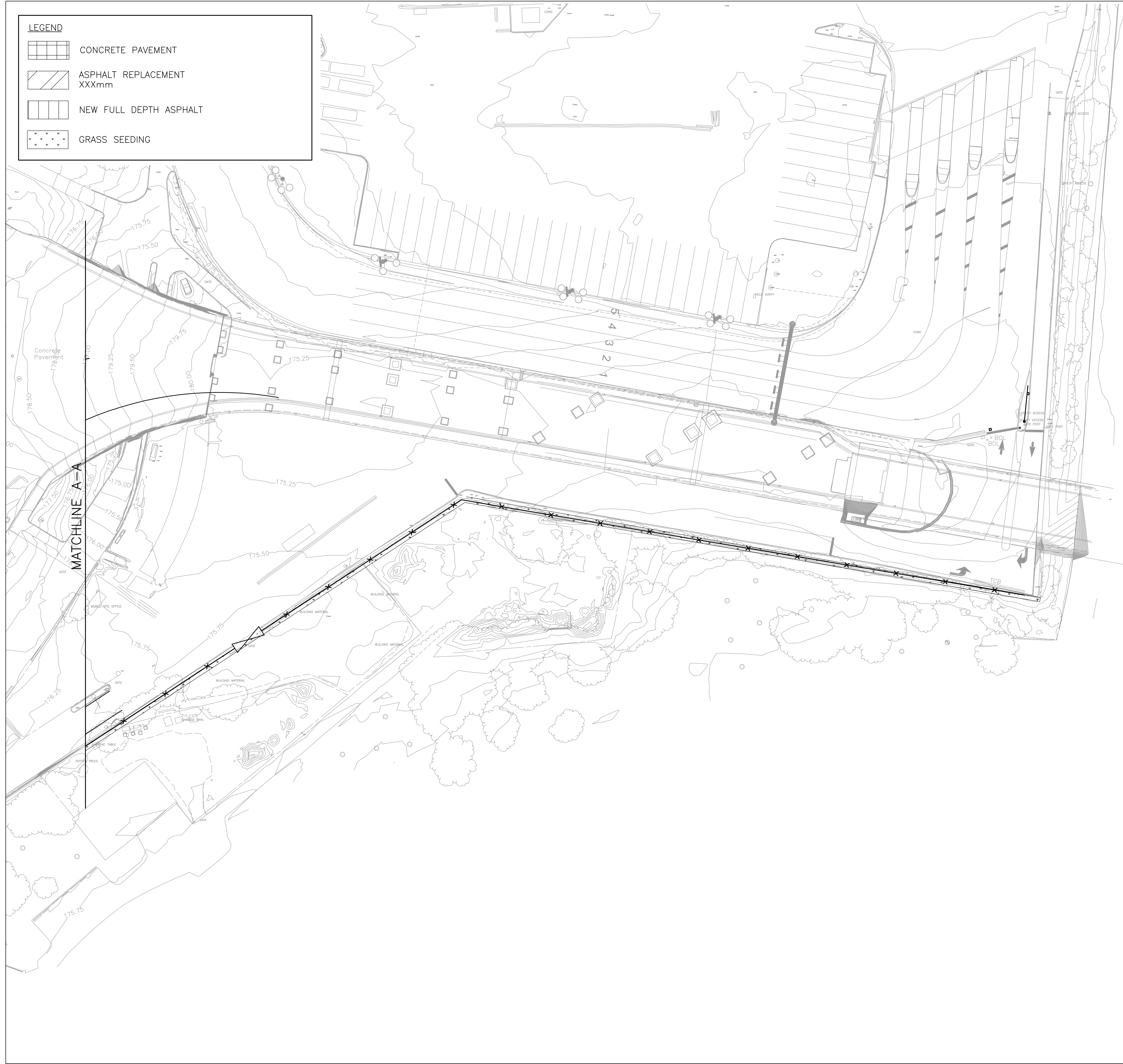
BUFFALO AND FORT ERIE PUBLIC BRIDGE AUTHORITY
 PROJECT# PARE 3.0
NEW CONSTRUCTION PAVEMENTS STRUCTURES

 CROSSING PATHS BUILDING FUTURES
 THE PEACHTREE

DRAWING NUMBER
N-3

LEGEND

-  CONCRETE PAVEMENT
-  ASPHALT REPLACEMENT
XXXmm
-  NEW FULL DEPTH ASPHALT
-  GRASS SEEDING



**BUFFALO AND FORT ERIE
 BRIDGE AUTHORITY**
 PROJECT# PARE 3.0
**NEW CONSTRUCTION
 PAVEMENTS
 STRUCTURES**



WSP
WSP USA, Inc.
 30 J. J. Moore Drive
 Buffalo, N.Y. 14202
 (716) 835-1200

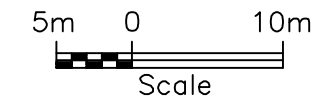
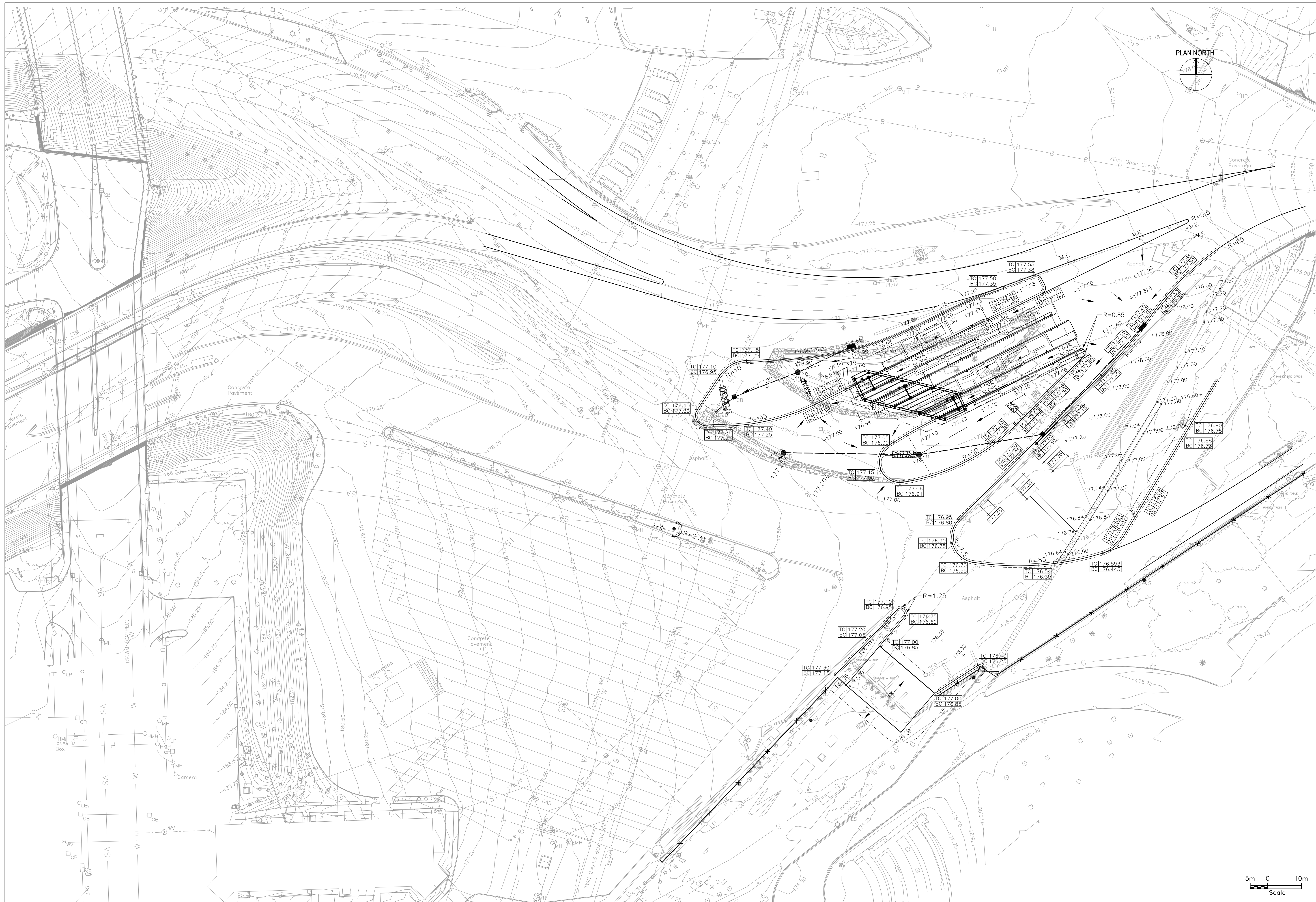
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SUBMITTED BY: WSP CANADA
FILE NAME: c:\p\m\ark\p\p-c\18\m\05581\204-00635-00-105.dwg
SIZE: 22' X 34" **B.M.**

MARK	DESCRIPTION	DATE	APPR
A	ISSUED FOR BID (NOT FOR CONST.)	03/21/2024	

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING AS AN ENGINEER, TO ALTER IN ANY WAY, IF AN ITEM BEARING THE SEAL OF AN ARCHITECT OR ENGINEER IS ALTERED, THE ORIGINAL DRAWING OR SPECIFICATION, OR ANY COPY THEREOF, THE SEAL AND THE NOTATION ALTERED, FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

DISCLAIMER

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IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS ACTING AS AN ENGINEER, TO ALTER OR ATTEMPT IN ANY WAY, IF AN ITEM BEARING THE SEAL OF AN ARCHITECT OR ENGINEER IS ALTERED, THE SEAL OR THE SIGNATURE OF THE ARCHITECT OR ENGINEER, OR THE SIGNATURE AND THE DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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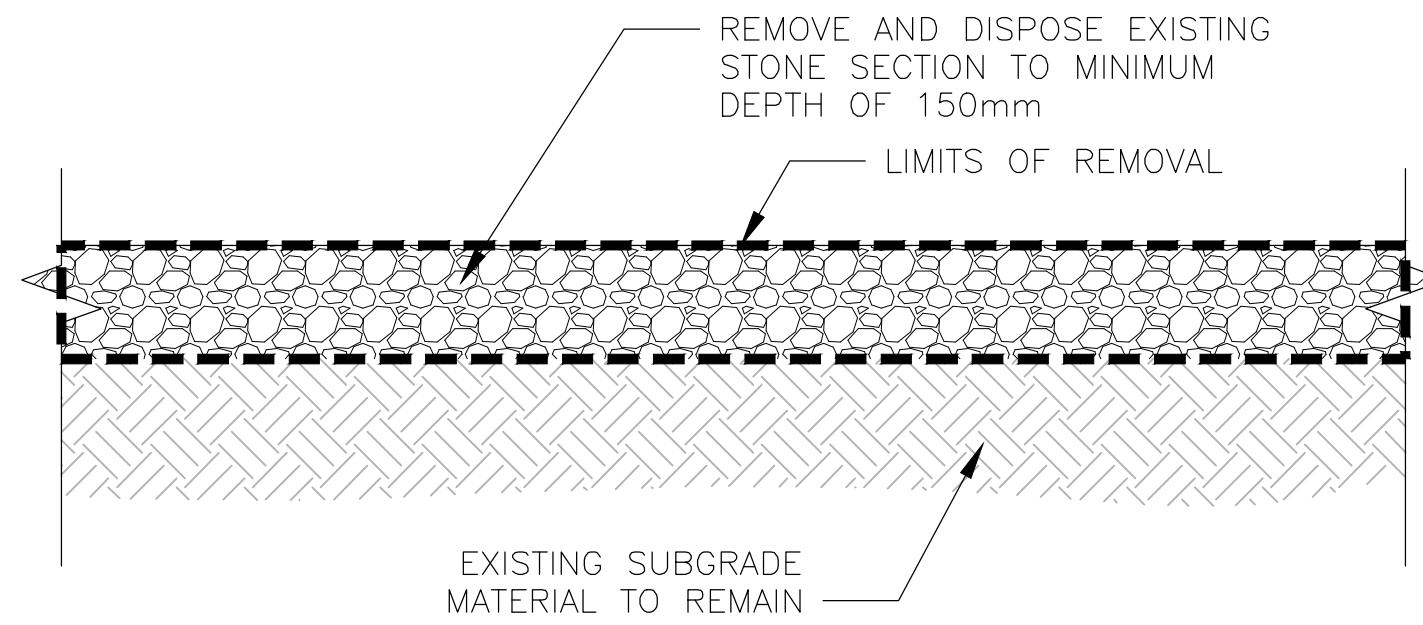
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SUBMITTED BY: WSP CANADA	CONTRACT NO.:
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	DATE: 03/21/2024

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 WSP USA, Inc.
 1000 Lakeshore Drive
 Buffalo, N.Y. 14202
 (716) 835-1200

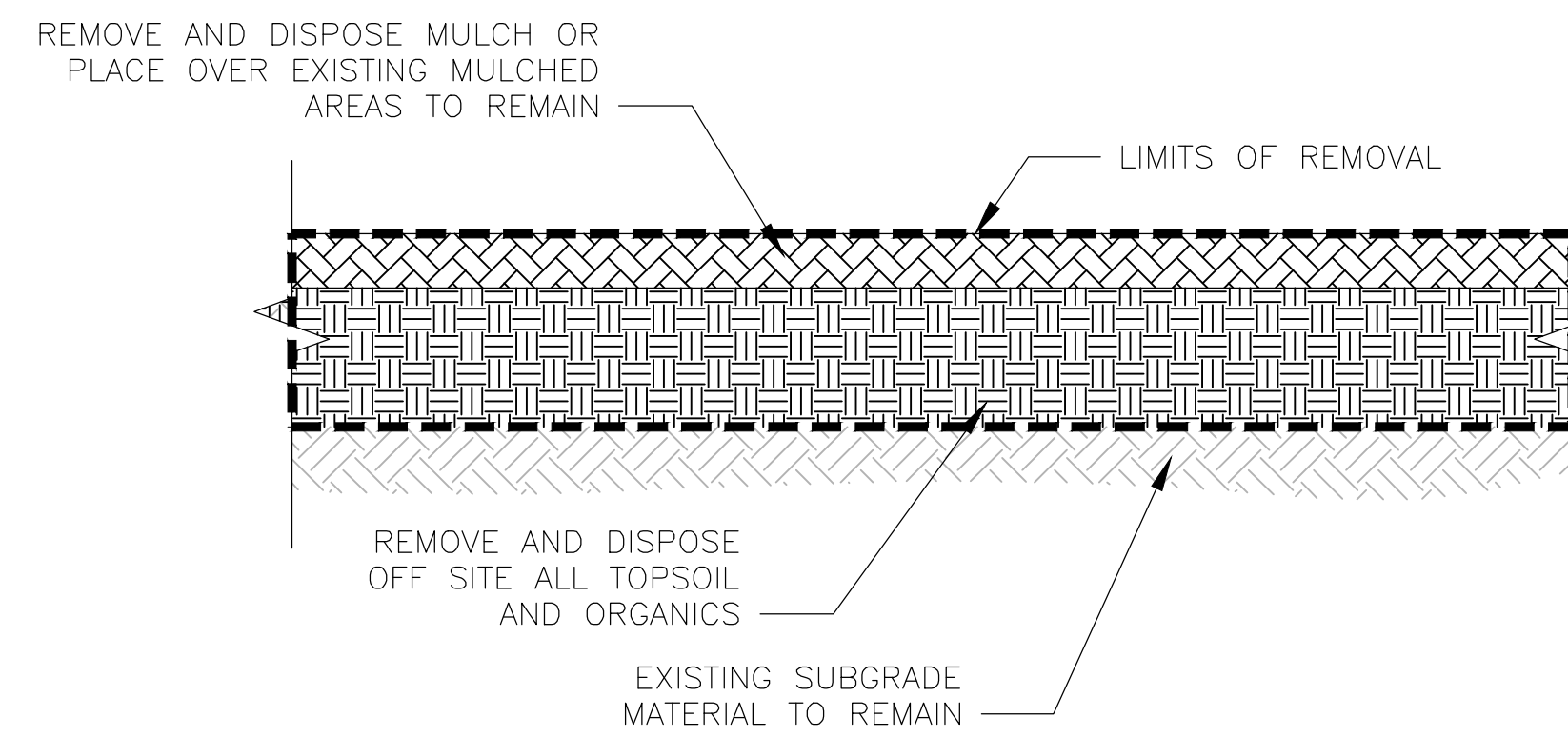
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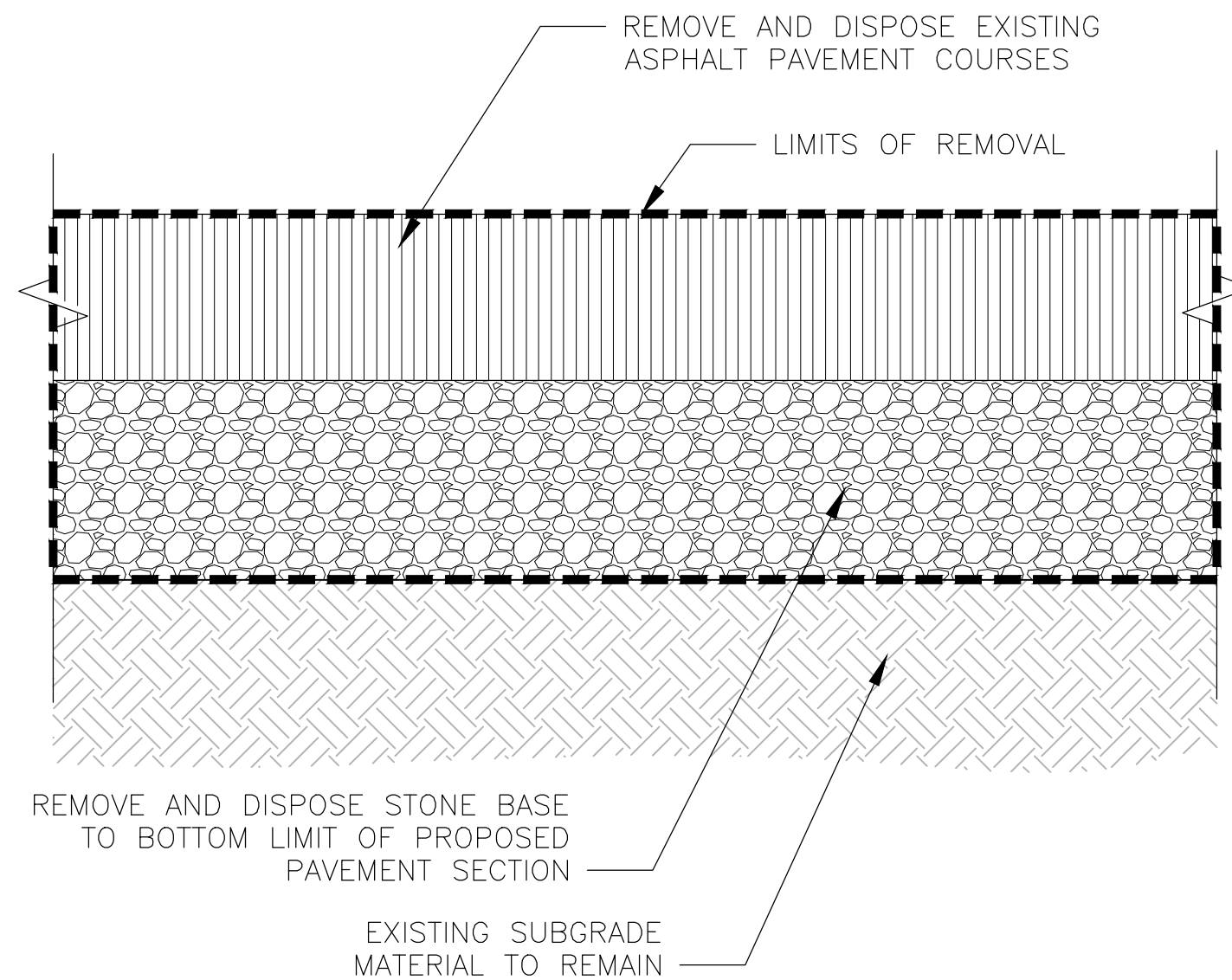
STONE SECTION REMOVAL DETAIL

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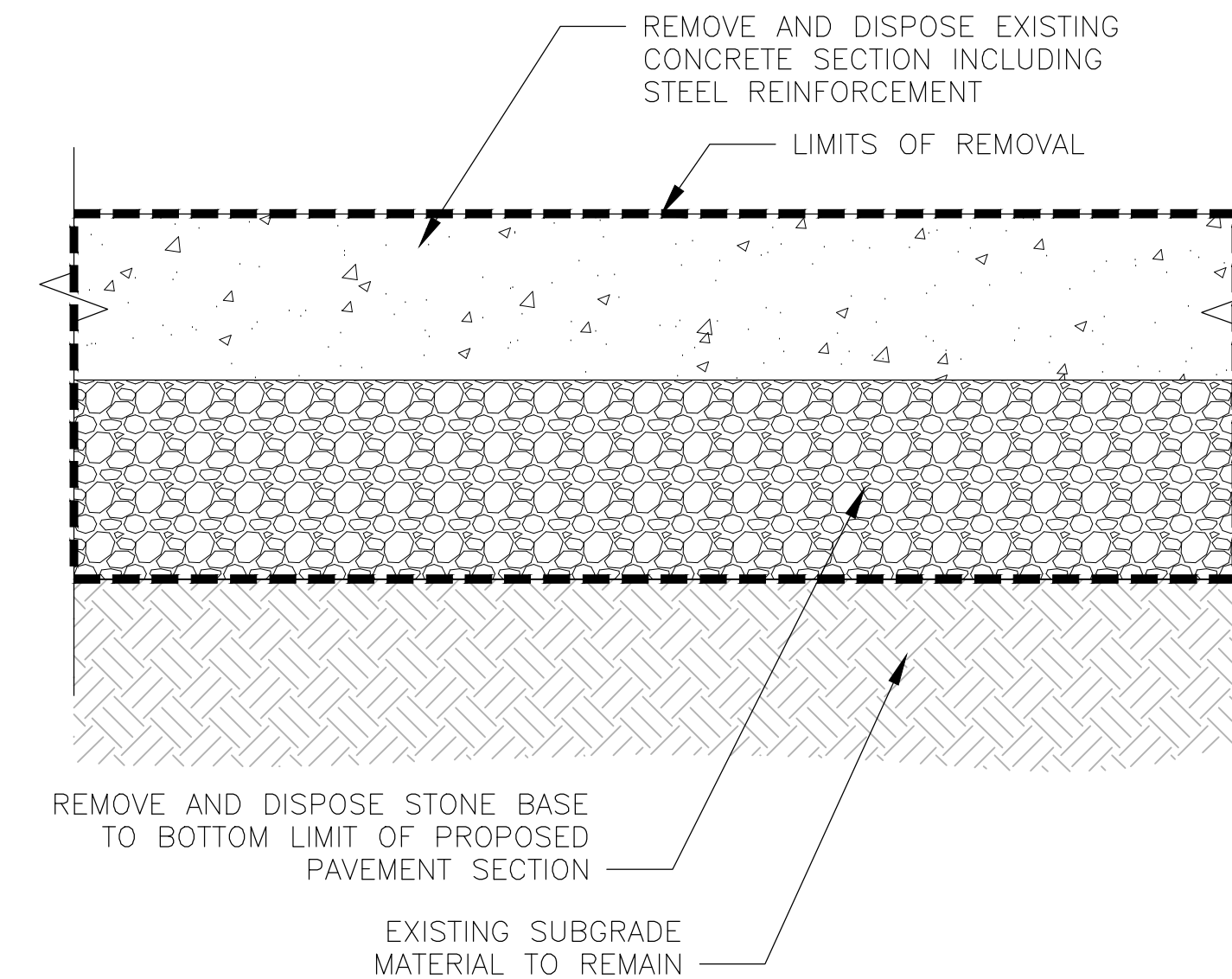
LANDSCAPED AREA REMOVAL DETAIL

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CONCRETE PAVEMENT SECTION REMOVAL DETAIL

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IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS ACTING AS AN ARCHITECT OR ENGINEER TO ALTER AN ITEM IN ANY WAY IF AN ITEM BEARING THE SEAL OF AN ARCHITECT OR ENGINEER IS ALTERED. THE SEALING AND THE SEALING OF ANY ITEM BEARING THE SEAL OF AN ARCHITECT OR ENGINEER SHALL BE THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER. THE SEALING AND THE SEALING OF ANY ITEM BEARING THE SEAL OF AN ARCHITECT OR ENGINEER SHALL BE THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER. THE SEALING AND THE SEALING OF ANY ITEM BEARING THE SEAL OF AN ARCHITECT OR ENGINEER SHALL BE THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER.

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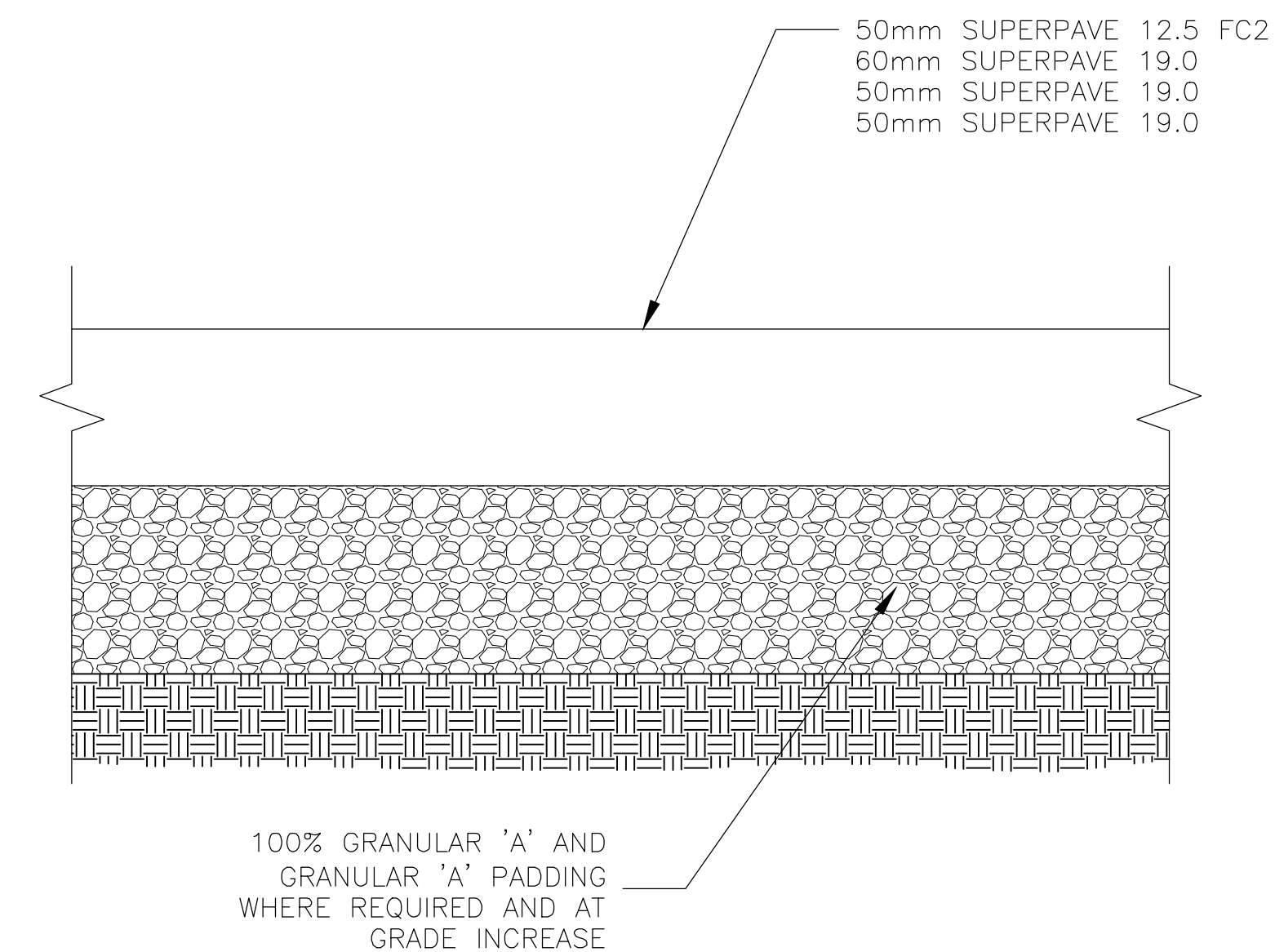
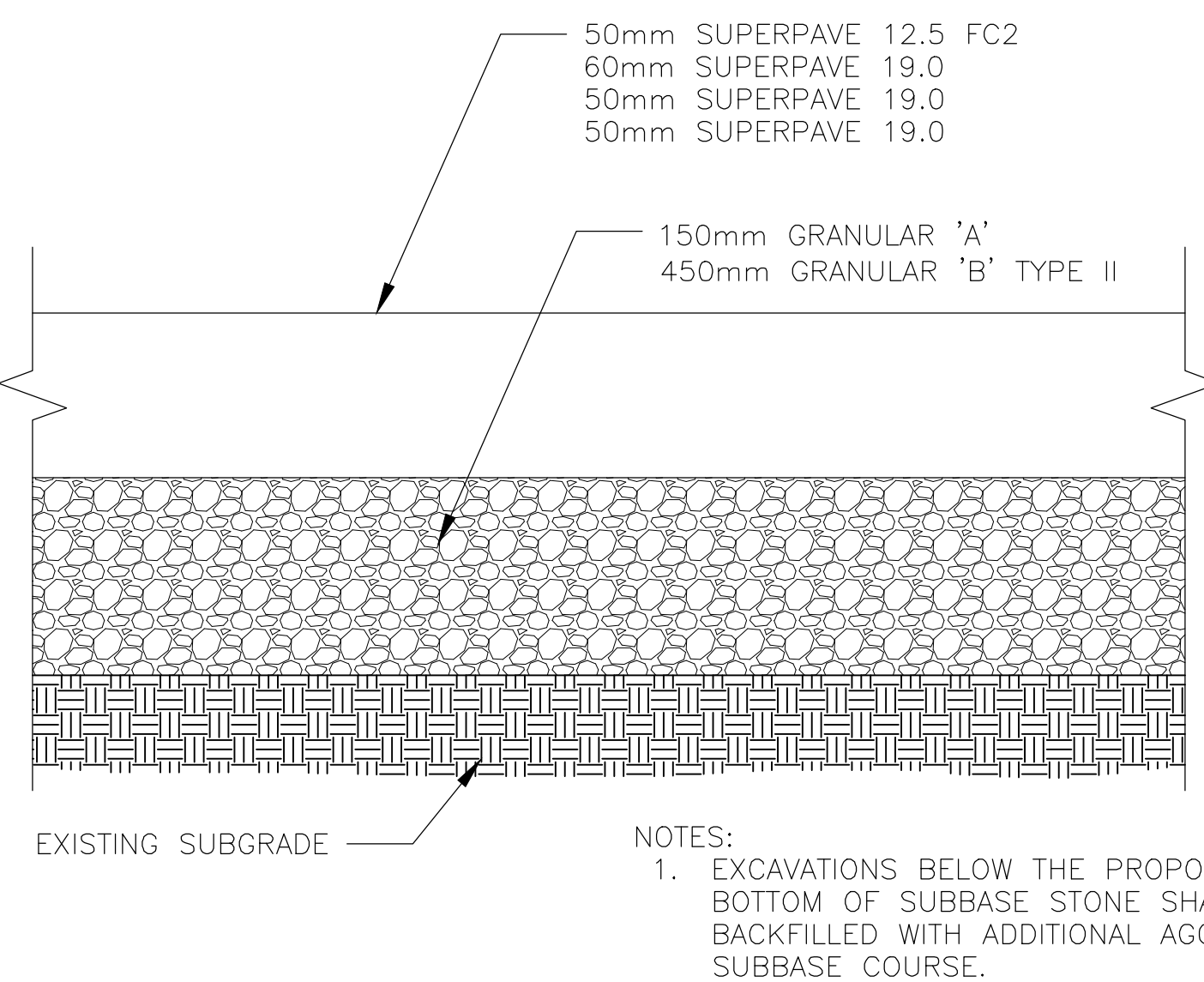
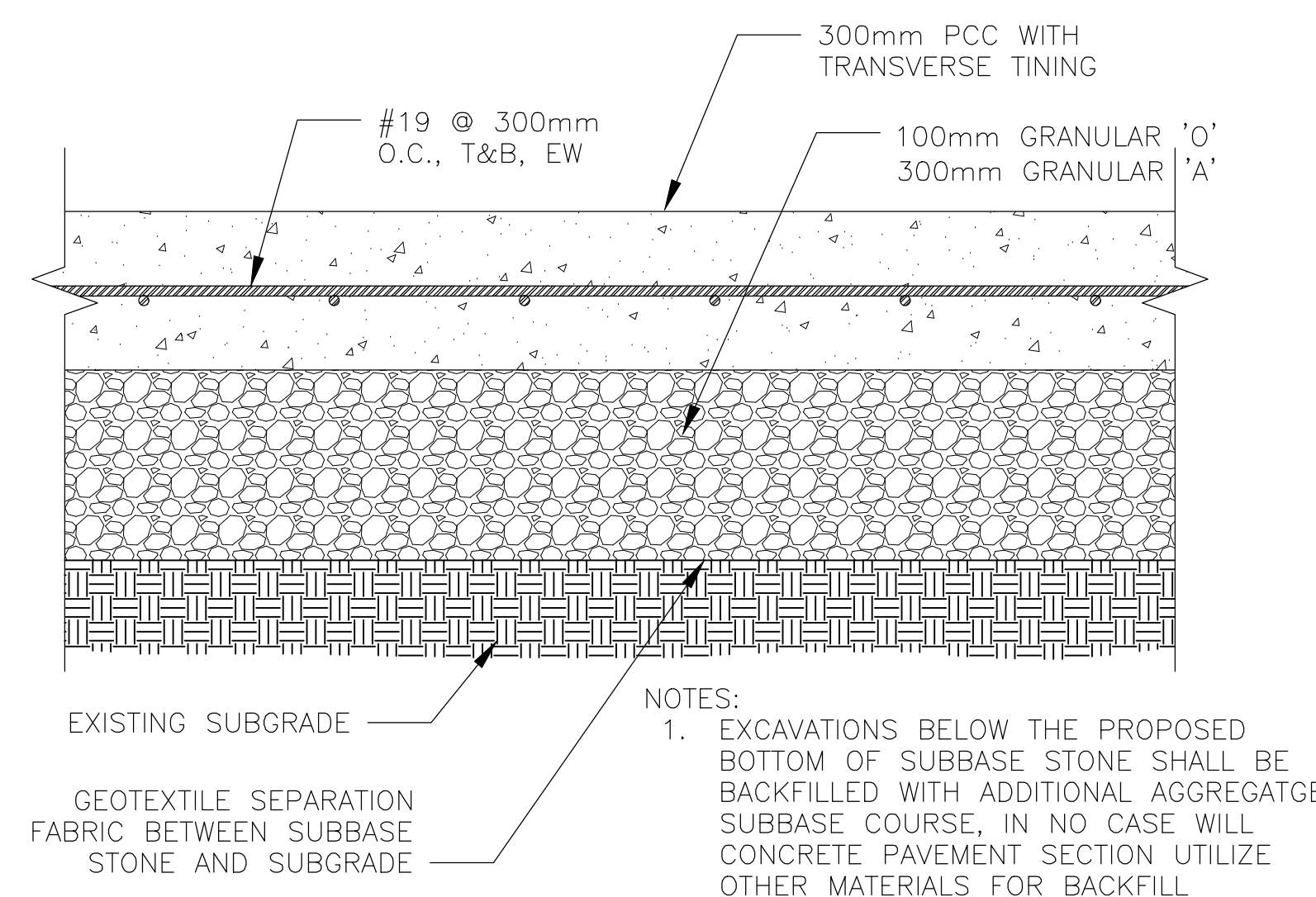
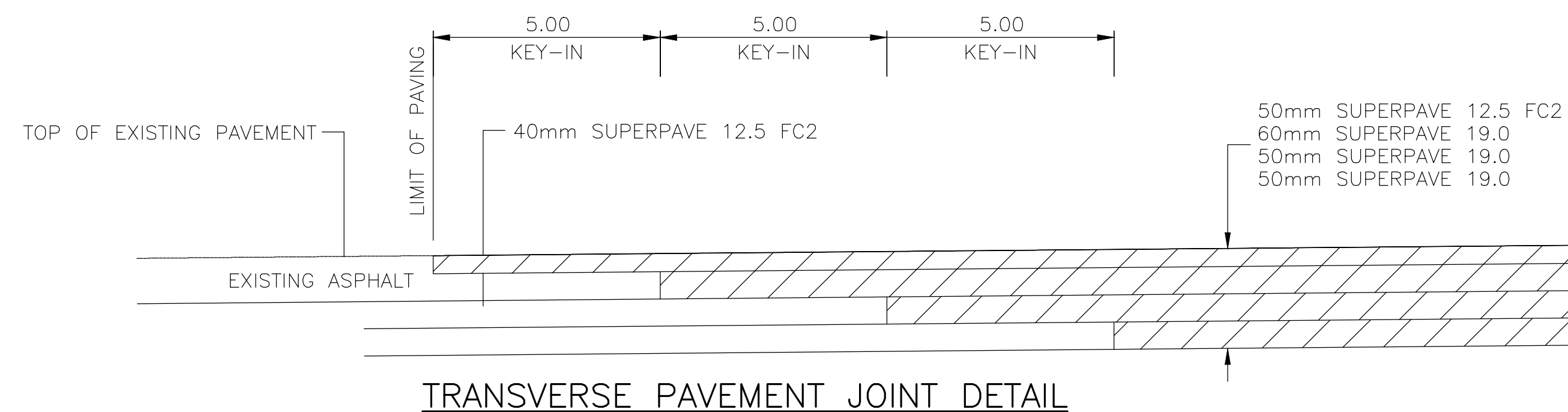
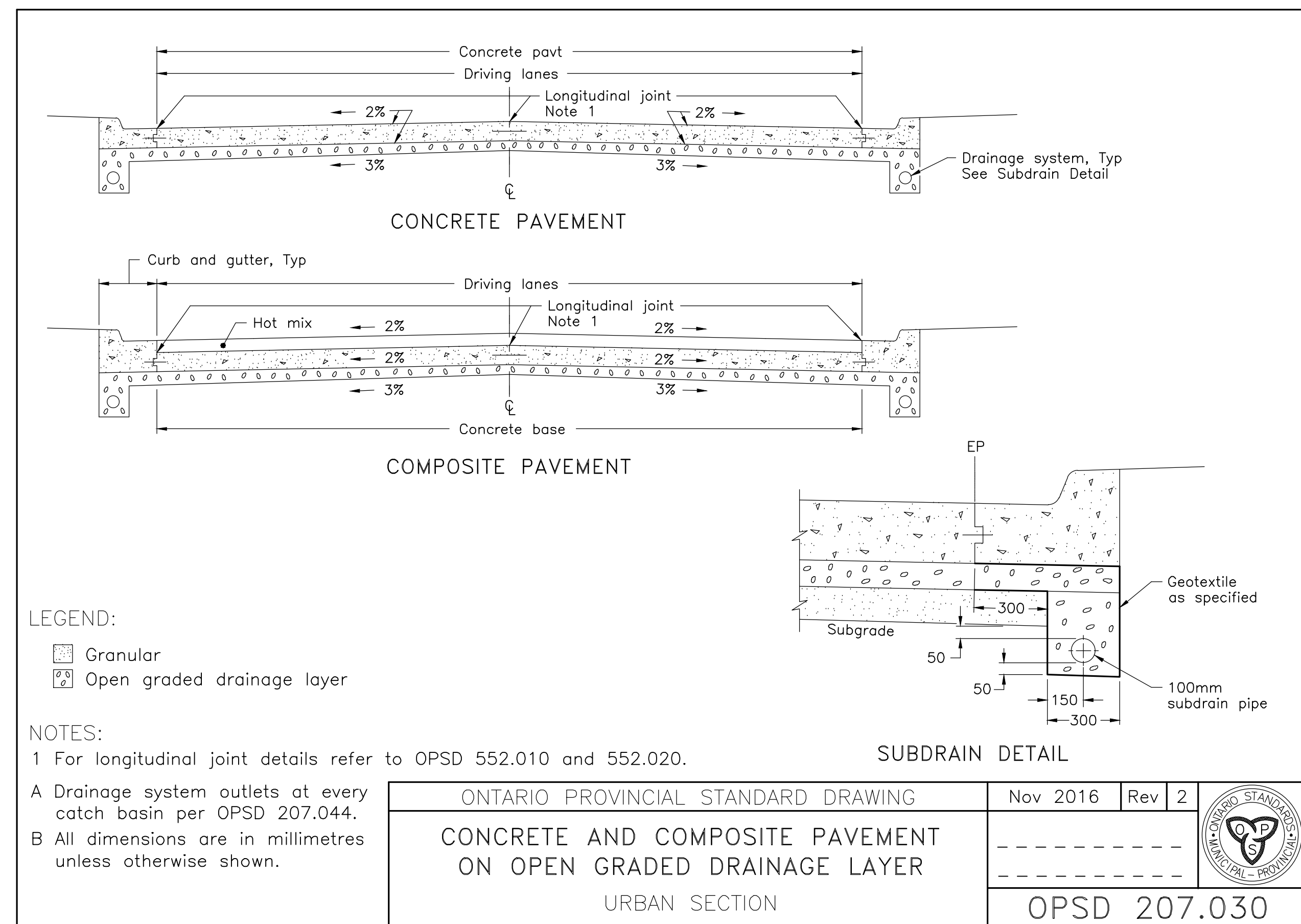
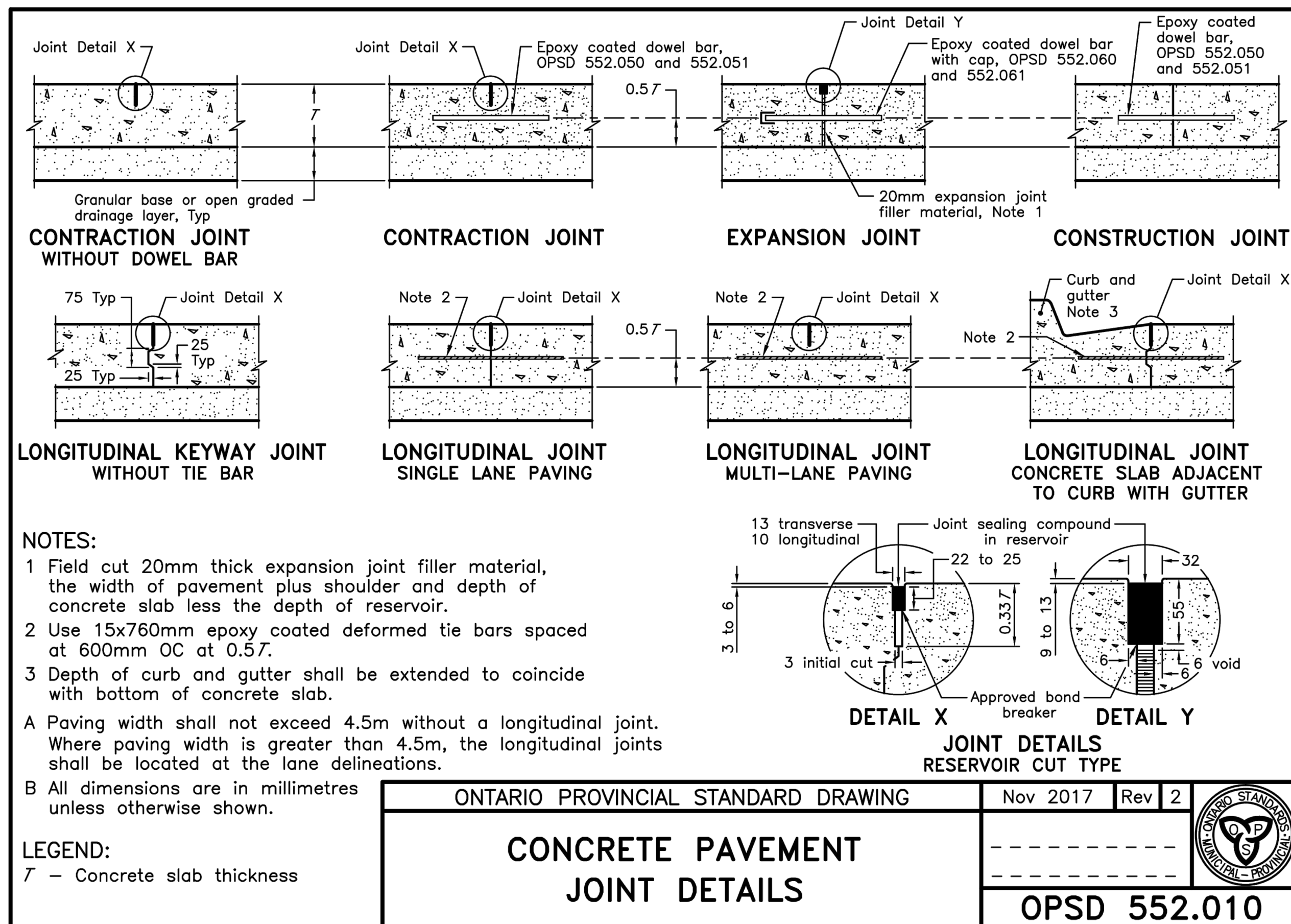
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DRAWN BY: M.V.	CONTRACT NO.:	
SUBMITTED BY: WSP CANADA	FILE NAME: pwr-co18-00635-00-102.dwg	CONTRACT NO.:
FILE NAME: pwr-co18-00635-00-102.dwg	SIZE: 22' X 34'	PLOTTED BY: B.M.
		DATE: 03/21/2024

WSP
 WSP USA, Inc.
 20 J. J. Moore Drive
 Buffalo, N.Y. 14202
 (716) 835-1200

**BUFFALO AND FORT ERIE
 BRIDGE AUTHORITY**
 PROJECT# PARE 3.0
REMOVAL DETAILS

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T-1

DISCLAIMER



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DESIGNED BY: M. VELLICEVIC
 DRAWN BY: M.V.
 CHECKED BY: M.V.
 SUBMITTED BY: WSP CANADA
 FILE NAME: C:\Users\mvellic\OneDrive\Documents\2024\03212024\03212024.dwg

DATE: 03/21/2024
 SOLICITATION NO.:
 CONTRACT NO.:
 PLOT DATE: 03/21/2024

ISSUED FOR BID (NOT FOR CONST.)
 DESCRIPTION:
 DATE: 03/21/2024
 APPR:

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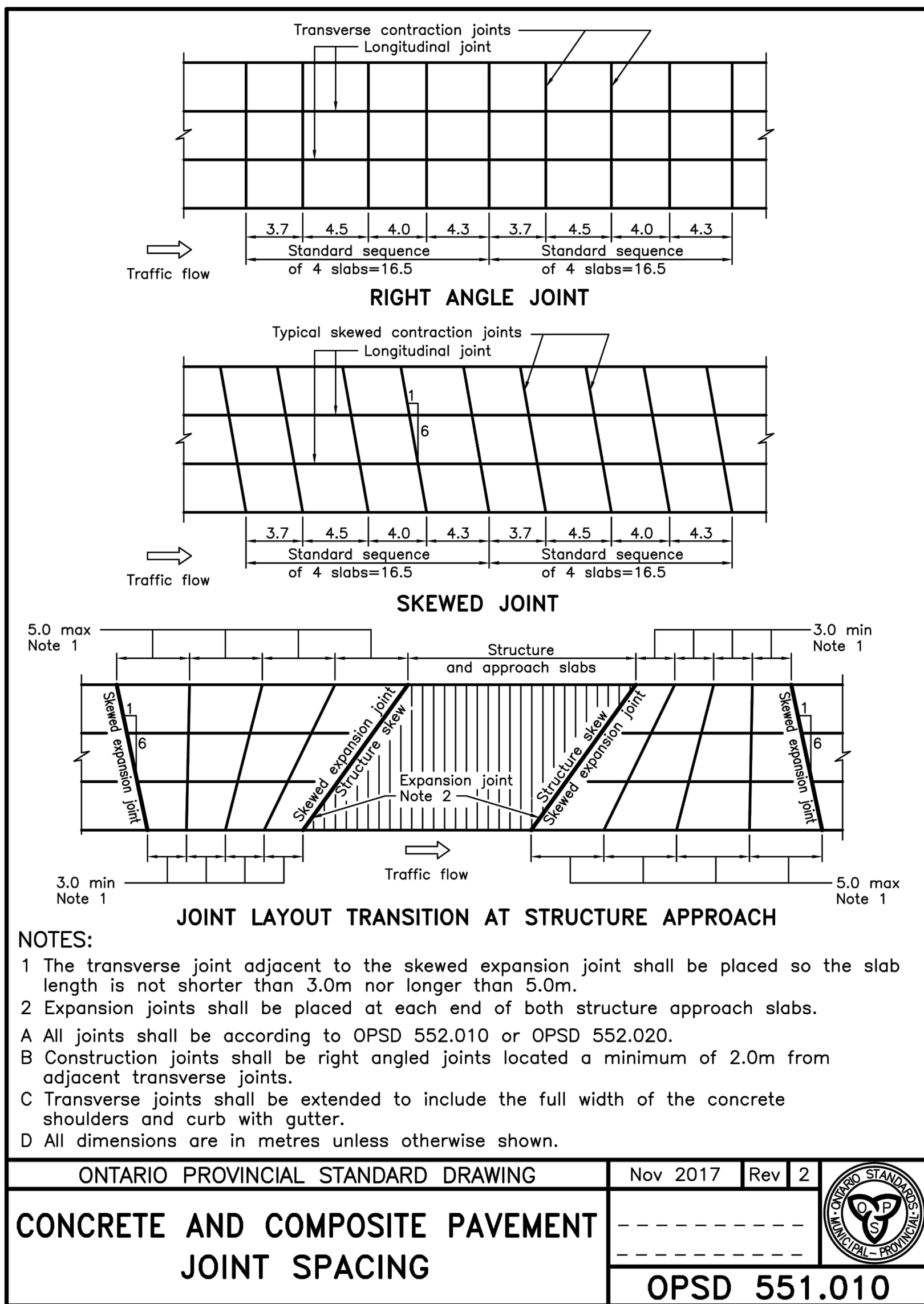
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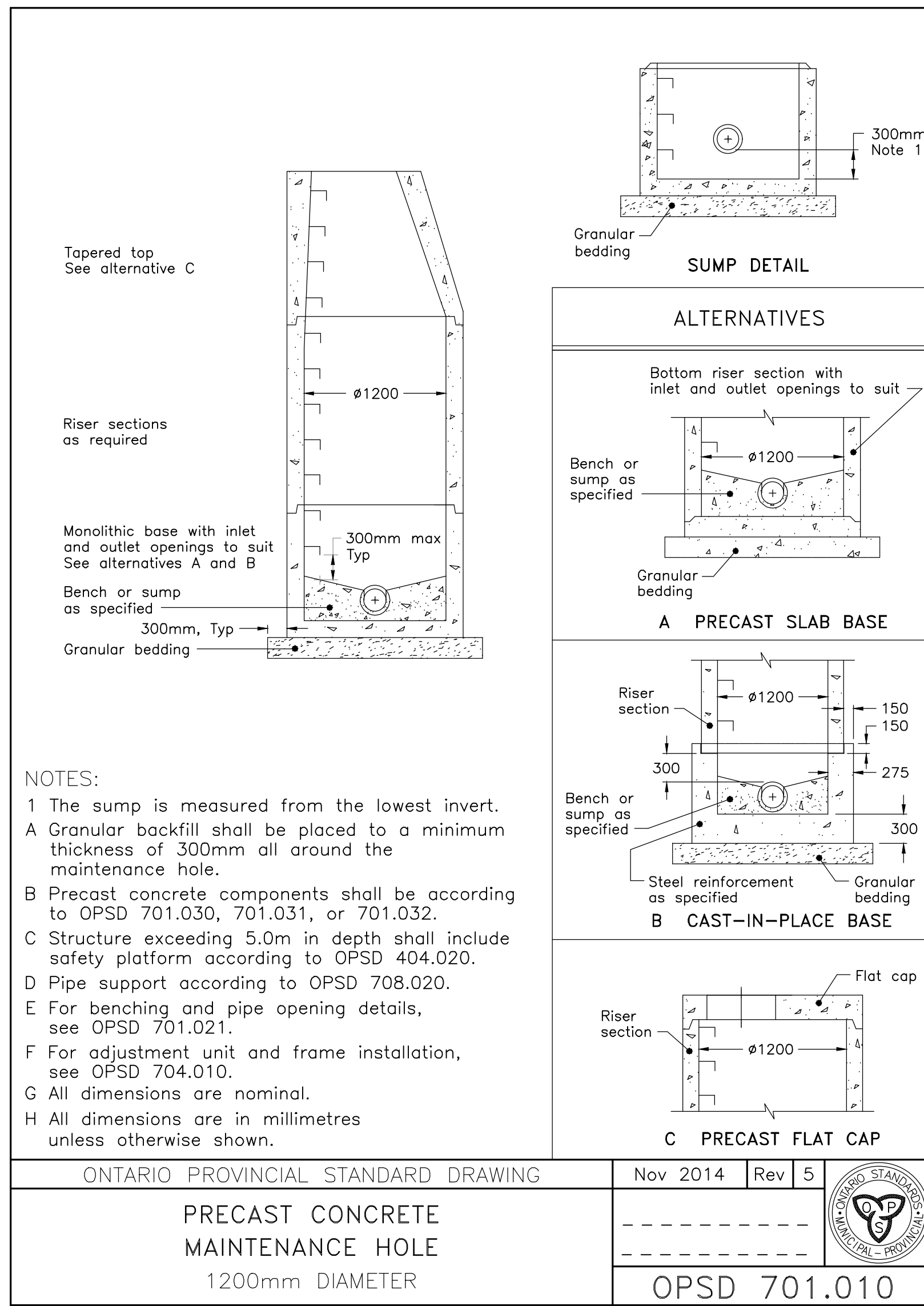
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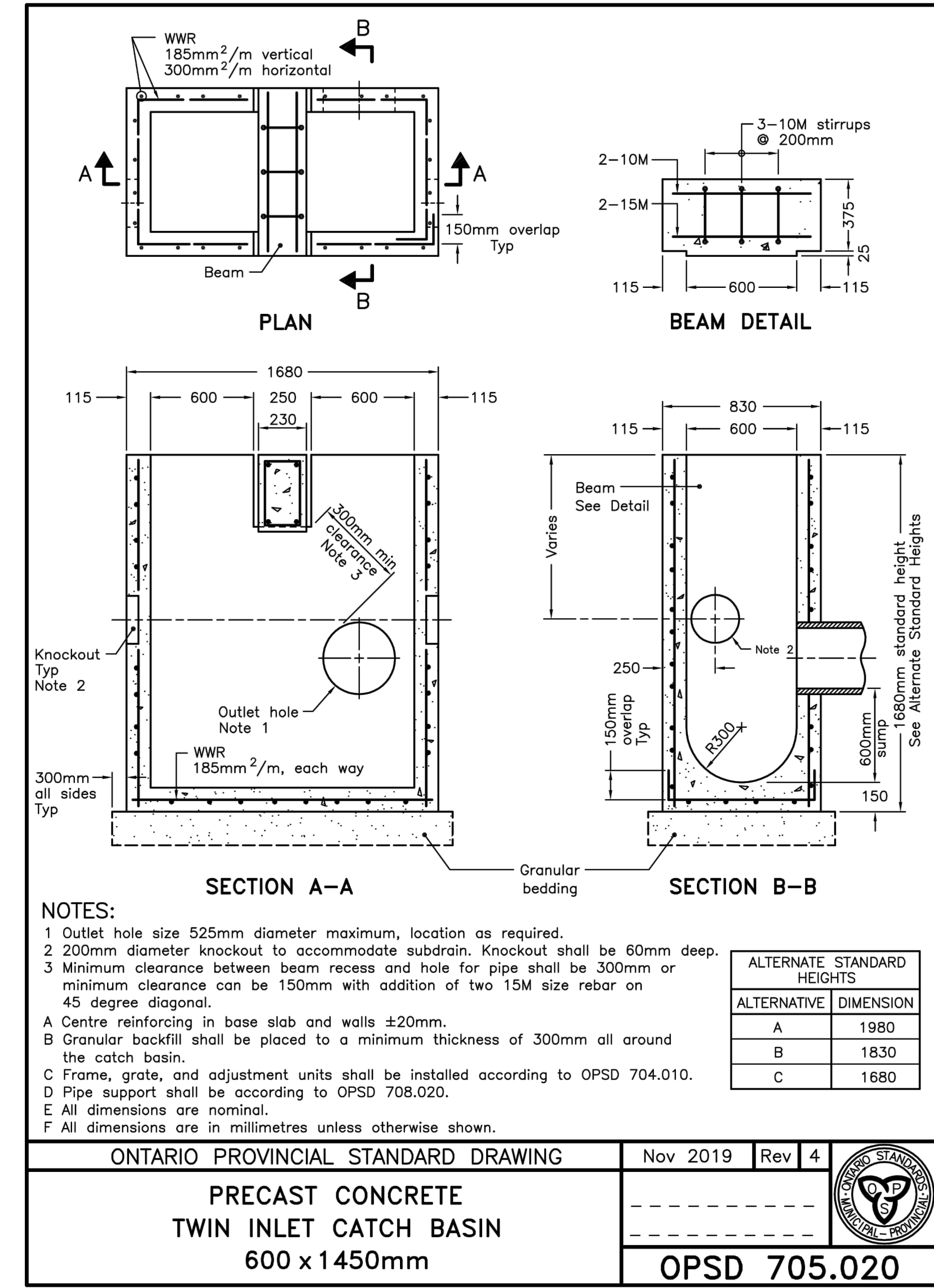
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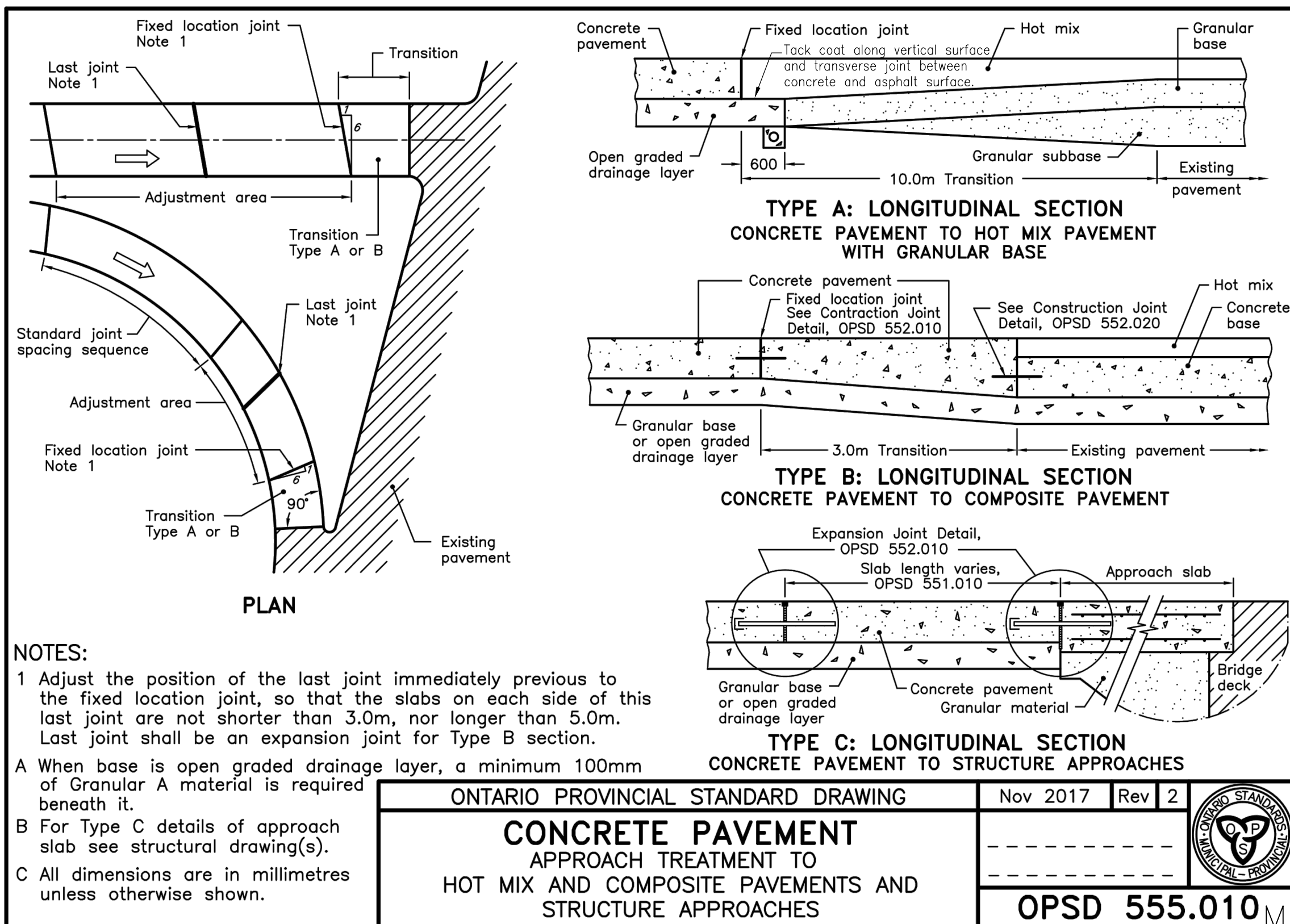
ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2017	Rev 2	
CONCRETE AND COMPOSITE PAVEMENT JOINT SPACING			
			OPSD 551.010



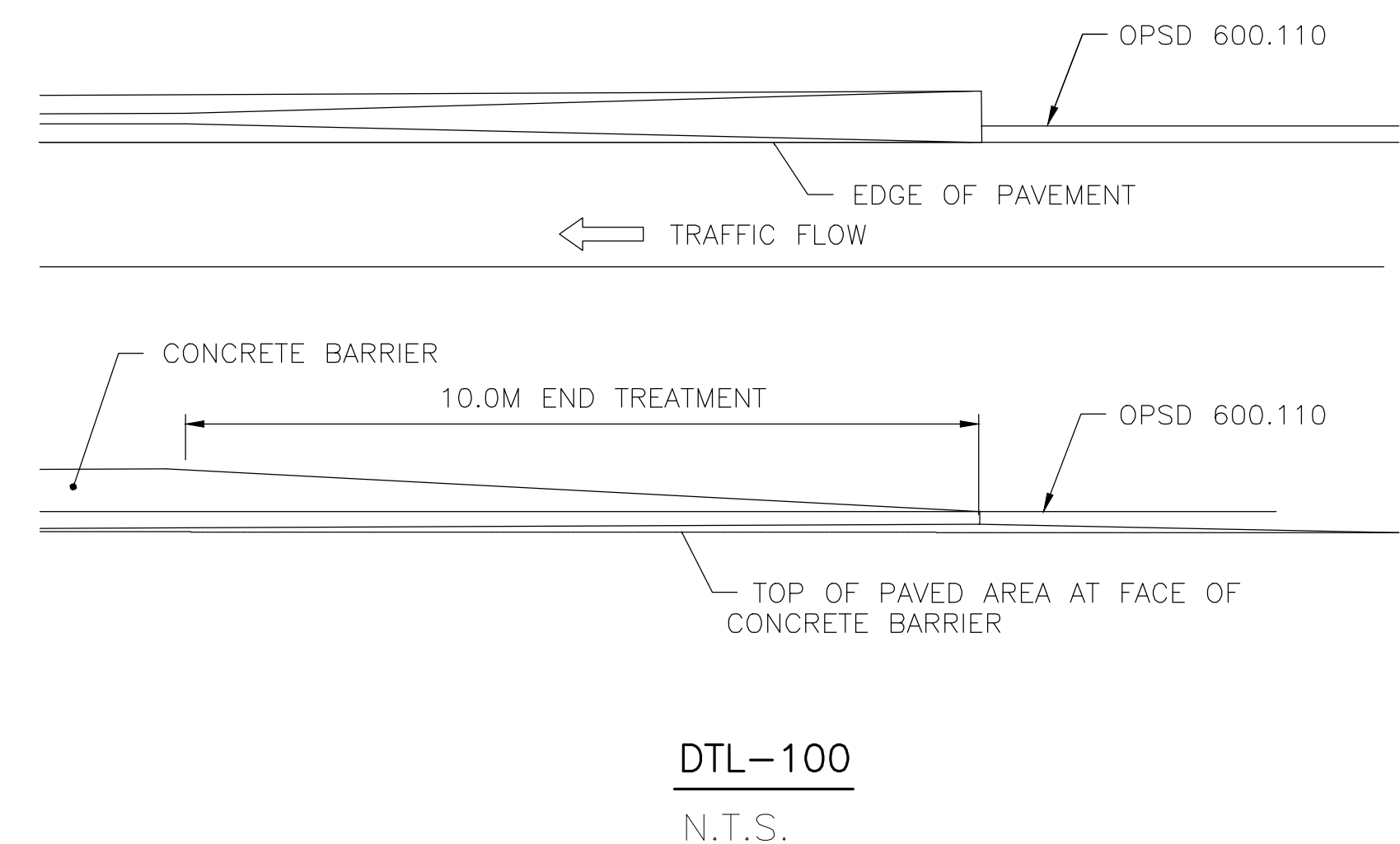
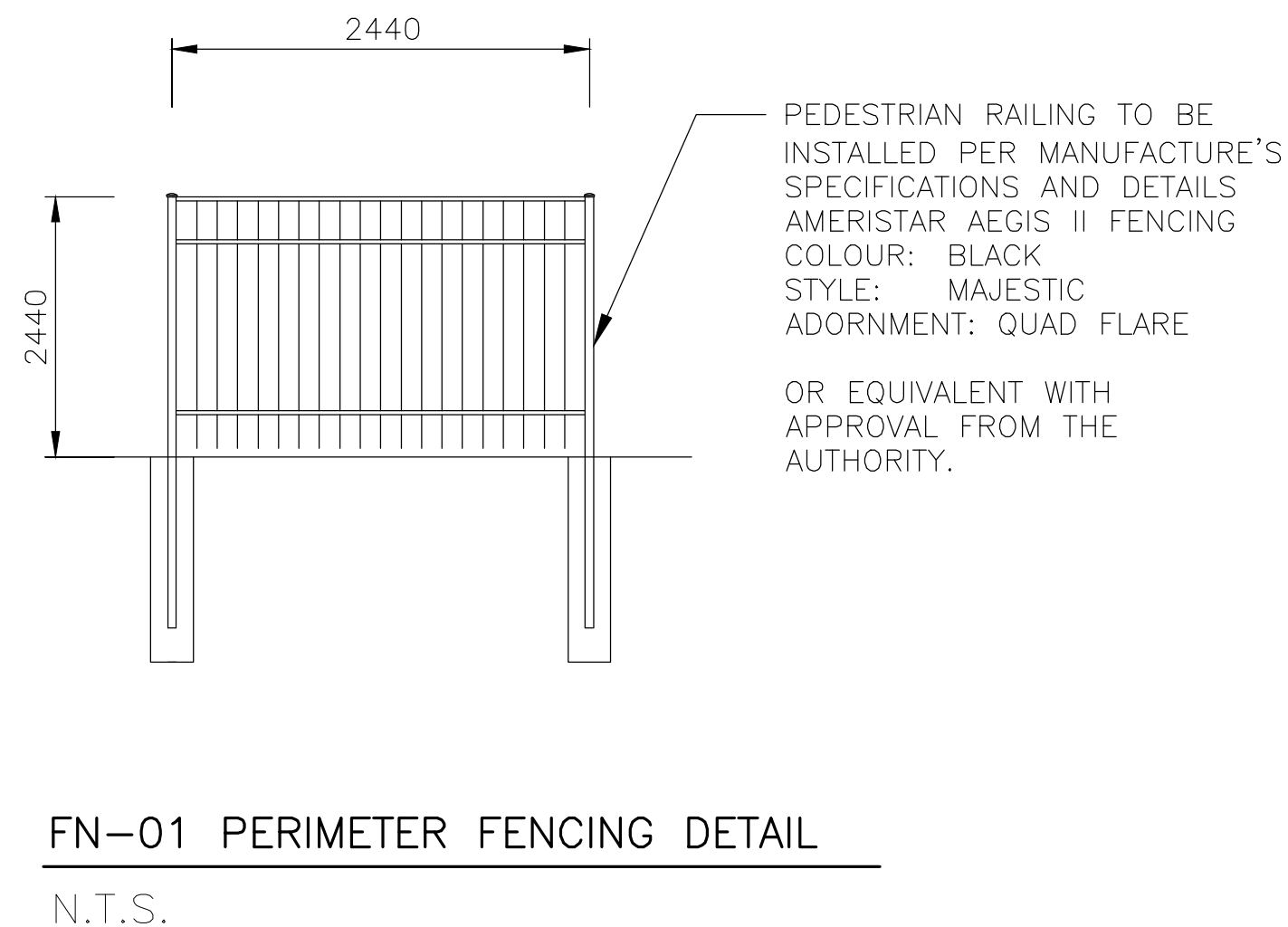
ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2014	Rev 5	
PRECAST CONCRETE MAINTENANCE HOLE			
1200mm DIAMETER			OPSD 701.010



ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2019	Rev 4	
PRECAST CONCRETE TWIN INLET CATCH BASIN			
600 x 1450mm			OPSD 705.020



ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2017	Rev 2	
CONCRETE PAVEMENT APPROACH TREATMENT TO HOT MIX AND COMPOSITE PAVEMENTS AND STRUCTURE APPROACHES			
			OPSD 555.010



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A	ISSUED FOR BIDDING (NOT FOR CONSTRUCTION)	03/21/2024	

DESIGNED BY: M. VELLICIVIC	DATE: 03/21/2024	CONTRACT NO.:
DRAWN BY: M.V.	SOLICITATION NO.:	
SUBMITTED BY: WSP CANADA	FILE NAME: \\wsp-usa-01\wsp-usa\projects\2024\03\03212024\03212024.dwg	
SCALE: 22' X 34'	PLOTTED BY: B.M.	

WSP USA, Inc.
3000 Lakeshore Drive
Buffalo, N.Y. 14202
(716) 835-1200

BUFFALO AND FORT ERIE PUBLIC BRIDGE AUTHORITY
PROJECT# PARE 3.0
TYPICAL DETAILS

DRAWING NUMBER
T-3

Trow Consulting Engineers Ltd. (TCE) 1994

TCE BH 04 Elev=186.01

0 - 300 Topsoil: Dark Brown, silt, organics

300 - 600 Fill: Dark brown, clayey silt, moist

600 - 5050 Silty Clay Till: brown, trace sand, trace to some gravel, scattered wet sand seams and boulders, moist, very stiff to hard

End of Borehole Elev=180.96

TCE BH 08 Elev=185.81

0 - 250 Topsoil: Dark Brown, silt, organics

250 - 1050 Fill: dark brown, silty clay, moist (possible native)

1050 - 6550 Silty Clay Till, brown, trace sand, trace to some gravel, scattered wet sand seams and boulders, moist, organic inclusions in the upper 1.0m, stiff to hard

End of Borehole Elev=179.26

TCE BH 12 Elev=186.28

0 - 250 Topsoil: Dark Brown, silt, organics

250 - 1850 Fill: dark brown, silty clay, trace organic topsoil inclusions, moist

End of Borehole (Obstruction) Elev=184.43

TCE BH 16 Elev=185.94

0 - 450 Topsoil: dark brown, silt, organics

450 - 5050 Silty clay till: brown, trace sand, trace to some gravel, scattered wet sand seams and cobbles, moist, very stiff to hard

End of Borehole Elev=180.89

TCE BH 17 Elev=177.43

0 - 150 Topsoil: dark brown, silt, organic

150 - 1750 Fill: dark brown to brown, silty clay with organic topsoil inclusions, moist

End of Borehole (Bedrock) Elev=175.68

TCE BH 18 Elev=181.96

0 - 200 Topsoil: dark brown, silt, organics

200 - 1500 Fill: dark brown, silty clay with decayed wood pieces and organic topsoil inclusions moist

1500 - 5050 Silty clay till: brown, trace sand, trace to some gravel, scattered wet sand seams and cobbles, moist, very stiff to hard

End of Borehole Elev=176.91

TCE BH 19 Elev=184.23

0 - 200 Pavement 50mm Asphaltic Concrete, 150mm crushed Stone

200 - 6950 Silty clay till: brown, trace sand, trace to some gravel, scattered wet sand seams and cobbles, moist, very stiff to hard

End of Borehole (Bedrock) Elev=177.28

TCE BH 20 Elev=185.44

0 - 350 Pavement 50mm Asphaltic Concrete, 330mm Crushed Stone

350 - 5050 Silty clay till: brown, trace sand, trace to some gravel, scattered wet sand seams and cobbles, moist, hard

End of Borehole Elev=180.39

TCE BH 21 Elev=184.55

0 - 300 Pavement: 50mm Asphaltic 250mm Crushed Stone

300 - 5050 Silty Clay Till: brown, tracesand, trace to some gravel, scattered wet sand seams and cobbles, moist, very stiff to hard

End of Borehole Elev=179.50

TCE BH 22 Elev=178.75

0 - 200 Pavement: 50mm Asphaltic Concrete, 150mm Crushed Stone

200 - 3050 Fill: dark brown, silty clay with numerous topsoil inclusions, moist

End of Borehole Elev=175.70

Golder Associates 94-97

GA BH 27 Elev=183.43

0 - 200 Topsoil

200 - 2900 Stiff to hard, brown, Silty Clay: Trace sand, occasional gravel (Till)

2900 - 3810 Firm, brown, Silty Clay

End of Borehole Elev=179.62

GA BH 97-5 Elev=187.97

0 - 100 Asphalt

100 - 610 Frozen sand and gravel (Granular 'A' Fill)

610 - 3350 Siff, dry, reddish brown clayey silt with organics (Fill)

3350 - 7240 Hard, dry, brown Silty Clay, some sand and gravel (Till)

7240 - 1067 Stiff, moist, greyish brown Silty Clay, trace to some sand with occasional grey silty sand seams

End of Borehole (Refusal) Elev=177.30

GA BH 97-4 Elev=186.74

0 - 100 Asphalt

100 - 2210 Very Stiff, brownish grey silty clay with organics (Fill)

2210 - 5640 Hard, greyish to brown Silty Clay, some sand and gravel (Till)

5640 - 9100 Stiff, moist, greyish brown Silty Clay, trace to some sand with occasional grey silt seams

9100 - 9850 Firm moist, brownish grey Clayey Silt, some sand and gravel (Till)

End of Borehole (refusal) Elev=176.89

GA BH 97-1 Elev=184.50

0 - 100 Asphalt

100 - 150 Sand and gravel (Fill)

150 - 1450 Frozen, dry, weathered, brownish red Clayey Silt, some sand and gravel (Till)

1450 - 3730 Very stiff to hard, dry, brownish red Silty Clay, some sand and gravel (Till)

3730 - 4570 Stiff, moist brownish red Silty Clay, some sand and gravel (Till)

4570 - 7470 Firm, moist, brownish red Silty Clay, trace to some sand, occasional gravel

7470 - 7920 Stiff, moist, grey sandy Silt, some clay and gravel

End of Borehole (Refusal) Elev=176.56

GA BH 17 Elev=179.83

0 - 100 Asphalt

100 - 800 Brown, Silty Sand and Gravel (Fill)

800 - 3680 Firm to hard, Silty Clay to Clayey Silt, trace to some sand, pieces of timber and ceramics

End of Borehole (Poss. Bedrock) Elev=175.97

GA BH 18 Elev=177.24

0 - 100 Asphalt

100 - 1300 Very dense, brown, Sand and Gravel (Probably Fill)

1300 - 2400 Dense, brown, Sand and Gravel

2400 - 2740 Stiff brown, Silty Clay; trace sand, occasional gravel (Till)

End of Borehole (Prob. Bedrock) Elev=174.50

GA BH 19 Elev=176.37

0 - 100 Asphalt

200 - 600 Granular Road Base (Fill)

600 - 1730 Compact, Brown, Fine to medium Sand, occasional gravel

End of Borehole (Prob. Bedrock) Elev=174.64

GA BH 20 Elev=182.59

0 - 5940 Stiff to hard, brown Silty Clay; trace sand occasional gravel (Till)

5940 - 6480 Very stiff, grey, Clayey Silt, trace sand, occasional gravel (Till)

6480 - 7320 Very stiff, brown, Silty Clay

End of Borehole Elev=175.27

GA BH 21 Elev=176.71

0 - 100 Asphalt

100 - 600 Granular Road Base (Fill)

600 - 1370 Loose, brown, fine to medium, Sand; trace silt

End of Borehole (Prob. Bedrock) Elev=175.34

GA BH 22 Elev=176.61

0 - 100 Asphalt

100 - 430 Granular Road Base (Fill)

430 - 840 Brown, Silty Sand; trace clay (Fill)

End of Borehole (refusal) Elev=175.77

GA BH 23 Elev=181.54

0 - 500 Stiff, brown, Silty Clay; some topsoil, gravel (Fill)

500 - 3510 Very stiff to hard, brown, Silty Clay; trace sand occasional gravel (Till)

End of Borehole Elev=178.05

GA BH 24 Elev=182.56

0 - 300 Topsoil

300 - 4270 Firm to very stiff, brown becoming grey at about elev 179.56m, Silty Clay; trace sand, occasional gravel (Till)

End of Borehole Elev=178.29

GA BH 25 Elev=176.72

0 - 100 Asphalt

100 - 450 Granular Road Base (Fill)

450 - 1600 Loose, dark brown, Silty Sand; some gravel (Fill)

End of Borehole (Prob. Bedrock) Elev=175.12

GA BH 26 Elev=186.42

0 - 200 Topsoil

200 - 2900 Stiff to very stiff, brown Silty Clay; trace sand, occasional gravel, trace organics (Fill)

2900 - 5030 Hard, brown, Silty Clay; trace sand, occasional gravel (Till)

End of Borehole Elev=181.39

GA BH 27 Elev=183.43

0 - 200 Topsoil

200 - 2900 Stiff to hard, brown, Silty Clay; trace sand, occasional gravel (Till)

2900 - 3810 Firm, brown, Silty Clay

End of Borehole Elev=179.62

IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS ACTING AS AN ENGINEER TO ALTER ANY ITEM IN ANY WAY IF AN ITEM BEARING THE SEAL OF AN ARCHITECT OR ENGINEER IS ALTERED. THE SEALING AND THE NOTATION ALTERED BY, FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

Table with columns: MARK, DESCRIPTION, DATE, APPR.

Table with columns: DESIGNED BY, DATE, WINN BY, SUBMITTED BY, FILE NAME, SIZE, PLOTTED BY, B.M., CONTRACT NO., SOLICITATION NO., PLOT DATE.

Buffalo and Fort Erie Public Bridge Authority logo and contact information.

Buffalo and Fort Erie Public Bridge Authority logo and project information.

DRAWING NUMBER B-2

GENERAL

- 1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET / INCHES, HOWEVER, ALL FORCES ARE IN METRIC UNITS (PER TG-ABBR-02).
2. "WSP-S" REFERS TO WSP CANADA STRUCTURAL CONSULTANT.
3. PRIOR TO CONSTRUCTION, REVIEW STRUCTURAL DRAWINGS IN CONJUNCTION WITH DRAWINGS PROVIDED BY ALL OTHER CONSULTANTS...

- 21. MAINTAIN A QUALITY CONTROL PLAN FOR STRUCTURAL WORK, AND MAKE IT AVAILABLE TO THE CONSULTANT UPON REQUEST. AT A MINIMUM, THE PLAN TO INCLUDE:
1. NAMES OF PERSONNEL RESPONSIBLE FOR EXECUTION OF THE PLAN.
2. MEANS AND METHODS FOR CONFIRMING MATERIAL COMPLIANCE WITH SPECIFICATIONS AND ASSOCIATED DOCUMENTATION PROCEDURES.

DESIGN DATA

- 1. STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE 2012 ONTARIO BUILDING CODE (OBC), SUPPLEMENTED BY THE USER'S GUIDE — NBC 2015 STRUCTURAL COMMENTARIES.
2. CONCRETE ELEMENTS ARE DESIGNED PER CSA A23.3-14 — DESIGN OF CONCRETE STRUCTURES.
3. STEEL ELEMENTS ARE DESIGNED PER CSA S16-14 — LIMIT STATE DESIGN OF STEEL STRUCTURES.

- 1. MISCELLANEOUS STEEL ELEMENTS: STAIRS, RAILINGS, GUARDRAILS.
2. PARTITIONS: MASONRY, GLASS, WOOD AND STEEL STUDS, PREFABRICATED PANELS.
3. BULKHEADS, SUSPENDED CEILINGS, INTERIOR AND EXTERIOR SIGNAGE.

- 11. LIVE LOAD: TRUCK CANOPY ROOF: 1.0 kPa, SALT BARN ROOF: 1.0 kPa
12. SNOW: Ss = 2.3 kPa, Sr = 0.8 kPa, Is (ULS) = 1.15, Is (SLS) = 0.9
13. RAIN: 24 HOUR RAINFALL = 108 mm
14. LATERAL LOADS IN THIS STRUCTURE ARE REGISTED BY: TRUCK CANOPY: CONCRETE CANTILEVERED COLUMN SYSTEM, SALT BARN: STEEL MOMENT FRAMES

SHOP DRAWINGS

- 1. REFER TO SPECIFICATIONS FOR SHOP DRAWINGS WHICH NEED TO BE SUBMITTED FOR REVIEW.
2. SUBMIT SIGNED AND SEALED TOWER CRANE SHOP DRAWINGS TO BE REVIEWED FOR IMPACT ON THE BASE BUILDING STRUCTURE.
3. REVIEW OF SHOP DRAWINGS BY WSP-S IS ON A SAMPLING BASIS, FOR GENERAL CONFORMITY WITH STRUCTURAL CONTRACT DOCUMENTS...

- 5. IF REQUIRED, ELECTRONIC FILES OF THE FULL SET OF STRUCTURAL DRAWINGS ARE AVAILABLE "AS-IS", AT A COST OF \$100.00 PER SHEET...
6. ALLOW A MINIMUM OF 10 WORKING DAYS FOR REVIEW OF EACH SUBMISSION OF SHOP DRAWINGS IN WSP-S OFFICE.
7. AFTER REVIEW, THE DRAWINGS WILL BE STAMPED AND RETURNED. DO NOT COMMENCE FABRICATION UNTIL RETURNED SHOP DRAWINGS HAVE BEEN EXAMINED.

FIELD REVIEW

- 1. WSP-S WILL PROVIDE PERIODIC FIELD REVIEW OF A REPRESENTATIVE SAMPLE OF THE STRUCTURAL WORKS DETAILED ON THESE DRAWINGS FOR GENERAL CONFORMANCE WITH CONTRACT DOCUMENTS.
2. CONSTRUCTION REVIEW REPORTS WILL OUTLINE ANY DEFICIENCIES FOUND.
3. ASSIST WSP-S DURING FIELD REVIEW, AND PROVIDE SAFE ACCESS TO WORK AREAS AS REQUIRED.

EXISTING STRUCTURES

- 1. EXISTING CONDITIONS ARE ASSUMED, SURVEY THE EXISTING STRUCTURE AFTER REMOVING FINISHES AND REPORT ANY VARIATIONS TO WSP-S BEFORE PROCEEDING WITH THE WORK.
2. DESIGN OF STRUCTURAL WORKS RELATED TO THE EXISTING BUILDING HAS BEEN CARRIED OUT AS FAR AS PRACTICAL, GIVEN LIMITED AVAILABILITY OF THE EXISTING DRAWINGS AND LIMITED RECORDS...

- 8. ALL DEMOLITION, SHORING AND OTHER TEMPORARY WORKS TO BE DESIGNED BY A PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR, LICENSED IN ONTARIO.
9. INSTALL AND AFTERWARDS REMOVE ALL TEMPORARY SHORING AND BRACING REQUIRED TO ENSURE THE INTEGRITY OF THE EXISTING STRUCTURE DURING CONSTRUCTION.
10. REFER TO TYPICAL DETAIL TC-SL-71 FOR CONCRETE SAWCUTTING PROCEDURE.

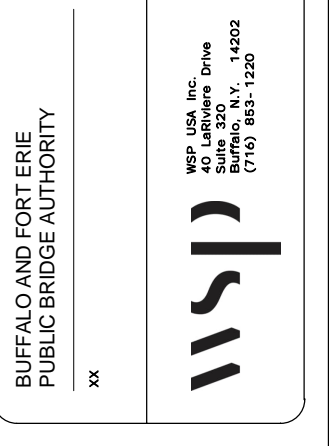
FOUNDATIONS

- 1. STRUCTURAL DESIGN IS BASED ON THE INFORMATION PROVIDED IN THE GEOTECHNICAL INFORMATION SECTION OF THE PEACE BRIDGE — GEC 5 YEAR TERM REPORT DATED 04/09/2021 AND BORING REPORTS PROVIDED BY THE PEACE BRIDGE AUTHORITY.
2. THE ALLOWABLE BEARING PRESSURE IS 190 kPa (4000 PSF).
3. SEISMIC SITE CLASS ASSUMED TO BE 'D'. TO BE CONFIRMED BY A GEOTECHNICAL CONSULTANT.

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Table with columns: DATE, DESCRIPTION, and APPROVAL. Includes a row for 'ISSUED FOR BID (NOT FOR CONST.)' dated 03/21/2024.

Table with columns: DATE, SOLICITATION NO., CONTRACT NO., FILE NAME, SIZE, PLOTTED BY. Includes project details like '03/21/2024', '107285', and '03/01/2024'.



STRUCTURAL NOTES 1/3
CROSSING HATFIELD BUILDING FUTURES THE PEACE BRIDGE

DRAWING NUMBER SG001

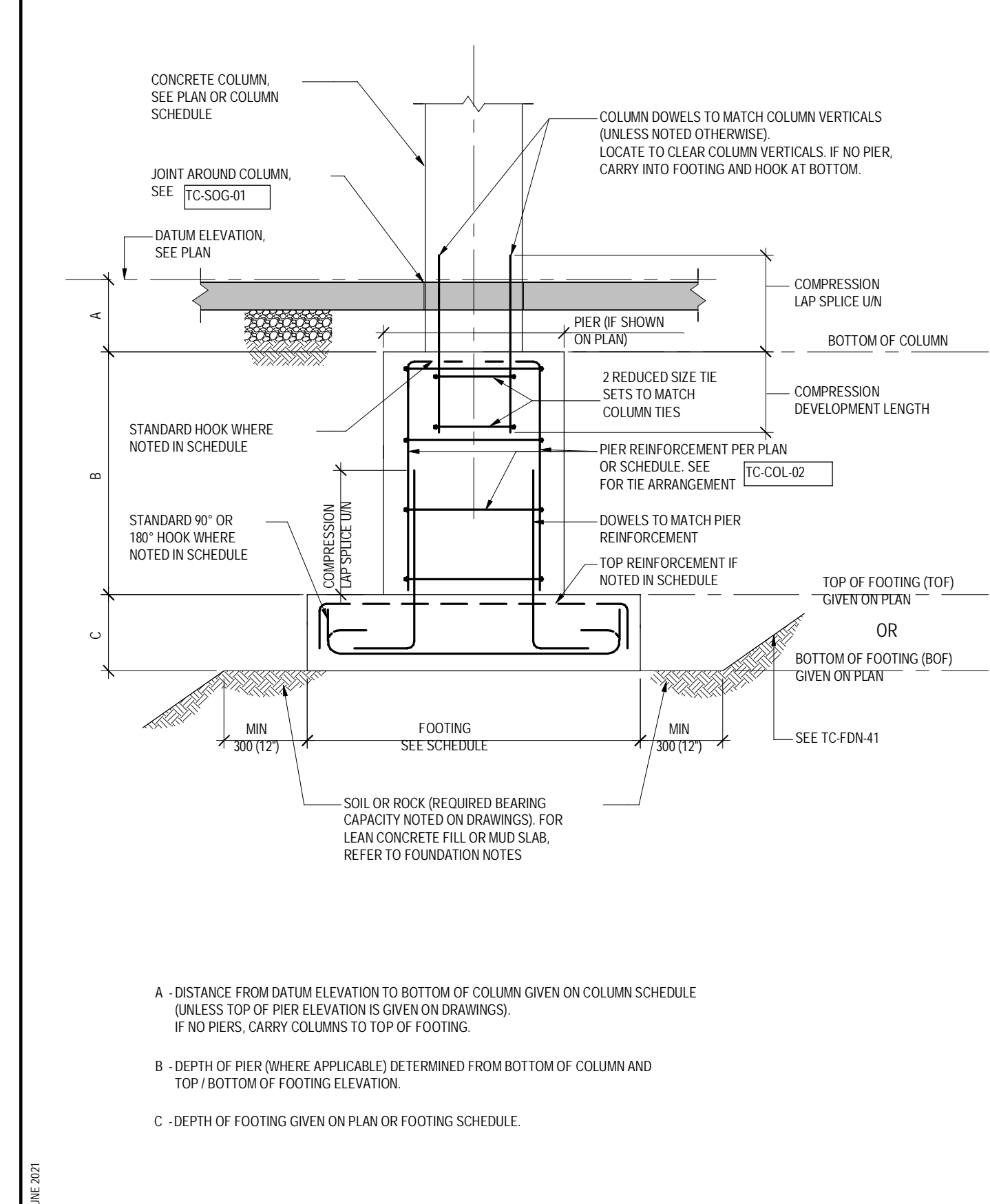
DRAWING ABBREVIATIONS

TG-ABBR-01

ABUT	ABUTMENT	DP	DEEP	td	TENSION DEVELOPMENT LENGTH OF REBAR	SPEC	SPECIFICATIONS
ACA	ADHESIVE CONCRETE ANCHORS, SEE GENERAL NOTES	DWG	DRAWING	tdc	COMPRESSION DEVELOPMENT LENGTH OF REBAR	SPF	SPRUCE PINE FIR
ADDL	ADDITIONAL	DWL	DOWEL	tdh	TENSION EMBEDMENT LENGTH WITH STANDARD HOOK	SR	STUDD RAIL
AEC	ARCHITECTURALLY EXPOSED CONCRETE	EA	EACH	LE	LEFT END	SS	STAINLESS STEEL
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	ECR	EPOXY COATED REINFORCEMENT	LG	LONG	ST	STRAIGHT
AIFB	ASPHALT IMPREGNATED FIBERBOARD	EBF	ECCENTRICALLY BRACED FRAME	LL	LOWER LEVEL	STD	STANDARD
ALT	ALTERNATE	EE	EACH END	LLH	LONG LEG HORIZONTAL	STE	SHEAR TRANSFER ELEMENTS
AMA	ADHESIVE MASONRY ANCHORS, SEE GENERAL NOTES	EF	EACH FACE	LLV	LONG LEG VERTICAL	STG	STAGGERED
ARCH	ARCHITECTURAL	EJ, EXP JT	EXPANSION JOINT	LONG	LONGITUDINAL	STR	STRIP
A-ROD	ANCHOR ROD	ELECT	ELECTRICAL	LSH	LONG SIDE HORIZONTAL	STIFF	STIFFENER
ASPH	ASPHALT	EL	ELEVATION	LP	LOW POINT	STL	STEEL
AVG	AVERAGE	ELEV	ELEVATOR	LWT	LIGHT WEIGHT	STR	SEISMIC STRAP
B	BOTTOM	EMBED	EMBEDMENT	MAX	MAXIMUM	STRUCT	STRUCTURAL
B-BOT	BOTTOM CHORD EXTENSION	ENG	ENGINEER	MC	MOMENT CONNECTION ()	SWT	SELF WEIGHT
BCP	BORED CONCRETE PILE	EOD	EDGE OF DECK	MECH	MECHANICAL	SYMM	SYMMETRICAL
BEW	BOTTOM EACH WAY	EOS	EDGE OF SLAB	MEZZ	MEZZANINE	T	THICKNESS
BH	BOREROLE	ES	EACH SIDE	MF	MOMENT FRAME	TB	TRANSFER BEAM
BL	BOTTOM LOWER LAYER	EQ	EQUAL	MIN	MINIMUM	TBB	TOP BASIC BARS
BOF	BOTTOM OF FOOTING	EW	EACH WAY	MISC	MISCELLANEOUS	T	TOP
BOP	BOTTOM OF PILE	EX, EXIST	EXISTING	MJ	MOVEMENT JOINT	TDL	TENSION DEVELOPMENT LENGTH
BP	BASE PLATE	EXT	EXTERIOR	ML	MIDDLE LAYER	TEW	TOP EACH WAY
BRG	BEARING	FC	FUTURE COLUMN	NF	NEAR FACE	T&G	TONGUE AND GROOVE
BRP	BEARING PLATE	FD	FLOOR DRAIN	NIC	NOT IN CONTRACT	TJ	TIE JOIST
BSMT	BASEMENT	FF	FAR FACE	NOM	NOMINAL	TLL	TOP LOWER LAYER
BUL	BOTTOM UPPER LAYER	FIN	FINISHED	NTS	NOT TO SCALE	TTO	TOP OF
BLP	BOTTOM OF UNDERPINNING	FL	FLOOR	OC	ON CENTER	TOB	TOP OF (GRADE) BEAM
C	CAMBER	FMC	FULL MOMENT CONNECTION (FOR FULL MOMENT CAPACITY)	OD	OUTSIDE DIAMETER	TOC	TOP OF CONCRETE
CA	COLUMN ABOVE ONLY (NO COLUMN BELOW)	FND	FOUNDATION	OF	OUTSIDE FACE	TOP	TOP OF FOOTING
CANT	CANTILEVER	FTG	FOOTING	OPP	OPPOSITE	TOS	TOP OF STEEL
CAT	CATEGORY (FOR AESS)	G	GENERAL	OWSJ	OPEN WEB STEEL JOIST	TOP	TOP OF PILE
CB	COLUMN BELOW ONLY (NO COLUMN ABOVE)	GALV	GALVANIZED	PAF	POWDER ACTUATED FASTENERS	TOW	TOP OF WALL
CDL	COMPRESSION DEVELOPMENT LENGTH	GB	GRADE BEAM	PC	PILE CAP	TPC	TOP OF PILE CAP
CEL	CUT OFF ELEVATION FOR PILES	GEN	GENERAL	PL	PLATE	TRANS	TRANSVERSE
CP	CAST-IN PLACE	GL	GRID LINE	PROJ	PROJECT, PROJECTION	TSA	TENSION SPLICE 'A'
CJ	CONTROL JOINT	GRD	GROUND	PS	PIPE SUPPORT	TSB	TENSION SPLICE 'B'
CLR	CLEAR	h	TOTAL THICKNESS, SLAB THICKNESS AWAY FROM DROP PANEL	PT	POST TENSIONED	TUL	TOP UPPER LAYER
CL	CENTRILINE	HL	SLAB OVERALL THICKNESS AT DROP PANEL	PTL	PRESSURE TREATED LUMBER	TYP	TYPICAL
CMU	CONCRETE MASONRY UNITS	H, HORIZ	HORIZONTAL	RA	RADIUS	U-BAR	'U' SHAPED BAR
CNT	STEEL DECK CORE NOMINAL THICKNESS	(H)	HIGH BEAM	RD	ROOF DRAIN	UDB	UNIFORMLY DISTRIBUTED BARS
COMP	COMPOSITE	HC	HOLLOW CORE	RD	ROOF DRAIN	UF	UNDERSIDE OF FOOTING
COL	COLUMN	HD	HOLD DOWN	RDA	REBAR DOWEL ANCHORS, SEE GENERAL NOTES	UL	UPPER LEVEL
CONC	CONCRETE	HKG	HOT DIPPED GALVANIZED	RE	REINFORCEMENT	ULS	ULTIMATE LIMIT STATE
CONT	CONTINUOUS	HEF	HORIZONTAL EACH FACE	REIN	REINFORCEMENT	US	UNDERSIDE
CONT'D	CONTINUED	HF	HORIZONTAL INSIDE FACE	REM	REMAINDER	UM, UNO	UNLESS NOTED OTHERWISE
CONST.	CONSTRUCTION JOINT	HH	HOOK EACH END	REQ'D	REQUIRED	UPT	UPTURNED
CONSTR.	CONSTRUCTION JOINT	HE	HORIZONTAL IN CENTRE	REVS	REVISION	V, VERT	VERTICAL, VERTICALS
CP	CONCRETE PLATE	HMA	HOLLOW MASONRY ANCHORS, SEE GENERAL NOTES	RF	RIGID FRAME	VB	VERTICAL BRACING
CPL	CAP PLATE	HOF	HORIZONTAL OUTSIDE FACE	RL	REFERENCE LINE	VEF	VERTICAL EACH FACE
CS	COMPRESSION LAP SPLICE	HP	HIGH POINT	RSS	RETAINED SOIL SYSTEM	VF	VERTICAL INSIDE FACE
COV	CLEAR COVER	HSC	HORIZONTAL SLOTTED CONNECTION	RTU	ROOF TOP LIMIT	VIC	VERTICAL IN CENTRE
CW	COMPLETE WITH CONNECT WITH	IBI	INTEGRITY BARS INTERIOR	RET, WALL	RETAINING WALL	VOF	VERTICAL OUTSIDE FACE
CWS	(SEE GENERAL NOTES)	IBE	INTEGRITY BARS EXTERIOR	RW	REINFORCE WITH	VSC	VERTICALLY SLOTTED CONNECTION
CLS	(SEE GENERAL NOTES)	IBA	INTEGRITY BARS ADDED	RF	REINFORCE WITH	WB	WALL BELOW
DCA	DRILLED CONCRETE ANCHOR, SEE GENERAL NOTES	IBB	INTEGRITY BOTTOM BARS (THROUGHOUT)	rw	REQUIRED WITH	WC	WIND COLUMN
DEMO	DEMOLITION	ID	INSIDE DIAMETER	SIF	STEP DOWN FOOTING (IN DIRECTION OF ARROW)	WO	WITHOUT
DET	DETAIL	INT	INTERIOR	SI	SLAB SHELF ANGLE	WP	WORK POINT
D.FIR-L	DIAMETER	IF	INSIDE FACE	SI	STEEL JOIST	WSP-S	WSP STRUCTURAL WELDED WIRE FABRIC
DIA, Ø	DIAMETER	IG	JUST GREYER	SL	SLAB SHELF ANGLE	WWF	ZINC RICH PAINT
DIV	DIMBER BEAM	KB	KNEE BRACING	SLB	SHORT LEG BACK TO BACK	ZRP	CONCRETE DENSITY
DMA	DRILLED MASONRY ANCHOR, SEE GENERAL NOTES	(L)	LOW BEAM	SLS	SERVICEABILITY LIMIT STATE	Y	
DN	DOWN	ZL	BACK TO BACK ANGLES	SOG	SLAB-ON-GRADE		
DNW	DOUBLE NUT AND WASHER						

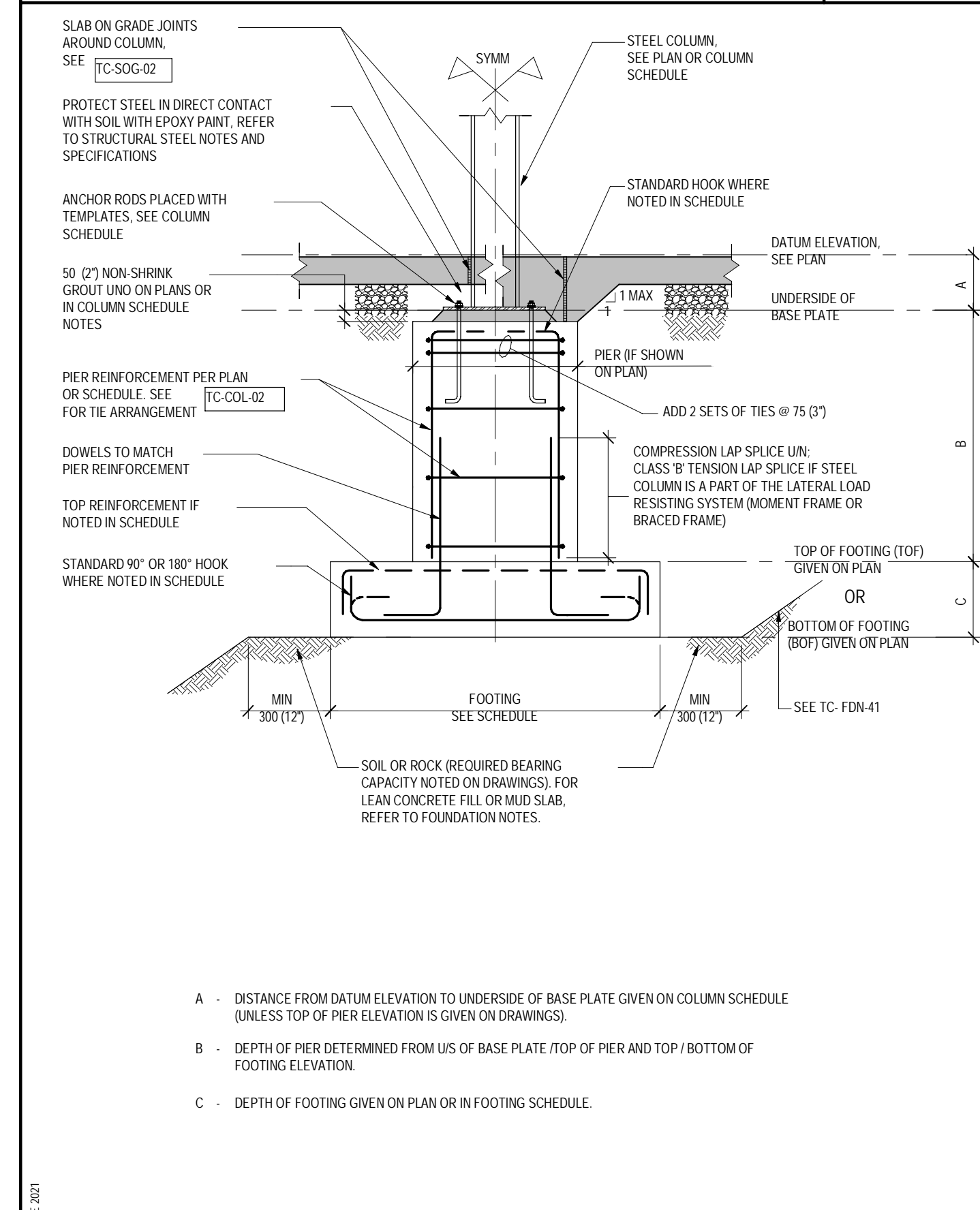
FOOTING AT CONCRETE COLUMN

TC-FDN-01



FOOTING AT STEEL COLUMN

TC-FDN-02



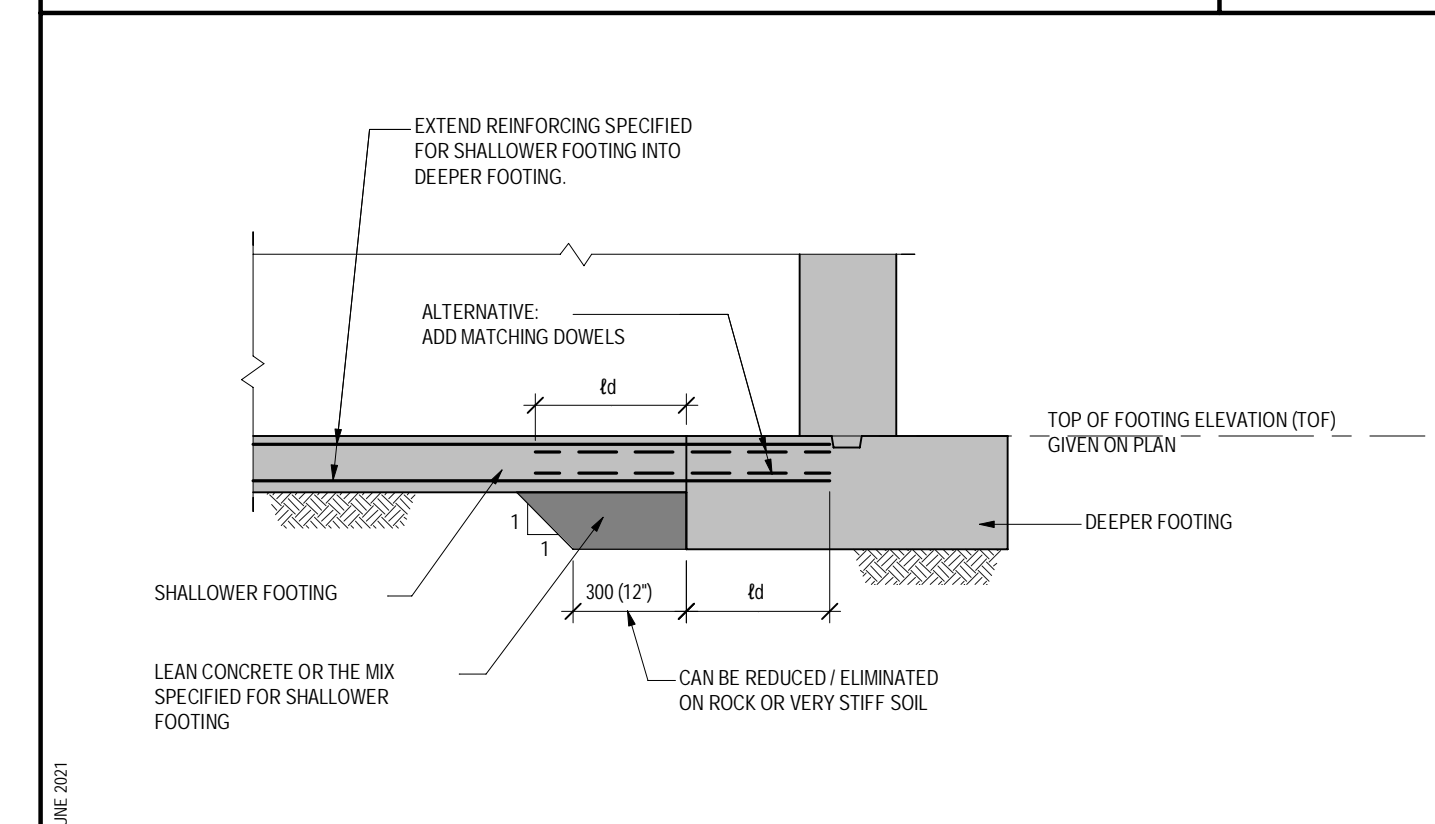
LOADING ABBREVIATIONS

TG-ABBR-02

Af	FACTORED AXIAL LOAD IN kN (- INDICATES TENSION, + INDICATES COMPRESSION)
Cf	FACTORED COMPRESSION IN kN
fc	COMPRESSIVE STRENGTH OF CONCRETE, IN MPa
fy	YIELD STRENGTH IN MPa
Mf	FACTORED MOMENT IN kNm
Mx	FACTORED MOMENT ABOUT X-X (STRONG) AXES IN kNm
My	FACTORED MOMENT ABOUT Y-Y (WEAK) AXES IN kNm
MPL	MASONRY PARTITION DEAD LOAD IN kNm
MT	FACTORED TORSION IN kNm
Rf	FACTORED VERTICAL REACTION IN kN
RHf	FACTORED HORIZONTAL REACTION IN kN
P	SPECIFIED (UNFACTORED) POINT LOAD IN kN
Pf	FACTORED POINT LOAD IN kN
Vf	FACTORED SHEAR IN kN
Tf	FACTORED TENSION IN kN
WT	WEIGHT OF MECHANICAL EQUIPMENT

INTERFACE OF FOOTINGS WITH DIFFERENT DEPTH

TC-FDN-31



IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS ACTING AS AN ENGINEER, TO ALTER OR MODIFY ANY PART OF THIS DRAWING OR TO REPRODUCE THIS DRAWING IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. ANY SUCH ALTERATION OR REPRODUCTION SHALL BE AT THE USER'S RISK AND WITHOUT LIABILITY TO THE ENGINEER. THE SEAL AND THE NOTATION ALTERED BY FOLLOWING BY THEIR OWNERS SHALL BE AT THEIR OWN RISK AND WITHOUT LIABILITY TO THE ENGINEER.

DATE	03/21/2024
SOLUTION NO.	
CONTRACT NO.	
FILE NAME	BRIDGE 101 - Buffalo Bridge GEC -
DESIGNED BY	
DRAWN BY	
CHECKED BY	
AUTHOR	
DATE	03/01/2024
SIZE	22" X 34"
PLOTTED BY	
MARK	
DATE	
APPR	
DESCRIPTION	

DESIGNED BY:
 DRAWN BY:
 CHECKED BY:
 AUTHORIZED BY:
 DATE: 03/21/2024
 SIZE: 22" X 34"
 PLOTTED BY:
 PROJECT: BRIDGE 101 - Buffalo Bridge GEC -
 FILE NAME:
 CONTRACT NO.:
 SOLUTION NO.:
 DATE: 03/01/2024

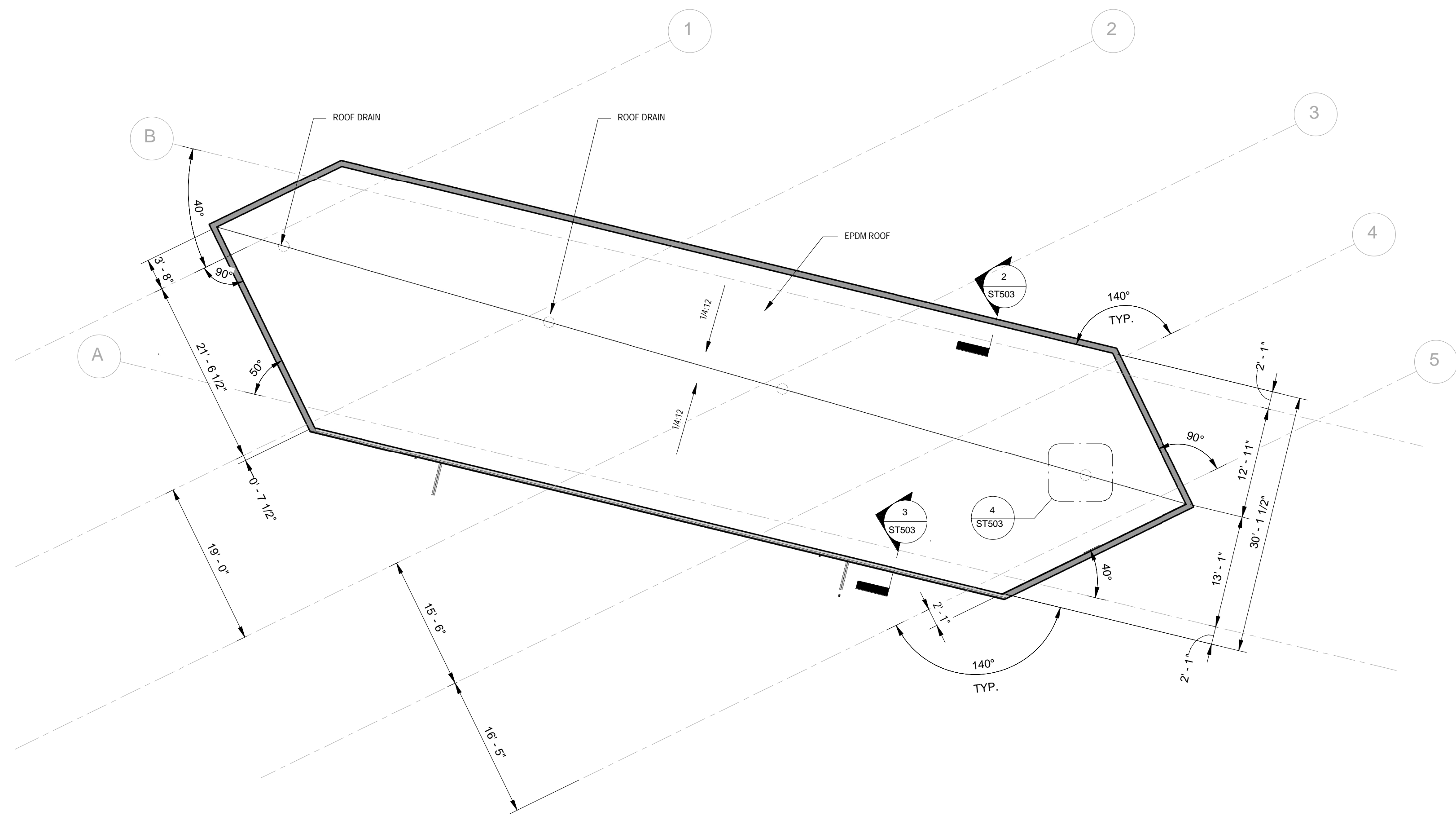
WSP
 WSP INC. 1000
 1000 W. 10TH ST. SUITE 100
 BUFFALO, NY 14203
 (716) 833-1200
 (716) 833-1201

Buffalo and Fort Erie Public Bridge Authority
 PROJECT: BRIDGE 101 - Buffalo Bridge GEC -
 PARE 3.0

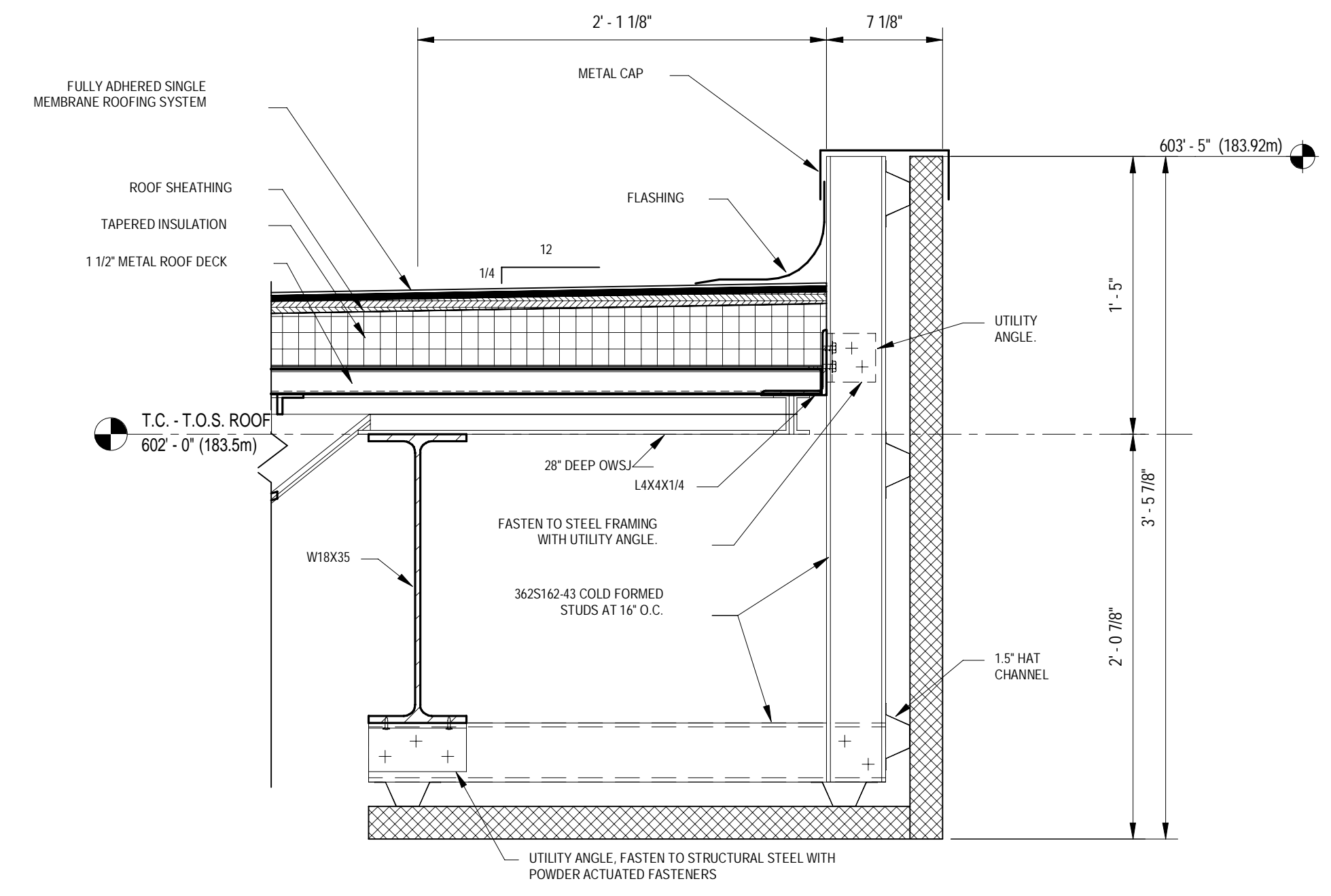
TYPICAL DETAILS

CROSSING DETAILS BUILDING FUTURES
 THE PLACE BRIDGE

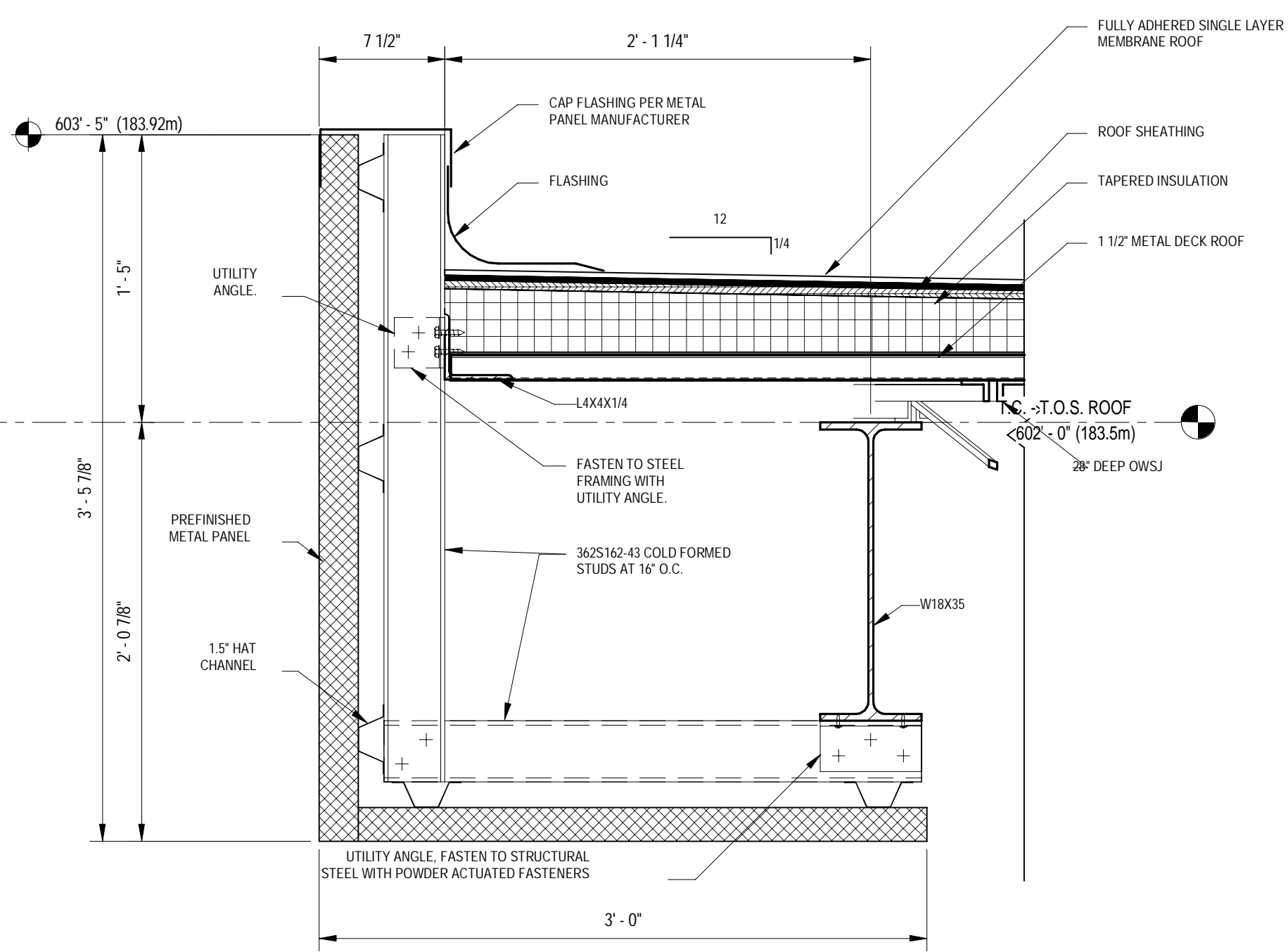
DRAWING NUMBER
SG004



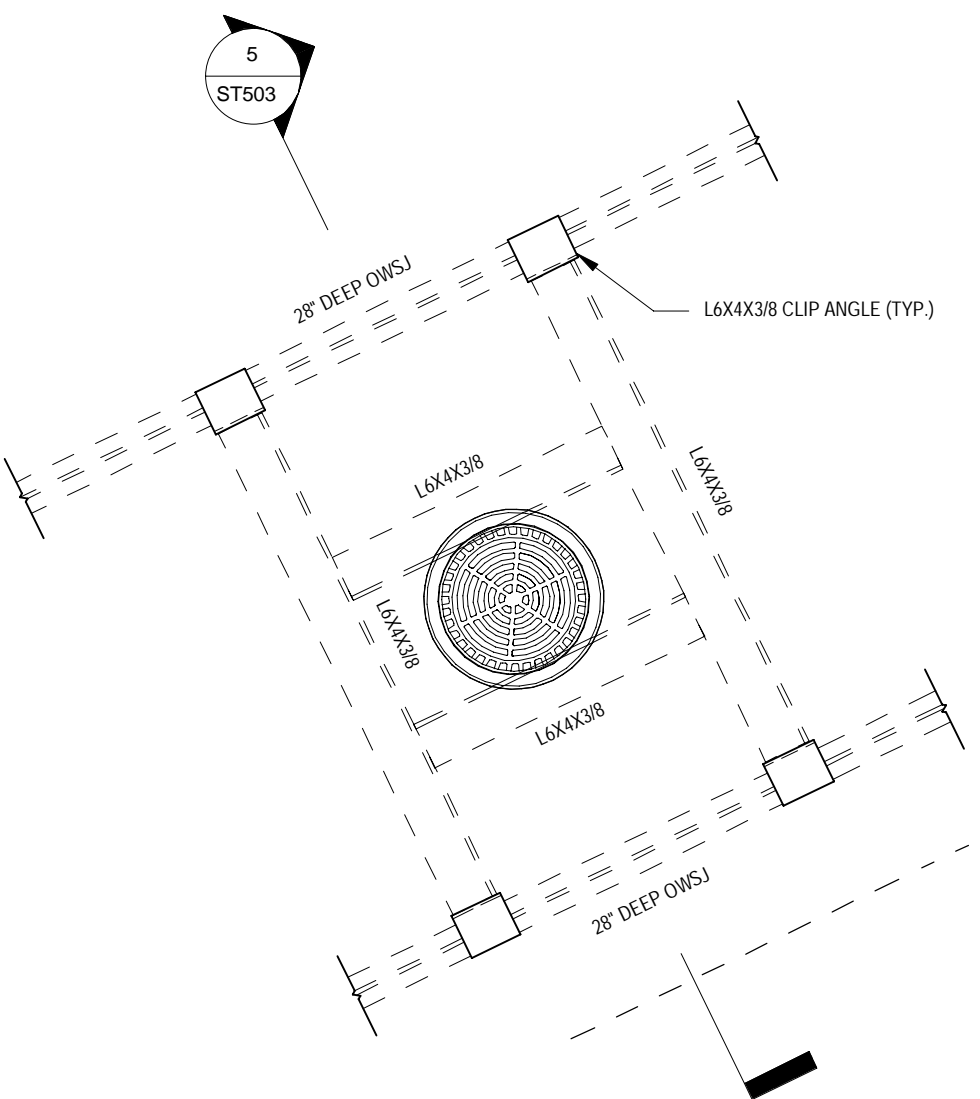
ROOF PLAN
1" = 10'-0"



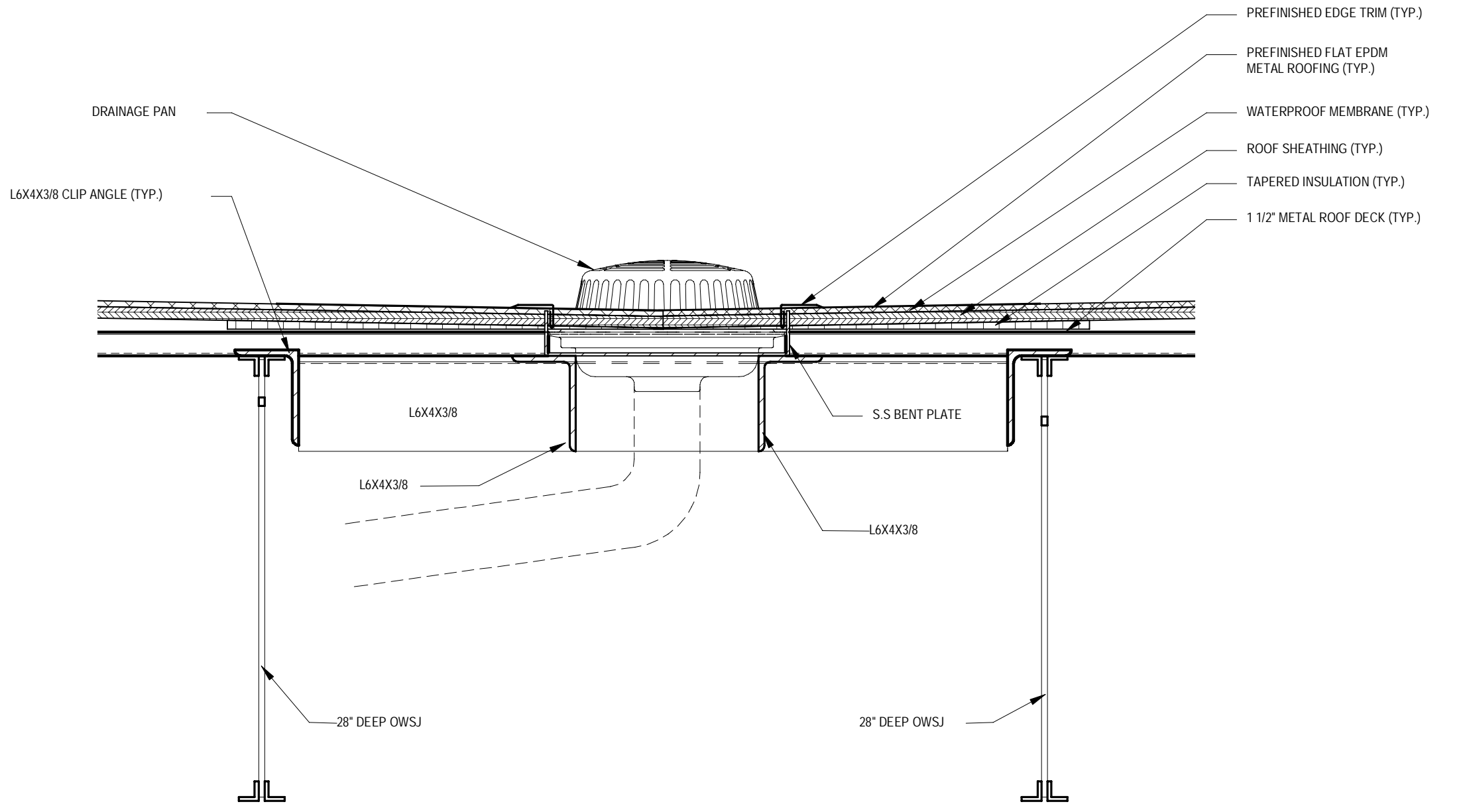
2 TYPICAL ROOF DETAIL (1/2)
1 1/2" = 1'-0"



3 TYPICAL ROOF DETAIL (2/2)
1 1/2" = 1'-0"



4 TYPICAL ROOF DRAIN PLAN
3/4" = 1'-0"



5 TYPICAL ROOF DRAIN SECTION
1 1/2" = 1'-0"

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NO.	DESCRIPTION	DATE	APPR.
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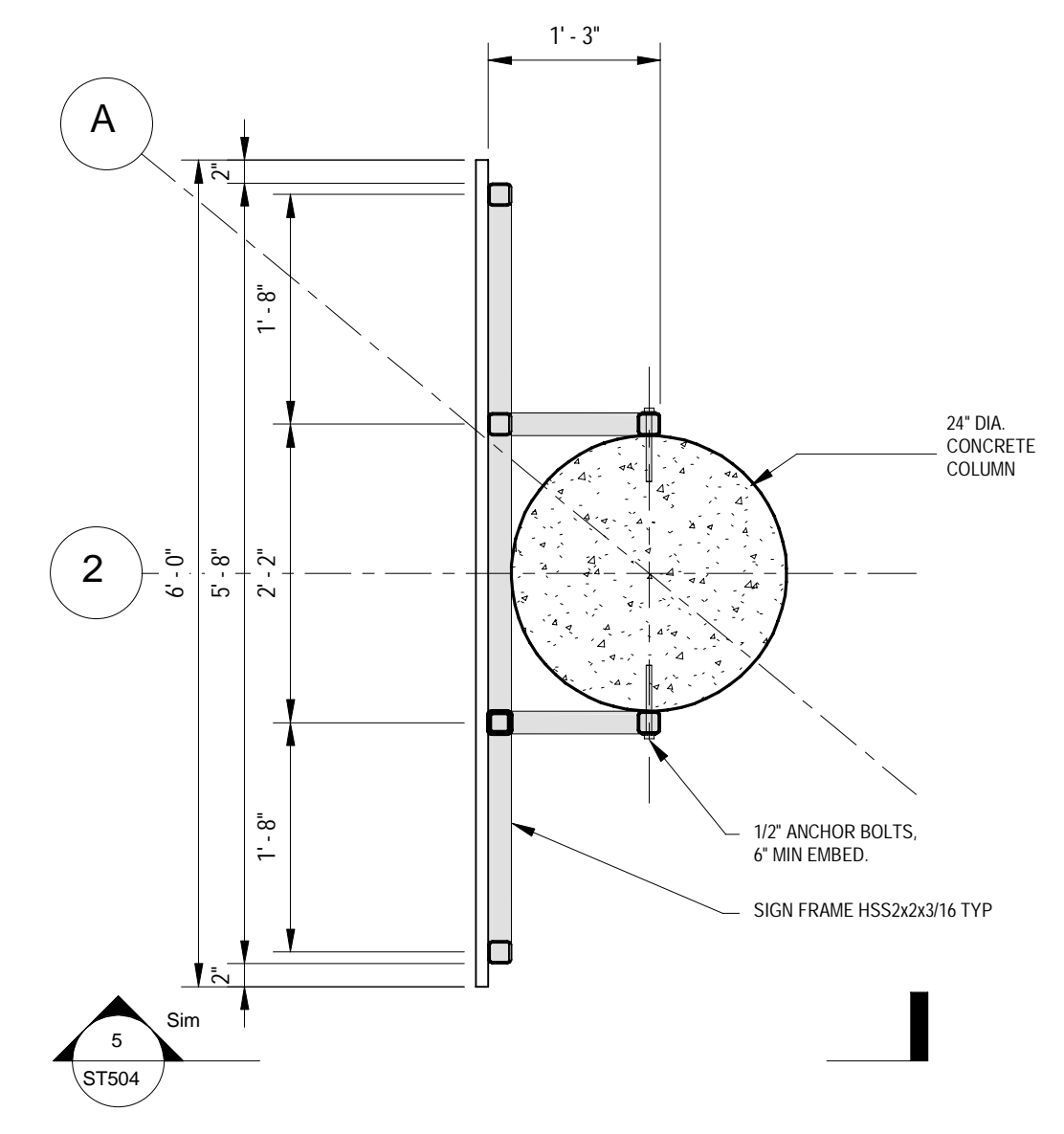
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DRAWN BY: Author	PROJECT NO.:	ISSUED BY: Author	CONTRACT NO.:
FILE NAME: WSP - Buffalo and Fort Erie Public Bridge Authority - Truck Canopy Roofing and Fascia Details - 2024-03-21	DATE: 03/21/2024	PROJECT NO.:	CONTRACT NO.:
SIZE: 22" X 34"	PLOTTED BY: Author	DATE: 03/21/2024	

BUFFALO AND FORT ERIE PUBLIC BRIDGE AUTHORITY
xx

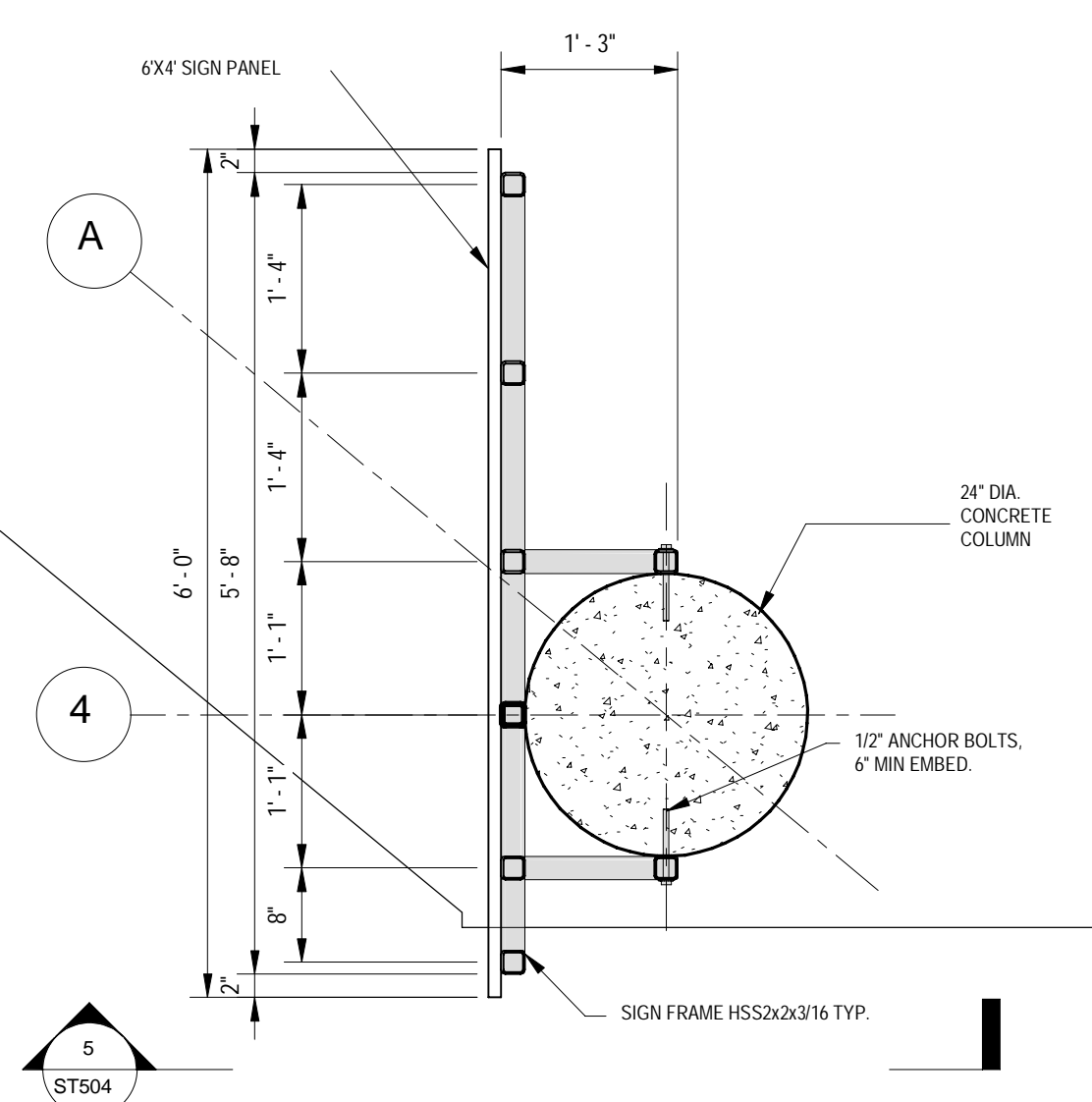
WSP
WSP Inc. Inc.
2000 Delaware Ave.
Buffalo, NY 14202
PH: 716.833.1200
FAX: 716.833.1201

BUFFALO AND FORT ERIE PUBLIC BRIDGE AUTHORITY
PROJECT: XXX, PARE 3.0
TRUCK CANOPY ROOFING AND FASCIA DETAILS
CROSSING HATLAS AND FASCIA BUILDING FUTURES THE PEACE BRIDGE

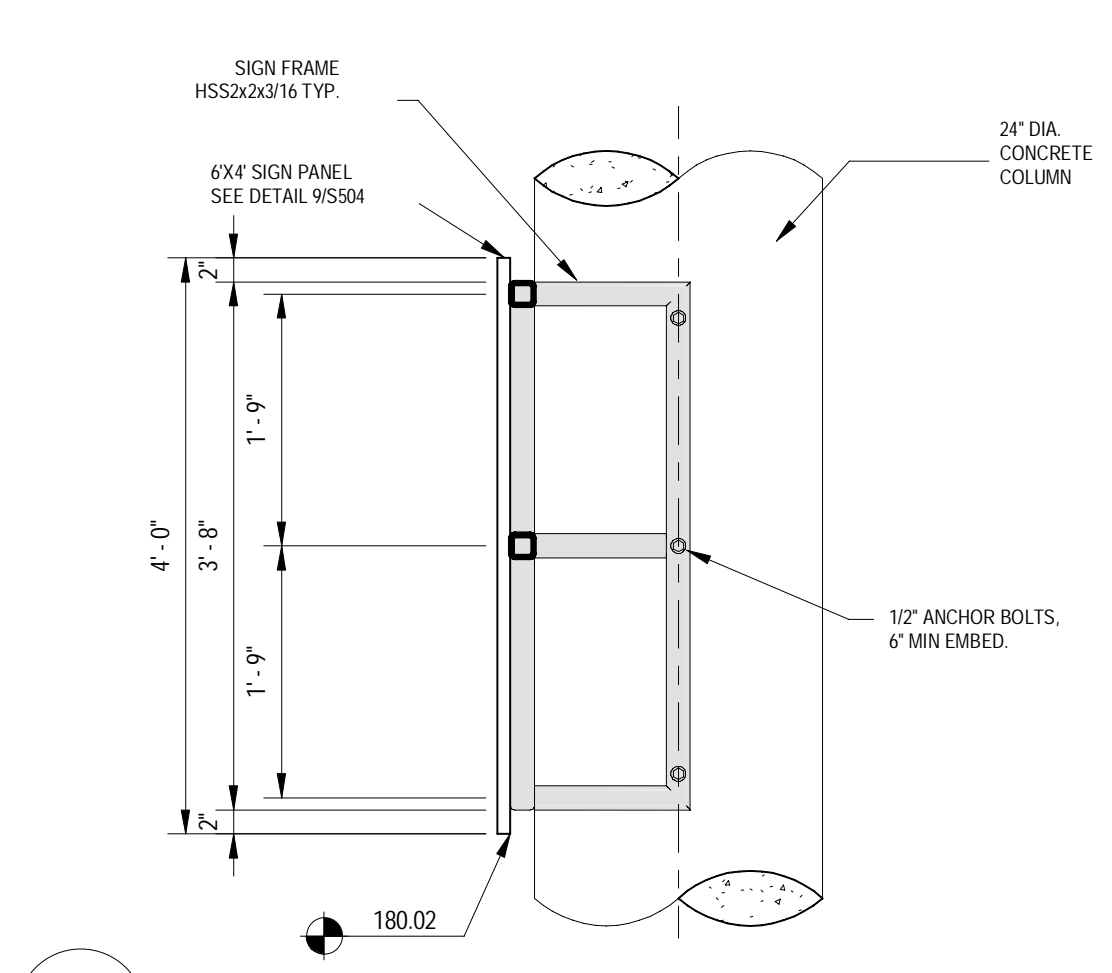
DRAWING NUMBER
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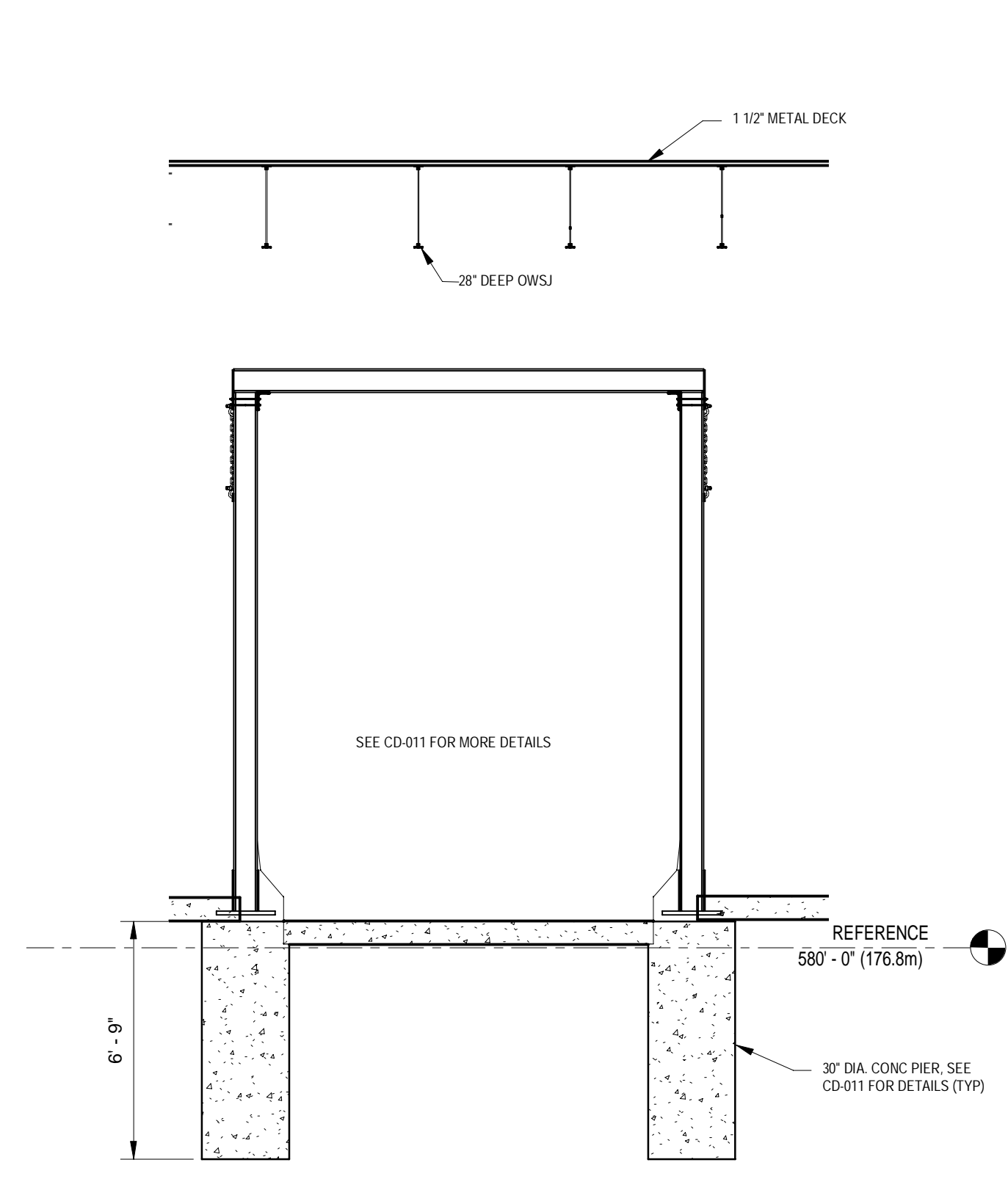
6 TRUCK CANOPY - SIGN FRAMING DETAIL AT GRIDLINE 1 AND 2
3/4" = 1'-0"



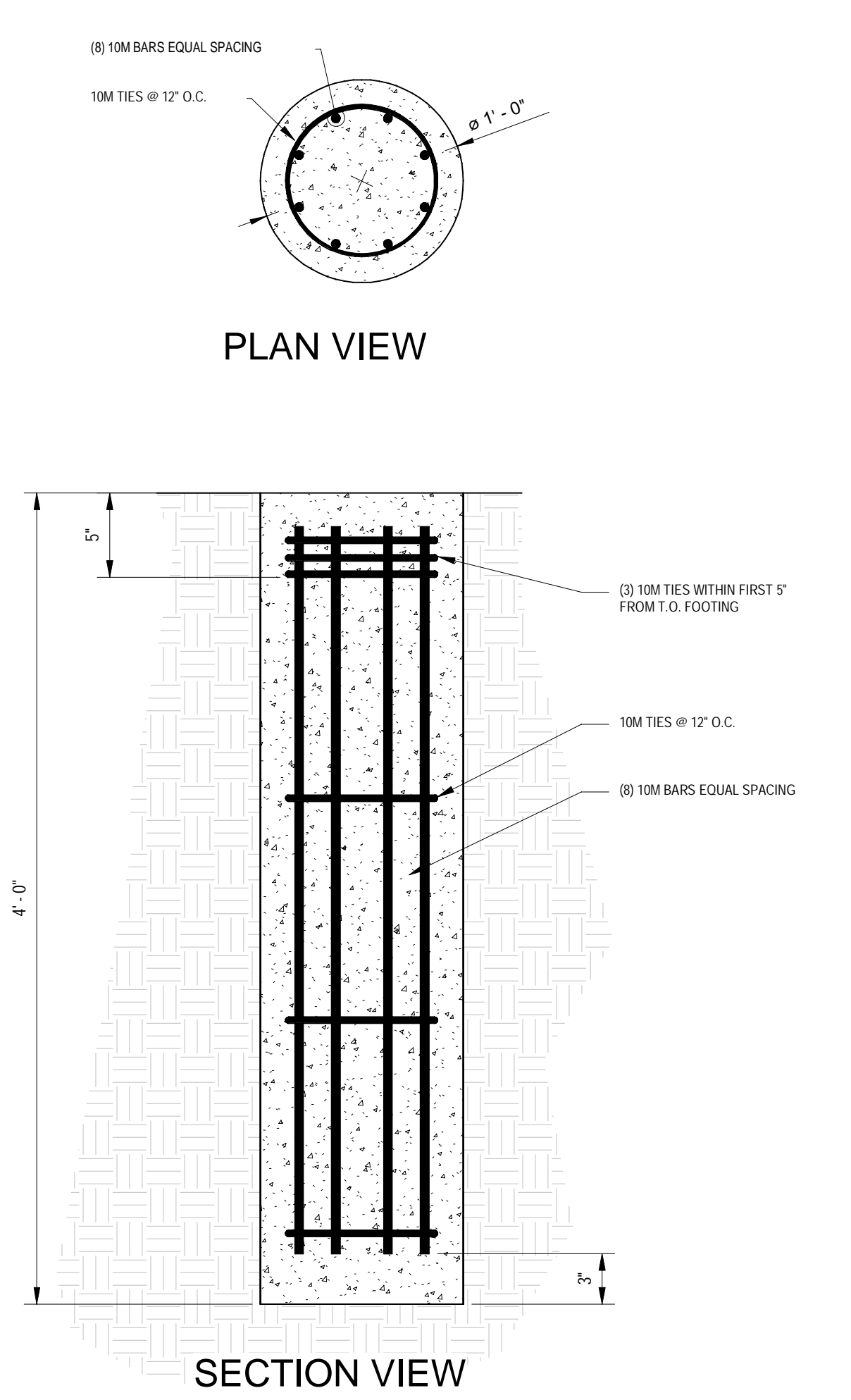
1 TRUCK CANOPY - SIGN FRAMING DETAIL AT GRIDLINE 4
3/4" = 1'-0"



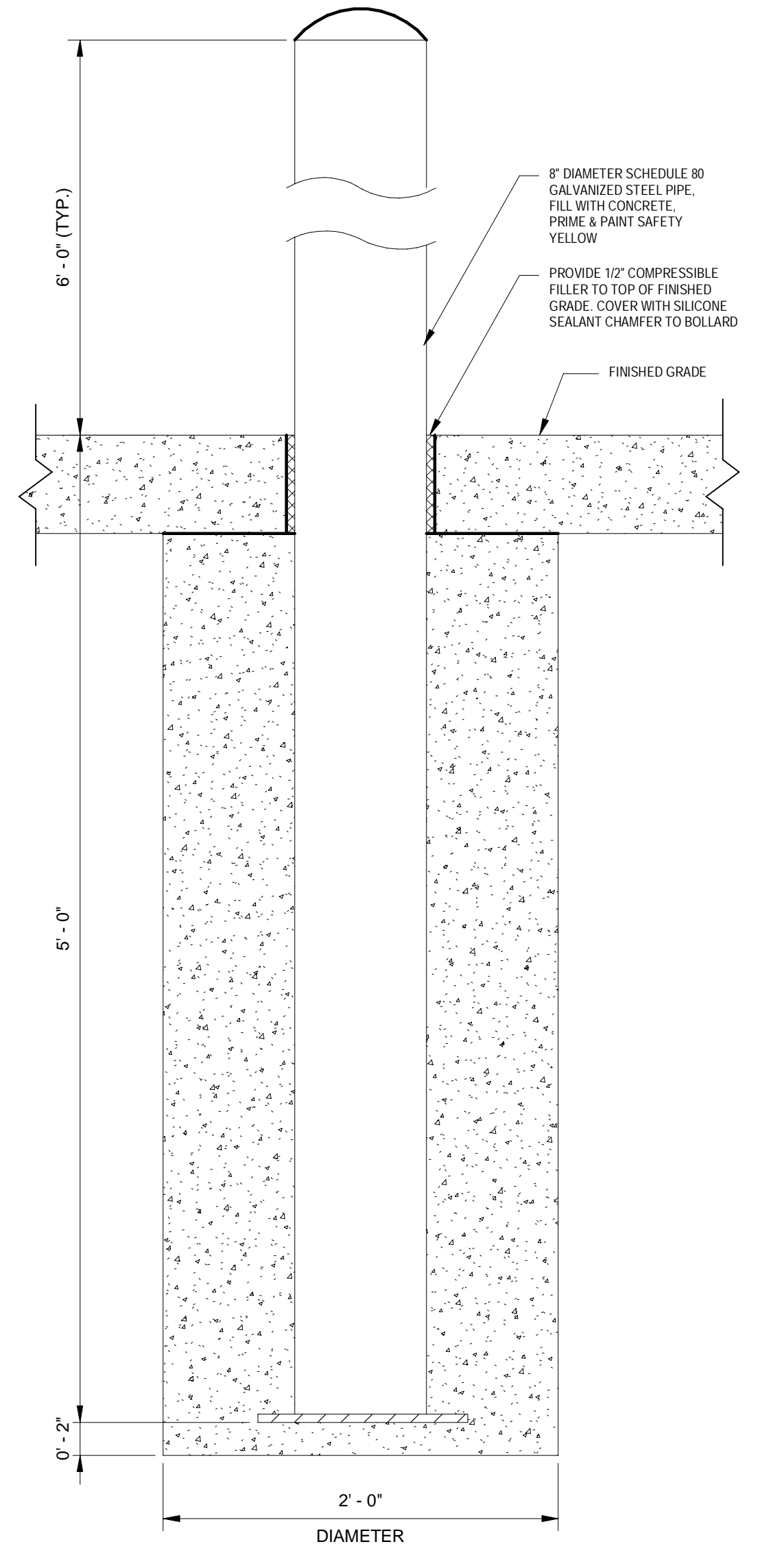
5 SECTION
3/4" = 1'-0"



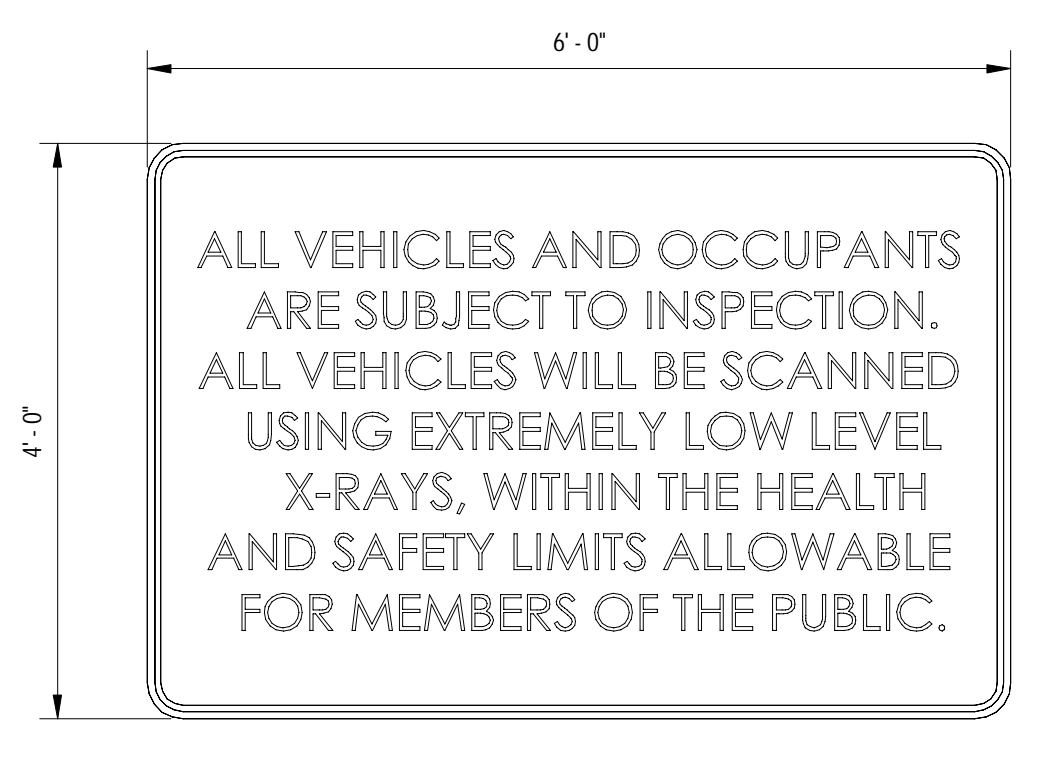
2 TYPICAL OVERHEIGHT BAR STRUCTURE SECTION
1/4" = 1'-0"



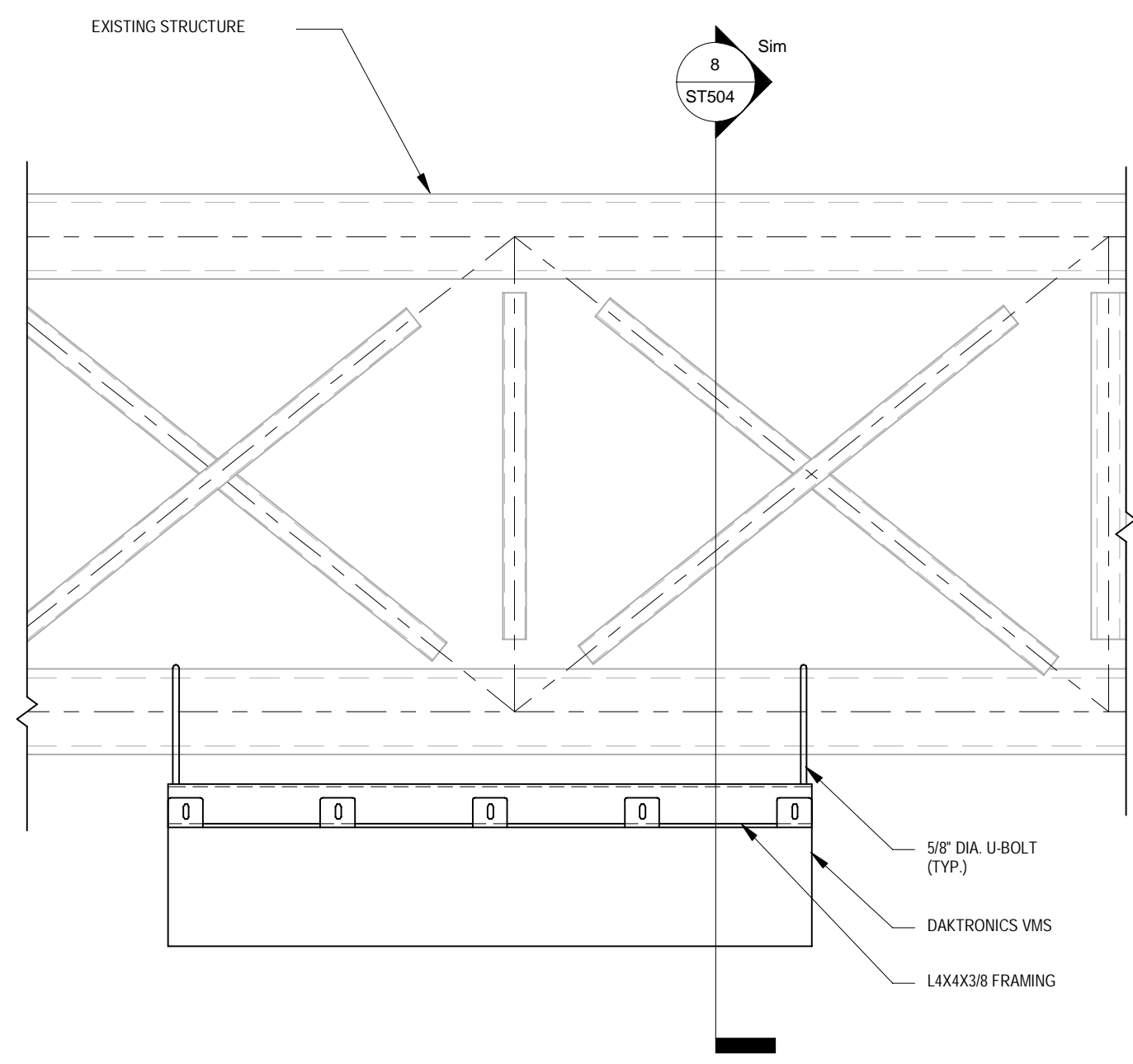
3 TYPICAL FENCING FOUNDATION
1 1/2" = 1'-0"



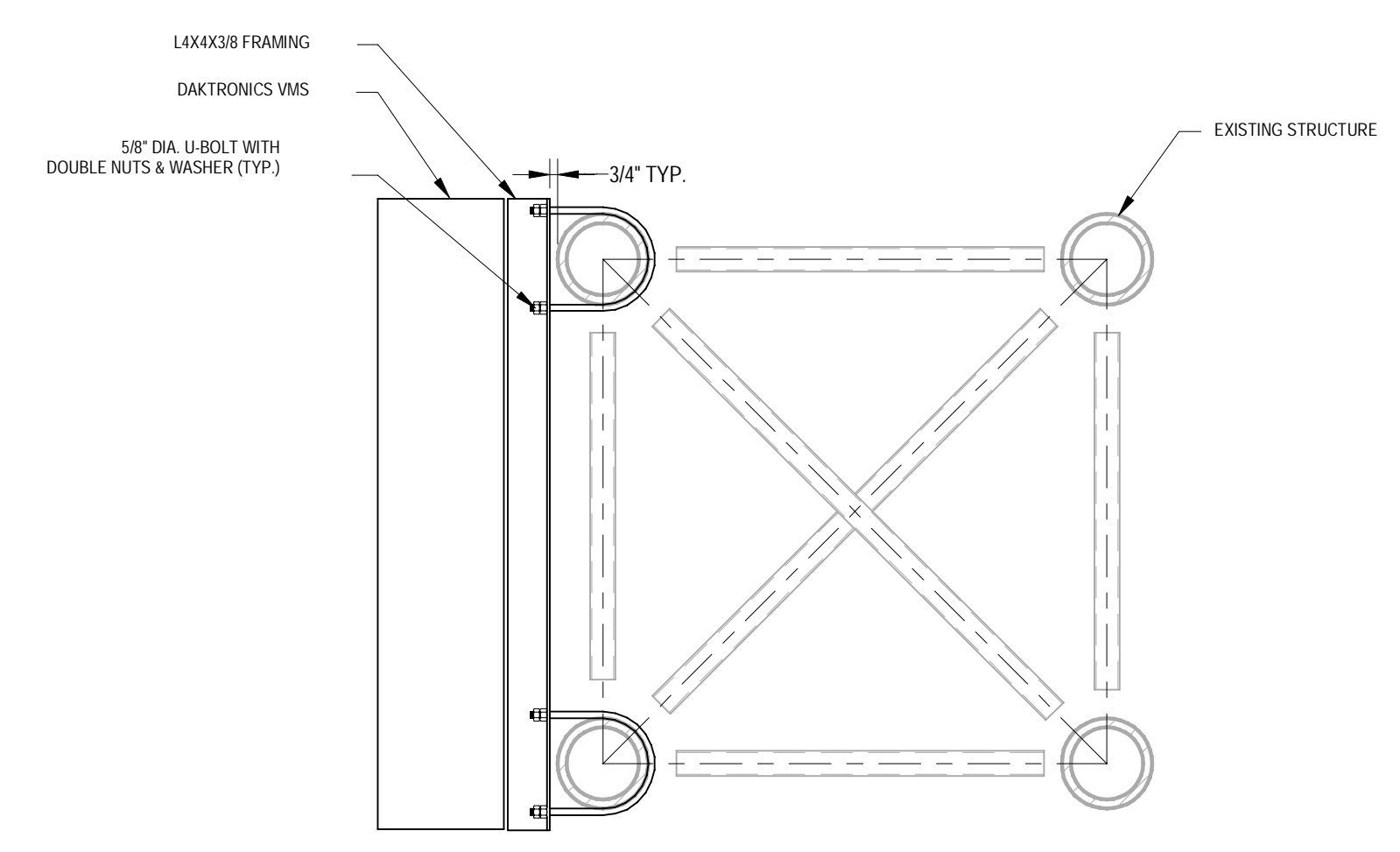
4 TYPICAL PROTECTIVE BOLLARD DETAIL
1 1/2" = 1'-0"



9 6'X4' INFORMATIONAL SIGN
3/4" = 1'-0"



7 TYPICAL GANTRY SIGN ATTACHMENT PLAN DETAIL
3/4" = 1'-0"



8 TYPICAL GANTRY SIGN ATTACHMENT SECTION DETAIL
3/4" = 1'-0"

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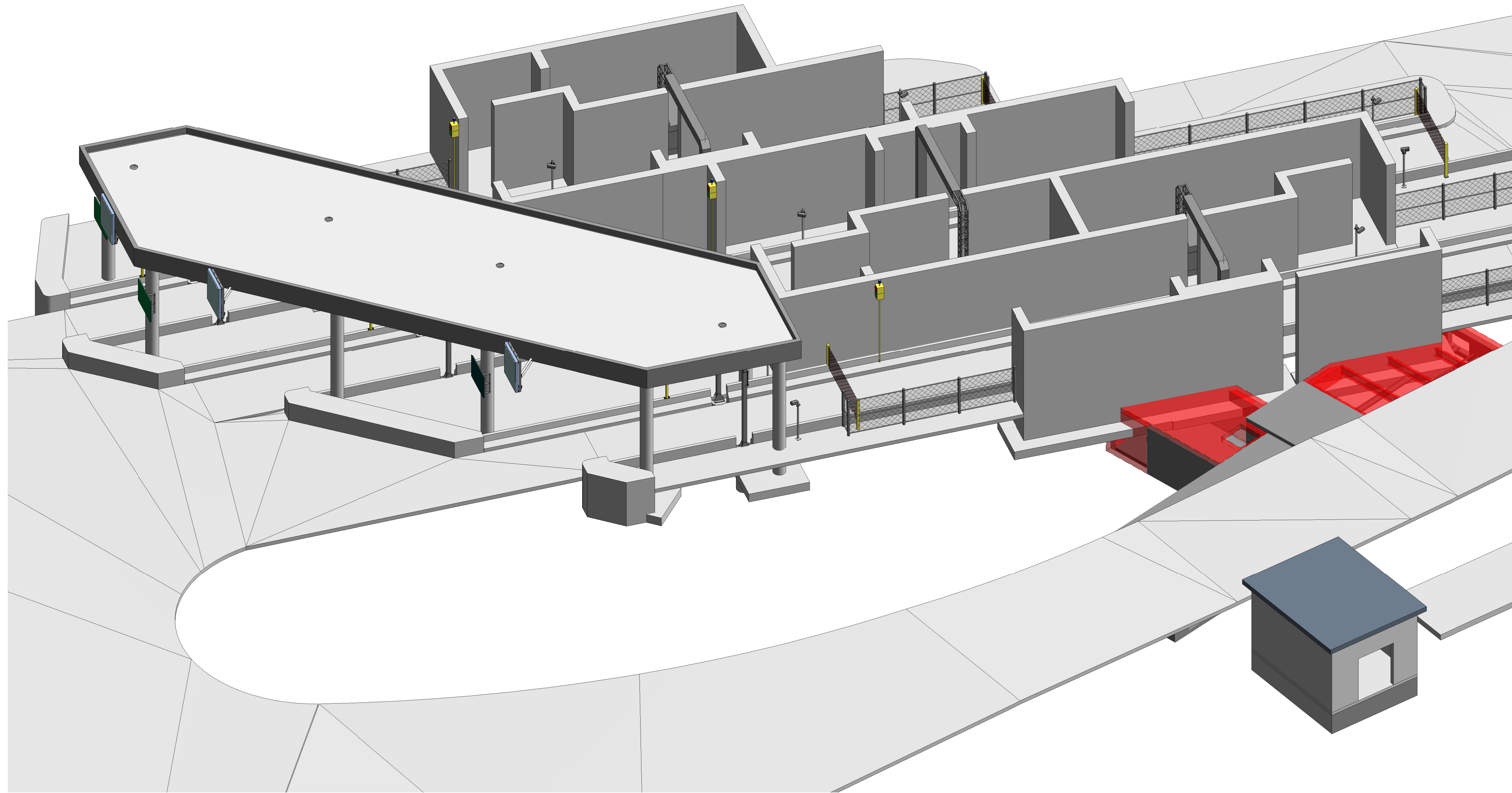
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DRAWN BY:	A. Hossainy	SUBMITTED BY:	RESPONSE TO REQUEST FOR PROPOSALS	DATE	
FILE NAME:	BRIDGE PROJECTS - BRIDGE G.C. - 10725	PILOT DATE:	03/01/2024		
SIZE:	22" X 34"				

DESIGNED BY:	A. Hossainy	CHECKED BY:	Checker
DRAWN BY:	A. Hossainy	SUBMITTED BY:	RESPONSE TO REQUEST FOR PROPOSALS
FILE NAME:	BRIDGE PROJECTS - BRIDGE G.C. - 10725	PILOT DATE:	03/01/2024
SIZE:	22" X 34"		

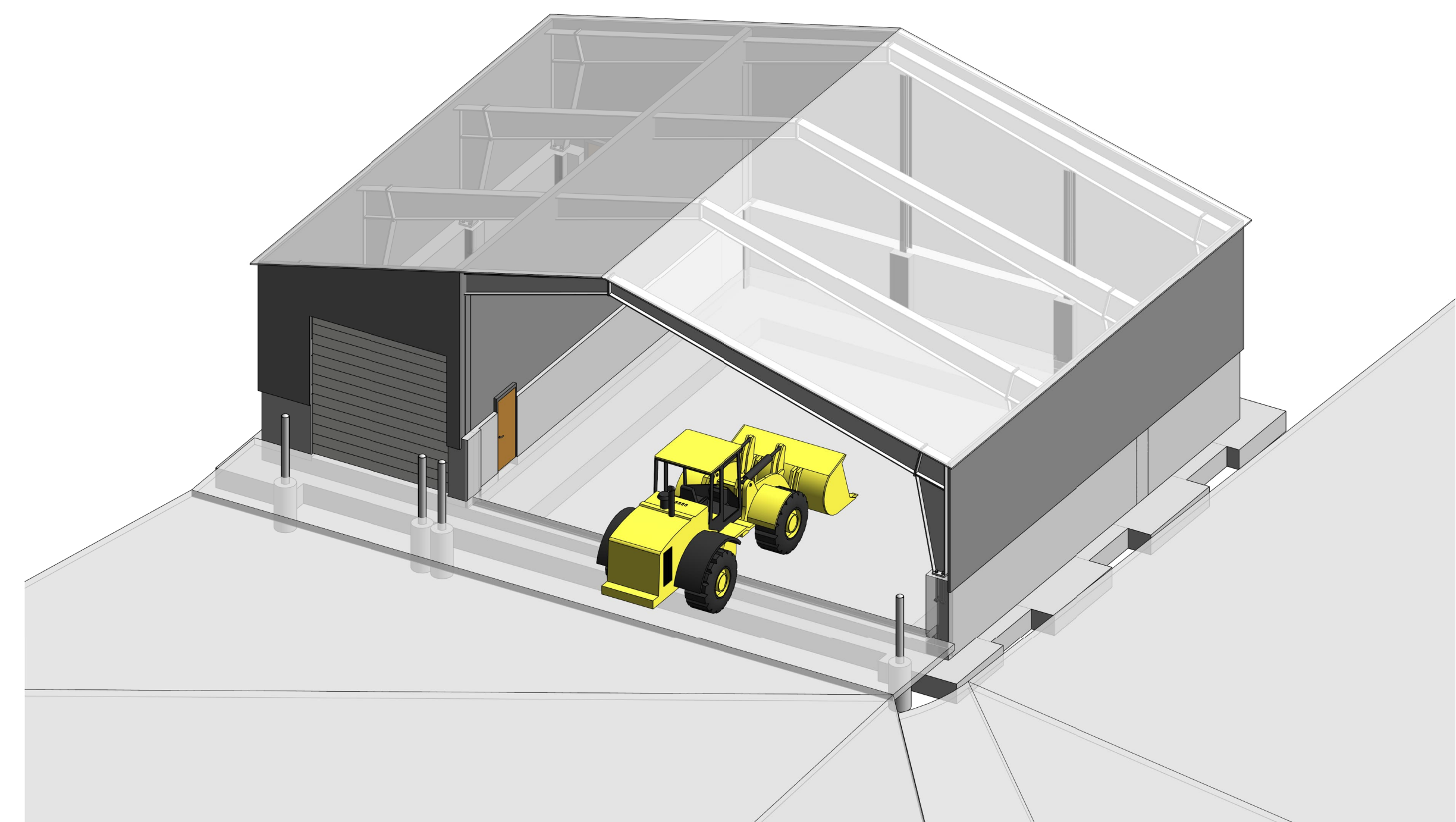
BUFFALO AND FORT ERIE
 BRIDGE AUTHORITY
 PROJECT XXX, PARE 3.0

TRUCK CANOPY MISC. DETAILS

BUFFALO AND FORT ERIE
 BRIDGE AUTHORITY
 PROJECT XXX, PARE 3.0
 TRUCK CANOPY MISC. DETAILS
 CROSSING HATTIS BUILDING FUTURES THE PEACE BRIDGE
 DRAWING NUMBER
ST504



1 TRUCK CANOPY ISOMETRIC VIEW




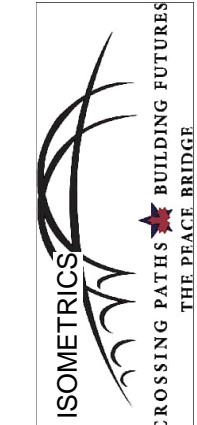
2 SALT SHED ISOMETRIC VIEW

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MARK	DESCRIPTION	DATE	APPR
A	ISSUED FOR BID (NOT FOR CONST.)	03/21/2024	

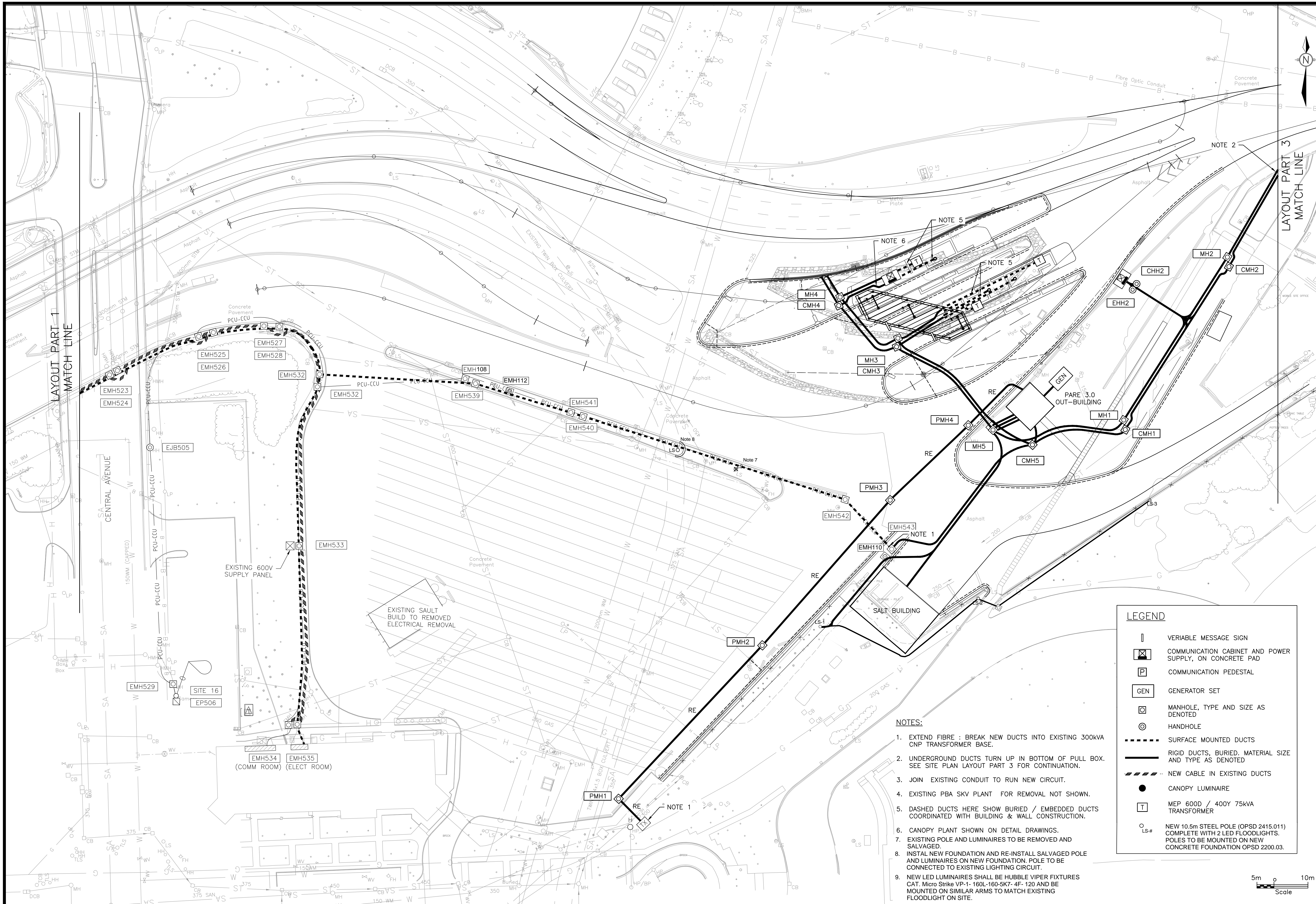
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A. Hossainy	03/21/2024
DWN BY:	SUBSTITUTION NO.:
A. Hossainy	
SUBMITTED BY:	CHECKED BY:
FILE NAME:	CONTRACT NO.:
20240321_1327	03/23/24
SIZE:	PLOTTED BY:
27" X 34"	
	PLOT DATE:
	03/01/2024

BUFFALO AND FORT ERIE
 PUBLIC BRIDGE AUTHORITY
 xx


BUFFALO AND FORT ERIE PUBLIC
 BRIDGE AUTHORITY
 PROJECT# XXX, PARE 3.0
 TRUCK CANOPY FRAMING ISOMETRICS
 VIEW


DRAWING
 NUMBER
ST901

S:\a\2020\20m-00635-00 PARE 3.0\20m-00635-00-101.dwg Fri, 16 Feb 2024 - 3:44pm GordonN



LAYOUT PART 1
MATCH LINE

LAYOUT PART 3
MATCH LINE

LEGEND

	VARIABLE MESSAGE SIGN
	COMMUNICATION CABINET AND POWER SUPPLY, ON CONCRETE PAD
	COMMUNICATION PEDESTAL
	GENERATOR SET
	MANHOLE, TYPE AND SIZE AS DENOTED
	HANDHOLE
	SURFACE MOUNTED DUCTS
	RIGID DUCTS, BURIED. MATERIAL SIZE AND TYPE AS DENOTED
	NEW CABLE IN EXISTING DUCTS
	CANOPY LUMINAIRE
	MEP 600D / 400Y 75KVA TRANSFORMER
	NEW 10.5m STEEL POLE (OPSD 2415.011) COMPLETE WITH 2 LED FLOODLIGHTS. POLES TO BE MOUNTED ON NEW CONCRETE FOUNDATION OPSD 2200.03.

- NOTES:**
1. EXTEND FIBRE : BREAK NEW DUCTS INTO EXISTING 300KVA CNP TRANSFORMER BASE.
 2. UNDERGROUND DUCTS TURN UP IN BOTTOM OF PULL BOX. SEE SITE PLAN LAYOUT PART 3 FOR CONTINUATION.
 3. JOIN EXISTING CONDUIT TO RUN NEW CIRCUIT.
 4. EXISTING PBA SKV PLANT FOR REMOVAL NOT SHOWN.
 5. DASHED DUCTS HERE SHOW BURIED / EMBEDDED DUCTS COORDINATED WITH BUILDING & WALL CONSTRUCTION.
 6. CANOPY PLANT SHOWN ON DETAIL DRAWINGS.
 7. EXISTING POLE AND LUMINAIRES TO BE REMOVED AND SALVAGED.
 8. INSTAL NEW FOUNDATION AND RE-INSTALL SALVAGED POLE AND LUMINAIRES ON NEW FOUNDATION. POLE TO BE CONNECTED TO EXISTING LIGHTING CIRCUIT.
 9. NEW LED LUMINAIRES SHALL BE HUBBLE VIPER FIXTURES CAT. Micro Strike VP-1-160L-160-5K7-4F-120 AND BE MOUNTED ON SIMILAR ARMS TO MATCH EXISTING FLOODLIGHT ON SITE.

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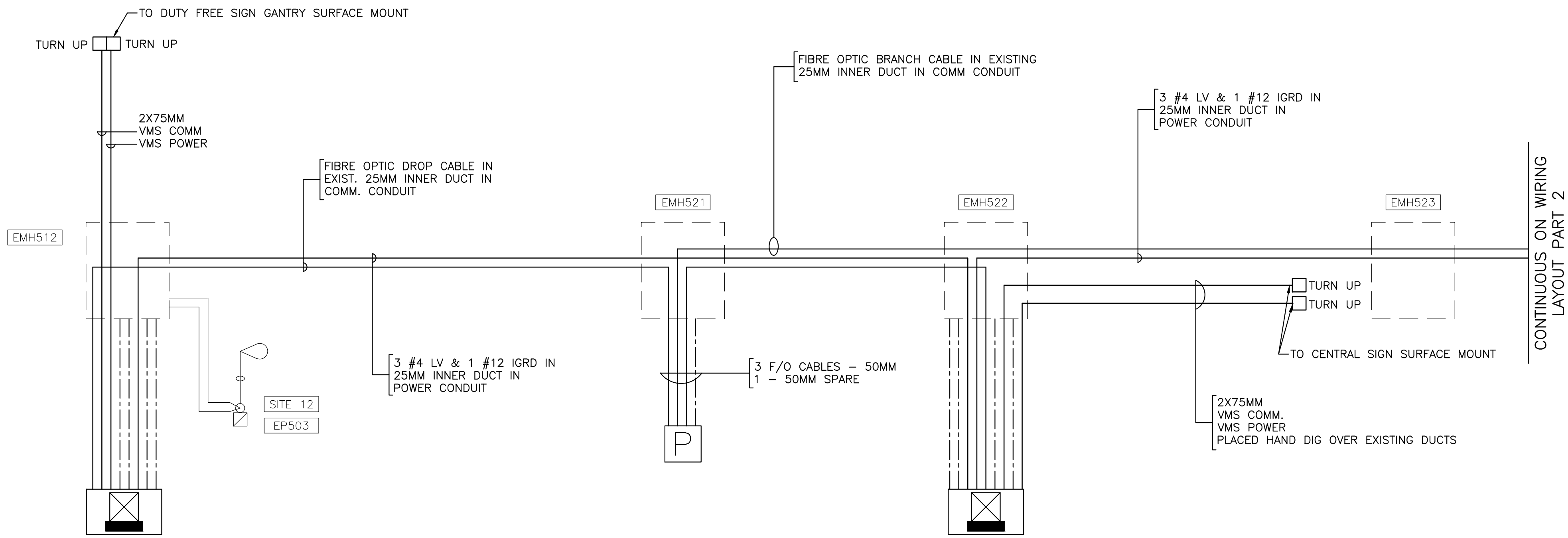
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A	ISSUED FOR BID (NOT FOR CONST)	03/21/2024	

DESIGNED BY: DOLUG MACLEAN	DATE: 09/15/2023
DWN BY: K.G.	SOLICITATION NO.:
SUBMITTED BY: WSP CANADA	CONTRACT NO.:
FILE NAME: 10mproj\external\2020\20m-00635\00-101.dwg	PILOT DATE: 02/16/2024
SIZE: ANSI D	PLOTTED BY: N.G.

BUFFALO AND FORT ERIE PUBLIC BRIDGE AUTHORITY
PROJECT #
PARE 3.0 CANADIAN PLAZA IMPROVEMENTS
SITE PLAN LAYOUT
PART 2

CROSSING PATHS BUILDING FUTURES
THE PEACE BRIDGE

DRAWING NUMBER
E2



SITE WIRING DIAGRAM PART 1

NOT TO SCALE

BUFFALO AND FORT ERIE
BRIDGE AUTHORITY
PROJECT# XXX - PARE 3.0
SITE WIRING LAYOUT
PART 1



WSP USA, Inc.
20 J. Rossiter Drive
Buffalo, N.Y. 14202
(716) 835-1200

DESIGNED BY: MIKE J. WILDE
OWN BY: BUFFALO AND FORT ERIE
PUBLIC BRIDGE AUTHORITY
SUBMITTED BY: WSP CANADA
FILE NAME: ep-co18\vm09529\20M-0035-0p-W01.dwg
SIZE: 22' X 34'
PLOTTED BY: N.F.G.

DATE: 01/XX/2024
SOLICITATION NO.:
CONTRACT NO.:
PLOT DATE: 02/16/2024

MARK	DESCRIPTION	DATE	APPR
A	ISSUED FOR BID (NOT FOR CONST)	03/27/2024	

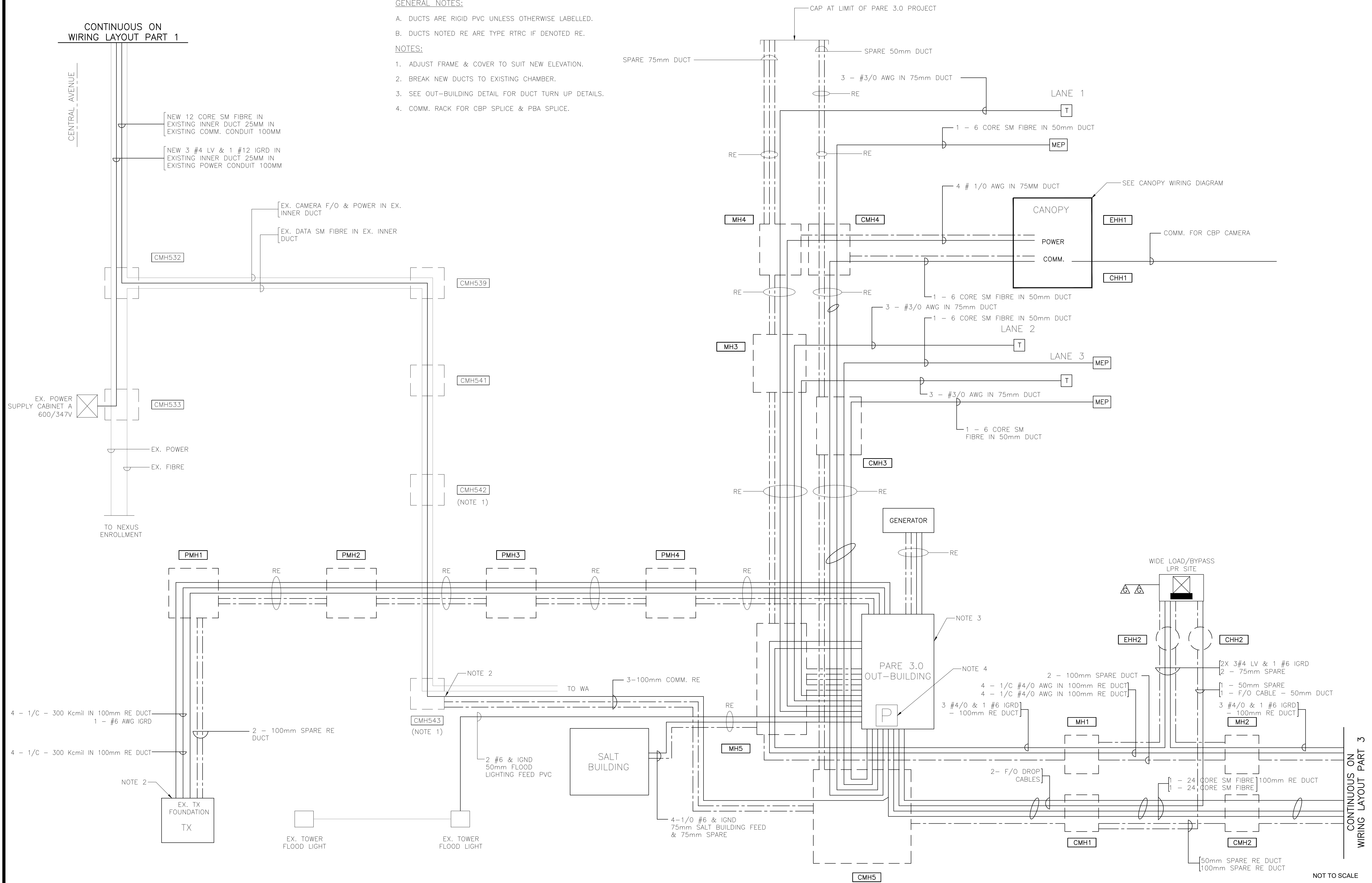
IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS ACTING IN THE INTEREST OF THE PUBLIC TO ALTER, ADD TO, REMOVE OR REPEAL ANY PART OF THIS DRAWING WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. THE SEAL OF AN ARCHITECT OR ENGINEER IS ALTERED IN ANY WAY IF AN ITEM BEARING THE SEAL OF AN ARCHITECT OR ENGINEER IS ALTERED. THE SEAL AND THE NOTATION ALTERED BY THE SIGNATURE AND THE DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

DISCLAIMER

S:\proj\2020\20M-0635-00 PARE 3.0\20M-0635-00-LW.dwg Tue, 27 Feb 2024 - 3:28pm GeraldH

CONTINUOUS ON WIRING LAYOUT PART 1

- GENERAL NOTES:**
- A. DUCTS ARE RIGID PVC UNLESS OTHERWISE LABELLED.
 - B. DUCTS NOTED RE ARE TYPE RTRC IF DENOTED RE.
- NOTES:**
- 1. ADJUST FRAME & COVER TO SUIT NEW ELEVATION.
 - 2. BREAK NEW DUCTS TO EXISTING CHAMBER.
 - 3. SEE OUT-BUILDING DETAIL FOR DUCT TURN UP DETAILS.
 - 4. COMM. RACK FOR CBP SPLICE & PBA SPLICE.



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DATE	DESCRIPTION	MARK
03/21/2024	ISSUED FOR BID (NOT FOR CONST)	A

DESIGNED BY: DOUG MACLEAN	DATE: 09/15/2023
DWN BY: D.P.M.	SOLICITATION NO.:
CKD BY: D.P.M.	CONTRACT NO.:
WSP CANADA	FILE NAME: c:\engineering\2020\20M-0635-00\20M-0635-00-LW.dwg
WSP USA, INC. 500 Lafayette Blvd. Baltimore, NY 14202 (716) 655-1220	ISSUED FOR BID (NOT FOR CONST)
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ANSI D	PLOTTED BY: N.G.
ANSI D	SIZE: N.G.

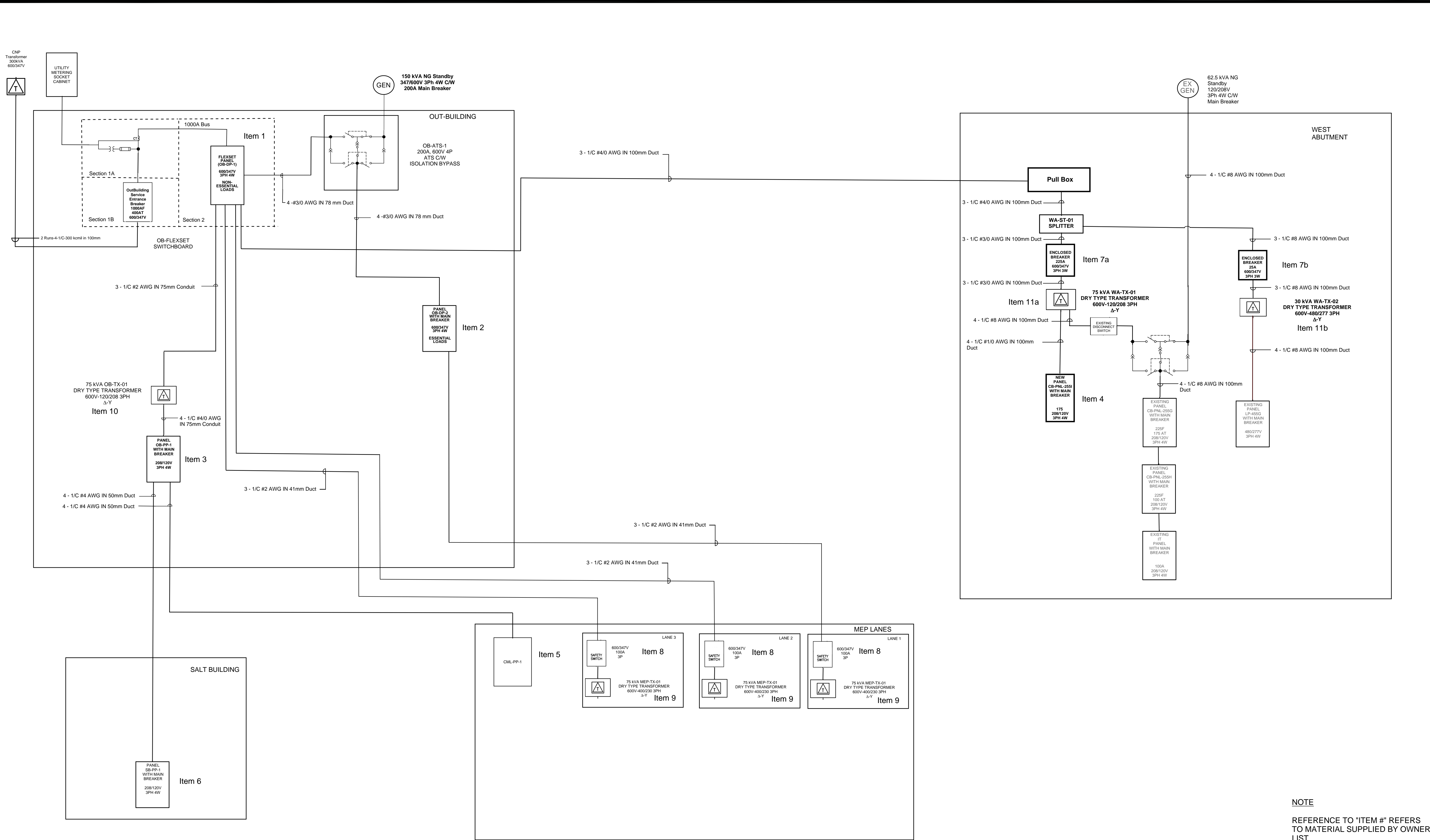
BUFFALO AND FORT ERIE PUBLIC BRIDGE AUTHORITY

PROJECT # CANADIAN PLAZA IMPROVEMENTS

SITE WIRING LAYOUT PART 2

DRAWING NUMBER
E6

NOT TO SCALE



NOTE
 REFERENCE TO "ITEM #" REFERS
 TO MATERIAL SUPPLIED BY OWNER
 LIST

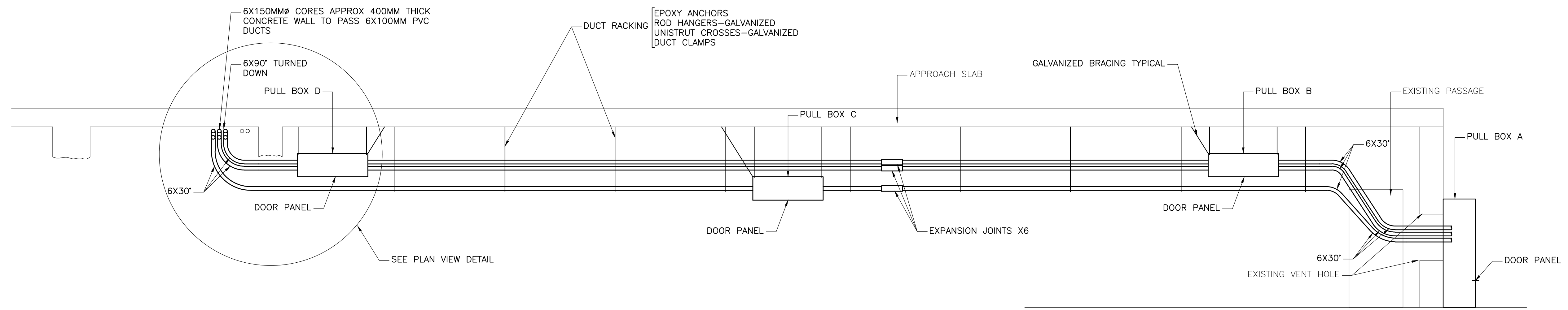
IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS ACTING UNDER THE DIRECT SUPERVISION OF A LICENSED ENGINEER TO SEAL, SIGN, OR ALTER ANY PART OF THIS DRAWING. ANY ALTERATION TO THIS DRAWING WITHOUT THE SIGNATURE OF THE ENGINEER IS UNLAWFUL. THE SEAL AND SIGNATURE OF THE ENGINEER SHALL AFFIX TO THEIR ITEM THE SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR NAME AND THE DATE OF THE ALTERATION. A SPECIFIC DESCRIPTION OF THE ALTERATION.

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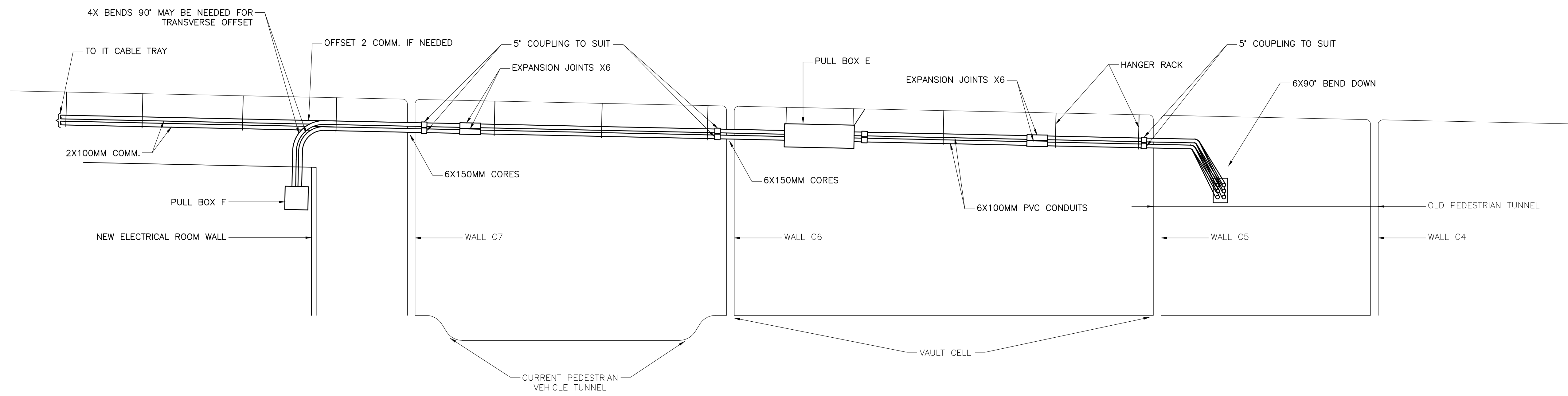
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DRAWN BY: K.C.	SOLICITATION NO.:
SUBMITTED BY: WSP CANADA	CONTRACT NO.:
FILE NAME:	ISSUED FOR BID (NOT FOR CONST)
SIZE: ANSI D	DATE: 09/15/2023
PLOTTED BY:	MARK:

BUFFALO AND FORT ERIE PUBLIC BRIDGE AUTHORITY
PROJECT #
PAVE 3.0 CANADIAN PLAZA IMPROVEMENTS
SINGLE LINE DIAGRAMS

SHEET REFERENCE NUMBER
E-8



DETAIL A
 VIEW IN PROFILE IN OLD PEDESTRIAN TUNNEL
 LOOKING TOWARDS BRIDGE AT WALL C5
 N.T.S.

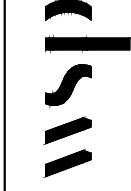


DETAIL B
 VIEW IN PROFILE FROM OLD PEDESTRIAN TUNNEL
 TO NEW ELECTRICAL ROOM
 N.T.S.

NOT TO SCALE

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MARK	DATE
A	03/21/2024
ISSUED FOR BID (NOT FOR CONST)	
DESCRIPTION	
APPR	

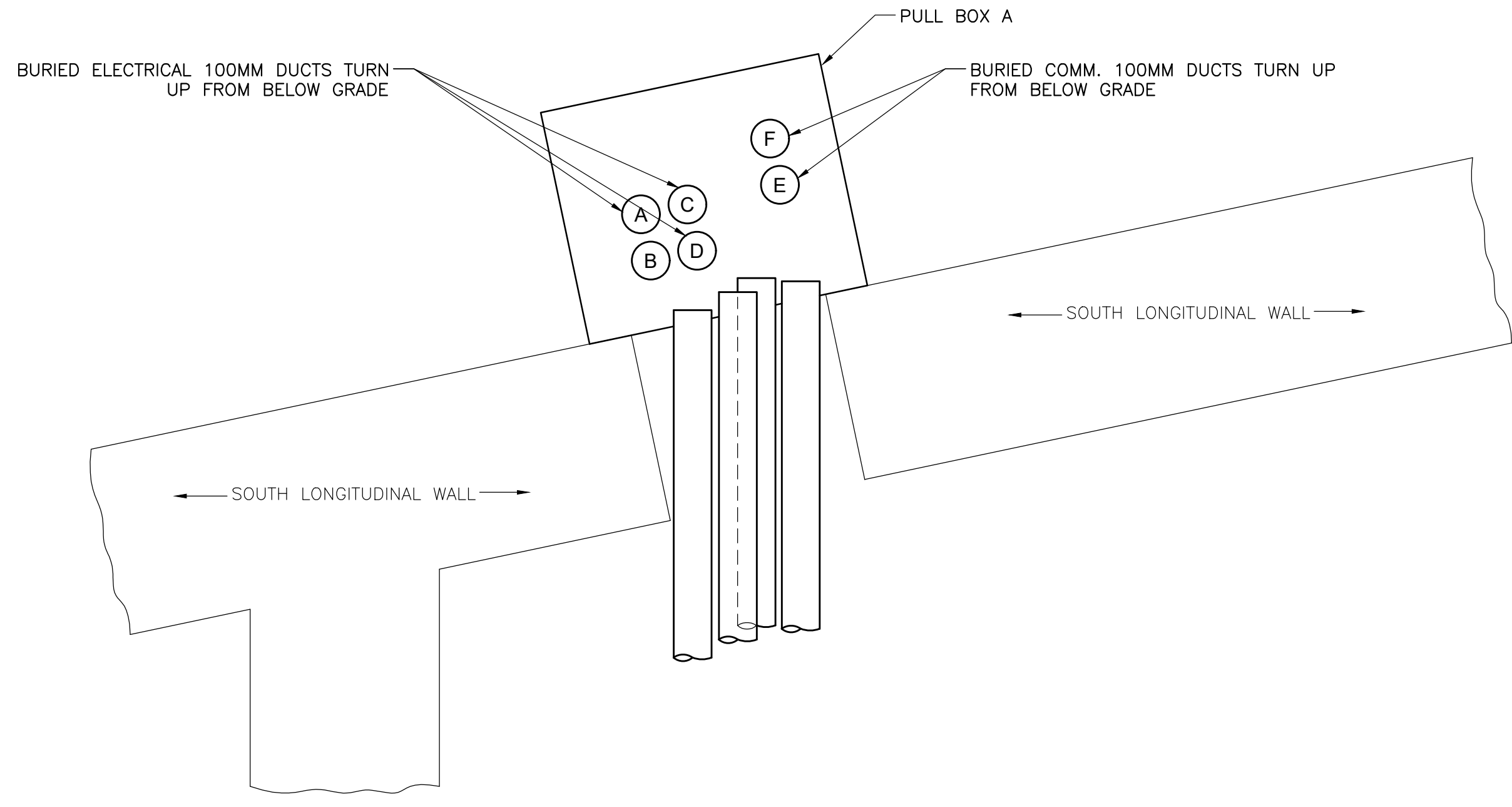
DESIGNED BY	DATE
MIKE J. WILDE	02/07/2024
DRAWN BY	SOLICITATION NO.
M.J.W.	
SUBMITTED BY	CONTRACT NO.
WSP CANADA	
FILE NAME	PLOT DATE
22' X 34'	02/07/2024
PLOTTED BY	
N.F.G.	

BUFFALO AND FORT ERIE
 PUBLIC BRIDGE AUTHORITY

 WSP USA, Inc.
 30 J. J. Moore Drive
 Buffalo, N.Y. 14202
 (716) 836-1200

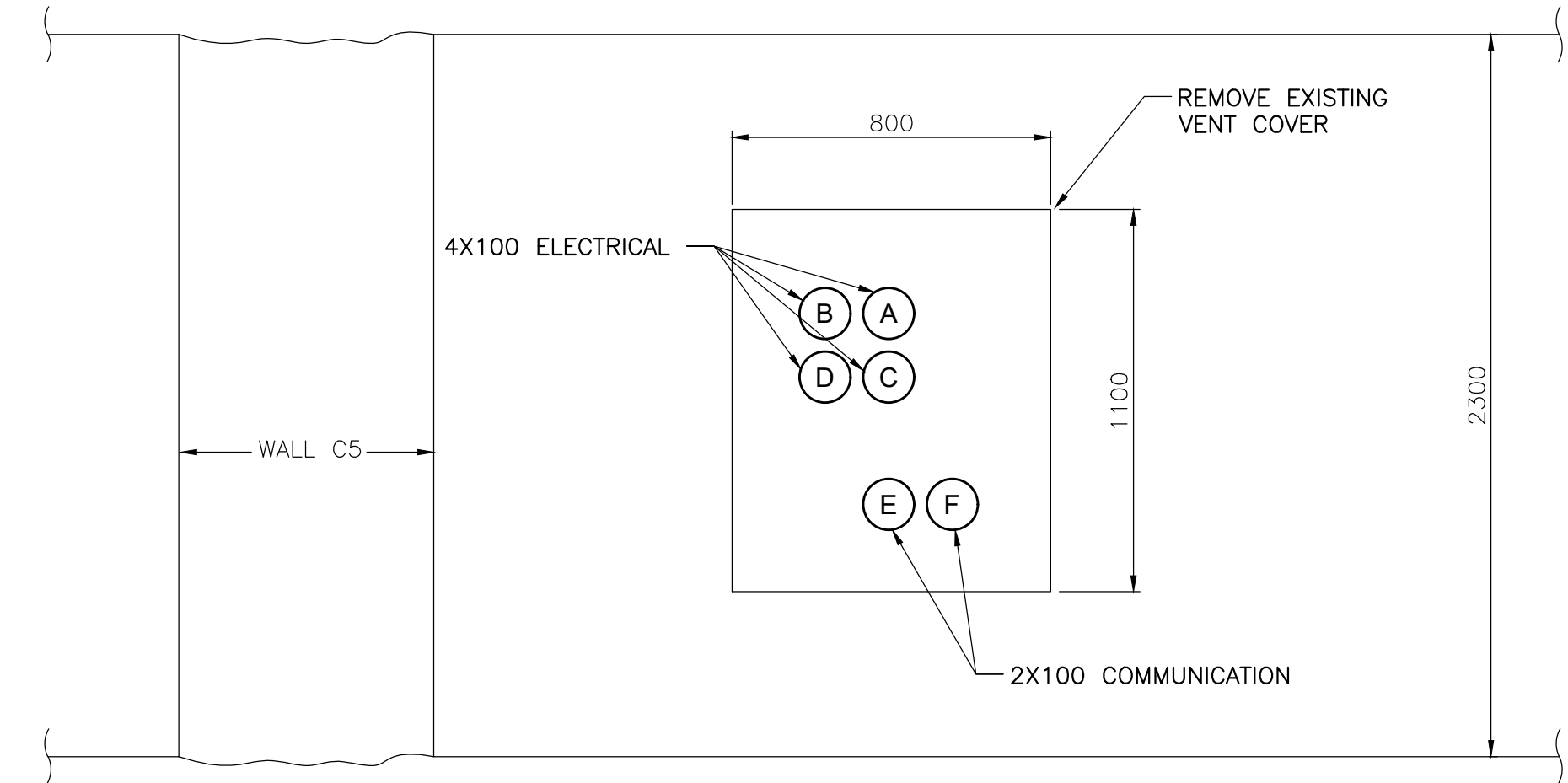
BUFFALO AND FORT ERIE PUBLIC
 BRIDGE AUTHORITY
 PROJECT# XXX PARE 3.0
 ELECTRICAL DETAILS-2

 CROSSING PATHS BUILDING FUTURES
 THE PEACE BRIDGE

DRAWING
 NUMBER
E11



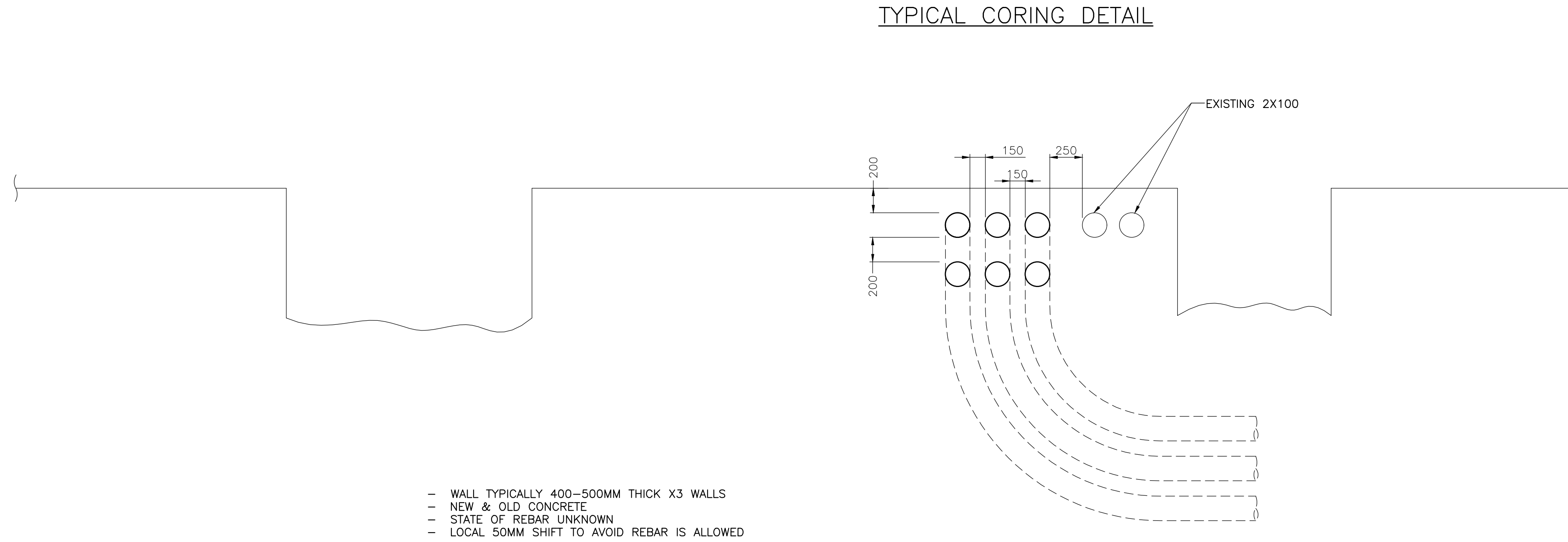
DETAIL C
PLAN VIEW DETAIL AT WALL
N.T.S.



DETAIL C
LOOKING SOUTH AT OLD PED TUNNEL EXTERIOR WALL FROM INSIDE STRUCTURE
PROFILE DETAIL THROUGH EXISTING VENT
N.T.S.

NOT TO SCALE

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MARK	DATE
A	03/21/2024
ISSUED FOR BID (NOT FOR CONST)	APPR
DESCRIPTION	
DESIGNED BY	DATE
MIKE J. WILDE	02/07/2024
DRAWN BY	SOLICITATION NO.
M.J.W.	
SUBMITTED BY	CONTRACT NO.
WSP CANADA	
FILE NAME: <small>ps:\wsp\c018\dm09529\2304-0035-00-D01.dwg</small>	FILE DATE: <small>02/07/2024</small>
SIZE: 22' X 34'	PLOTTED BY: N.F.G.
BUFFALO AND FORT ERIE PUBLIC BRIDGE AUTHORITY	WSP USA, Inc. 20 J. J. Moore Drive Buffalo, N.Y. 14202 (716) 836-1200
BUFFALO AND FORT ERIE PUBLIC BRIDGE AUTHORITY PROJECT# XXX PARE 3.0 ELECTRICAL DETAILS-3	CROSSING PATHS BUILDING FUTURES THE PEACE BRIDGE
DRAWING NUMBER	
E12	



- WALL TYPICALLY 400-500MM THICK X3 WALLS
- NEW & OLD CONCRETE
- STATE OF REBAR UNKNOWN
- LOCAL 50MM SHIFT TO AVOID REBAR IS ALLOWED

DETAIL D
LOOKING TOWARDS BRIDGE AT WALL C5
 N.T.S.

NOT TO SCALE

**BUFFALO AND FORT ERIE
 BRIDGE AUTHORITY**
 PROJECT# XXX PARE 3.0
ELECTRICAL DETAILS-4

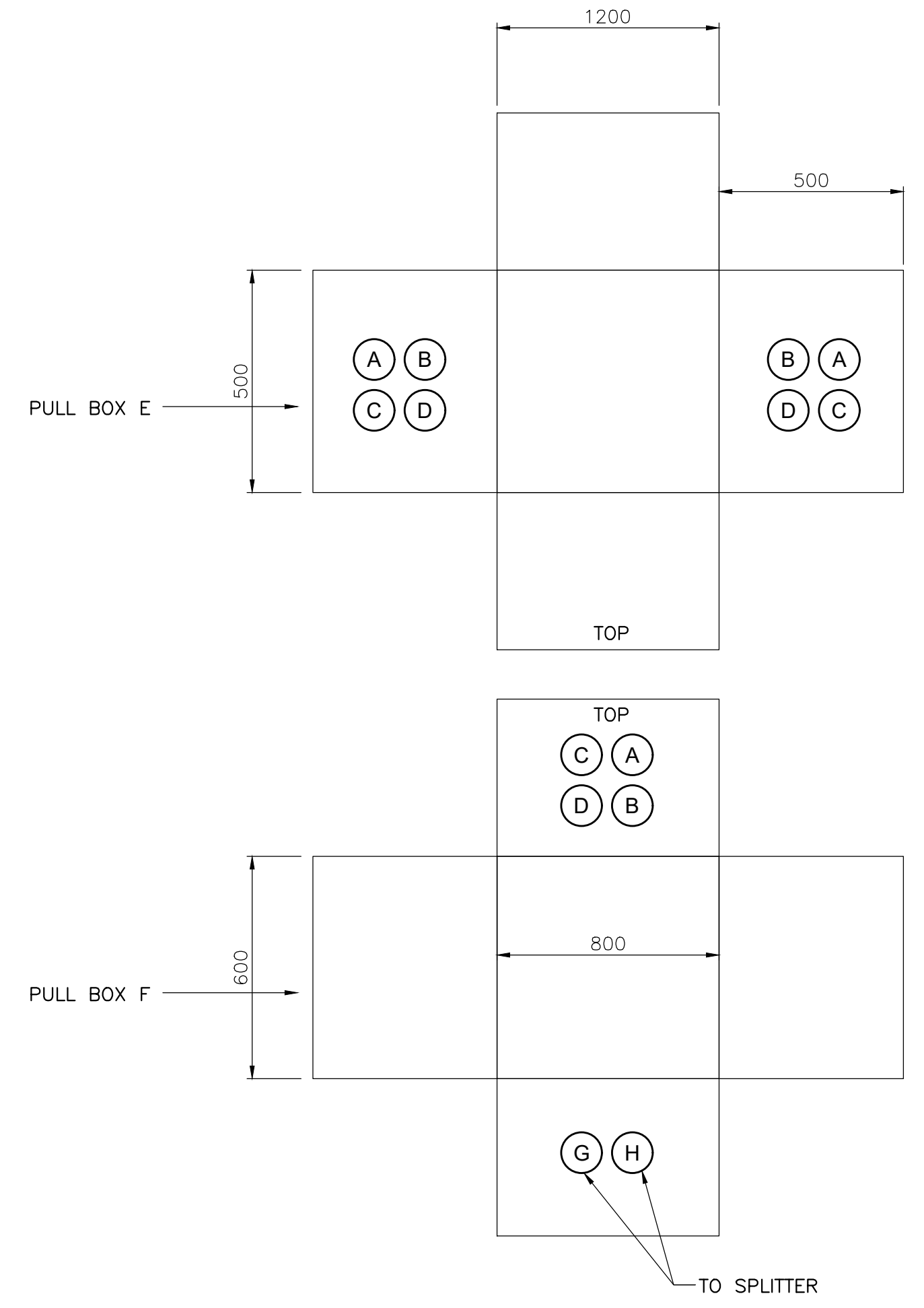
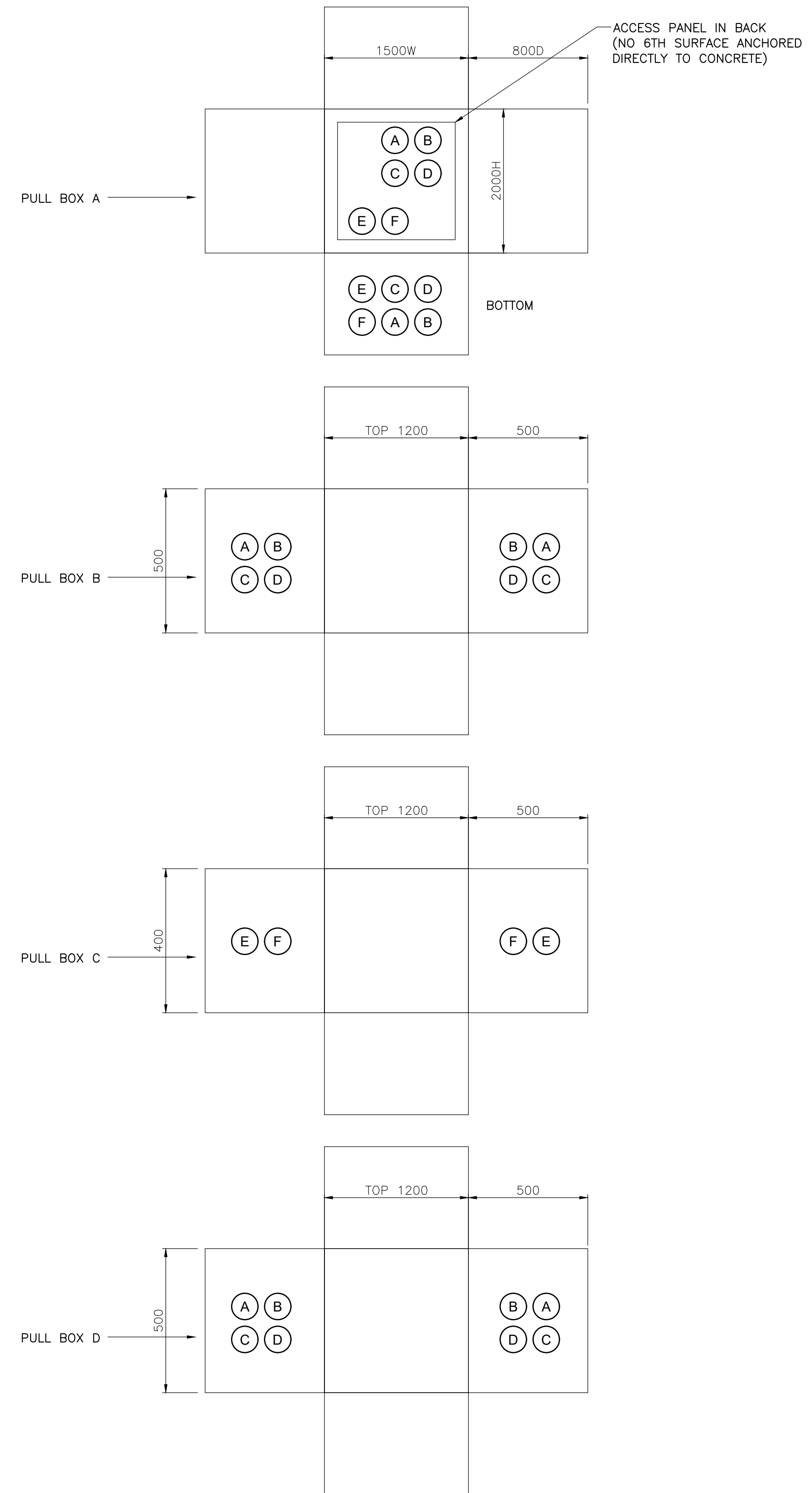
DESIGNED BY: MIKE J. WILDE
DRAWN BY: M.J.W.
DATE: 02/07/2024

SUBMITTED BY: WSP CANADA
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SIZE: 22' X 34"

ISSUED FOR BID (NOT FOR CONST): A
MARK: A
DATE: 03/27/2024
APPR:

IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS ACTING AS AN ENGINEER TO ALTER AN ITEM IN ANY WAY IF AN ITEM BEARING THE SEAL OF AN ARCHITECT OR ENGINEER IS ALTERED. THE ARCHITECT OR ENGINEER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE SEAL AND THE NOTATION ALTERED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

DISCLAIMER



NOTES:
1. BENDING / WELDING / DOOR ATTACHMENT SUPPORT BRACING NOT SHOWN.

DETAIL F
STAINLESS STEEL 316 FULL BOX DETAIL FACING WEST ABUTMENT VOID SPACE
N.T.S.

NOT TO SCALE

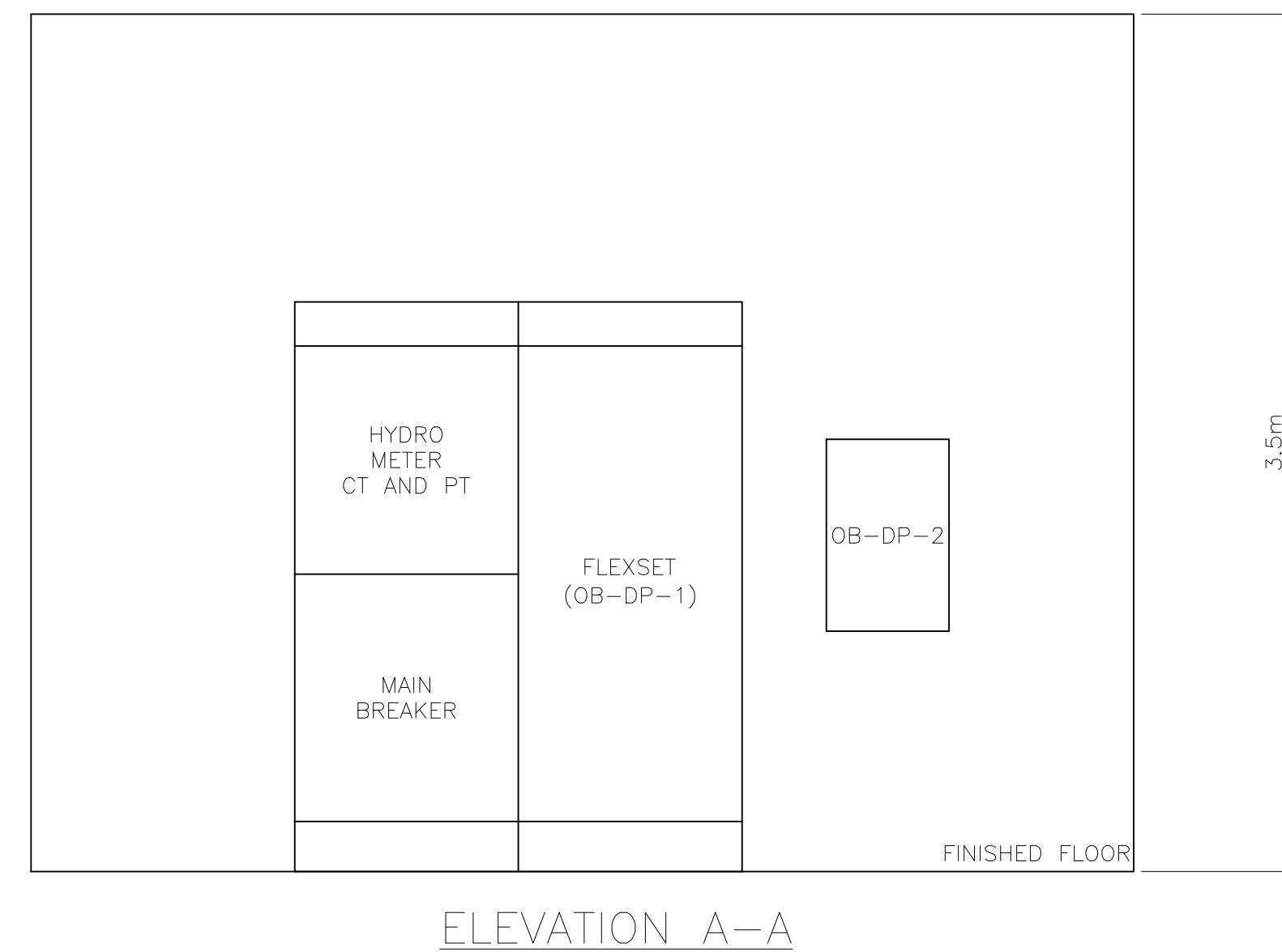
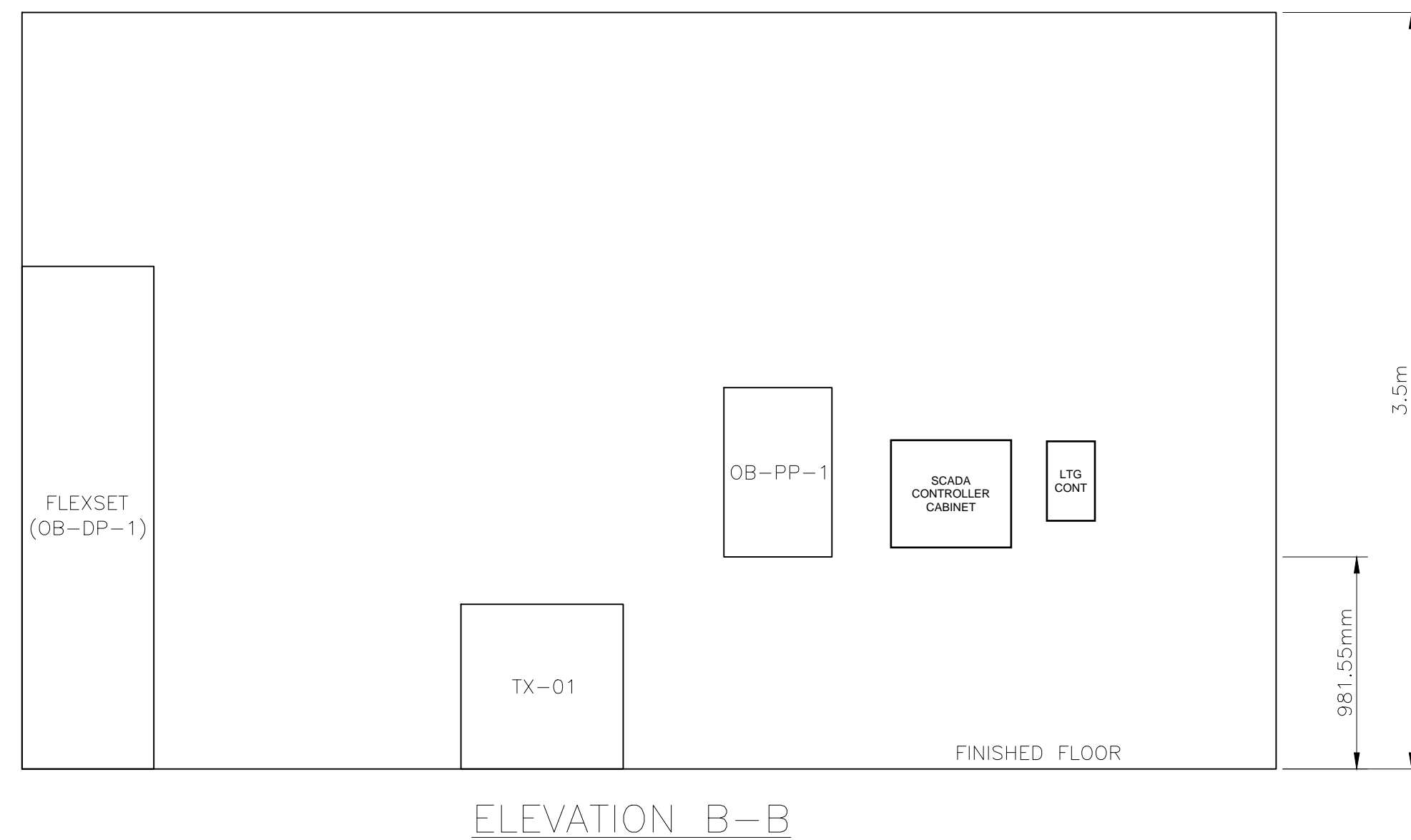
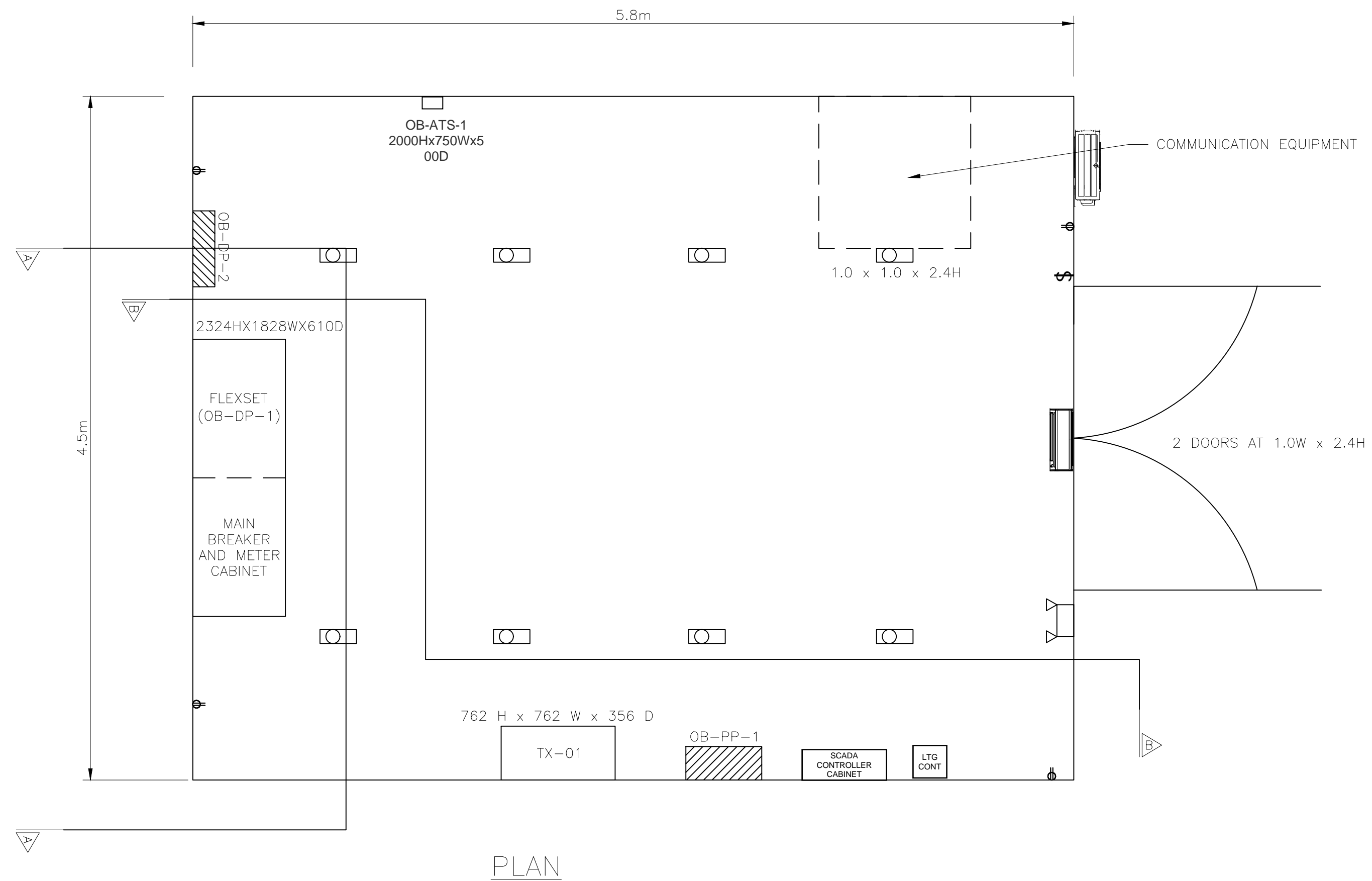
<p>IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS ACTING AS AN ENGINEER OR ARCHITECT TO SEAL OR SIGN ANY DRAWING OR ENGINEER TO ALTER AN ITEM IN ANY WAY IF AN ITEM BEARING THE SEAL OF AN ARCHITECT OR ENGINEER IS ALTERED. THE SEALING AND SIGNING OF ANY DRAWING OR ENGINEERING DOCUMENT SHALL BE THE RESPONSIBILITY OF THE SEALER AND THE DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.</p>	
<p>DESIGNED BY: MIKE J. WILDE</p>	<p>DATE: 02/07/2024</p>
<p>DRAWN BY: M.J.W.</p>	<p>SOLICITATION NO.:</p>
<p>SUBMITTED BY: WSP CANADA</p>	<p>CONTRACT NO.:</p>
<p>FILE NAME: p:\wsp\canada\hwy60\pwr-co18\09529\K20M-0035-00-D01.dwg</p>	<p>ISSUED FOR BID (NOT FOR CONST):</p>
<p>SIZE: 22" X 34"</p>	<p>MARK: A</p>
<p>PLOTTED BY: N.F.G.</p>	<p>DATE: 03/21/2024</p>
<p>PLOT DATE: 02/07/2024</p>	<p>APPR:</p>
<p>DESCRIPTION:</p>	<p>DATE:</p>

BUFFALO AND FORT ERIE PUBLIC BRIDGE AUTHORITY
 PROJECT# XXX PARE 3.0
ELECTRICAL DETAILS - 6

CROSSING PATHS BUILDING FUTURES
 THE PEACE BRIDGE

DRAWING NUMBER
E15

WSP
 WSP USA, Inc.
 20 J. Rodgers Drive
 Buffalo, N.Y. 14202
 (716) 835-1200



LEGEND

- PANELBOARD
- EMERGENCY BATTERY PACK LIGHT FIXTURE UNILINE H-7260
- DUPLEX RECEPTACLE
- LIGHTING SWITCH
- LED WRAP LIGHT-4,000 LUMENS LITHONIA H-6433
- 12000 BTU DUCTLESS HEAT PUMP MINI SPLIT SYSTEM WITH INDOOR AND OUTDOOR UNIT MITSUBISHI OR EQUAL

NOTES:

1. COORDINATE INSTALLATION ALL ELECTRICAL EQUIPMENT WITH THE PREFAB OUT-BUILDING MANUFACTURER.
2. ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH CSA C22.1, CANADIAN ELECTRICAL CODE, PART 1, SAFETY STANDARDS FOR ELECTRICAL INSTALLATIONS INCLUDING AND ESA AMENDMENTS.
3. CONTRACTOR TO INSTALL 3 COPPER CLAD GROUND RODS THERMIT WELDED TO SOFT-DRAWN TIN-PLATED COPPER #4/0 AWG BARE GROUND WIRE TO CREATE A 3m TRIAD GROUND GRID AT THE SIDE OF THE BUILDING THIS GROUND GRID SHALL BE EXTEND WITH #4/0 INSULATED GROUND WIRE VIA AN UNDERGROUND PVC SLEEVE TO BUILDING GROUND BUS.
4. CONTRACTOR SHALL INSTALL A COPPER GROUND BUS CONSISTING COMPLETE AROUND THE PERIMETER OF THE ROOM. IT SHALL RISE OVER THE DOOR OPENING. THE BUS SHALL BE 50mm x 6 mm THICK AND COMPLETE WITH INSULATED SUPPORTS, FASTENINGS, CONNECTORS AS REQUIRED. EXCEPT AT THE DOOR THE GROUND BUS SHALL BE INSTALLED 200 MM ABOVE FLOOR SLAB.
5. CONTRACTOR TO INSTALL NEW 12000 BTU DUCTLESS HEAT PUMP MINI SPLIT UNITS AS INDICATED.
6. PBA WILL PROVIDE A ALLEN-BRADLEY SCADA MODULE FOR INSTALLATION BY CONTRACTOR. THIS MODULE WILL INTERFACE WITH PBA LIGHTING NETWORK LOCATED IN COMMUNICATION RACK. THE MODULE WILL THEN PROVIDE CONTROL THE 30A-3P LIGHTING CONTACTOR WHICH PROVIDES POWER TO SITE LIGHTING POLES.

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECT SUPERVISION OF A LICENSED ARCHITECT OR ENGINEER, TO ALTER AN ITEM IN ANY DRAWING OR SPECIFICATION, OR TO REPRODUCE OR COPY ANY PART OF THE DRAWING OR SPECIFICATION. THE ALTERING ARCHITECT OR ENGINEER SHALL AFFIX TO THEIR ITEM THE SEAL AND SIGNATURE AND THE DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

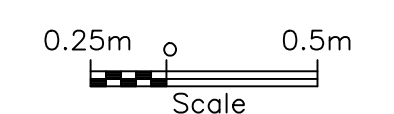
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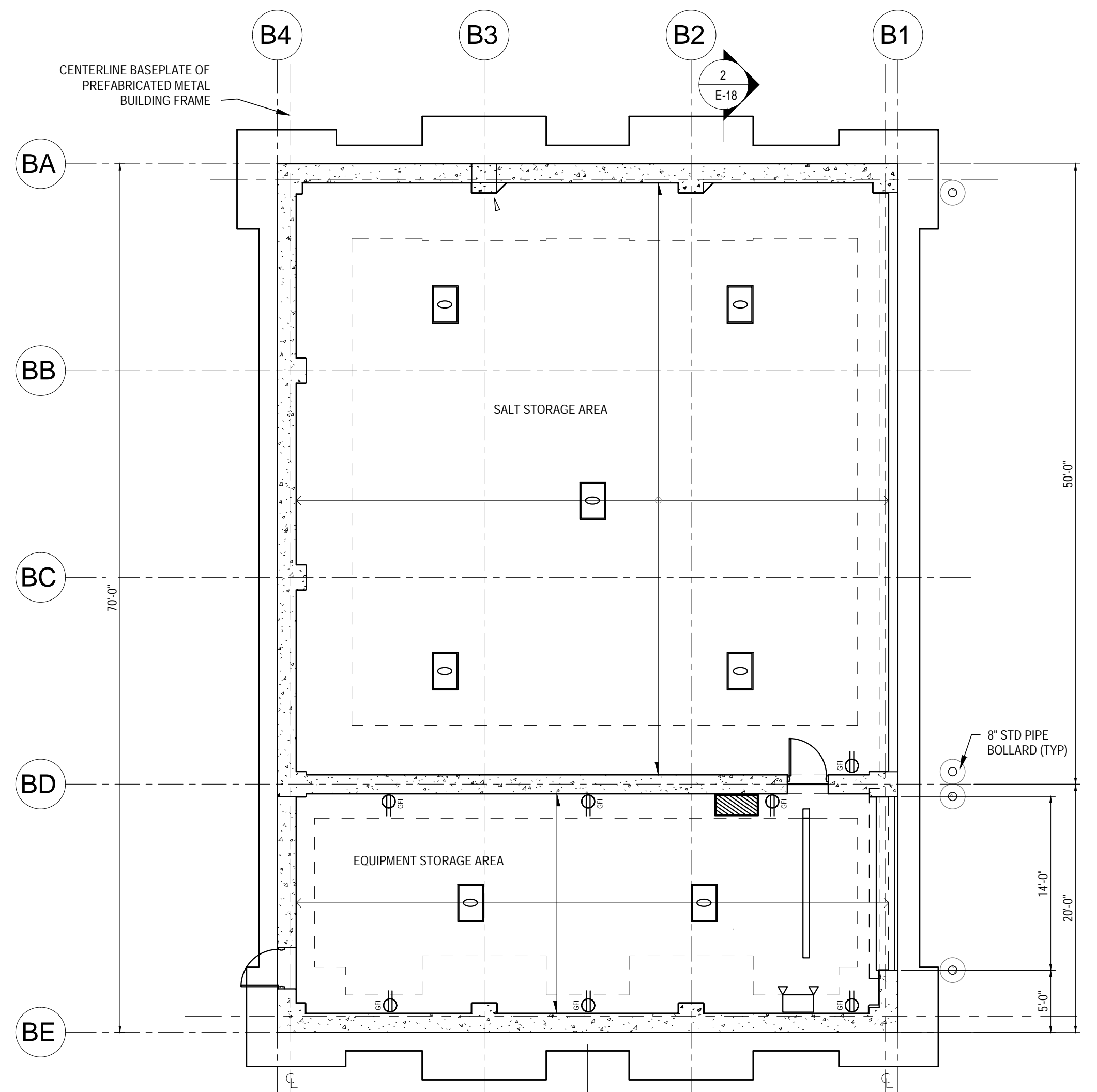
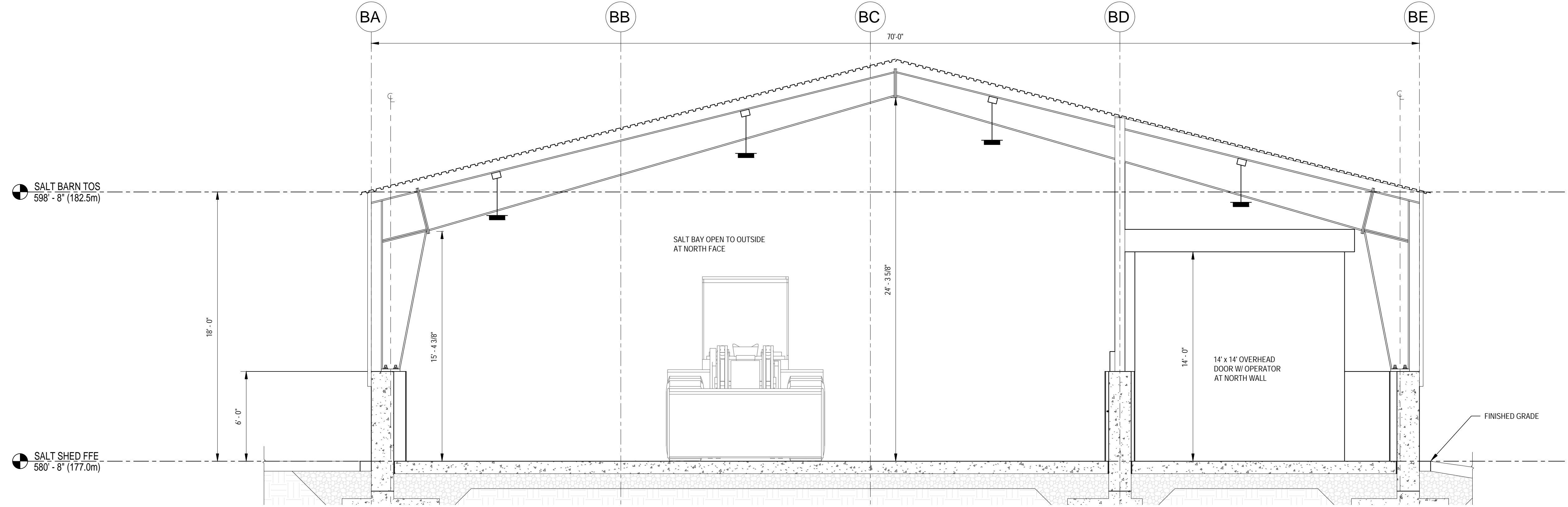
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DWN BY: K.G.	SOLICITATION NO.:
CKD BY: D.P.M.	CONTRACT NO.:
WSP CANADA	FILE NAME: c:\energy\clients\2023\20M-00635-00\20M-00635-00-PARE 3.0
SIZE: ANSI D	PLOTTED BY: N.G.
SCALE: AS SHOWN	PLOT DATE: 02/07/2024

BUFFALO AND FORT ERIE PUBLIC BRIDGE AUTHORITY
PROJECT # PARE 3.0 CANADIAN PLAZA IMPROVEMENTS
OUT-BUILDING LAYOUT

CROSSING PATHS BUILDING FUTURES
THE PACE BRIDGE

DRAWING NUMBER
E17





LEGEND

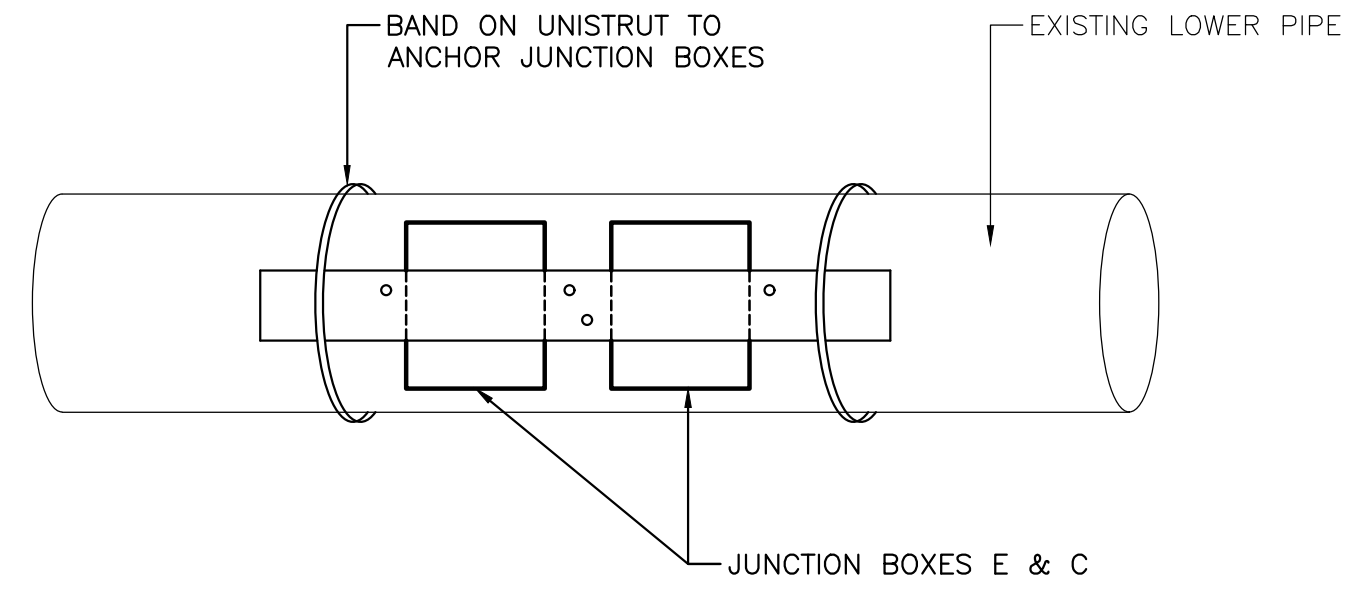
- PANELBOARD SB-PP-1
120/240V, 3P, 4W
- EMERGENCY BATTERY PACK LIGHT FIXTURE
UNILINE H-7260
- DUPLEX GFCI RECEPTACLE C/W 1 GANG
STAINLESS STEEL GFCI COVER, 3R
- LED HIGH BAY LUMINAIRE - PERDENT
MOUNTED GE, CAT. No.
ABV3-0-24-57-WD-2Q-ST-B-Q-WHTE

NOTES:

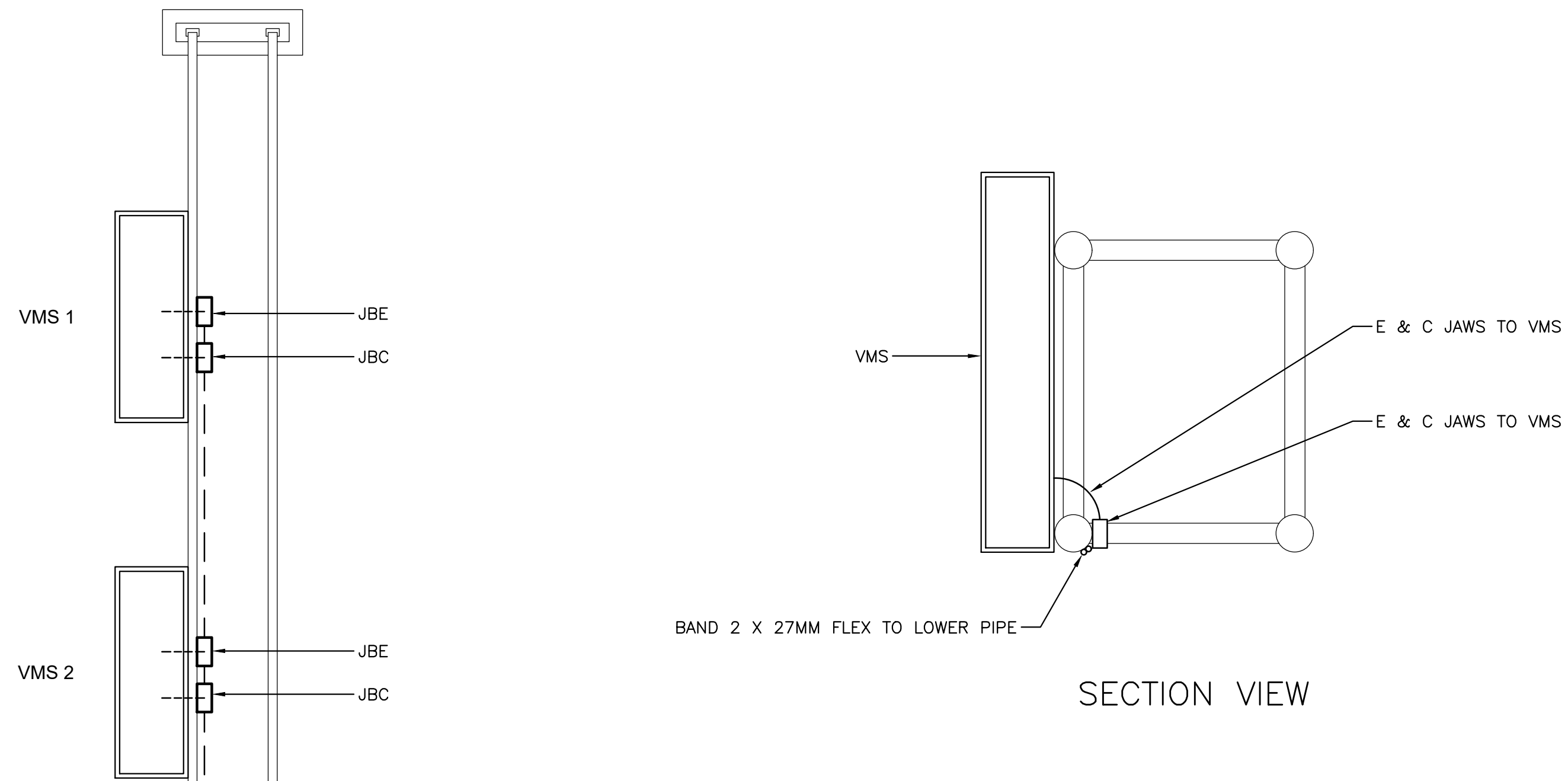
1. CONTRACTOR TO INSTALL 2 COPPER CLAD GROUND RODS THERMIT WELDED TO #6 AWG BARE GROUND WIRE AT THE SIDE OF THE BUILDING AND EXTEND WITH #6 INSULATED GROUND WIRE VIA AN UNDERGROUND PVC SLEEVE TO PANELBOARD SB-PP-1 AS SERVICE GROUND.
2. COORDINATE INSTALLATION ALL ELECTRICAL EQUIPMENT WITH THE PREFAB SALT BUILDING MANUFACTURER.
3. ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH CSA C22.1, CANADIAN ELECTRICAL CODE, PART 1, SAFETY STANDARDS FOR ELECTRICAL INSTALLATIONS INCLUDING AND ESA AMENDMENTS.
4. THE HIGH BAY LUMINAIRES IS COMPLETE WITH OCCUPANCY SENSOR AND WILL REQUIRE ONE REMOTE CONTROL UNIT. CONTRACTOR WILL NEED TO WORK WITH THE OWNER TO PROGRAMME EACH LUMINAIRE.
5. AS SALT BUILDING HAS A POTENTIALLY CORROSIVE ENVIRONMENT. CONDUIT INSTALLATION SHOULD BE WITH PVC CONDUIT WITH EXPANSION JOINTS AND MOUNTED WITH GALVANIZED UNISTRUT. REFER TO NOTE 2 TO ENSURE BEST CONSTRUCTION PRACTICE.

IT IS A VIOLATION OF THE LAWS OF ANY PERSON, UNLESS, ACTING UNDER THE DIRECT SUPERVISION OF A LICENSED ARCHITECT OR ENGINEER, TO ALTER AN ITEM IN ANY WAY IF AN ITEM BEARING THE SEAL OF AN ARCHITECT OR ENGINEER IS ALTERED. THE ARCHITECT OR ENGINEER'S SEAL IS NOT VALID FOR ANY ALTERATION OF THE SEAL AND THE NOTATION ALTERED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.	
DESIGNED BY: [Signature] DATE: 07/18/2022 DRAWN BY: [Signature] SOLICITATION NO.: CHECKED BY: [Signature] CONTRACT NO.: 187928 SUBMITTED BY: [Signature] FILE NAME: BM-280-BUFP100-3000001 - Pease Bridge GEC. SIZE: 22" X 34" PLOTTED BY: [Signature] PLOT DATE: 9/18/2023	A (ISSUED FOR BID (NOT FOR CONST)) DATE: 03/21/2024 MARK DESCRIPTION
BUFFALO AND FORT ERIE PUBLIC BRIDGE AUTHORITY PROJECT# XXX PARE 3.0 SALT BUILDING ELECTRICAL LAYOUT	
DRAWING NUMBER E-18	

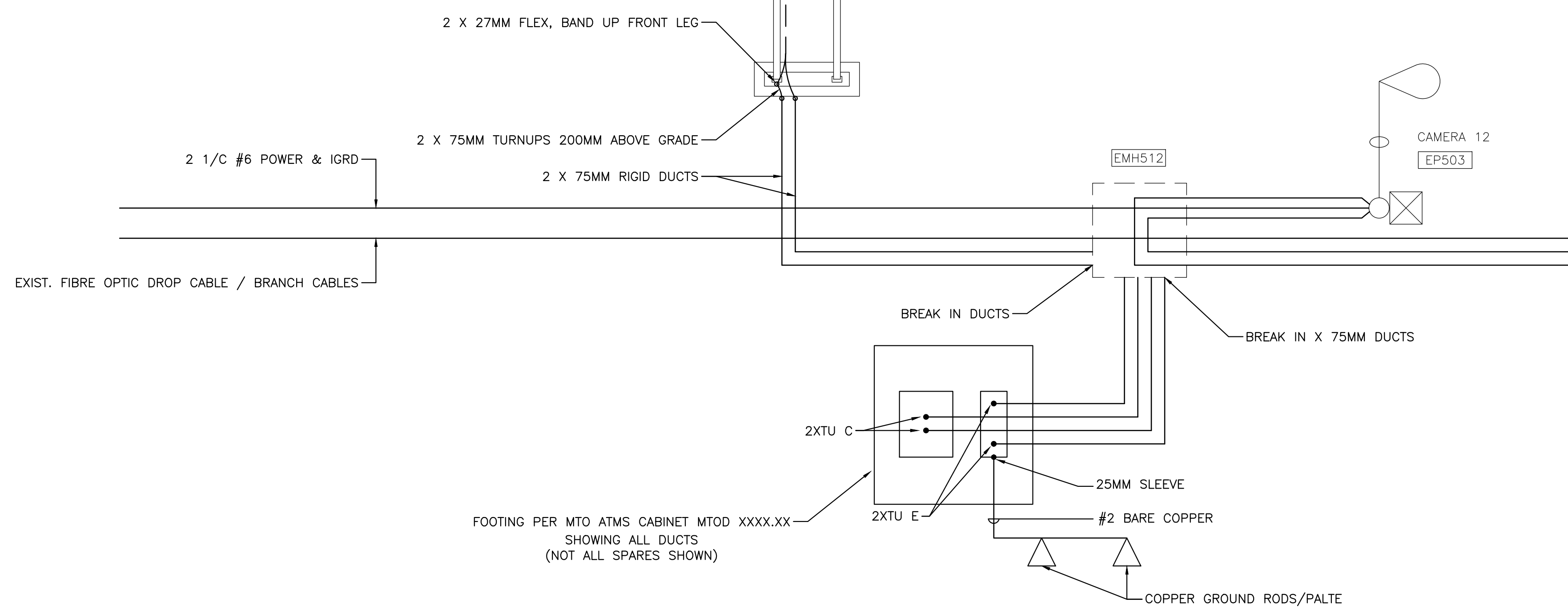
DUTY FREE EX SIGN STRUCTURE WITH NEW VMS REPLACING STATIC SIGNS



JUNCTION BOX ANCHOR DETAIL



SECTION VIEW



DUCTING DETAILS

N.T.S.

GENERAL NOTES:

- A. REMOVE STATIC SIGN BOARDS, CONFIRM NEW SIGN ALIGNMENT WITH PBA & REMOVE FLASHERS VMS & ALL WIRING & DUCT OFF OF STRUCTURE & BACK TO SUPPLY/CONTROL POINT.

IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS ACTING AS AN ENGINEER TO ALTER AN ITEM IN ANY WAY IF AN ITEM BEARING THE SEAL OF AN ARCHITECT OR ENGINEER IS ALTERED. THE SEALING AND THE NOTATION ALTERED BY THE ARCHITECT OR ENGINEER IS THE SEAL AND THE NOTATION ALTERED BY THE ARCHITECT OR ENGINEER. THE SEAL AND THE NOTATION ALTERED BY THE ARCHITECT OR ENGINEER IS THE SEAL AND THE NOTATION ALTERED BY THE ARCHITECT OR ENGINEER. THE SEAL AND THE NOTATION ALTERED BY THE ARCHITECT OR ENGINEER IS THE SEAL AND THE NOTATION ALTERED BY THE ARCHITECT OR ENGINEER.	
MARK	DATE
A	03/27/2024
ISSUED FOR BID (NOT FOR CONST)	DESCRIPTION
APPR	DATE

DESIGNED BY MIKE J. WILDE	DATE 01/09/2024
DRAWN BY M.J.W.	SOLICITATION NO.
SUBMITTED BY WSP CANADA	CONTRACT NO.
FILE NAME C:\wsp\pba\mto-atms-cabinet\mto-atms-cabinet.dwg	PLOT DATE 02/07/2024
SIZE 22" X 34"	PLOTTED BY N.F.G.

BUFFALO AND FORT ERIE PUBLIC BRIDGE AUTHORITY

WSP USA, Inc.
30 J. J. Moore Drive
Buffalo, NY 14202
(716) 835-1200

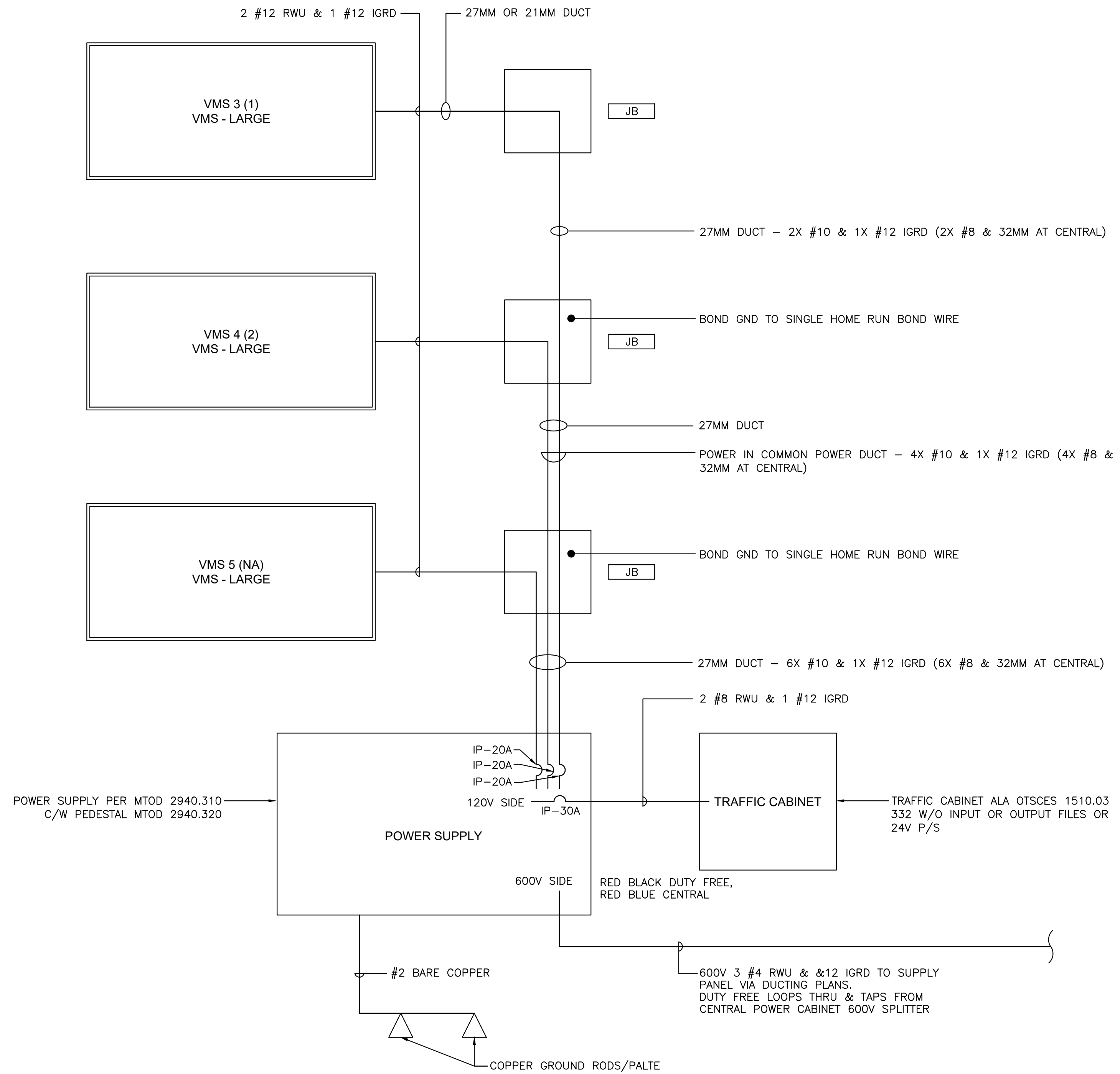
BUFFALO AND FORT ERIE PUBLIC BRIDGE AUTHORITY
PROJECT# XXX PARE 3.0
DUTY FREE VMS
PHYSICAL DETAILS

CROSSING PATHS BUILDING FUTURES
THE PEACE BRIDGE

DRAWING NUMBER
C2

NOT TO SCALE

CENTRAL AVE NEW VMS POWER ARRANGEMENTS
& DUTY FREE - SIGN # INDICATED

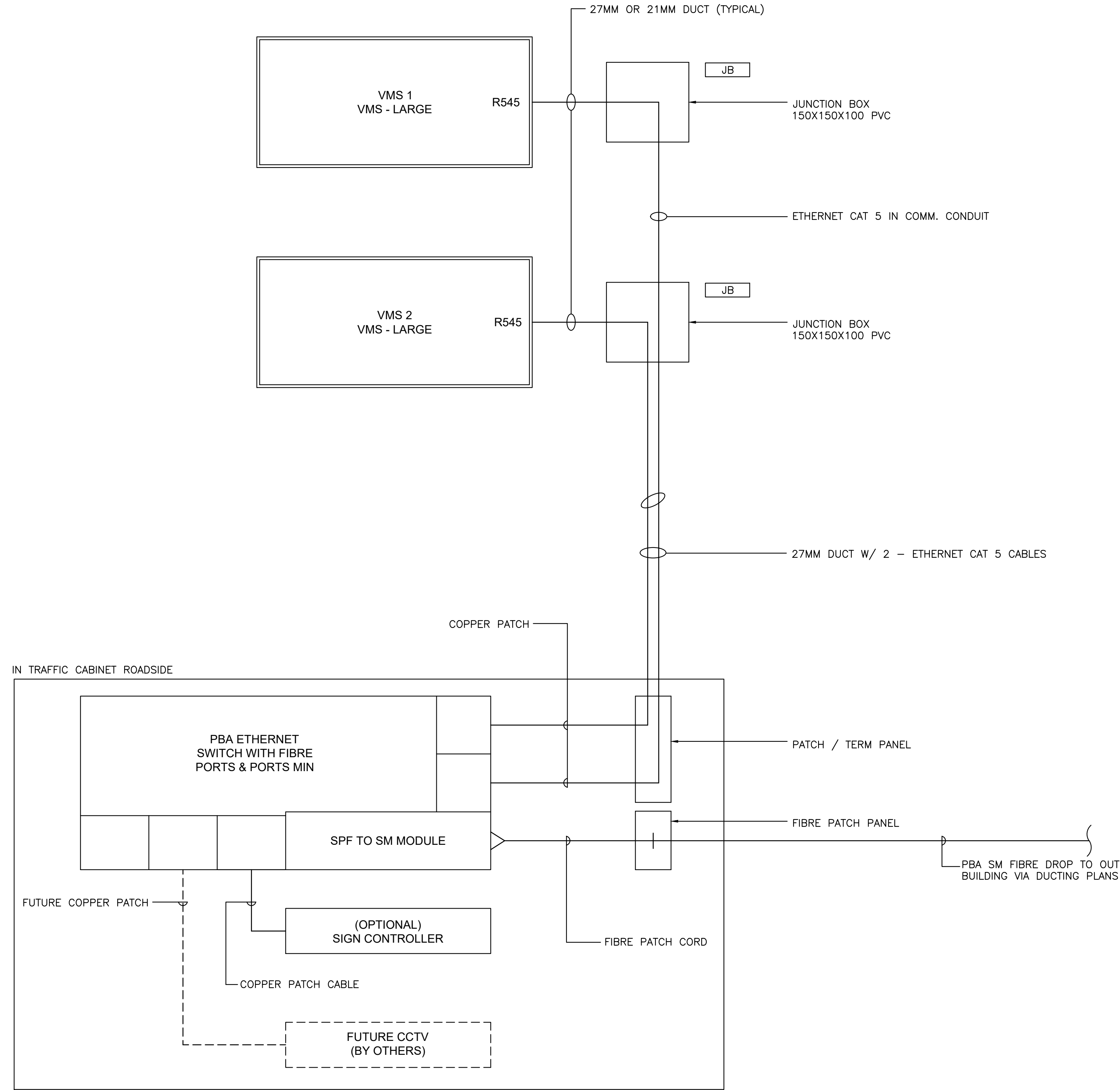


POWER SCHEMATIC
N.T.S.

NOT TO SCALE

<p>IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS ACTING AS AN ENGINEER OR ARCHITECT TO SEAL OR SIGN ANY DRAWING OR SPECIFICATION FOR CONSTRUCTION WITHOUT BEING A LICENSED ENGINEER OR ARCHITECT. THE SEAL OF AN ARCHITECT OR ENGINEER IS ALTERED, THE SEALING AND SIGNING ARE VOID AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SIGNATURE AND THE DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.</p>	
DESIGNED BY MIKE J. WILDE	DATE 01/09/2024
DRAWN BY M.J.W.	SOLICITATION NO.
SUBMITTED BY WSP CANADA	CONTRACT NO.
FILE NAME C:\wsp\usa\buffalo\bridge\central_ave\central_ave_vms.dwg	ISSUED FOR BID (NOT FOR CONST)
SIZE 22' X 34'	DATE 02/07/2024
PLOTTED BY N.F.G.	APPR
<p>WSP USA, Inc. 20 J. Joseph Drive Buffalo, N.Y. 14202 (716) 835-1200</p>	<p>WSP CANADA 11100 15th Avenue S.W. Edmonton, Alberta T6A 0K6 (780) 443-8888</p>
<p>BUFFALO AND FORT ERIE BRIDGE AUTHORITY PROJECT# XXX - PARE 3.0 CENTRAL & DUTY FREE VMS WIRING DIAGRAM</p>	<p>CROSSING PATHS BUILDING FUTURES THE PEACE BRIDGE</p>
DRAWING NUMBER C3	

DUTY FREE
EXISTING STATIC SIGN GANTRY
WITH NEW VMS REPLACING STATIC SIGNS



COMMUNICATIONS SCHEMATIC
N.T.S.

NOT TO SCALE

IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS ACTING AS AN ENGINEER OR ARCHITECT TO SEAL OR RESEAL ANY DRAWING OR ENGINEERING DOCUMENT OR TO ALTER ANY ITEM IN ANY WAY IF AN ITEM BEARING THE SEAL OF AN ARCHITECT OR ENGINEER IS ALTERED. THE SEALING OF ANY DRAWING OR ENGINEERING DOCUMENT BY ANY PERSON OTHER THAN THE ORIGINAL SEALER OR THE DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

MARK	DESCRIPTION	DATE	APPR
A	ISSUED FOR BID (NOT FOR CONST)	03/21/2024	

DESIGNED BY MIKE J. WILDE	DATE 01/09/2024
DRAWN BY M.J.W.	SOLICITATION NO.
SUBMITTED BY WSP CANADA	CONTRACT NO.
FILE NAME C:\wsp\usa\buffalo\pba\pba-sm-fibre-drop-to-out-building-via-ducting-plans.dwg	PLotted DATE 02/07/2024
SIZE 22' X 34'	PLotted BY N.F.G.

BUFFALO AND FORT ERIE
PUBLIC BRIDGE AUTHORITY

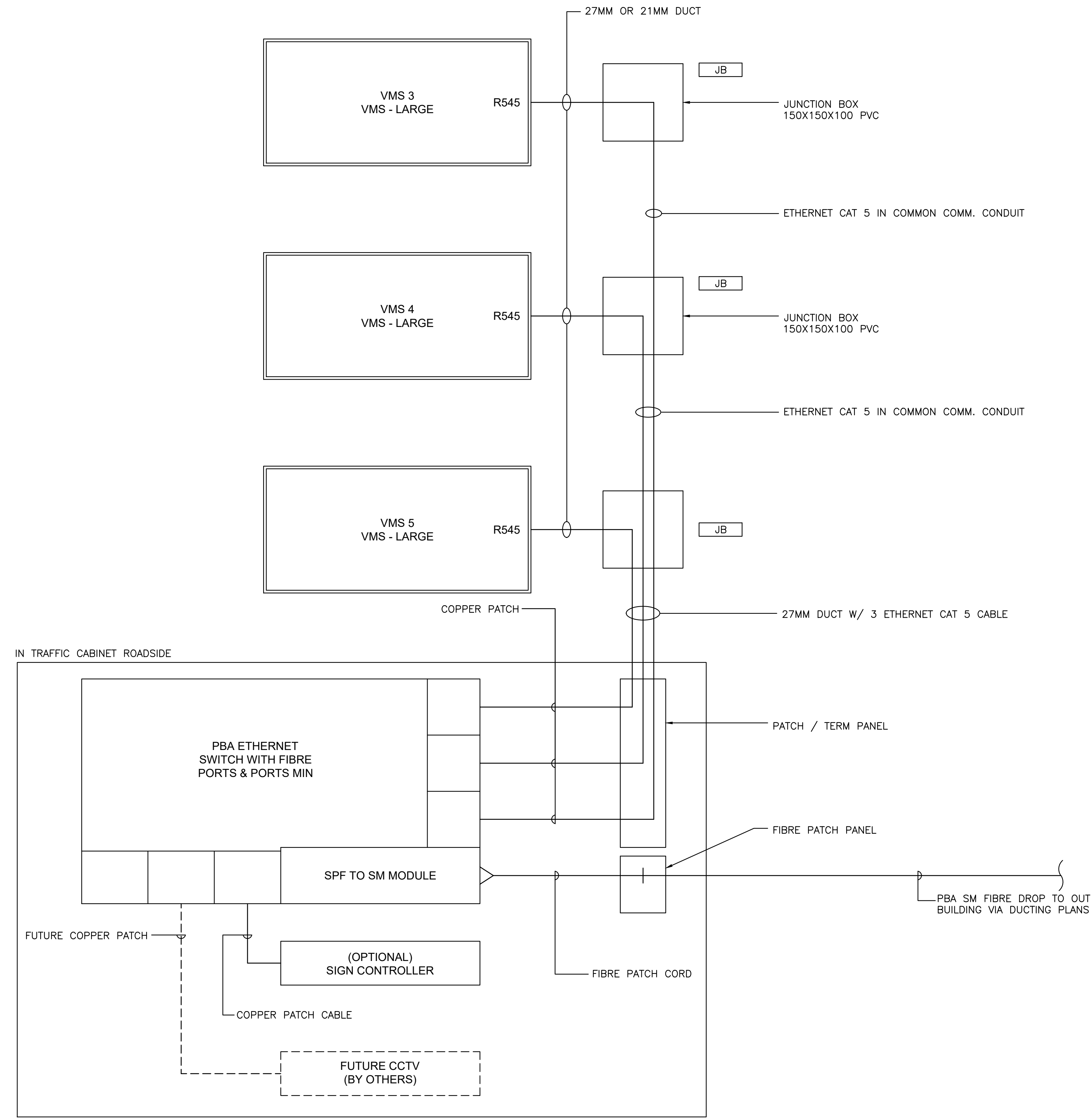
WSP USA, Inc.
20 J. Mack Centre Drive
Buffalo, N.Y. 14202
(716) 835-1200

BUFFALO AND FORT ERIE PUBLIC
BRIDGE AUTHORITY
PROJECT# XXX PARE 3.0
DUTY FREE VMS
COMMUNICATIONS

CROSSING PATHS BUILDING FUTURES
THE PEACE BRIDGE

DRAWING
NUMBER
C4

CENTRAL AVENUE OVERPASS
EXISTING STATIC SIGN MOUNTS REMOVE &
NEW VMS REPLACING STATIC SIGNS



COMMUNICATIONS SCHEMATIC
N.T.S.

NOT TO SCALE

IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS ACTING AS AN ENGINEER TO ALTER AN ITEM IN ANY WAY IF AN ITEM BEARING THE SEAL OF AN ARCHITECT OR ENGINEER IS ALTERED. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING THE SEAL AND THE NOTATION ALTERED BY FOLLOWING THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.	
MARK	DESCRIPTION
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DATE	03/27/2024
APPR	

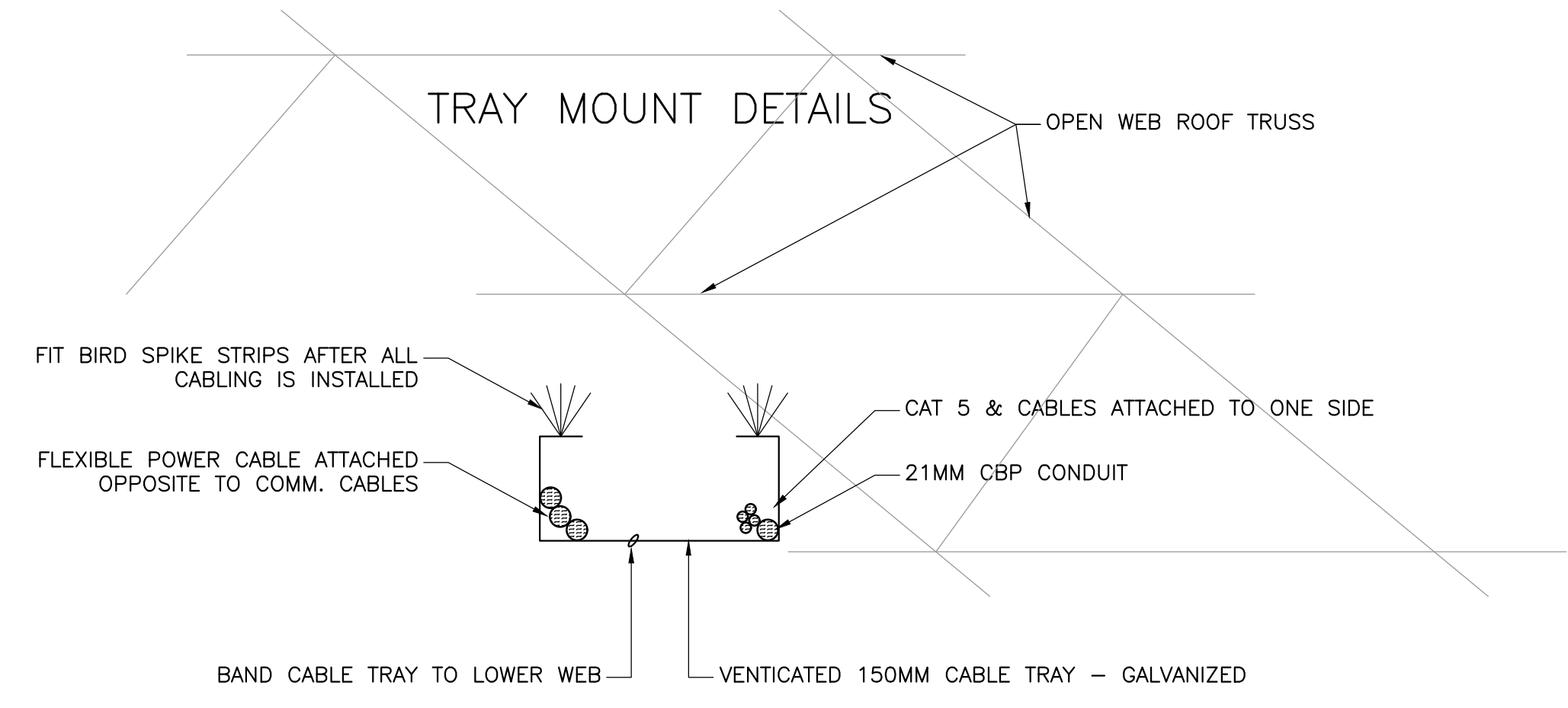
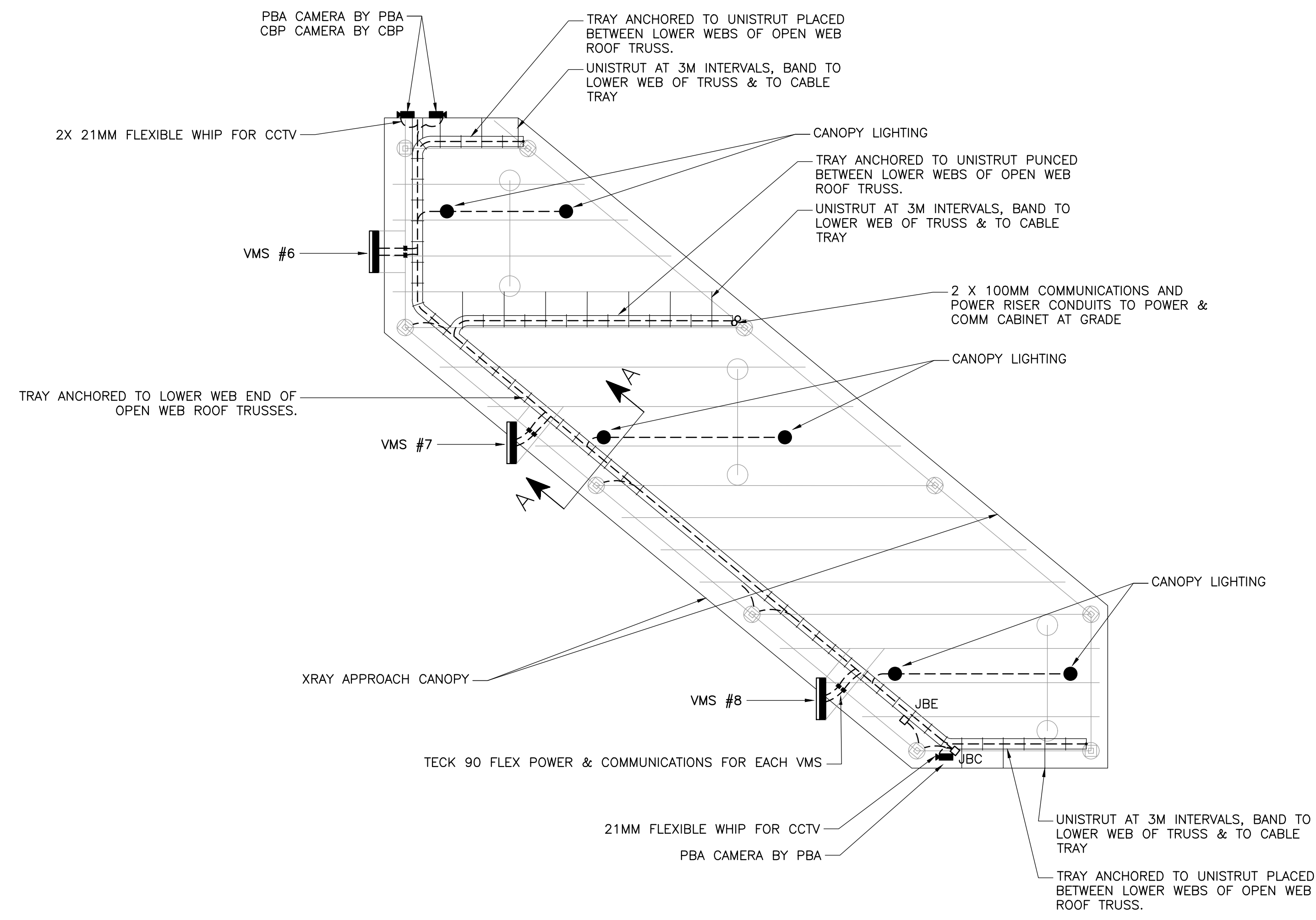
DESIGNED BY MIKE J. WILDE	DATE 01/09/2024
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SUBMITTED BY WSP CANADA	CONTRACT NO.
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SIZE 22' X 34'	PLOTTED BY N.F.G.
	PLOT DATE 02/07/2024

BUFFALO AND FORT ERIE
 BRIDGE AUTHORITY
 PROJECT# XXX PARE 3.0
 CENTRAL AVE. VMS
 COMMUNICATIONS

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 Buffalo, N.Y. 14202
 (716) 835-1200

CROSSING PATHS BUILDING FUTURES
 THE PEACE BRIDGE

DRAWING NUMBER
C6



DETAIL A-A
N.T.S.

- GENERAL NOTES:**
- A. POWER CABLES SHOWN IS SYMBOLIC
 - 1-TECK 90° TO EACH VMS.
 - LIGHTING CIRCUITS.
 - 1-TECK 90 TO EACH UTILITY RECEPTACLE.
 - B. COMMUNICATION CABLES SHOWN IS SYMBOLIC
 - 1-CAT 5 ETHER TO EACH VMS
 - 1-CAT 5 ETHER TO EACH PBA CAMERA
 - 1-CAT 5 ETHER IN HYDROTITE TO CBP CAMERA

DUCTING/CABLING DETAILS
PARE 3.0 APPROACH CANOPY
N.T.S.

IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS ACTING AS AN ENGINEER TO ALTER AN ITEM IN ANY WAY IF AN ITEM BEARING THE SEAL OF AN ARCHITECT OR ENGINEER IS ALTERED. THE SEALING OR UNSEALING OF ANY ITEM SHALL BE THE RESPONSIBILITY OF THE SEALER AND THE NOTATION ALTERED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.	
DATE	03/21/2024
DESCRIPTION	ISSUED FOR BID (NOT FOR CONST)
MARK	A
DATE	03/21/2024
APPR	

DESIGNED BY	MIKE J. WILDE	DATE	02/07/2024
DRAWN BY	M.J.W.	SOLICITATION NO.	
SUBMITTED BY	WSP CANADA	CONTRACT NO.	
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		DATE	02/07/2024

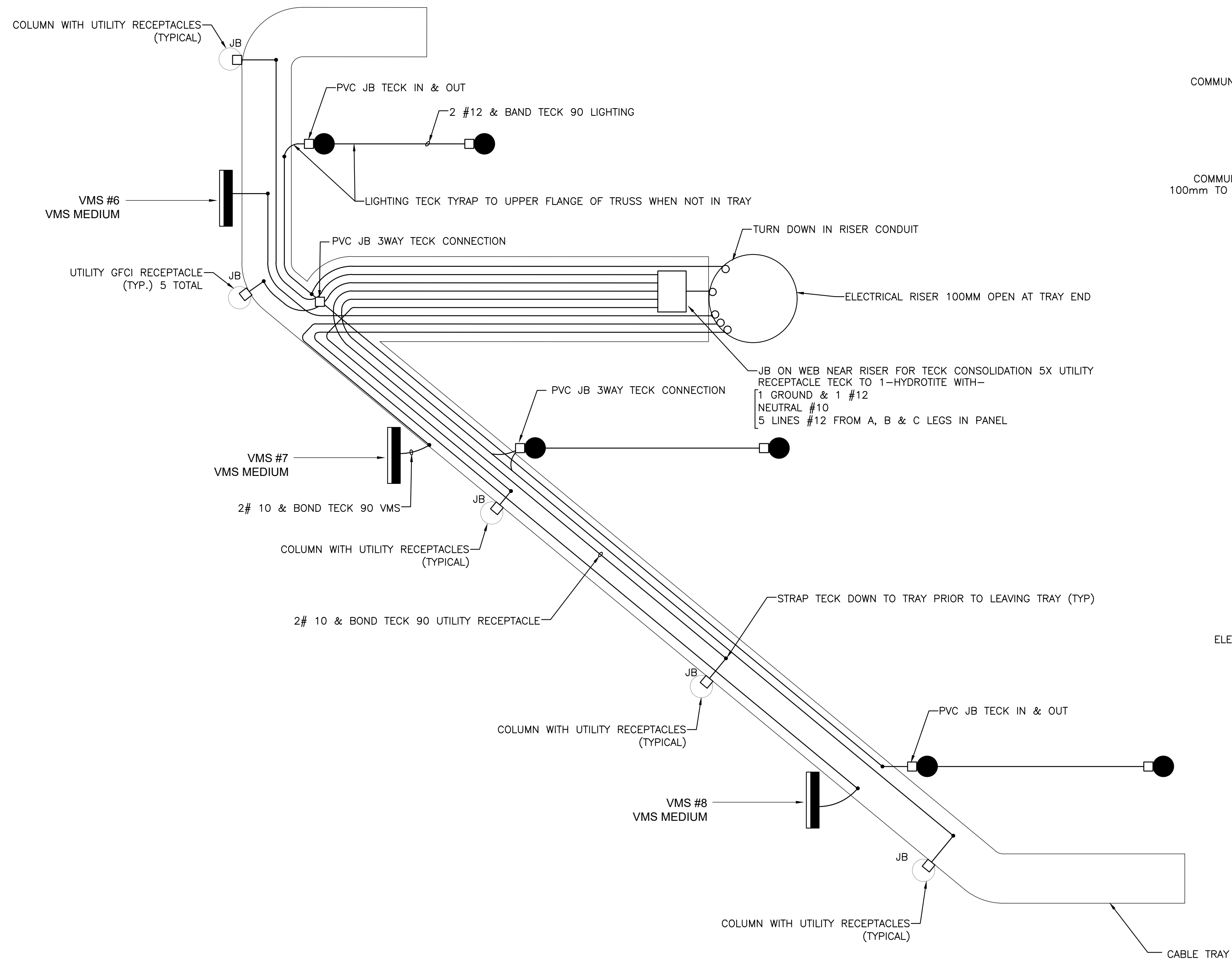
BUFFALO AND FORT ERIE
 BRIDGE AUTHORITY
 PROJECT# XXX PARE 3.0
 APPROACH CANOPY
 PHYSICAL DETAILS

WSP USA, Inc.
 20 J. J. Moore Drive
 Buffalo, N.Y. 14202
 (716) 836-1200

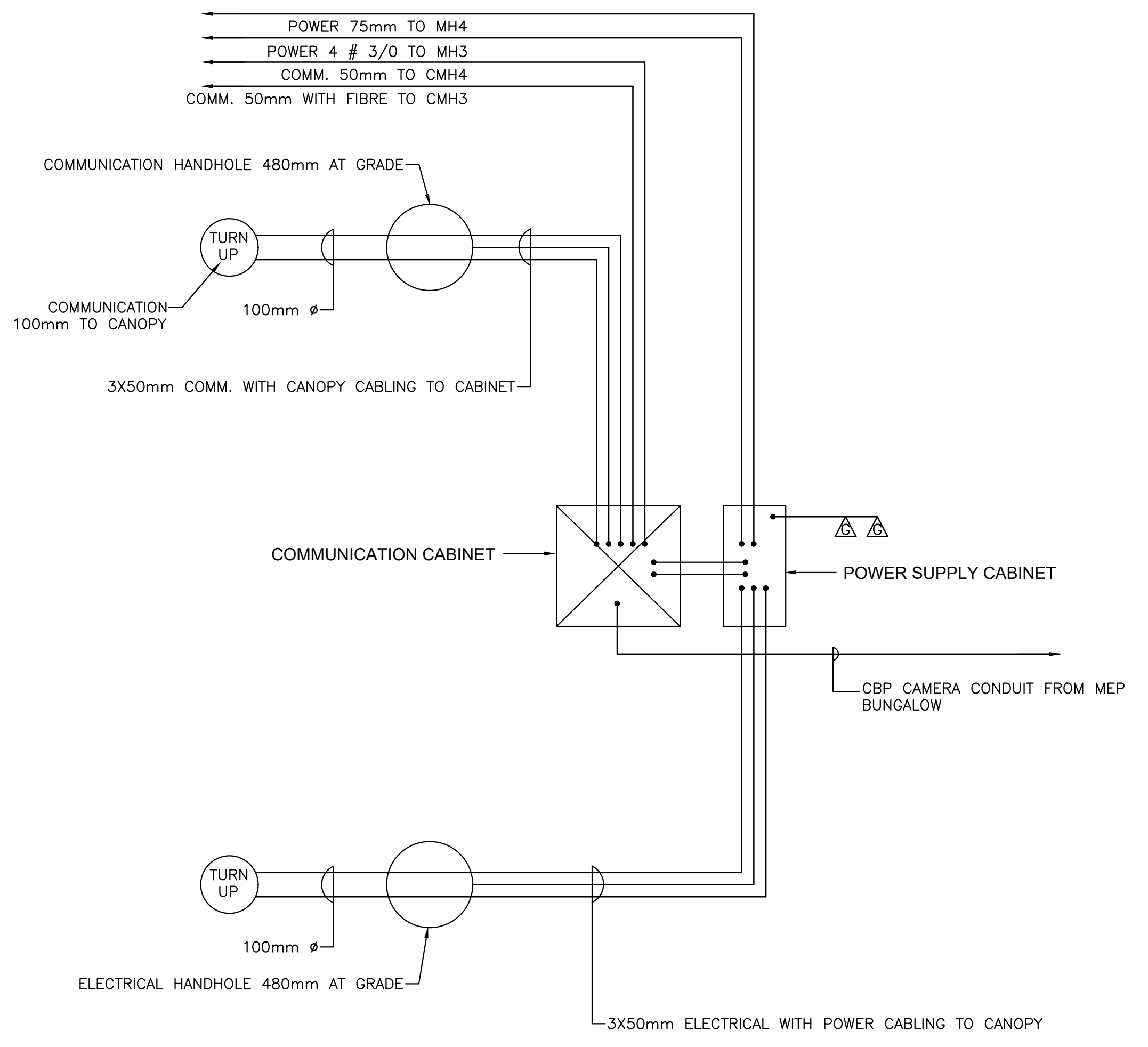
CROSSING PATHS BUILDING FUTURES
 THE PEACE BRIDGE

DRAWING
 NUMBER
C7

NOT TO SCALE



APPROACH CANOPY VMS & UTILITY RECEPTACLES & LIGHTING WIRING DIAGRAM
N.T.S.



WIRING DIAGRAM AT GRADE
N.T.S.

C:\pwr_wrk\pwr-co18\pwr-co18\0929\20M-0035-00-W01.dwg Wed, 07 Feb 2024 - 1:54pm Gerdaba1

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DATE	03/27/2024
APPR	
MARK	
DESCRIPTION	ISSUED FOR BID (NOT FOR CONST)

DESIGNED BY	MIKE J. WILDE	DATE	02/07/2024
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PLOTTED BY	N.F.G.	MARK	

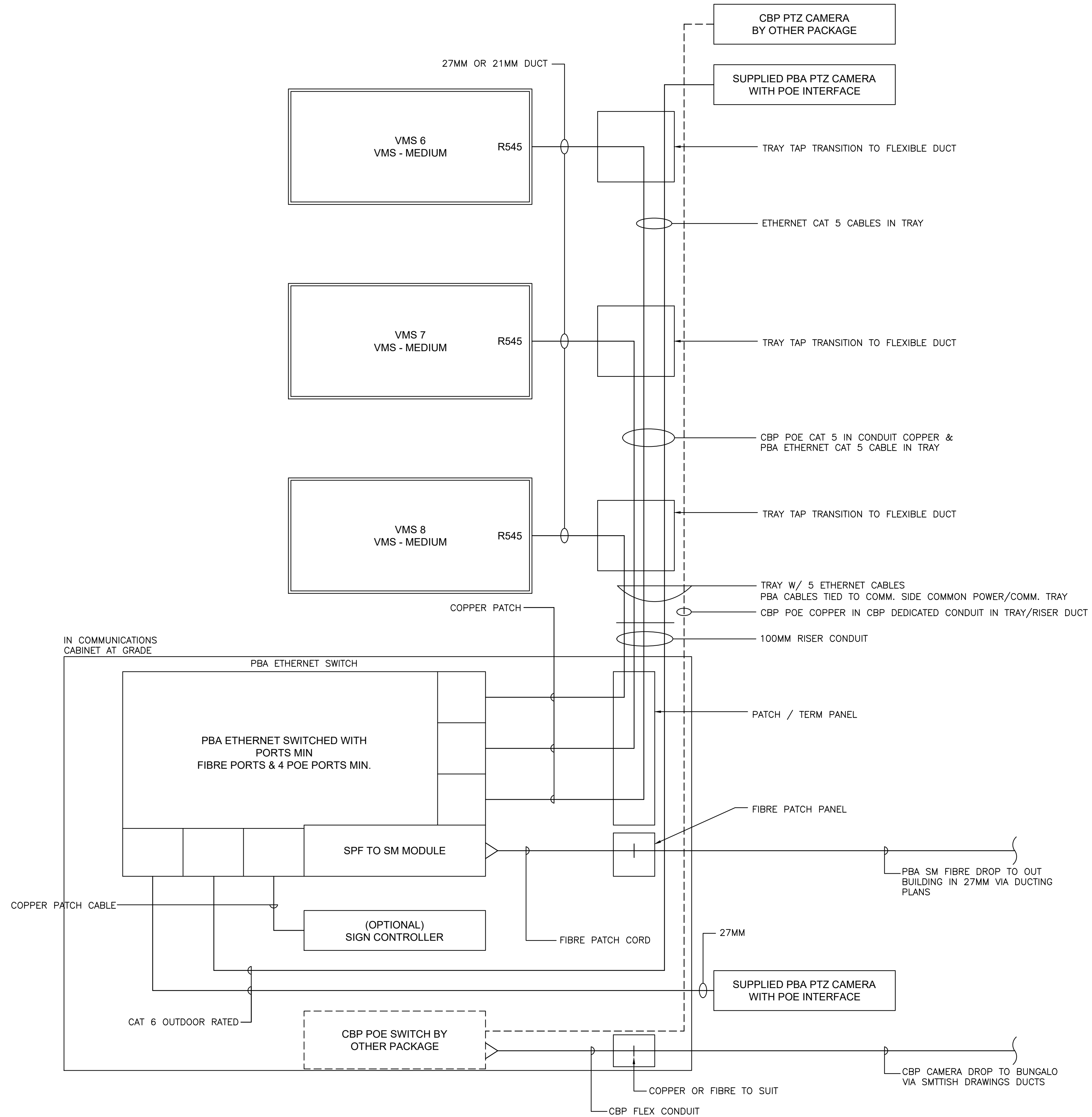
BUFFALO AND FORT ERIE
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BUFFALO AND FORT ERIE PUBLIC
 BRIDGE AUTHORITY
 PROJECT# XXX PARE 3.0
 APPROACH CANOPY
 WIRING DIAGRAM

DRAWING
 NUMBER
C8

NOT TO SCALE

PARE 3.0 APPROACH CANOPY
NEW VMS SIGNS



COMMUNICATIONS SCHEMATIC
N.T.S.

NOT TO SCALE

IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS ACTING AS AN ENGINEER, ARCHITECT, SURVEYOR, OR PROFESSIONAL ENGINEER TO ALTER AN ITEM IN ANY WAY IF AN ITEM BEARING THE SEAL OF AN ARCHITECT OR ENGINEER IS ALTERED. THE USER OF THIS DRAWING AGREES TO HOLD THE ENGINEER, ARCHITECT, SURVEYOR, OR PROFESSIONAL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, INCLUDING THE SEAL AND THE DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

MARK	DESCRIPTION	DATE	APPR
A	ISSUED FOR BID (NOT FOR CONST)	03/27/2024	

DESIGNED BY MIKE J. WILDE	DATE 01/09/2024
DRAWN BY M.J.W.	SOLICITATION NO.
SUBMITTED BY WSP CANADA	CONTRACT NO.
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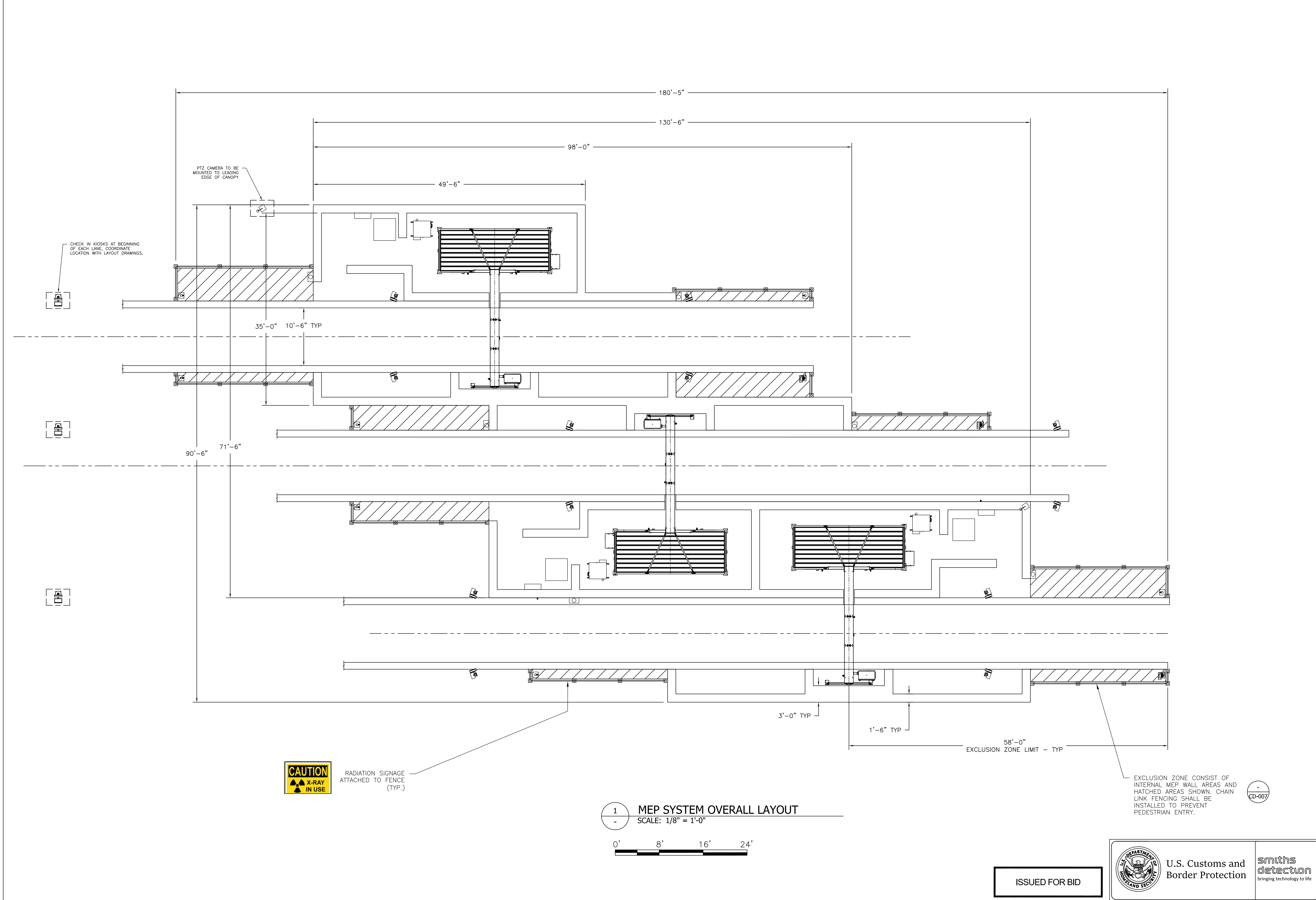
BUFFALO AND FORT ERIE
PUBLIC BRIDGE AUTHORITY

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Buffalo, N.Y. 14202
(716) 835-1200

BUFFALO AND FORT ERIE PUBLIC
BRIDGE AUTHORITY
PROJECT# XXX PARE 3.0
APPROACH CANOPY
COMMUNICATIONS

CROSSING PATHS BUILDING FUTURES
THE PEACE BRIDGE

DRAWING
NUMBER
C9



1 - MEP SYSTEM OVERALL LAYOUT
SCALE: 1/8" = 1'-0"

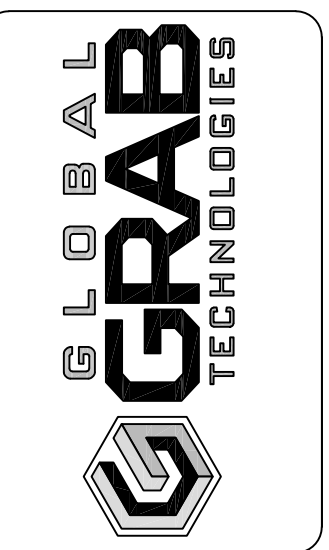


RADIATION SIGNAGE ATTACHED TO FENCE (TYP.)

EXCLUSION ZONE CONSIST OF INTERNAL MEP WALL AREAS AND HATCHED AREAS SHOWN. CHAIN LINK FENCING SHALL BE INSTALLED TO PREVENT PEDESTRIAN ENTRY.



REV	DATE	DESCRIPTION
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JCC		BY:



DRAWN BY:	BPS	DATE:	2/24/2023
CHECKED BY:		SCALE:	AS NOTED
SIZE:	ANSI D	REV:	0
DRAWING NUMBER:	22-000PB-CL-001		

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PEACE BRIDGE - CANADA
MEP SYSTEM OVERALL LAYOUT

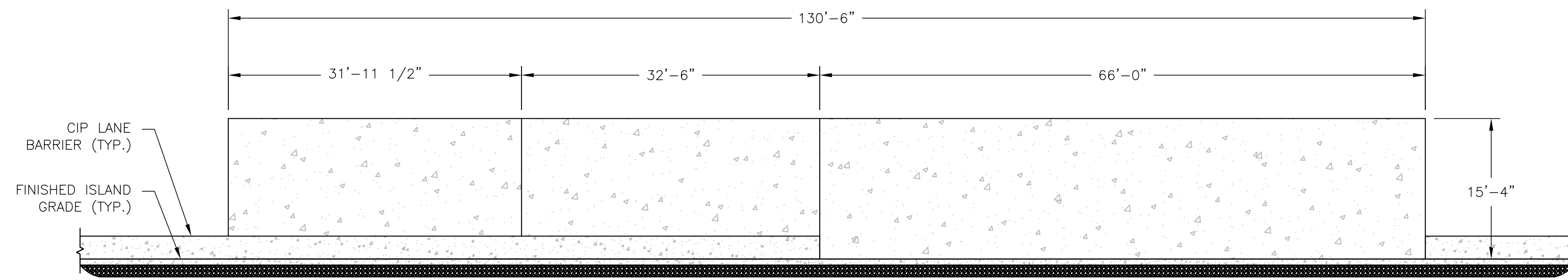


U.S. Customs and Border Protection

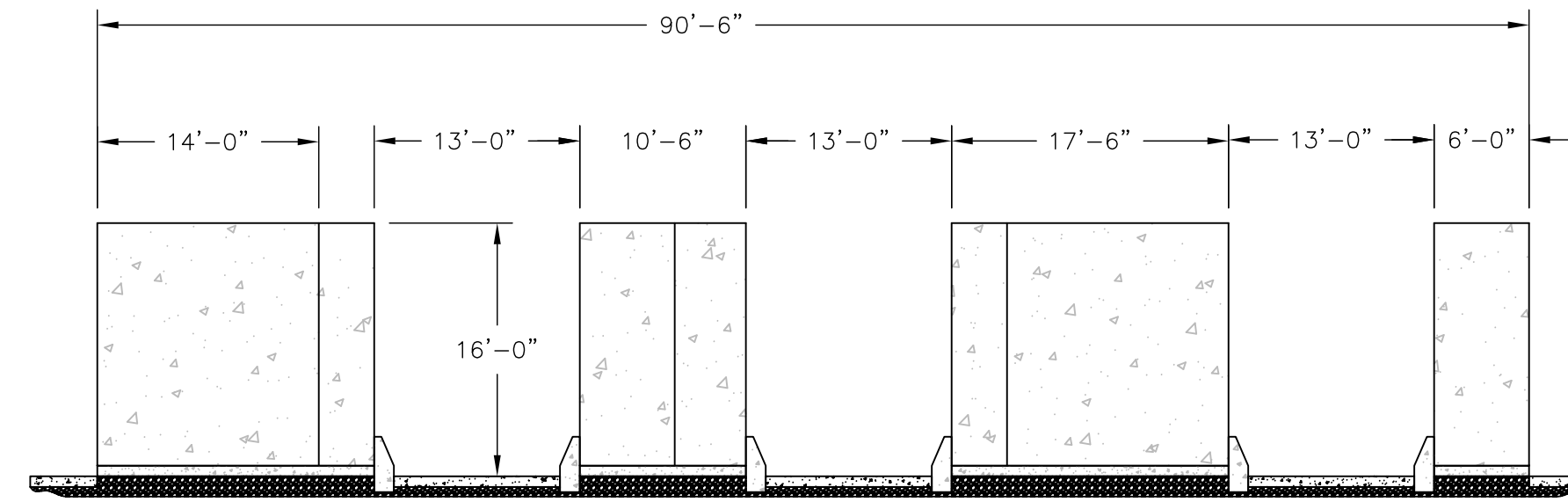
smiths detection
bringing technology to life

ISSUED FOR BID

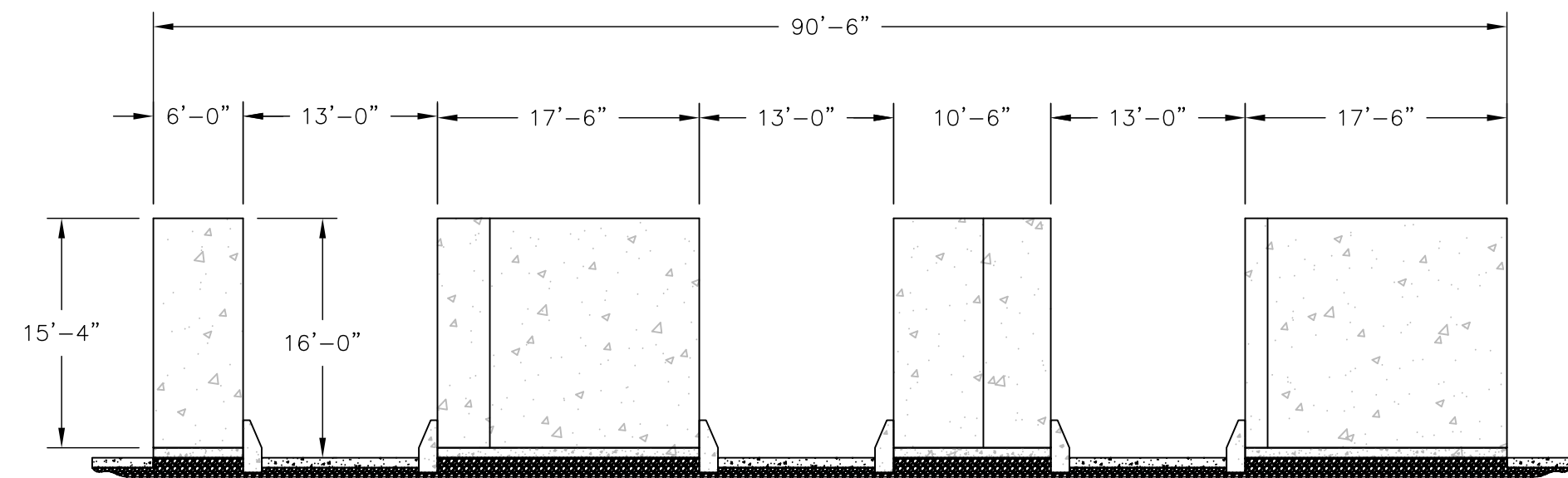
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CL-001
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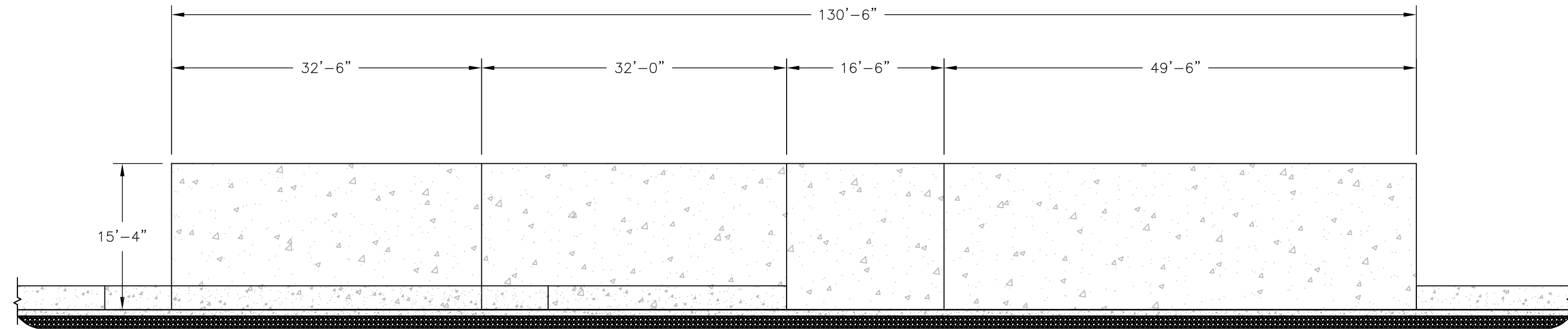
A SHIELDING WALL ELEVATION VIEW
SCALE: 3/32"=1'-0"



B SHIELDING WALL ELEVATION VIEW
SCALE: 3/32"=1'-0"



C SHIELDING WALL ELEVATION VIEW
SCALE: 3/32"=1'-0"



D SHIELDING WALL ELEVATION VIEW
SCALE: 3/32"=1'-0"

REV	DATE	DESCRIPTION
0	02/02/2024	ISSUED FOR BID



DRAWN BY:	SCG	DATE:	06/19/2023
CHECKED BY:	JCC	SCALE:	AS NOTED
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DRAWING NUMBER:	22-000PB-CD-002		

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PEACE BRIDGE - CANADA
MEP WALLS ELEVATION

ISSUED FOR BID



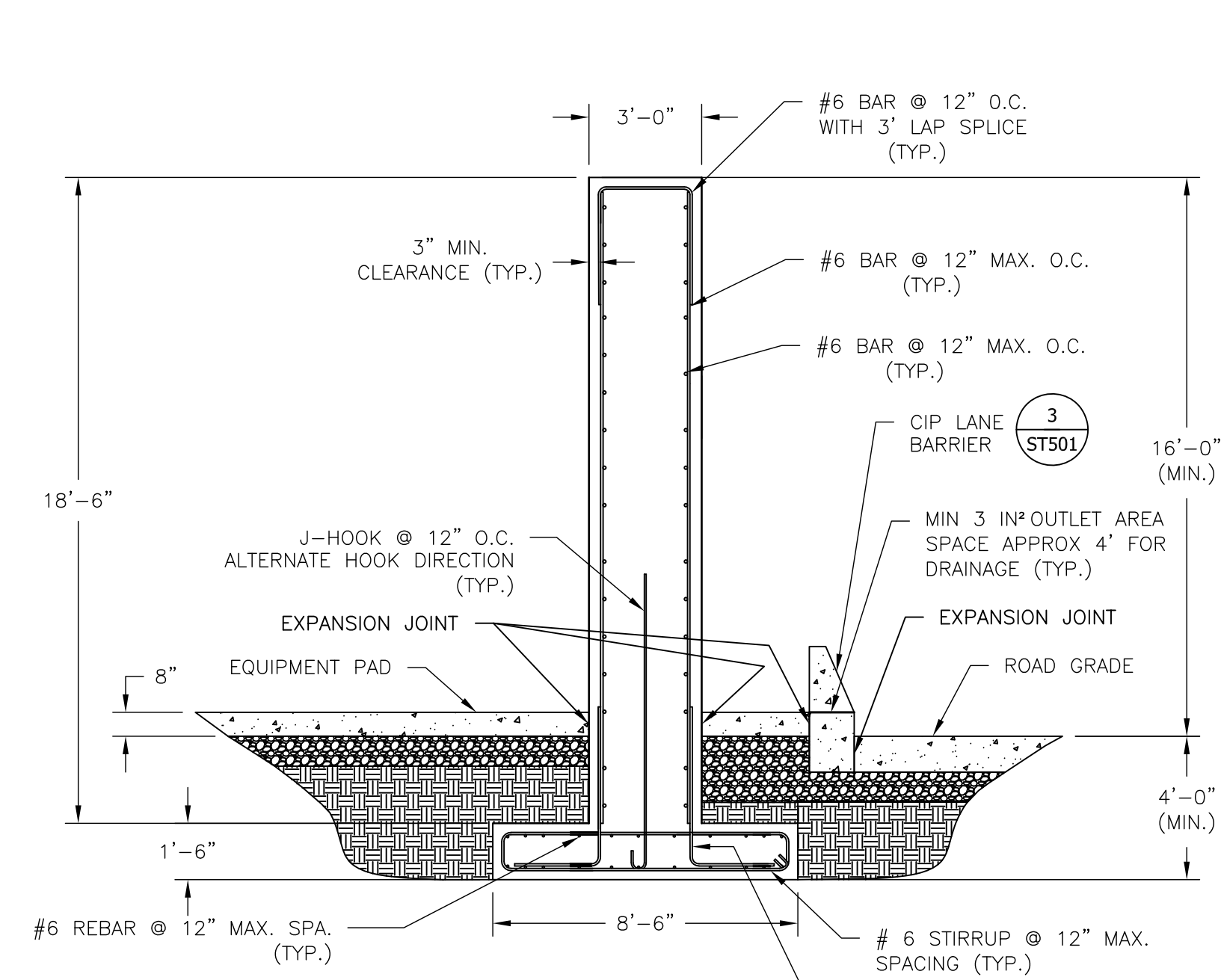
U.S. Customs and Border Protection



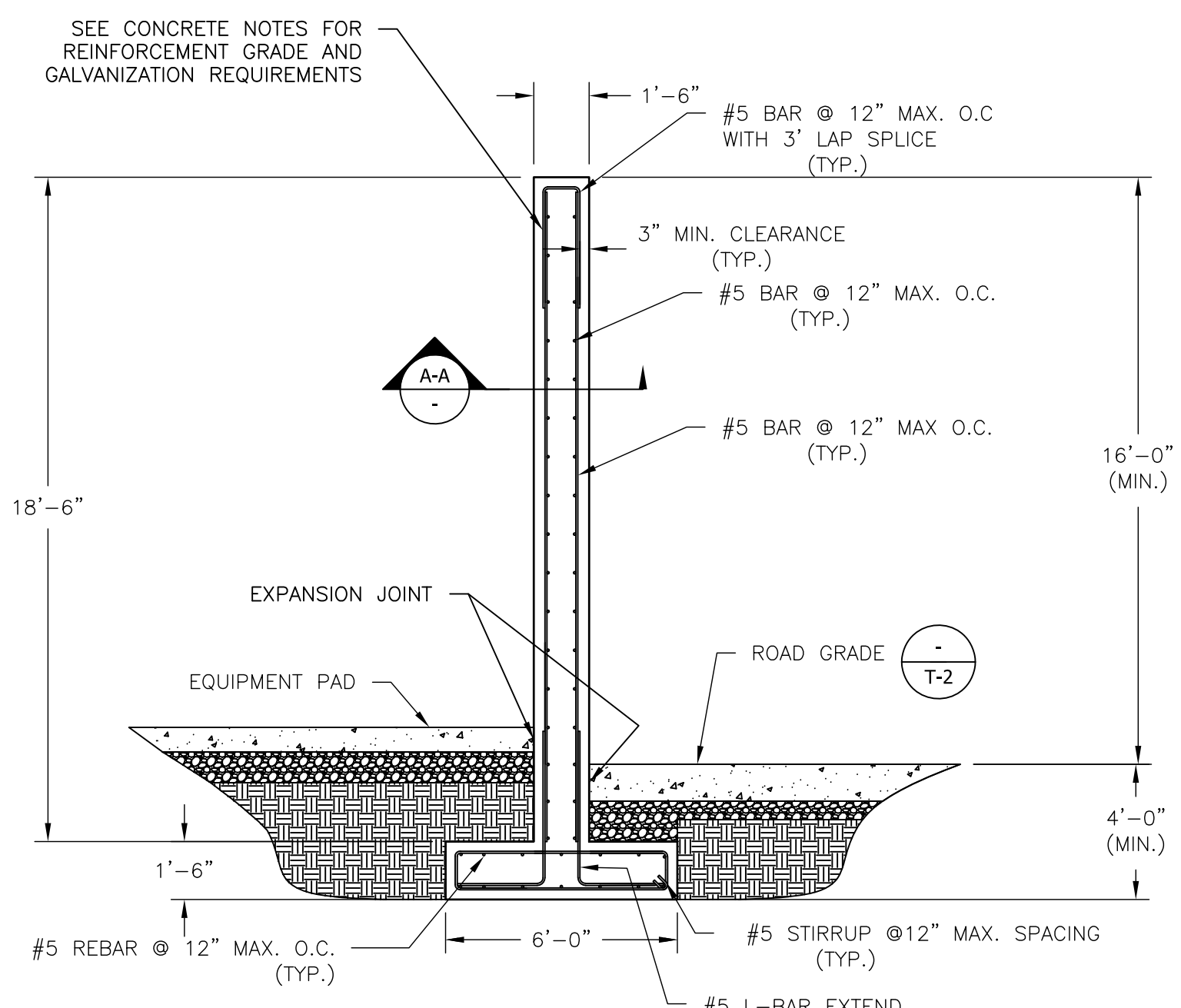
SHEET ID
CD-002
SHEET:-

NOTES

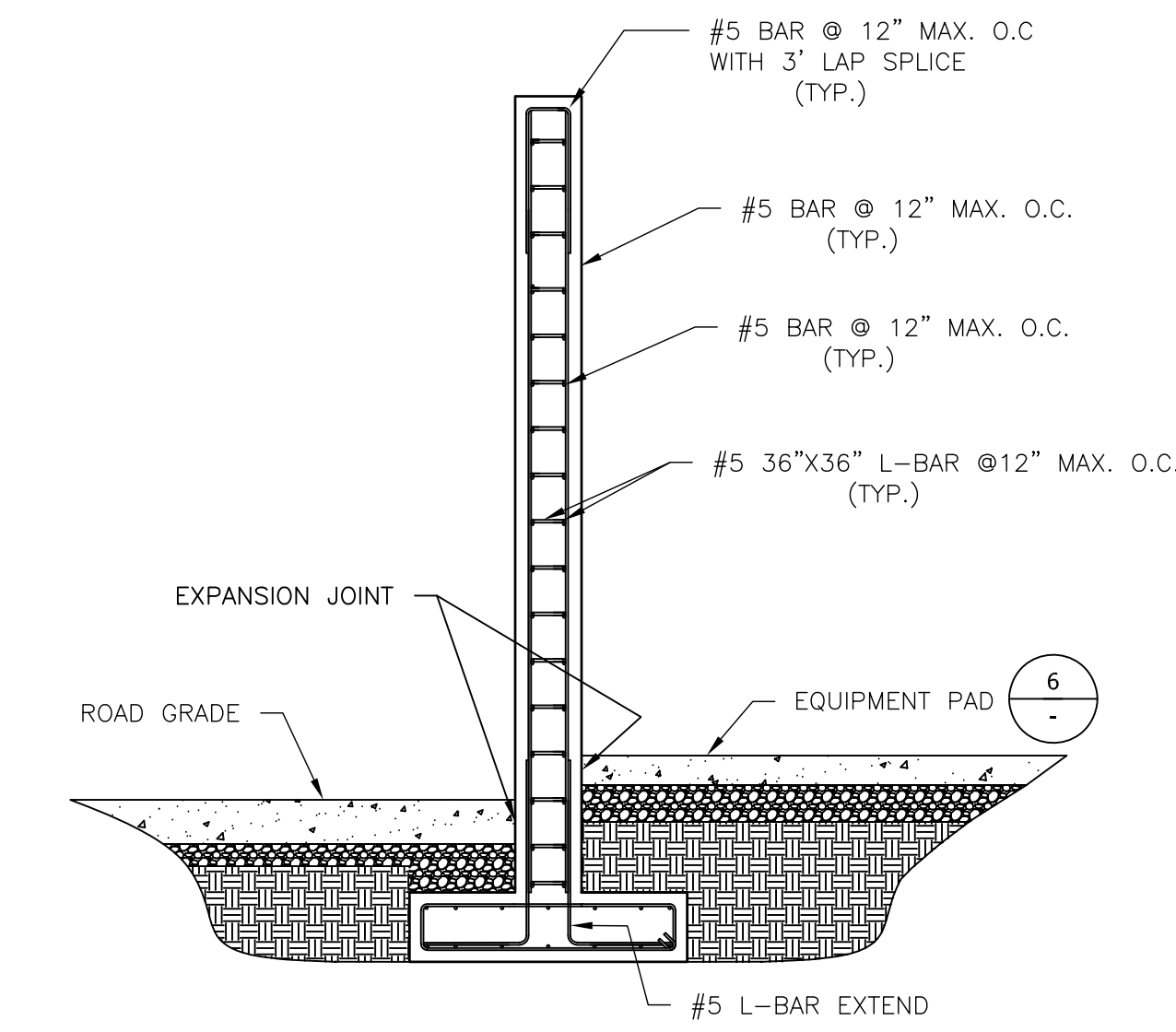
- 1 BOTTOM OF FOOTING ELEVATION TO BE 4'-0" MIN. BELOW F.G. ELEVATION FOR FROST PROTECTION.
- 2 ALL FOOTINGS SHALL BE PLACE AT A SINGLE ELEVATION.
- 3 PRELIMINARY FOOTING SIZES BASED ON THE ASSUMPTION OF SUITABLE INPLACE SOILS WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 3000 PSF.
- 4 IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY SOIL CONDITIONS WITH THE SITE GEOTECHNICAL REPORT AND COMPLY WITH THE RECOMMENDATIONS THAT ARE SET FORTH WITHIN.



1 SECTION VIEW
SCALE: NTS

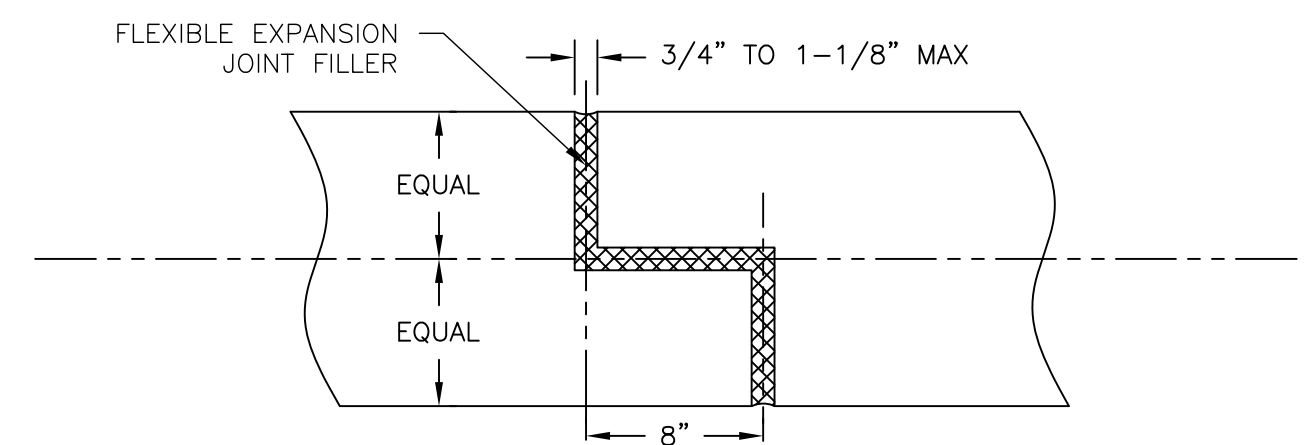


2 STRAIGHT WALL SECTION VIEW
SCALE: NTS

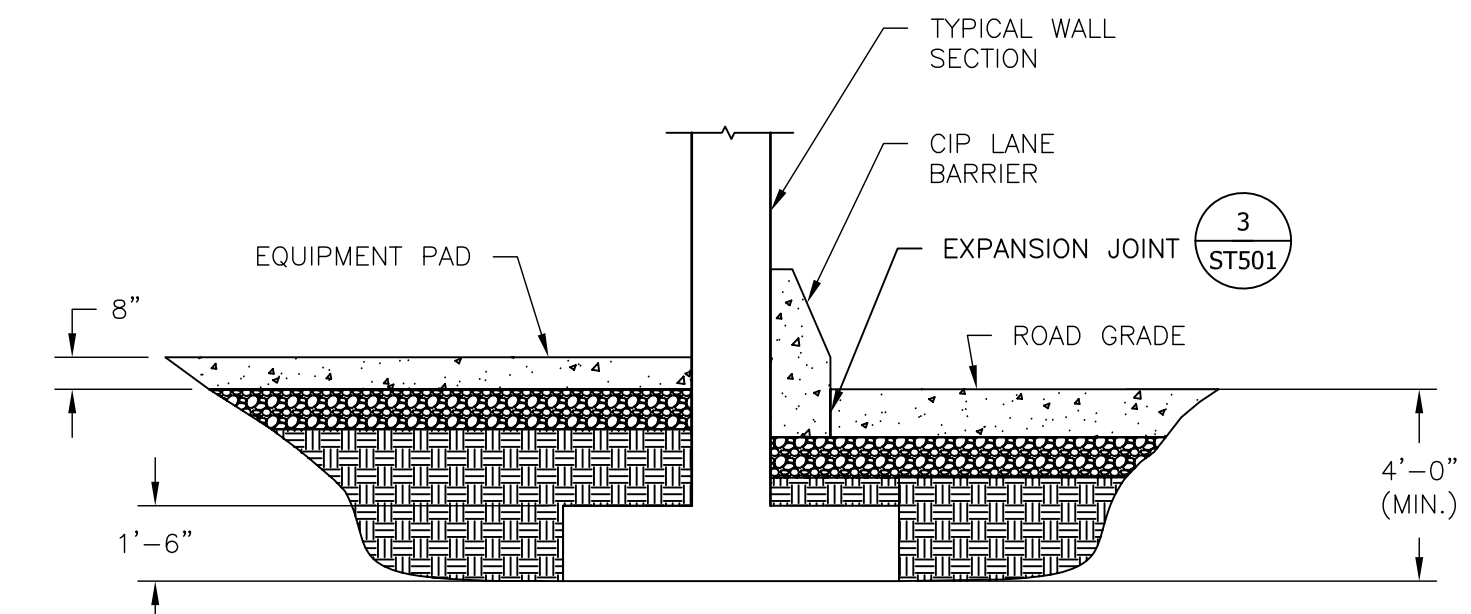


3 CORNER SECTION
SCALE: NTS

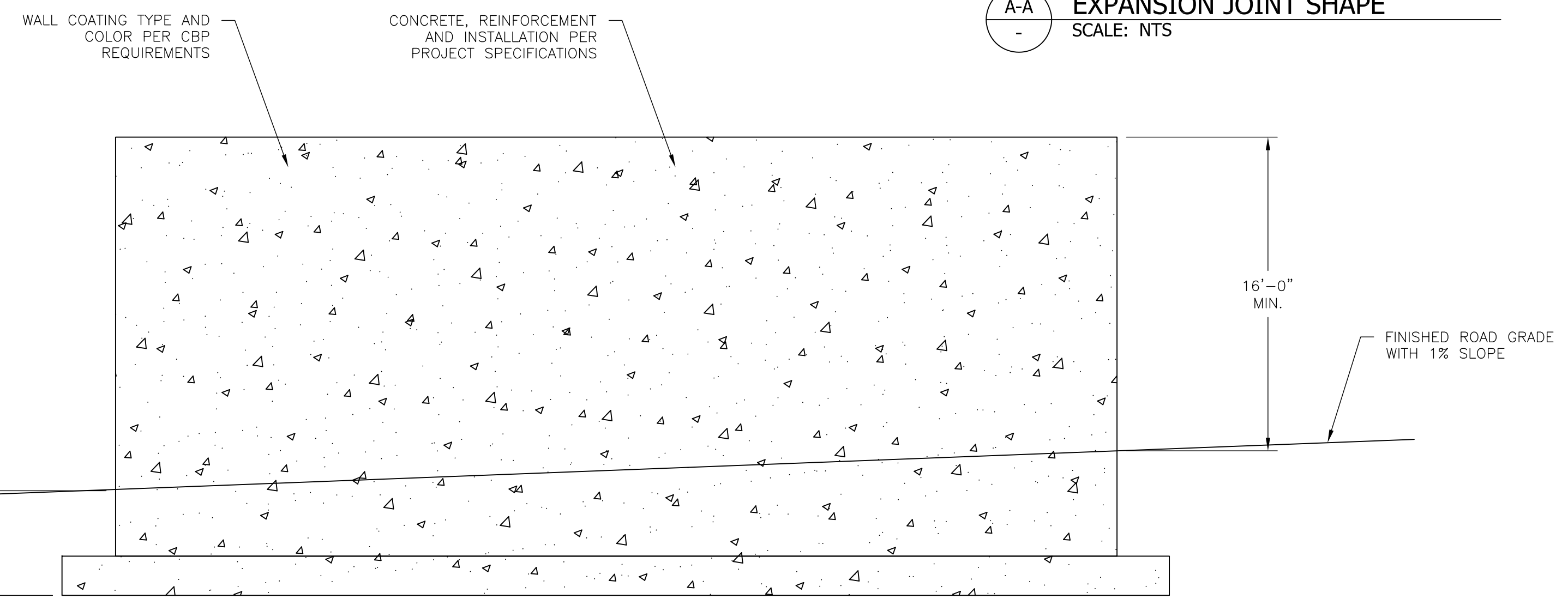
NOTE: REFERENCE LOCAL STATE/TERRITORY SPECIFICATIONS FOR FOR STANDING WALL EXPANSION JOINT DESIGN GUIDES. EXPANSION JOINT SHAPE SHALL BE AS DRAWN FOR RADIOLOGICAL PROTECTION.



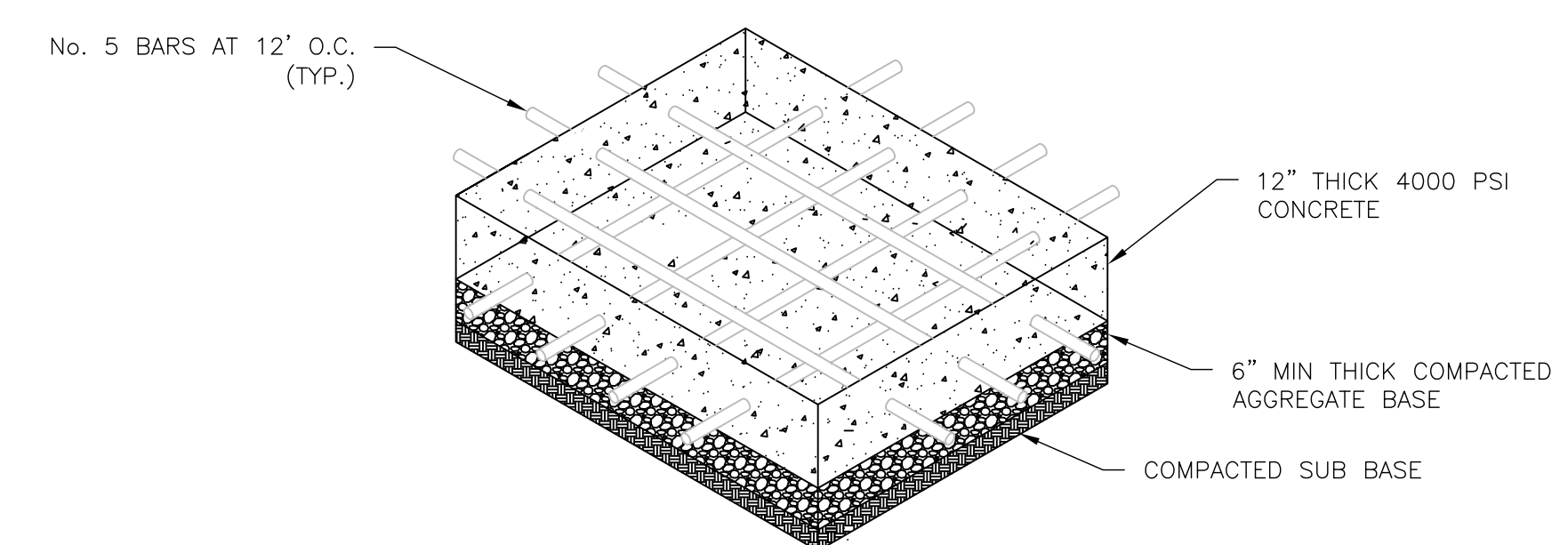
A-A EXPANSION JOINT SHAPE
SCALE: NTS



5 SECTION VIEW
SCALE: NTS

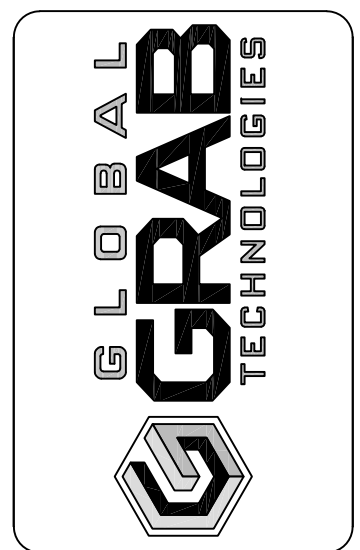


4 TYPICAL WALL SECTION VIEW
SCALE: NTS



6 EQUIPMENT PAD
SCALE: NTS

REV	DATE	DESCRIPTION
0	02/08/2024	ISSUED FOR BID



DRAWN BY:	SCG	DATE:	06/19/2023
CHECKED BY:	JCC	SCALE:	AS NOTED
SIZE:	ANSI D	REV:	0
DRAWING NUMBER:	22-000PB-CD-003		

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PEACE BRIDGE - CANADA
MEP WALL SECTIONS

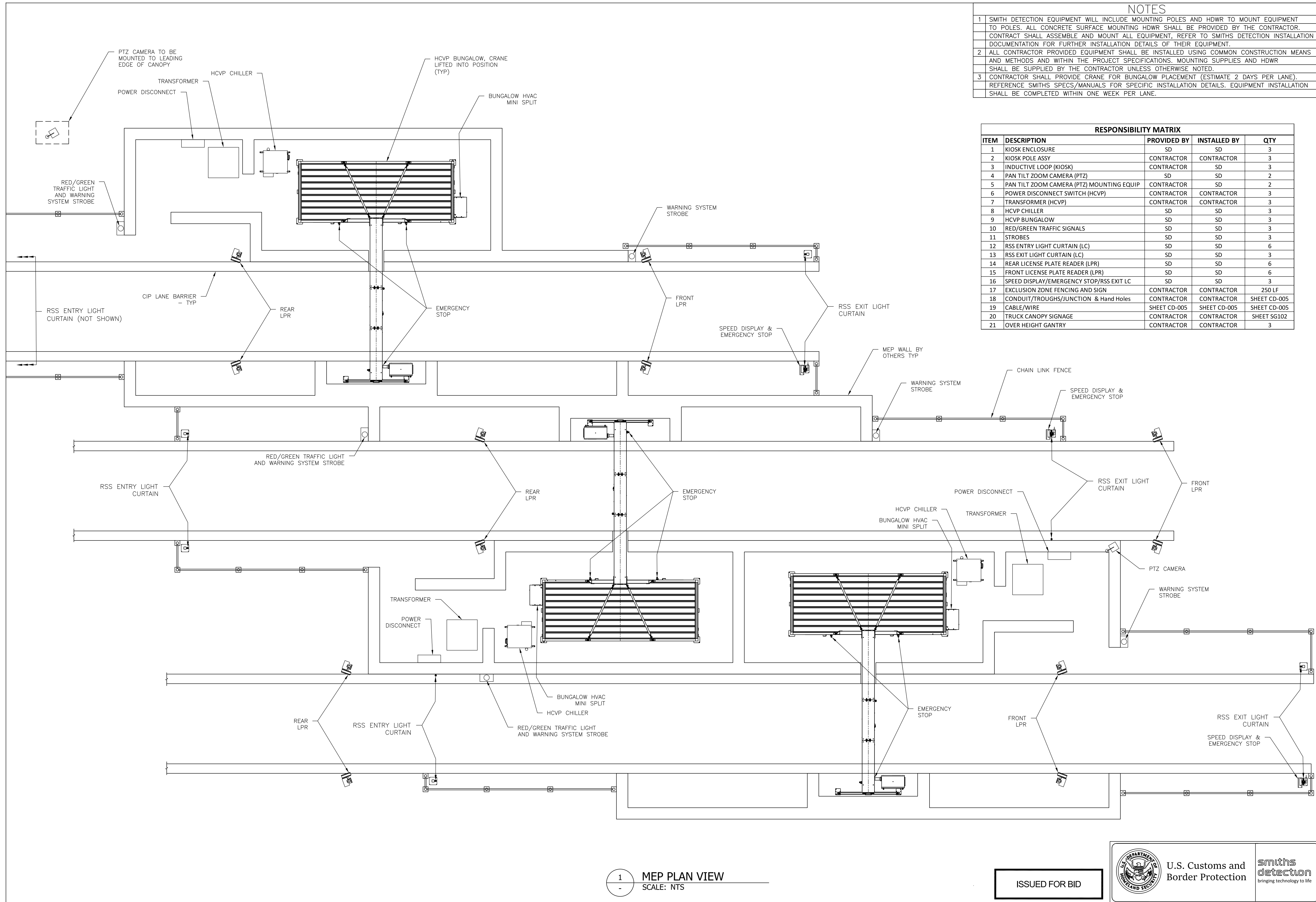


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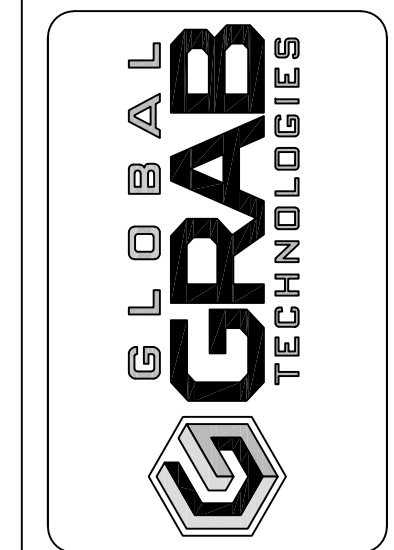
NOTES

- SMITHS DETECTION EQUIPMENT WILL INCLUDE MOUNTING POLES AND HDWR TO MOUNT EQUIPMENT TO POLES. ALL CONCRETE SURFACE MOUNTING HDWR SHALL BE PROVIDED BY THE CONTRACTOR. CONTRACTOR SHALL ASSEMBLE AND MOUNT ALL EQUIPMENT, REFER TO SMITHS DETECTION INSTALLATION DOCUMENTATION FOR FURTHER INSTALLATION DETAILS OF THEIR EQUIPMENT.
- ALL CONTRACTOR PROVIDED EQUIPMENT SHALL BE INSTALLED USING COMMON CONSTRUCTION MEANS AND METHODS AND WITHIN THE PROJECT SPECIFICATIONS. MOUNTING SUPPLIES AND HDWR SHALL BE SUPPLIED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE CRANE FOR BUNGALOW PLACEMENT (ESTIMATE 2 DAYS PER LANE). REFERENCE SMITHS SPECS/MANUALS FOR SPECIFIC INSTALLATION DETAILS. EQUIPMENT INSTALLATION SHALL BE COMPLETED WITHIN ONE WEEK PER LANE.

RESPONSIBILITY MATRIX

ITEM	DESCRIPTION	PROVIDED BY	INSTALLED BY	QTY
1	KIOSK ENCLOSURE	SD	SD	3
2	KIOSK POLE ASSY	CONTRACTOR	CONTRACTOR	3
3	INDUCTIVE LOOP (KIOSK)	CONTRACTOR	SD	3
4	PAN TILT ZOOM CAMERA (PTZ)	SD	SD	2
5	PAN TILT ZOOM CAMERA (PTZ) MOUNTING EQUIP	CONTRACTOR	SD	2
6	POWER DISCONNECT SWITCH (HCVP)	CONTRACTOR	CONTRACTOR	3
7	TRANSFORMER (HCVP)	CONTRACTOR	CONTRACTOR	3
8	HCVP CHILLER	SD	SD	3
9	HCVP BUNGALOW	SD	SD	3
10	RED/GREEN TRAFFIC SIGNALS	SD	SD	3
11	STROBES	SD	SD	3
12	RSS ENTRY LIGHT CURTAIN (LC)	SD	SD	6
13	RSS EXIT LIGHT CURTAIN (LC)	SD	SD	3
14	REAR LICENSE PLATE READER (LPR)	SD	SD	6
15	FRONT LICENSE PLATE READER (LPR)	SD	SD	6
16	SPEED DISPLAY/EMERGENCY STOP/RSS EXIT LC	SD	SD	3
17	EXCLUSION ZONE FENCING AND SIGN	CONTRACTOR	CONTRACTOR	250 LF
18	CONDUIT/TROUGHS/JUNCTION & Hand Holes	CONTRACTOR	CONTRACTOR	SHEET CD-005
19	CABLE/WIRE	SHEET CD-005	SHEET CD-005	SHEET CD-005
20	TRUCK CANOPY SIGNAGE	CONTRACTOR	CONTRACTOR	SHEET SG102
21	OVER HEIGHT GANTRY	CONTRACTOR	CONTRACTOR	3

REV	DATE	DESCRIPTION
1	03/20/2024	UPDATED MATRIX
0	02/08/2024	ISSUED FOR BID



DATE:	09/14/2023
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PEACE BRIDGE - CANADA
MEP PLAN VIEW

1
-
MEP PLAN VIEW
SCALE: NTS

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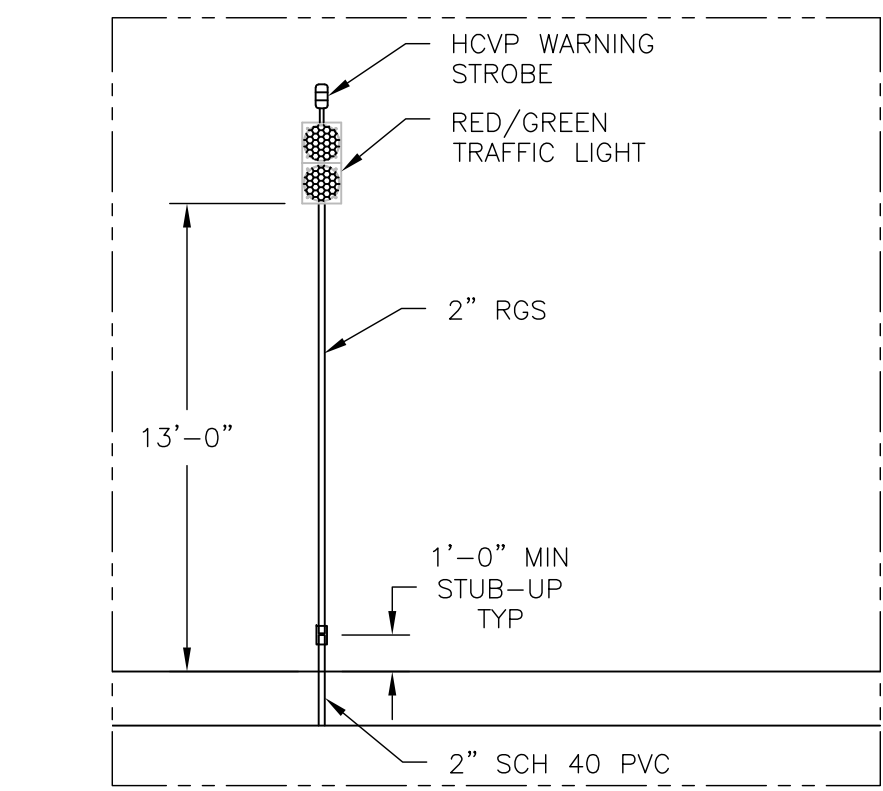
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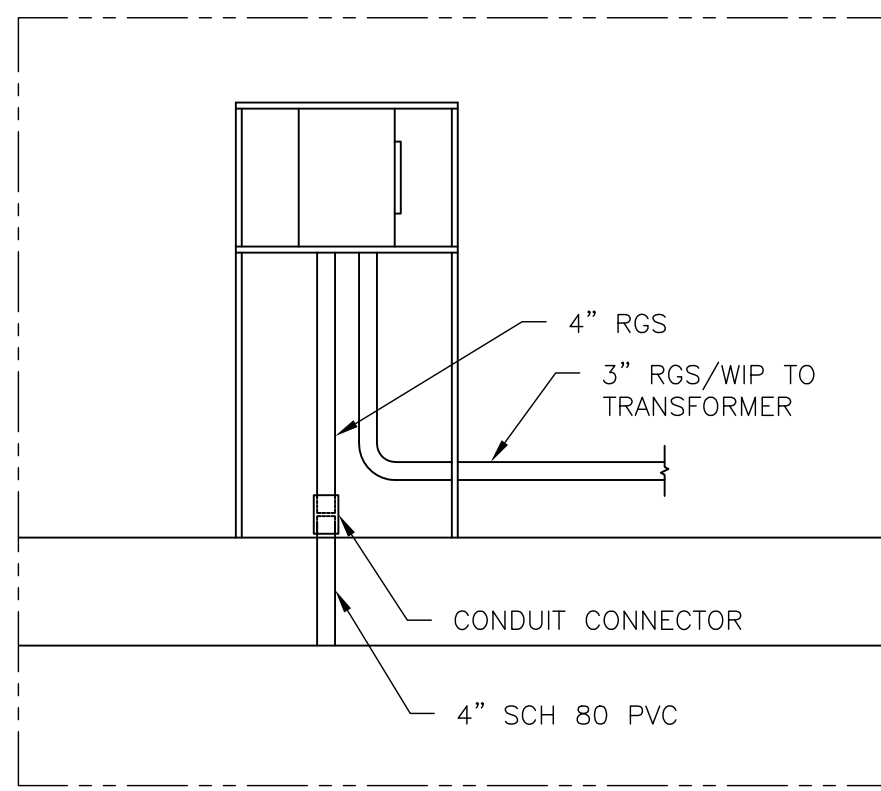
SHEET ID
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SHEET:--

CONDUIT TABLE					
CONDUIT LABEL	FROM	TO	CONDUIT TYPE	D/B VS. ENC	CONDUCTOR
A	RSS ENTRY	BUNGALOW COMMS	2" SCH 40 PVC	ENCASED	SMITHS FACTORY CABLE
B	RSS ENTRY	BUNGALOW COMMS	2" SCH 40 PVC	ENCASED	SMITHS FACTORY CABLE
C	LIGHT/STROBE	BUNGALOW COMMS	2" SCH 40 PVC	ENCASED	SMITHS FACTORY CABLE
D	LPR (REAR 1)	BUNGALOW COMMS	2" SCH 40 PVC	ENCASED	SMITHS FACTORY CABLE
E	LPR (REAR 2)	BUNGALOW COMMS	2" SCH 40 PVC	ENCASED	SMITHS FACTORY CABLE
F	LPR (FRONT 1)	BUNGALOW COMMS	2" SCH 40 PVC	ENCASED	SMITHS FACTORY CABLE
G	LPR (FRONT 2)	BUNGALOW COMMS	2" SCH 40 PVC	ENCASED	SMITHS FACTORY CABLE
H	STROBE	BUNGALOW COMMS	2" SCH 40 PVC	ENCASED	SMITHS FACTORY CABLE
J	RSS EXIT	BUNGALOW COMMS	2" SCH 40 PVC	ENCASED	SMITHS FACTORY CABLE
K	RSS EXIT	BUNGALOW COMMS	2" SCH 40 PVC	ENCASED	SMITHS FACTORY CABLE
L	ENTRY SCENE CAMERA	BUNGALOW COMM	1" SCH 40 PVC	ENCASED	CAT 6A DIRECT BURIAL RATED CABLE
M	ENTRY SCENE CAMERA	BUNGALOW POWER	1" SCH 40 PVC	ENCASED	(2) 12 GAUGE + 12 GAUGE GROUND THHN
N	EXIT SCENE CAMERA	BUNGALOW COMM	1" SCH 40 PVC	ENCASED	CAT 6A DIRECT BURIAL RATED CABLE
P	EXIT SCENE CAMERA	BUNGALOW POWER	1" SCH 40 PVC	ENCASED	(2) 12 GAUGE + 12 GAUGE GROUND THHN
Q	MEP POWER DISCONNECT	MDP OUTBUILDING, SEE SITE LAYOUT FOR LOCATION	2X 2" SCH 80 PVC	DIRECTIONAL BORED	2X (3) 2/0 (VERIFY 750' PATHWAY LENGTH FOR VOLTAGE DROP)
R	MEP POWER DISCONNECT	TRANSFORMER	2X 2" SCH 40 PVC	ENCASED	2X (3) 2/0
S	HCVP CHILLER	BUNGALOW POWER	2" WIP	WIP	SMITHS FACTORY
T	CHECK IN KIOSK	BUNGALOW POWER	1" SCH 40 PVC	ENCASED	(2) 12 GAUGE + 12 GAUGE GROUND THHN
U	CHECK IN KIOSK	BUNGALOW COMM	1" SCH 40 PVC	ENCASED	(3) CAT 6A DIRECT BURIAL RATED CABLE
W	CHECK IN KIOSK LOOP	STUB AT CURB	1" SCH 40 PVC	ENCASED	INDUCTIVE LOOP WIRE

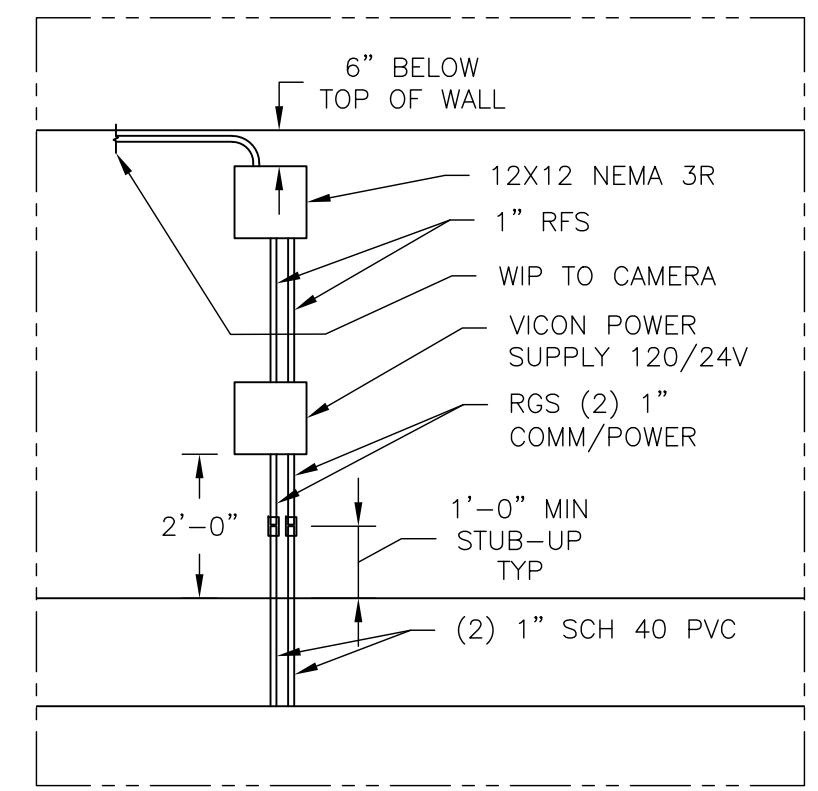
- NOTES**
- ALL CONDUIT, JUNCTION BOXES, AND HAND HOLES SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONDUIT PATHWAYS SHALL BE DETERMINED IN THE FIELD AND SHALL BE RUN IN A MANNER SUCH THAT MINIMIZES THE TOTAL LF FOR CABLE RUNS.
 - SEE SHEET CD-006 FOR CONDUIT STUB-UP DIMENSIONAL LOCATES.
 - ALL CABLE/WIRE SHALL BE PULLED BY THE CONTRACTOR. SMITHS FACTORY CABLE SUPPLIED BY SMITHS DETECTION ALL OTHER CABLE/WIRE PROVIDED BY THE CONTRACTOR.
 - THE CONTRACTOR SHALL ASSIST SMITHS DETECTION WITH ALL FINAL TERMINATIONS.
 - CONTRACTOR SHALL LEAVE 3' MINIMUM OF WIRE AT TERMINATION LOCATIONS FOR TERMINATIONS.
 - INDUCTIVE LOOP WIRE PROVIDED AND INSTALLED BY CONTRACTOR.



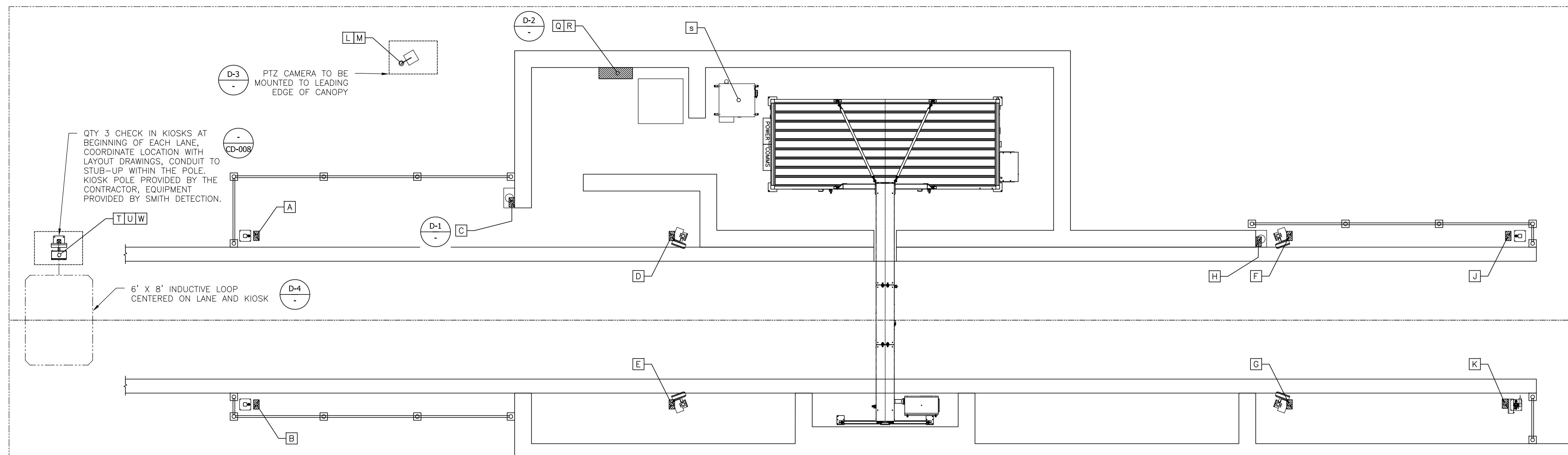
D-1 LIGHT/STROBE DETAIL VIEW
SCALE: NTS



D-2 DISCONNECT RACK
SCALE: NTS

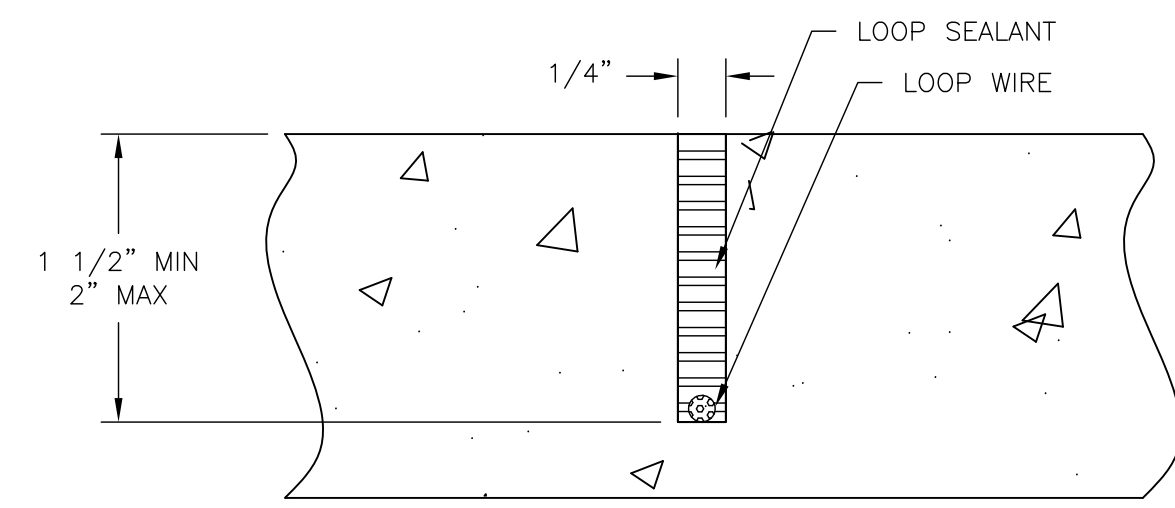


D-3 CAMERA DETAIL VIEW
SCALE: NTS



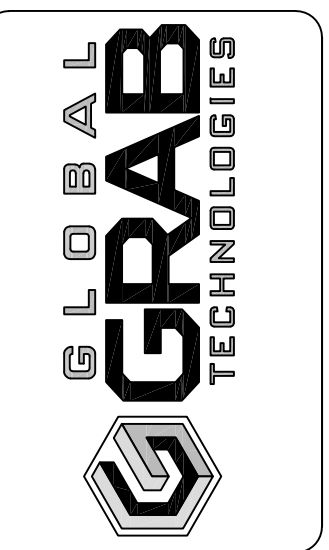
1 CONDUIT AND CONDUCTOR DETAILS
SCALE: NTS

D-3 PTZ CAMERA TO BE MOUNTED TO WALL ON MIDDLE LANE EXIT SIDE, SEE SHEET CD-006



D-4 INDUCTIVE LOOP SAW CUT SECTION
SCALE: NTS

REV	DATE	DESCRIPTION
0	02/08/2024	ISSUED FOR BID



DATE:	10/16/2023
DRAWN BY:	JCC
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SCALE:	AS NOTED
SIZE:	ANSI D
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DRAWING NUMBER:	22-000PB-CD-005

PEACE BRIDGE - CANADA
CONDUIT AND CONDUCTOR DETAILS



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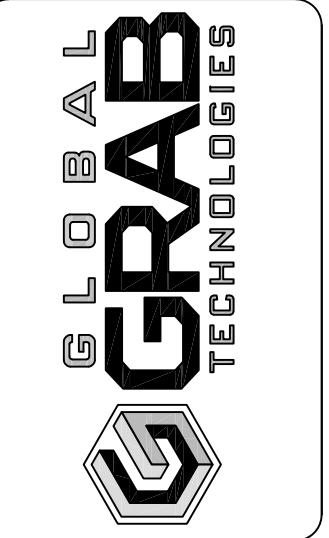
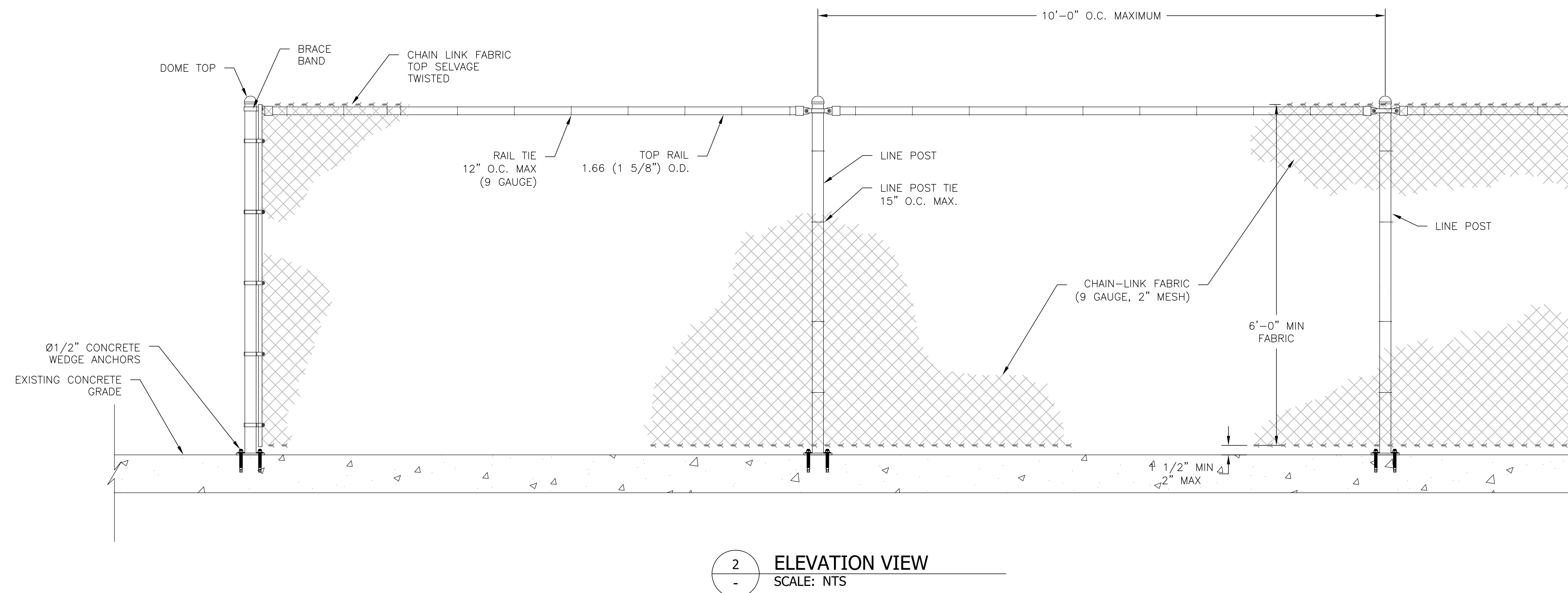
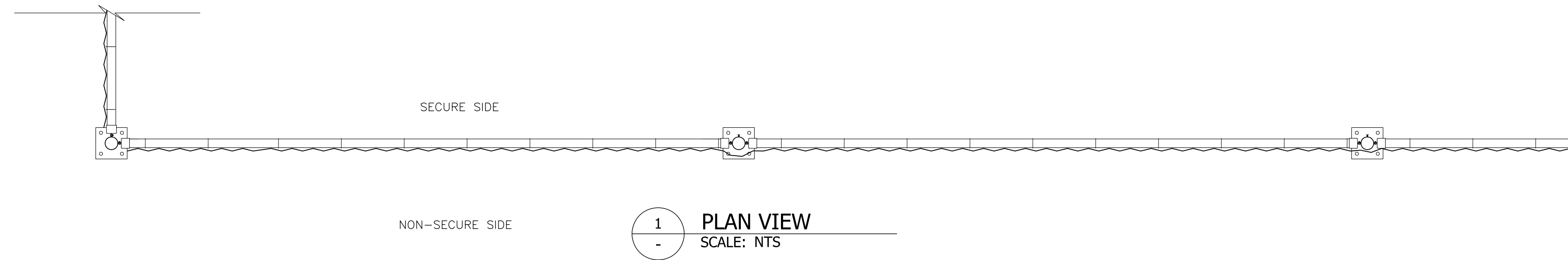
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SHEET ID
CD-005
SHEET:--

NOTES

- 1 WIRE TIES, RAILS, POSTS, AND BRACES SHALL BE CONSTRUCTED ON THE SECURE SIDE OF THE FENCE ALIGNMENT.
- 2 CHAIN-LINK FABRIC SHALL BE PLACED ON THE OPPOSITE SIDE OF THE SECURE AREA.
- 3 DETAILS SHOWN ARE TO CLARIFY REQUIREMENTS AND ARE NOT INTENDED TO LIMIT OTHER TYPES OF FENCE SECTIONS AND METHODS OF INSTALLATION THAT COMPLY WITH THE PROJECT SPECIFICATIONS.
- 4 FENCE FABRIC SHALL CONFORM TO ASTM A392, CLASS 2, ZINC COATED STEEL WIRE WITH MINIMUM COATING WEIGHT OF 1.2 OUNCES OF ZINC PER SQUARE FOOT OF COATED SURFACE.
- 5 ALL POSTS SHALL BE ASTM F1043, TYPE 1C STEEL PIPE (SS40) WITH 50,000 PSI MINIMUM YIELD STRENGTH.
- 6 ALL POSTS AND FERROUS ACCESSORIES SHALL BE ZINC COATED.
- 7 FASTEN FABRIC TO LINE, END, AND CORNER POSTS AT APPROXIMATELY 15 INCH INTERVALS AND FASTEN TO ALL RAILS AND TENSION WIRES AT APPROXIMATELY 12 INCH INTERVALS.
- 8 FENCE SHALL BE TENSIONED PER ASTM STANDARDS FOR SECURITY CHAIN LINK FENCING AND/OR PER PROJECT SPECIFICATIONS.



DATE:	11/02/2023
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SIZE:	ANSI D
REV:	0
DRAWING NUMBER:	22-000PB-CD-007

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PEACE BRIDGE - CANADA
CHAIN LINK FENCE DETAILS

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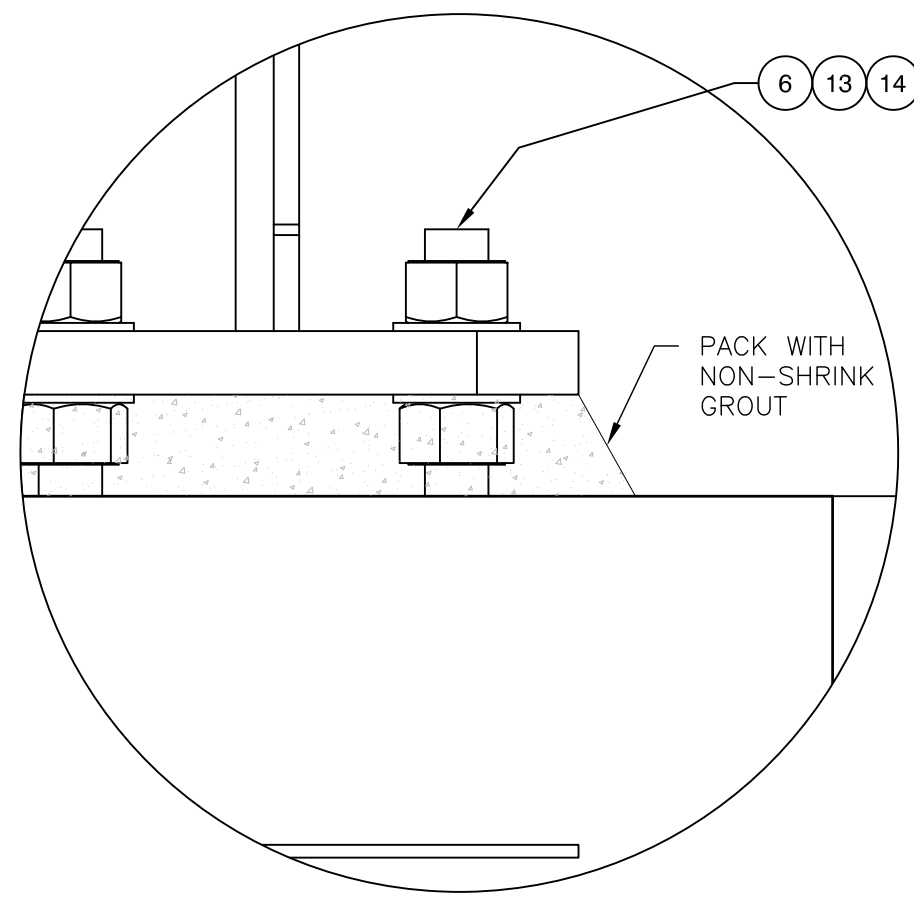


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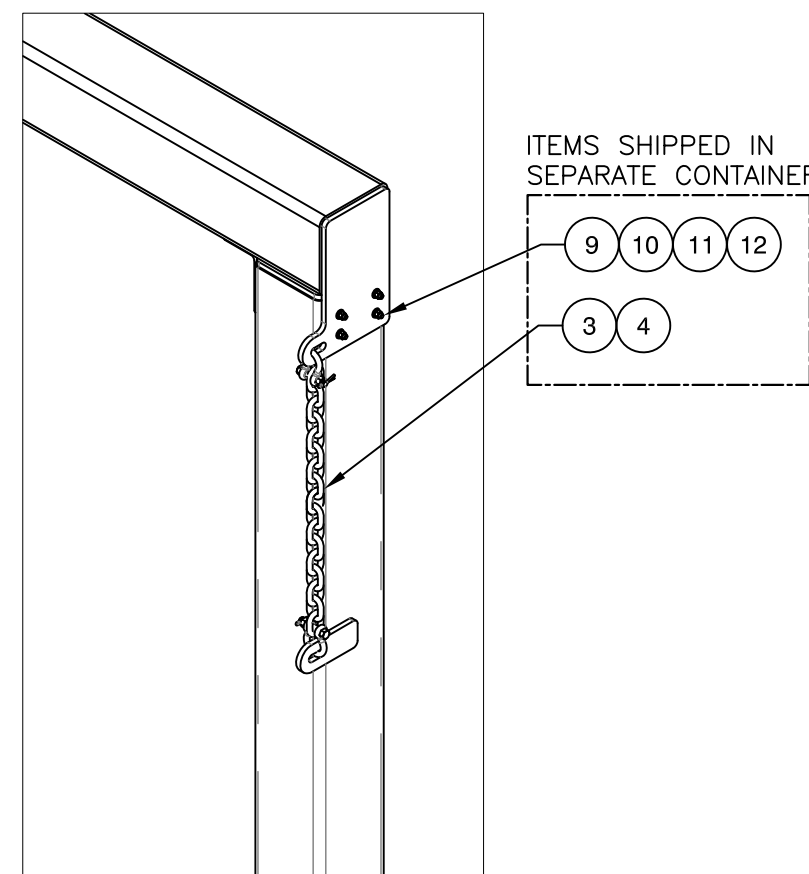
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SHEET ID
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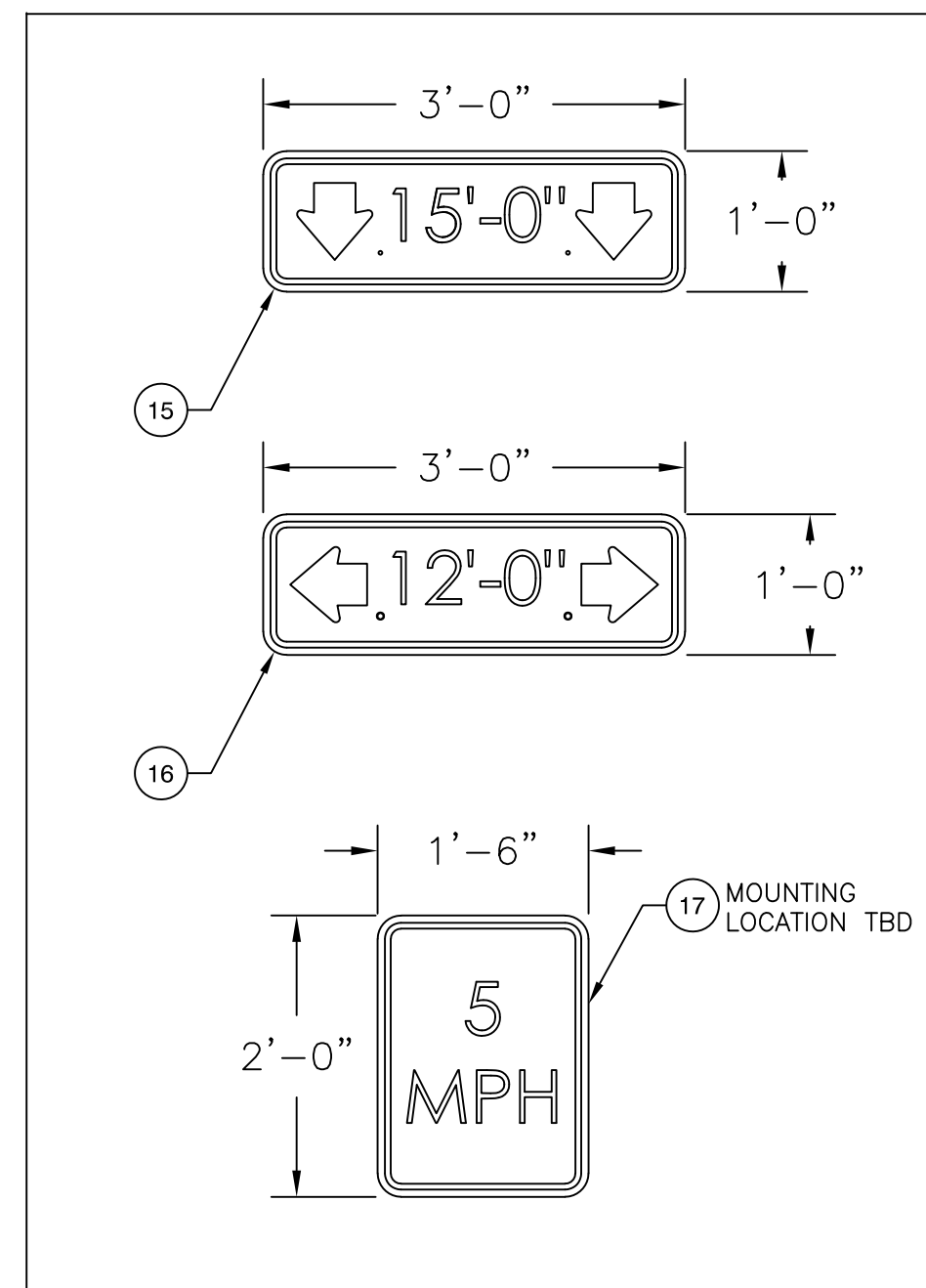
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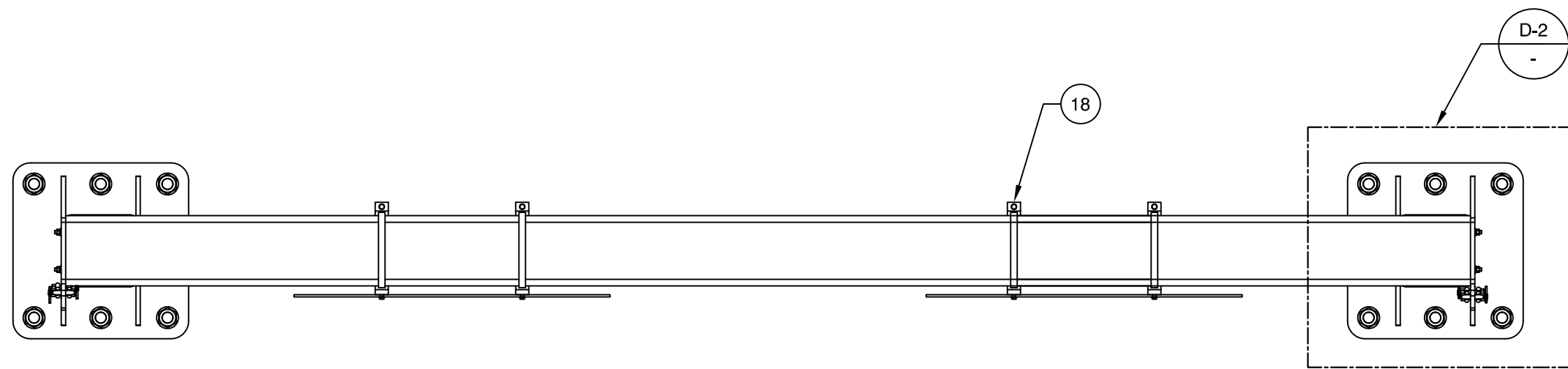
D-1
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DETAIL VIEW
SCALE: NTS



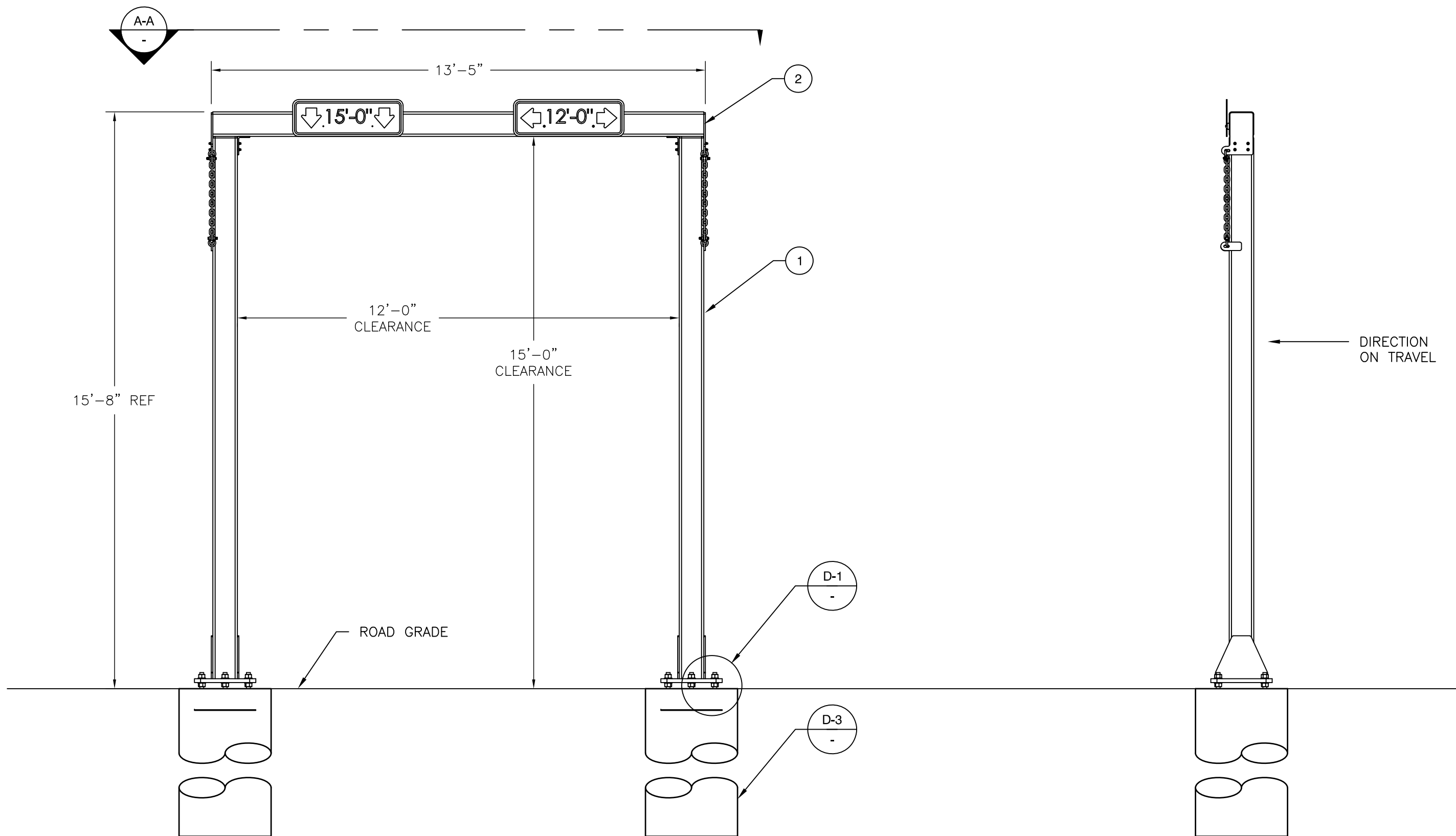
D-2
-
DETAIL VIEW
SCALE: NTS



D-4
-
SIGN DETAIL
SCALE: NTS

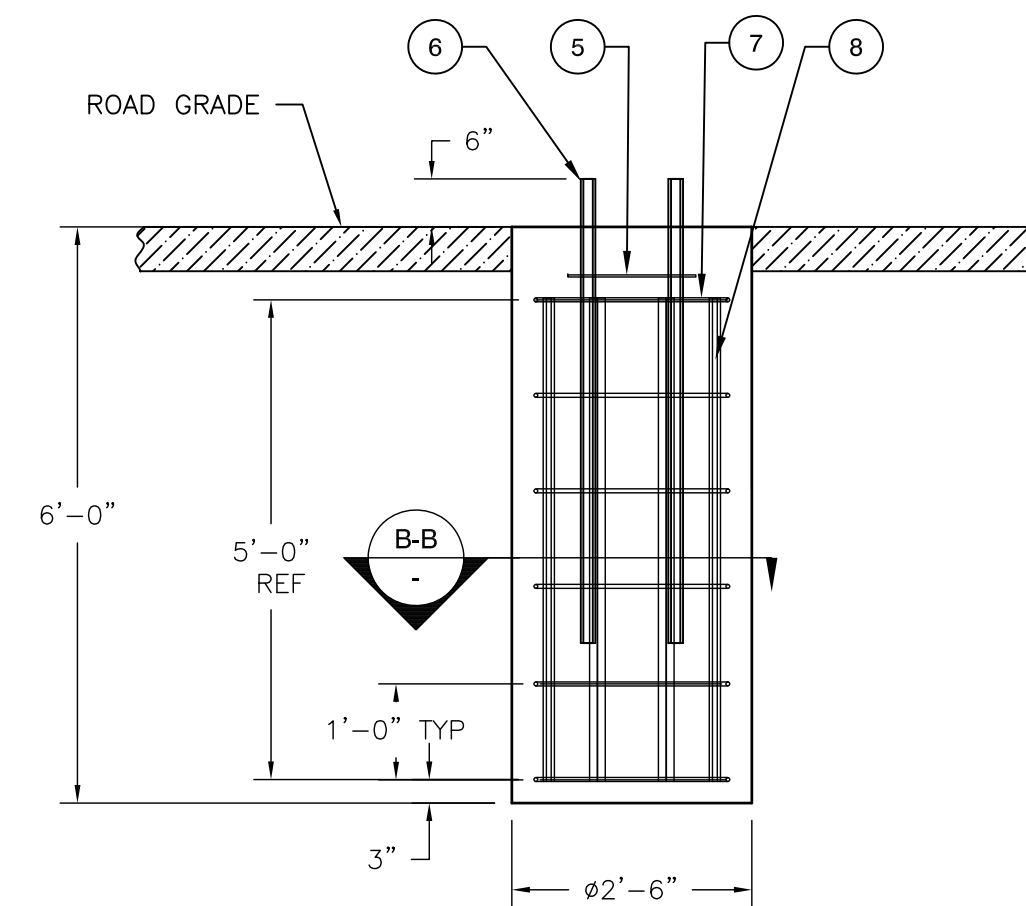


A-A
-
SECTION VIEW
SCALE: NTS

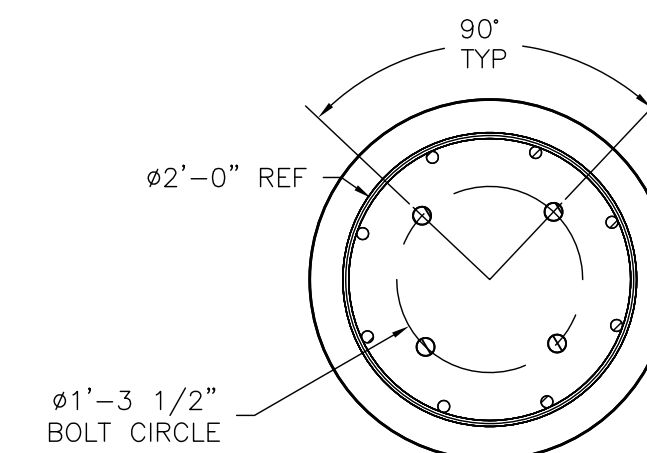


1
-
ELEVATION VIEW
SCALE: NTS

2
-
SIDE ELEVATION VIEW
SCALE: NTS

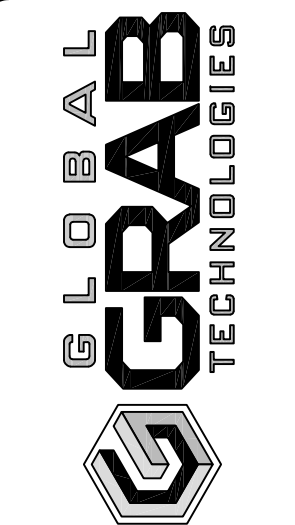


D-3
-
FOUNDATION DETAIL
SCALE: NTS



B-B
-
CROSS SECTION
SCALE: NTS

BILL OF MATERIAL			
PART#	ITEM	QTY	DESCRIPTION
-	1	2	MEP OVERHEIGHT GANTY VERTICAL WELDMENT
-	2	2	MEP OVERHEIGHT GANTY HORIZONTAL WELDMENT
-	3	4	SHACKLE
-	4	2	SAFETY CHAIN
501257	5	2	MEP OVERHEIGHT GANTY ANCHOR BOLT TEMPLATE
615490	6	4	1.25"DIA X 60" X 6" J ANCHOR BOLTS
-	7	12	#4 REBAR X 2'-0" DIA. - ASTM A615 GRADE 60 DEFORMED BAR
-	8	16	#8 REBAR X 5'-0" - ASTM A615 GRADE 60 DEFORMED BAR
615486	9	1	3/8"-16 X 3'-0" LG. ALL THREAD, HOT DIP GALV, CUT TO LG. IN FIELD
615487	10	8	WASHER, FLAT - SAE, 3/8, GR08, HOT DIP GALV
615058	11	8	WASHER, SPLIT LOCK, 3/8, GR08, HOT DIP GALV
615488	12	8	NUT, HEX, 3/8-16, GR08, HOT DIP GALV
-	13	24	NUT, HEX, 1 1/4-7, GR08, HOT DIP GALV
-	14	24	WASHER, FLAT - SAE, 1-1/4, GR08, HOT DIP GALV
-	15	1	CUSTOM WARNING SIGN "HEIGHT" 36" X 12"
-	16	1	CUSTOM WARNING SIGN "WIDTH" 36" X 12"
-	17	1	CUSTOM SPEED SIGN "5 MPH"
615145	18	4	TAPCO POLE MOUNT SIGN BRACKET



DATE:	05/31/2023
DRAWN BY:	JCC
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SCALE:	AS NOTED
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REV:	0
DRAWING NUMBER:	23-000PB-CD-011

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PEACE BRIDGE - CANADA
OVER HEIGHT GANTRY
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