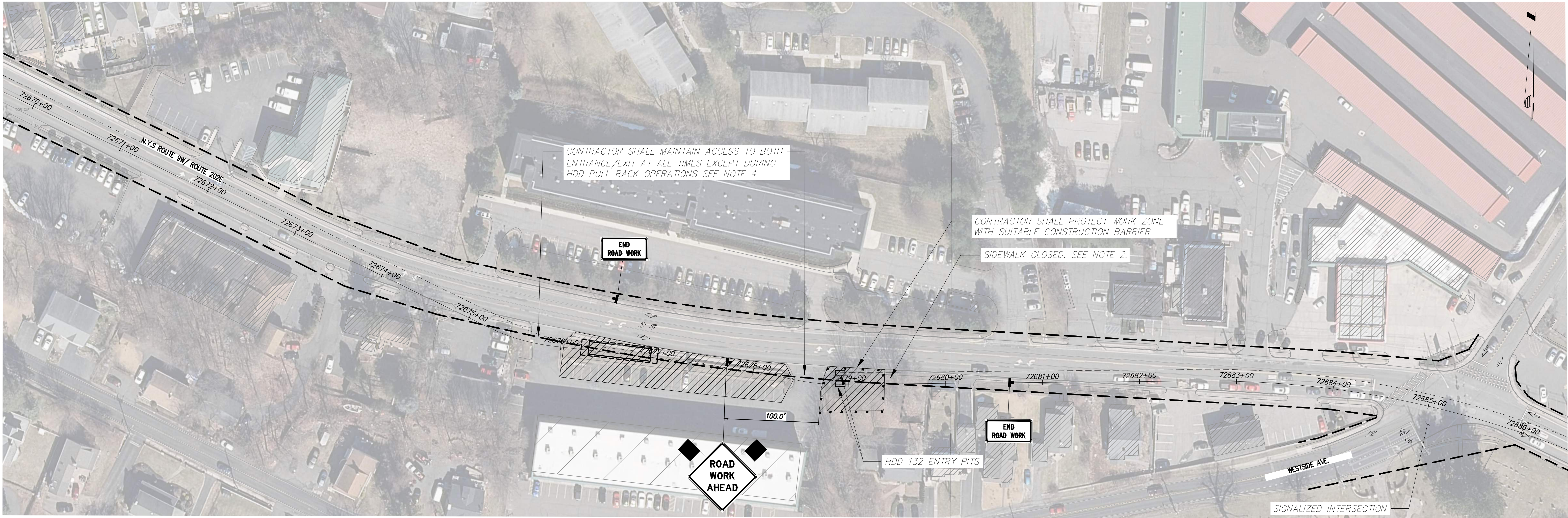



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- NOTES:**
1. POSTED SPEED LIMIT ON ROUTE 9W = 30MPH
 2. FOR SIDEWALK AND PEDESTRIAN DETOUR SEE DWG. NO. 0-804.
 3. ESTIMATED TIME OF COMPLETION FOR HDD 132 IS 66 DAYS.
 4. FOR HDD 132 PULLBACK OPERATIONS CONTRACTOR SHALL CLOSE BOTH ENTRANCE/EXIT OF THE PARKING LOT FOR 2-3 DAYS, PER BORE.

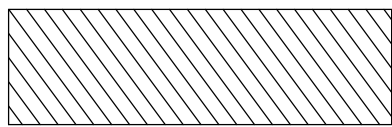
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
CONSTRUCTION SIGNS




TYPE III BARRICADE
ITEM 619.04



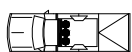
WORK ZONE



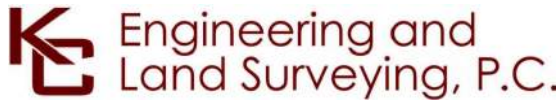
DIRECTION OF TRAFFIC



CHANNELIZING DEVICE
ITEM 619.07010001



24,000 LB PROTECTIVE
VEHICLE WITH TRUCK/TRAILER
MOUNTED ATTENUATOR (TMIA)



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

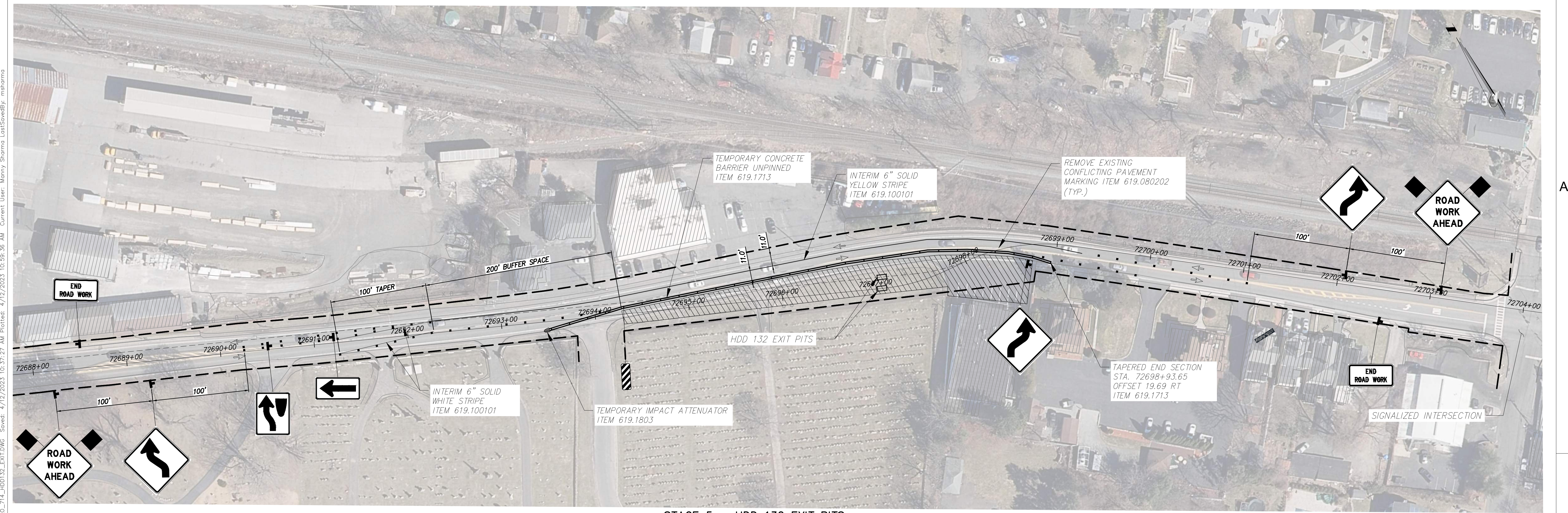
ISSUED FOR PERMITTING

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E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	MS	SB
D	11/16/2022	DRAFT FINAL SUBMISSION	MS	SB
C	05/20/2022	60% DESIGN SUBMISSION	MS	SB
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	MS	SB
A	02/18/2022	PRELIMINARY PROGRESS	MS	SB
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
WORK ZONE TRAFFIC CONTROL DETAILS
HDD 132 ENTRY PITS

DRAWN BY: MS DESIGNED BY: MS APPROVED BY: SB SCALE AS SHOWN REV. NO. XX OF XXX

KIEWIT PROJECT NO.	21162
KC PROJECT NO.	120174
DRAWING NO.	O-713
DATE	04/12/2023
SH.NO.	XX OF XXX



STAGE 5 – HDD 132 EXIT PITS
SCALE: 1" = 50'

- NOTES:
1. POSTED SPEED LIMIT ON ROUTE 9W = 30MPH
 2. FOR ADDITIONAL DETAILS AND REQUIREMENTS SEE NYSDD STANDARD SHEET 619-422
 3. ESTIMATED TIME OF COMPLETION FOR HDD 132 IS 75 DAYS.

LEGEND

CONSTRUCTION SIGNS

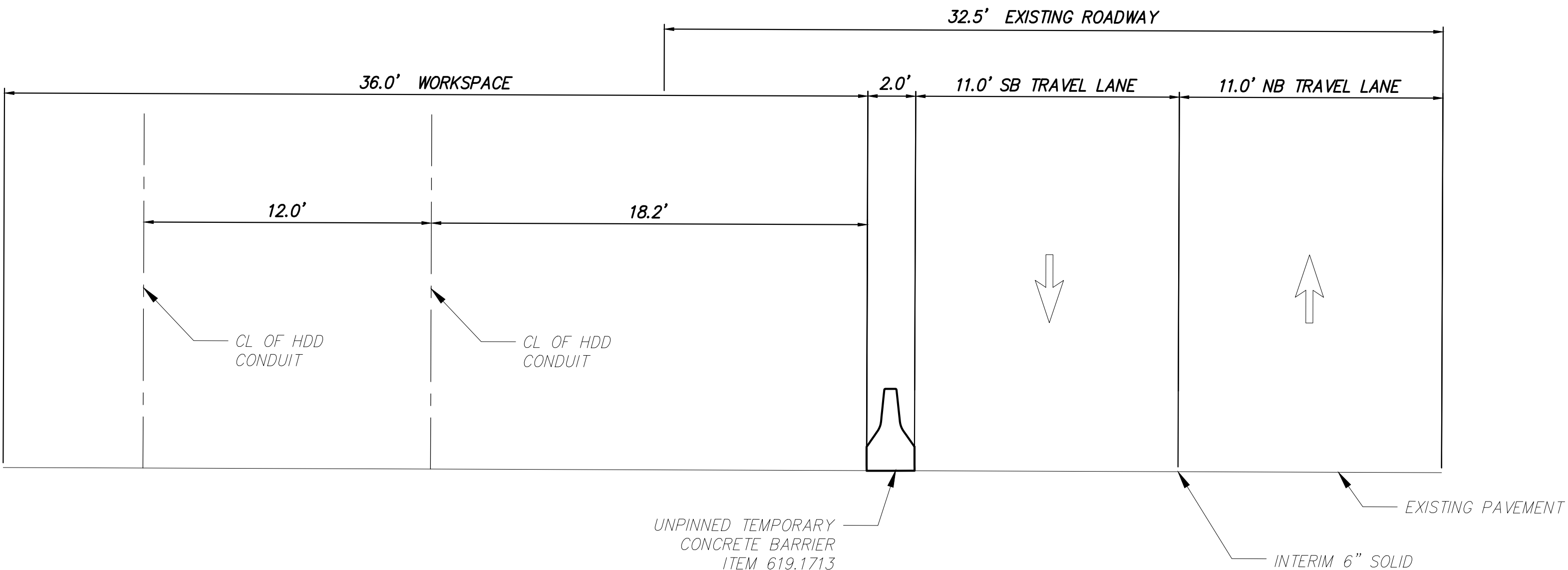
TYPE III BARRICADE
ITEM 619.04

WORK ZONE

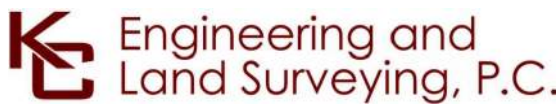
DIRECTION OF TRAFFIC

CHANNELIZING DEVICE
ITEM 619.07010001

TEMPORARY CONCRETE
BARRIER ITEM 619.17XX



SECTION ROUTE 9W (LOOKING NORTH)
STA. 72697+06



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

ISSUED FOR
PERMITTING

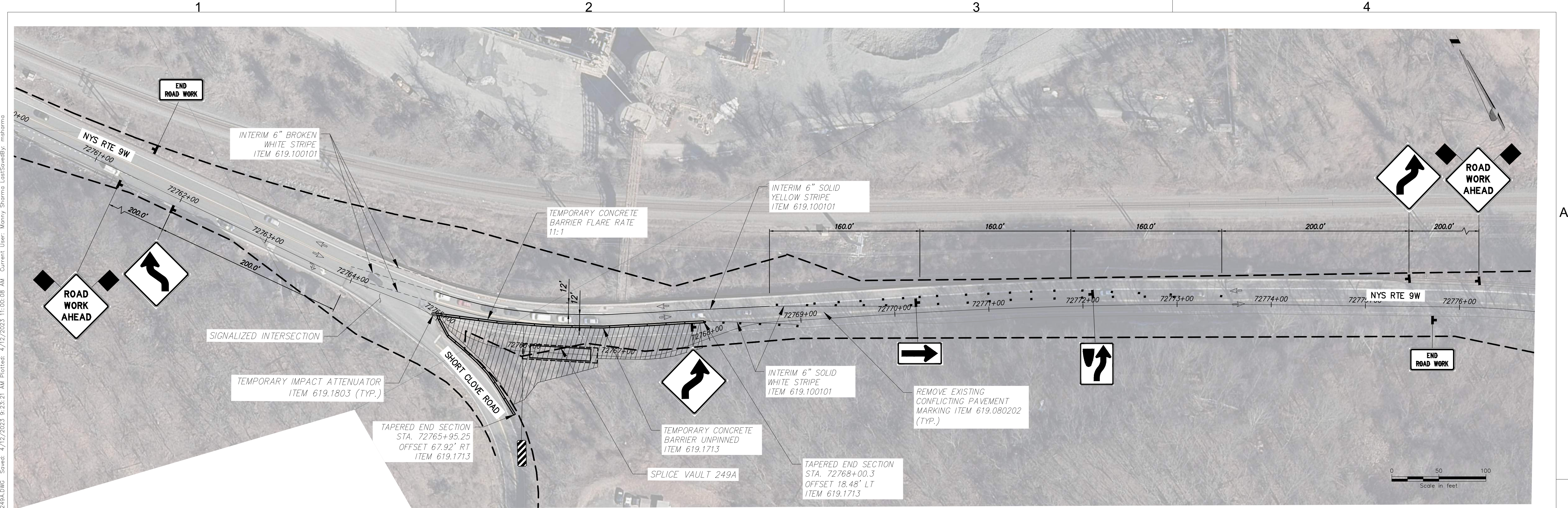
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E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	MS	SB
D	11/16/2022	DRAFT FINAL SUBMISSION	MS	SB
C	05/20/2022	60% DESIGN SUBMISSION	MS	SB
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	MS	SB
A	02/18/2022	PRELIMINARY PROGRESS	MS	SB

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
WORK ZONE TRAFFIC CONTROL DETAILS
HDD 132 EXIT PITS

DRAWN BY: MS DESIGNED BY: MS APPROVED BY: SB SCALE AS SHOWN REV. NO.

KIEWIT PROJECT NO.	21162
KC PROJECT NO.	120174
DRAWING NO.	O-714
DATE	04/12/2023
SH.NO.	XX OF XXX


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STAGE 3 – SPLICE VAULT 249A PLAN VIEW
SCALE: 1" = 50'

- NOTES:
- 1. POSTED SPEED LIMIT ON SHORT CLOVE RD = 30 MPH
 - 2. POSTED SPEED LIMIT ON ROUTE 9W = 40 MPH
 - 3. WORKZONE SHALL BE ACTIVE FOR LONGER THAN 3 DAYS

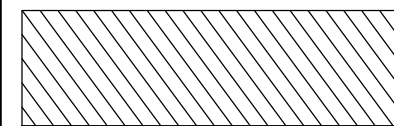
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CONSTRUCTION SIGNS




TYPE III BARRICADE
ITEM 619.04



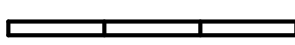
WORK ZONE



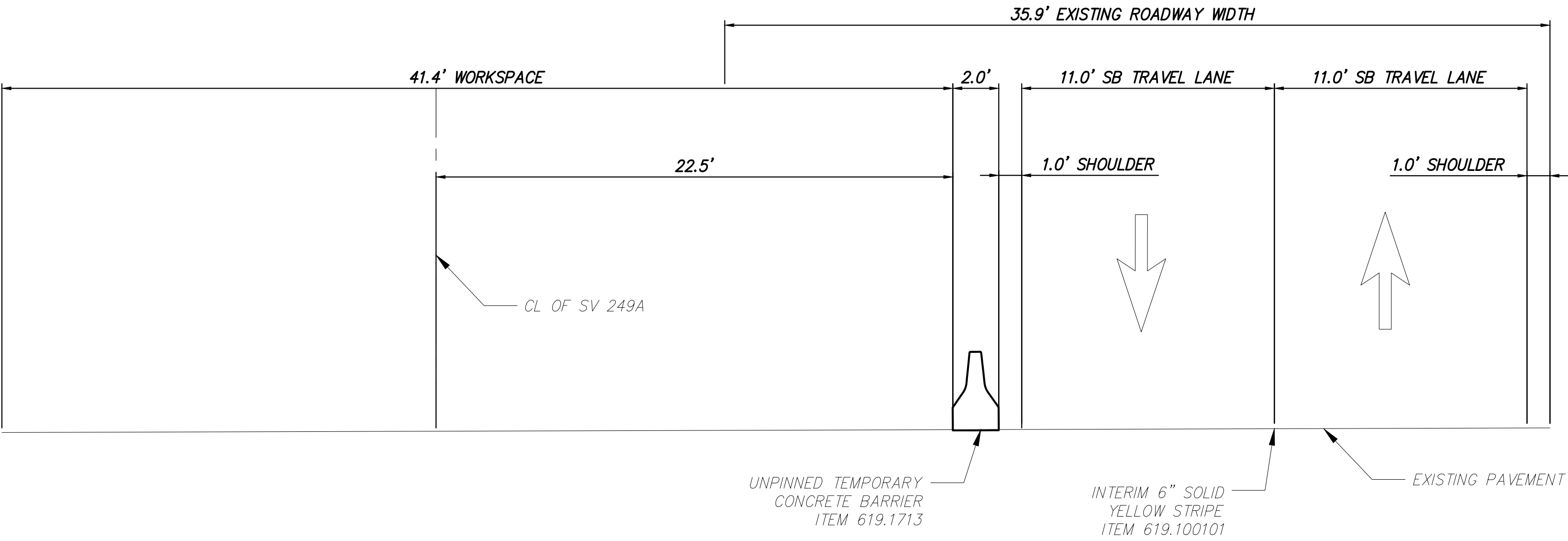
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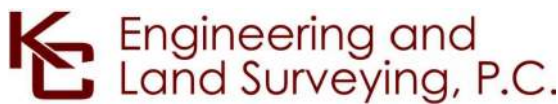
CHANNELIZING DEVICE
ITEM 619.07010001



TEMPORARY CONCRETE
BARRIER ITEM 619.17XX



SPLICE VAULT 249 TRENCH SECTION ROUTE 9W (LOOKING NORTH)
STA. 72766+35



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ISSUED FOR PERMITTING

No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
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E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	MS	SB
D	11/16/2022	DRAFT FINAL SUBMISSION	MS	SB
C	05/20/2022	60% DESIGN SUBMISSION	MS	SB
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	MS	SB
A	02/18/2022	PRELIMINARY PROGRESS	MS	SB

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
WORK ZONE TRAFFIC CONTROL DETAILS
SPLICE VAULT 249A

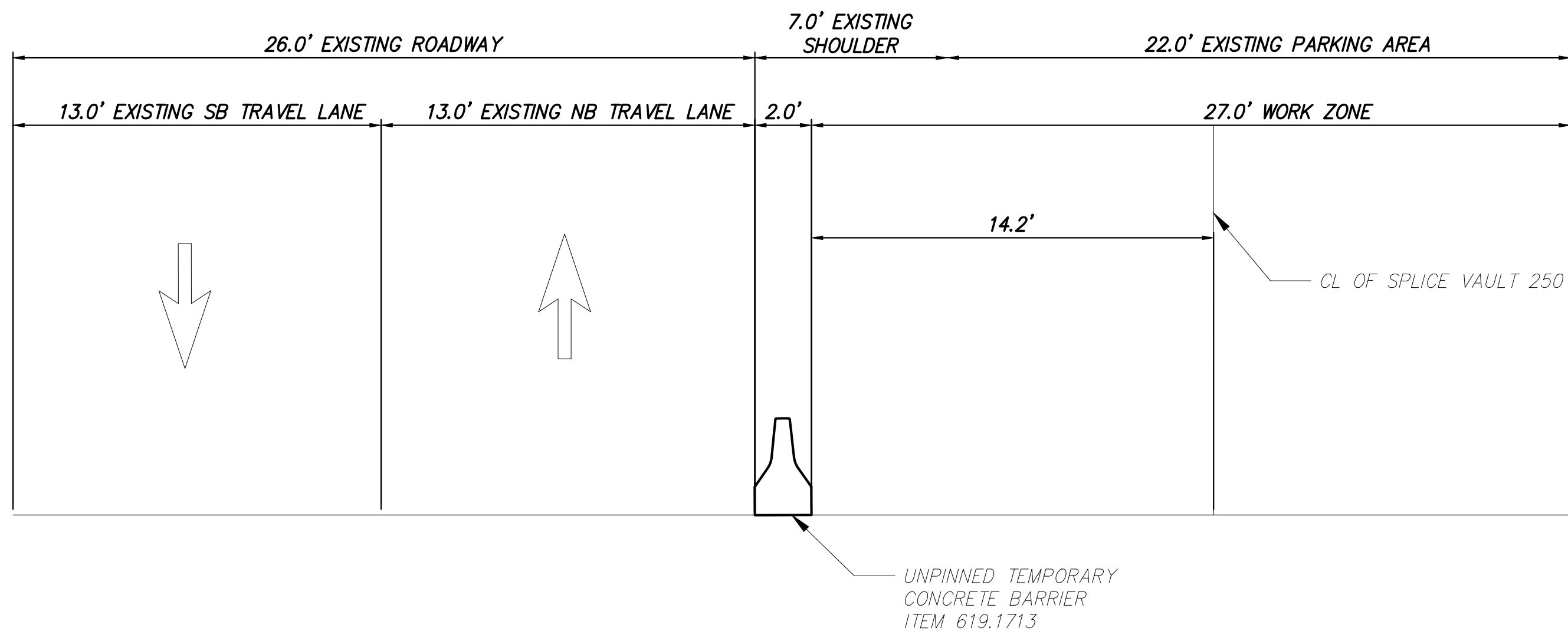
DRAWN BY:	MS	DESIGNED BY:	MS	APPROVED BY:	SB	SCALE	AS SHOWN	DATE	04/12/2023
						REV. NO.		SH.NO.	XX OF XXX

KIEWIT PROJECT NO.	21162
KC PROJECT NO.	120174
DRAWING NO.	O-715
DATE	04/12/2023
SH.NO.	XX OF XXX

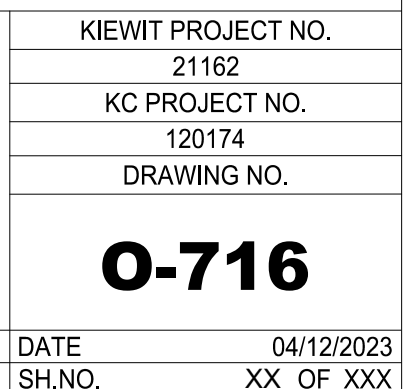


SCALE: 1" = 50'

1. POSTED SPEED LIMIT ON ROUTE 9W = 40 MPH
2. WORKZONE SHALL BE ACTIVE FOR LONGER THAN 3 DAYS, SEE NYSDOT STANDARD SHEET 619-501 FOR ADDITIONAL REQUIREMENTS



SPLICE VAULT 250 TRENCH SECTION ROUTE 9W (LOOKING NORTH)
STA. 72785+35



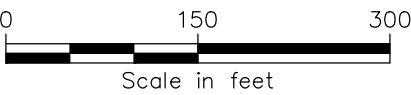
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- NOTES:**
- SEE NYSDOT STANDARD SHEET 619-520 FOR ADDITIONAL DETAILS.

PEDESTRIAN DETOUR SV 245A PLAN VIEW

SCALE: 1" = 150'



LEGEND

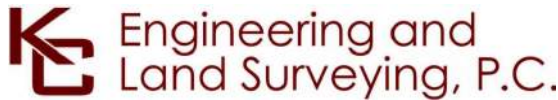
CONSTRUCTION SIGNS

TYPE III BARRICADE
ITEM 619.04

WORK ZONE

DIRECTION OF TRAFFIC

CHANNELIZING DEVICE
ITEM 619.07010001



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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F	04/14/2023	FINAL SUBMISSION	MS	SB
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D	11/16/2022	DRAFT FINAL SUBMISSION	MS	SB
C	05/20/2022	60% DESIGN SUBMISSION	MS	SB
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	MS	SB
A	02/18/2022	PRELIMINARY PROGRESS	MS	SB

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
WORK ZONE TRAFFIC CONTROL DETAILS
PEDESTRIAN DETOUR SV 245A

KIEWIT PROJECT NO.	21162
KC PROJECT NO.	120174
DRAWING NO.	O-801
DATE	04/12/2023
SH.NO.	XX OF XXX

DRAWN BY:	MS	DESIGNED BY:	MS	APPROVED BY:####	SCALE	AS SHOWN
					REV. NO.	

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NOTES:

- 1. SWE NYSDOT STANDARD SHEET 619-520 FOR ADDITIONAL DETAILS.

PEDESTRIAN DETOUR HDD 126 & SV 246 PLAN VIEW
SCALE: 1" = 150'

LEGEND

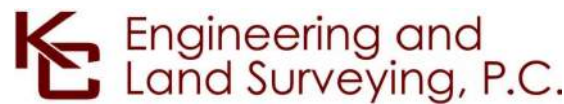
CONSTRUCTION SIGNS

TYPE III BARRICADE
ITEM 619.04

WORK ZONE

DIRECTION OF TRAFFIC

CHANNELIZING DEVICE
ITEM 619.07010001



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	MS	SB	
A	02/18/2022	PRELIMINARY PROGRESS	MS	SB	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
WORK ZONE TRAFFIC CONTROL DETAILS
PEDESTRIAN DETOUR HDD 126 & SV 246

DRAWN BY: MS DESIGNED BY: MS APPROVED BY:#### SCALE AS SHOWN
REV.NO.

KIEWIT PROJECT NO.	21162
KC PROJECT NO.	120174
DRAWING NO.	O-802
DATE	04/12/2023
SH.NO.	XX OF XXX

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NOTES:
1. SWE NYSDOT STANDARD SHEET 619-520 FOR ADDITIONAL DETAILS.

PEDESTRIAN DETOUR HDD 127 EXIT PLAN VIEW
SCALE: 1" = 50'

LEGEND

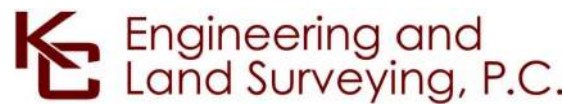
CONSTRUCTION SIGNS

TYPE III BARRICADE
ITEM 619.04

WORK ZONE

DIRECTION OF TRAFFIC

CHANNELIZING DEVICE
ITEM 619.07010001



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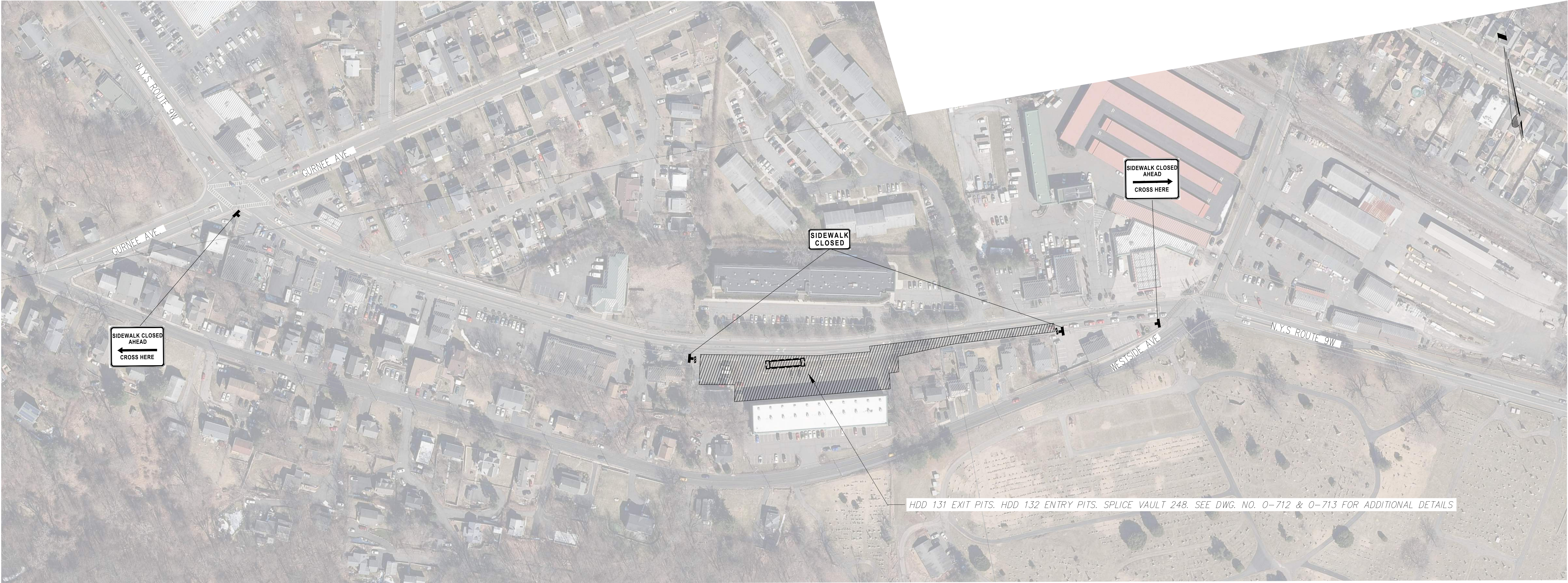
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A	02/18/2022	PRELIMINARY PROGRESS	MS	SB
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
WORK ZONE TRAFFIC CONTROL DETAILS
PEDESTRIAN DETOUR HDD 126 & SV 246

DRAWN BY: MS DESIGNED BY: MS APPROVED BY:#### SCALE AS SHOWN
REV.NO.

KIEWIT PROJECT NO.	21162
KC PROJECT NO.	120174
DRAWING NO.	O-803
DATE SH.NO.	04/12/2023 XX OF XXX

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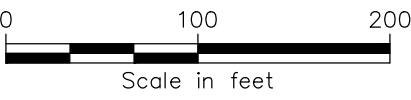


NOTES:


- 1. SWE NYSDOT STANDARD SHEET 619-520 FOR ADDITIONAL DETAILS.

PEDESTRIAN DETOUR HDD 131-132 & SV 248 PLAN VIEW


SCALE: 1" = 100'



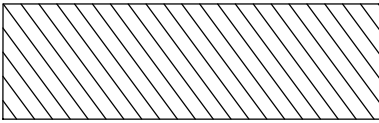
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
CONSTRUCTION SIGNS




TYPE III BARRICADE
ITEM 619.04



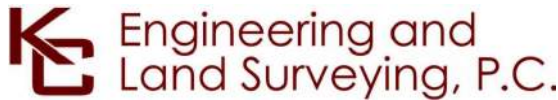
WORK ZONE



DIRECTION OF TRAFFIC



CHANNELIZING DEVICE
ITEM 619.07010001



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ISSUED FOR PERMITTING

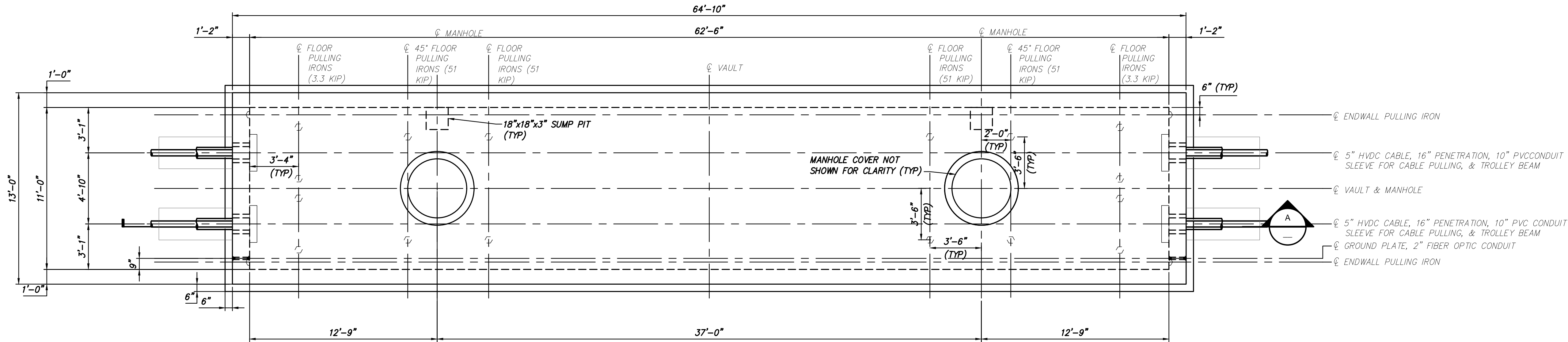
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D	11/16/2022	DRAFT FINAL SUBMISSION	MS	SB
C	05/20/2022	60% DESIGN SUBMISSION	MS	SB
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	MS	SB
A	02/18/2022	PRELIMINARY PROGRESS	MS	SB
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
WORK ZONE TRAFFIC CONTROL DETAILS
PEDESTRIAN DETOUR HDD 131-132 & SV 248

DRAWN BY: MS DESIGNED BY: MS APPROVED BY:#### SCALE AS SHOWN
REV.NO.

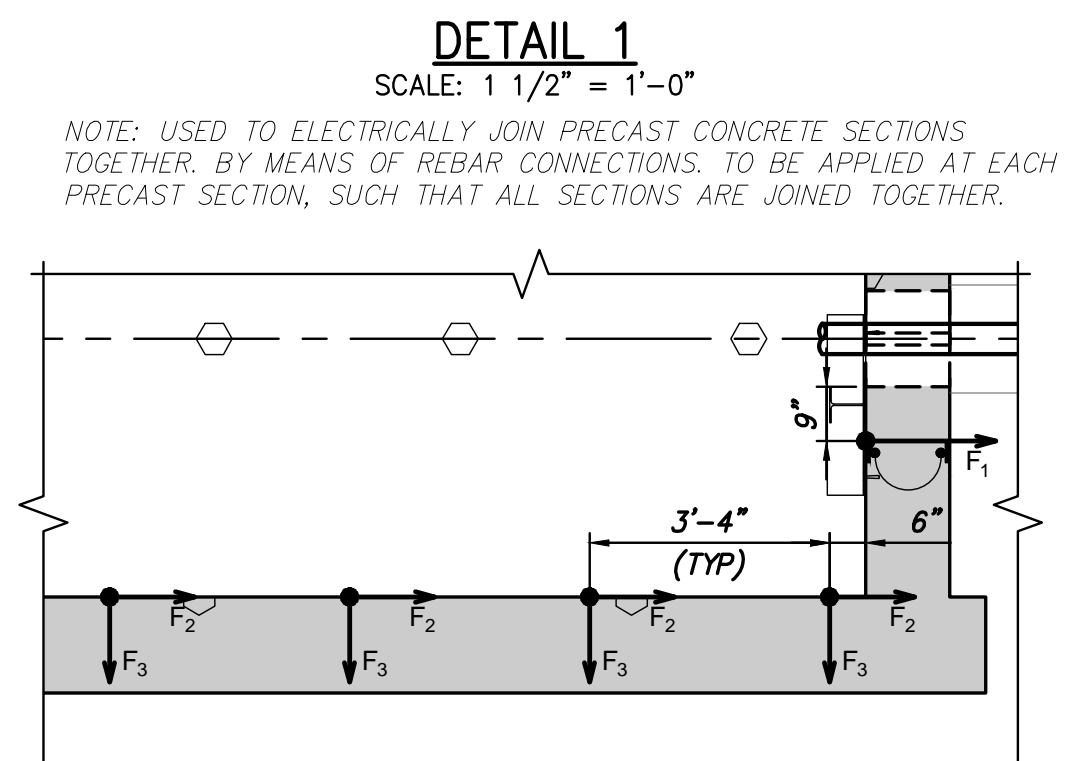
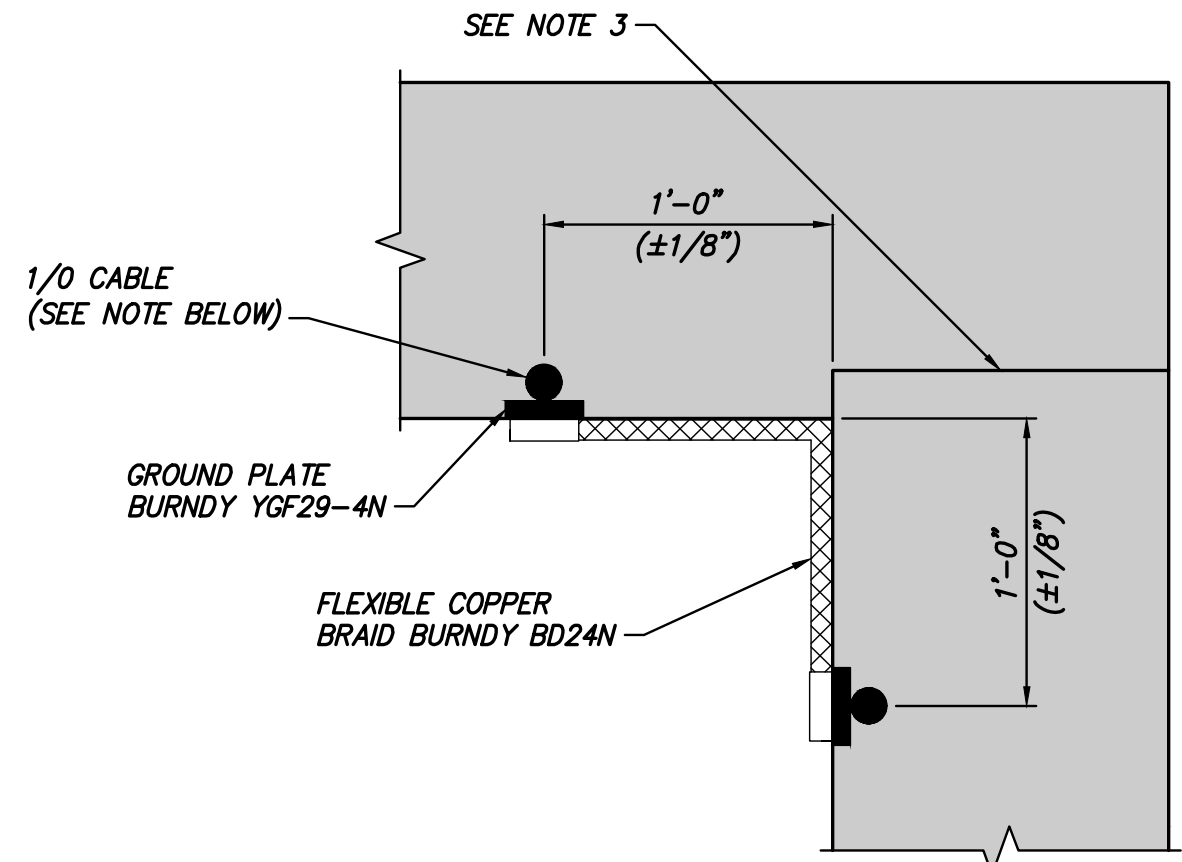
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KC PROJECT NO.	120174
DRAWING NO.	O-804
DATE	04/12/2023
SH.NO.	XX OF XXX

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NOTES:

- EACH ENDWALL (8.5 FT x 11 FT) IS DESIGNED FOR A SINGLE 51,000 LB PULLING IRON FORCE. THE FLOOR SLAB IS DESIGNED FOR FOUR CONCURRENT 3,300 LB PULLING IRON FORCES AND A SINGLE 51,000 LB PULLING IRON FORCE. SEE DETAIL 2 FOR RACKING FORCES AT EACH END.
- DESIGN LIVE LOAD: HL-93.
- EXTERIOR COATING & JOINT SEALERS/WATER STOPS TO BE USED BETWEEN PRECAST JOINTS, AS SPECIFIED.
- MAXIMUM PRECAST PIECE PICK WEIGHT LIMITED TO 50,000 LB.
- SEE ELECTRICAL DRAWINGS FOR CABLE RACKING DETAILS & GROUND WIRE DETAILS.
- WALL THICKNESSES TO BE FINALIZED PER APPROVED VENDOR'S DESIGN. REFER TO APPROVED VENDOR SHOP DRAWINGS FOR WEIGHTS AND PICK POINTS.
- THREADED ANCHOR WORKING LOAD SHALL BE 1,100 LB MINIMUM.
- LINK SEAL TO BE USED BETWEEN CABLE CONDUIT AND PENETRATION SLEEVE, AS SPECIFIED.
- ELECTRIC SUMP PUMP TO BE PROVIDED BY OTHERS.
- SEE SHEET S-702 FOR ANCHOR AND EMBED LOCATIONS.
- ESTABLISH STABLE SUBGRADE CONDITIONS AS DIRECTED BY THE GEOTECHNICAL ENGINEER OR THEIR REPRESENTATIVE.
- A MINIMUM BEDDING SECTION CONSISTING OF A 4-INCH THICK MUDMAT OR 4-INCH THICK SELECT GRANULAR FILL SHALL BE PLACED ON TOP OF PREPARED SUBGRADE. ADDITIONAL BEDDING MAY BE REQUIRED AS DIRECTED BY THE GEOTECHNICAL ENGINEER OR THEIR REPRESENTATIVE BASED ON IN-SITU CONDITIONS.
- PRECAST SUPPLIER TO COORDINATE WITH MANHOLE COVER SUPPLIER FOR FIT-UP ISSUES.
- BACKFILL AREA AROUND VAULT WITH FLUIDIZED THERMAL BACKFILL (FTB) UP TO TOP OF TOP SLAB. ABOVE TOP SLAB, BACKFILL WITH SCREENED NATIVE SOIL TO BE COMPACTED PER EARTHWORK SPECIFICATION.
- FOR LIMITS OF EXCAVATION, SEE CIVIL PLAN DRAWINGS.



SECTION VIEW A
SCALE: 1/4" = 1'-0"



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ISSUED FOR PERMITTING

No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
F	04/14/2023	FINAL REV 1 SUBMISSION	JNK	OO
E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	JNK	OO
D	11/16/2022	DRAFT FINAL SUBMISSION	JNK	OO
C	05/20/2022	60% DESIGN SUBMISSION	JNK	OO
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	JNK	OO
A	02/18/2022	PRELIMINARY PROGRESS	JNK	OO

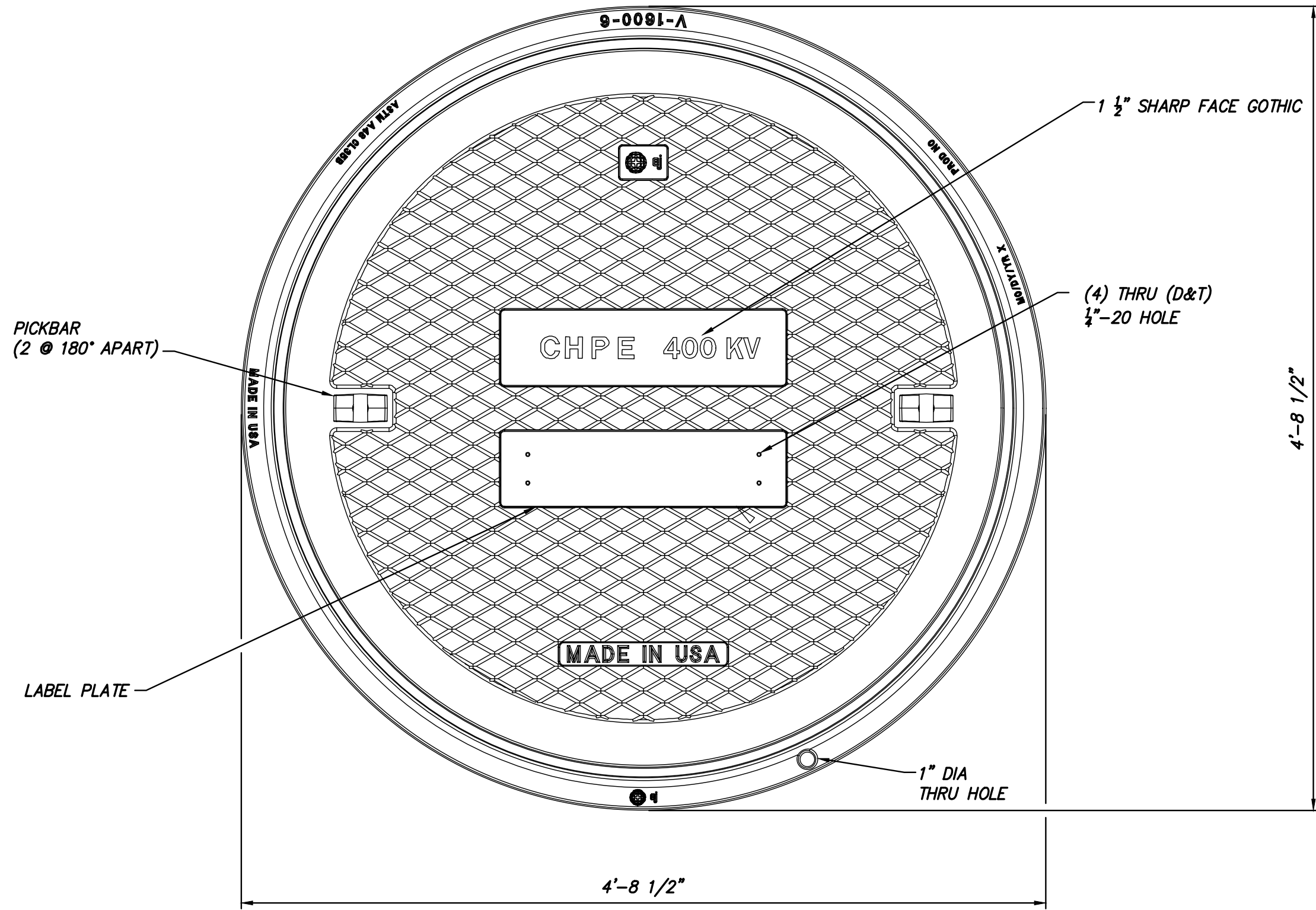
CHAMPLAIN HUDSON POWER EXPRESS

SPLICE VAULT PLAN AND ELEVATION

DRAWN BY:	DESIGNED BY:	APPROVED BY:	SCALE	AS SHOWN	DATE
DRH	JNK	OO	REV. NO.		SH.NO.

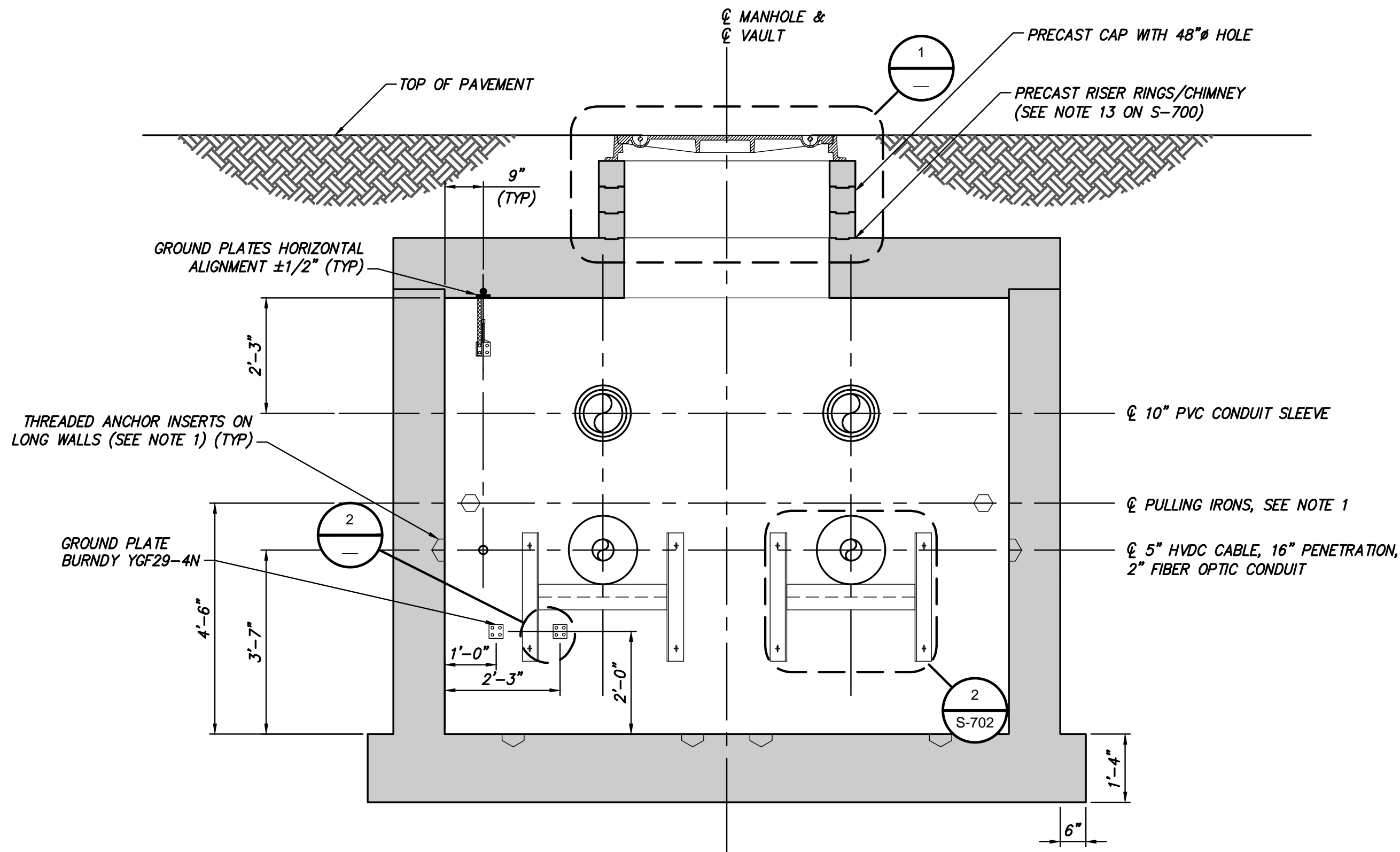
KIEWIT PROJECT NO.	21162
DRAWING NO.	S-700

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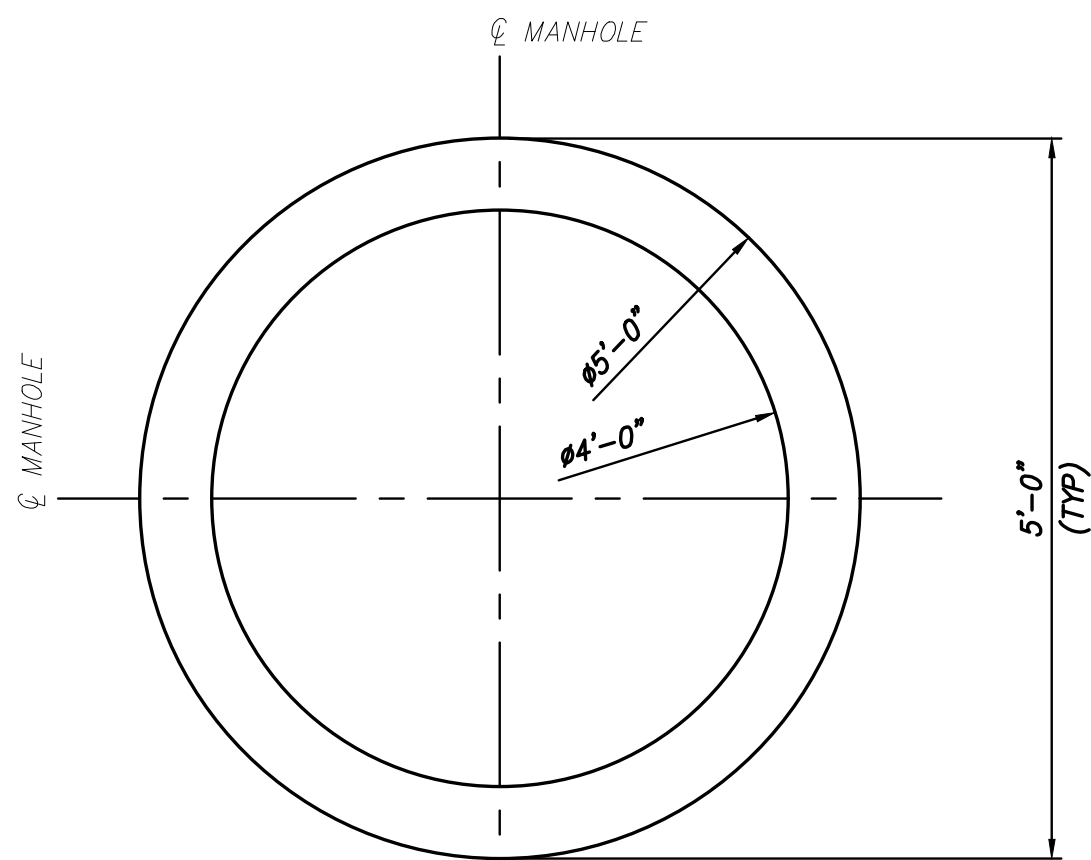
MANHOLE COVER

SCALE: 1 1/2" = 1'-0"

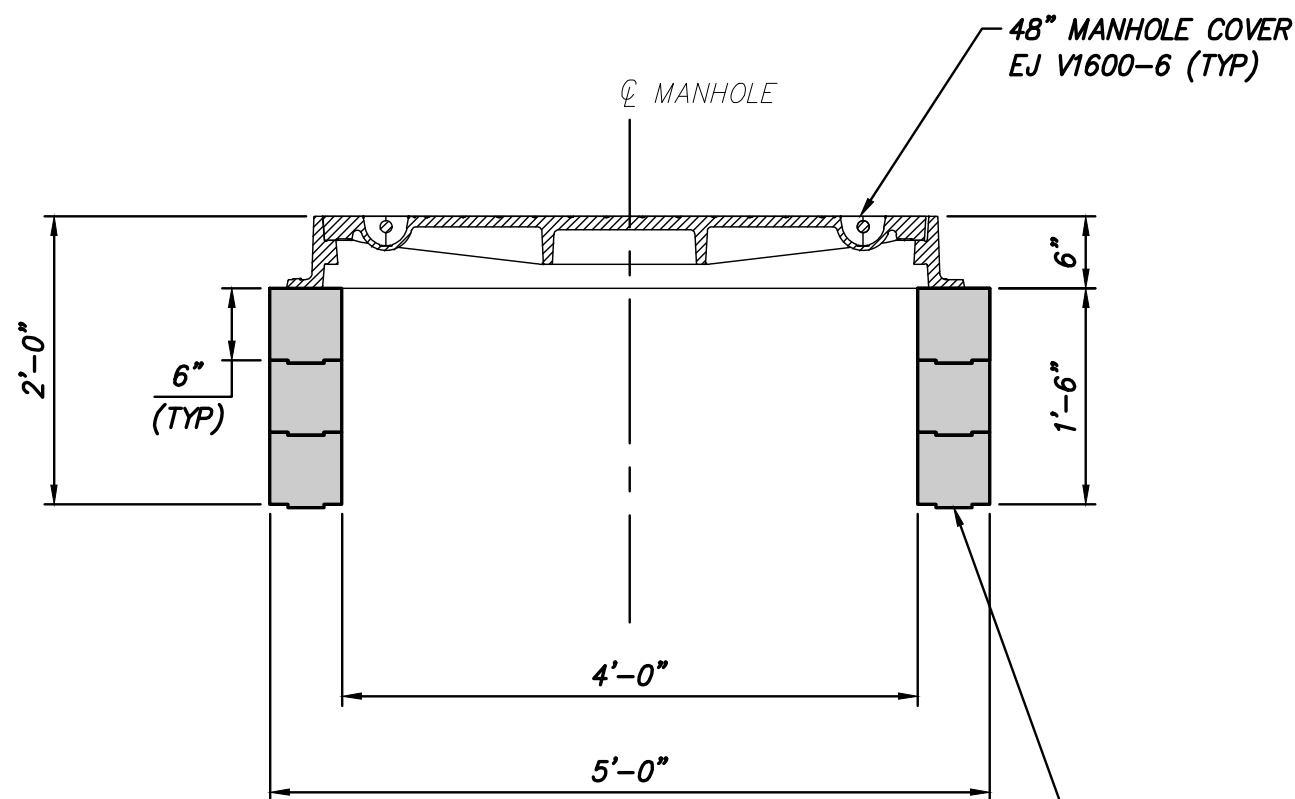


SECTION B

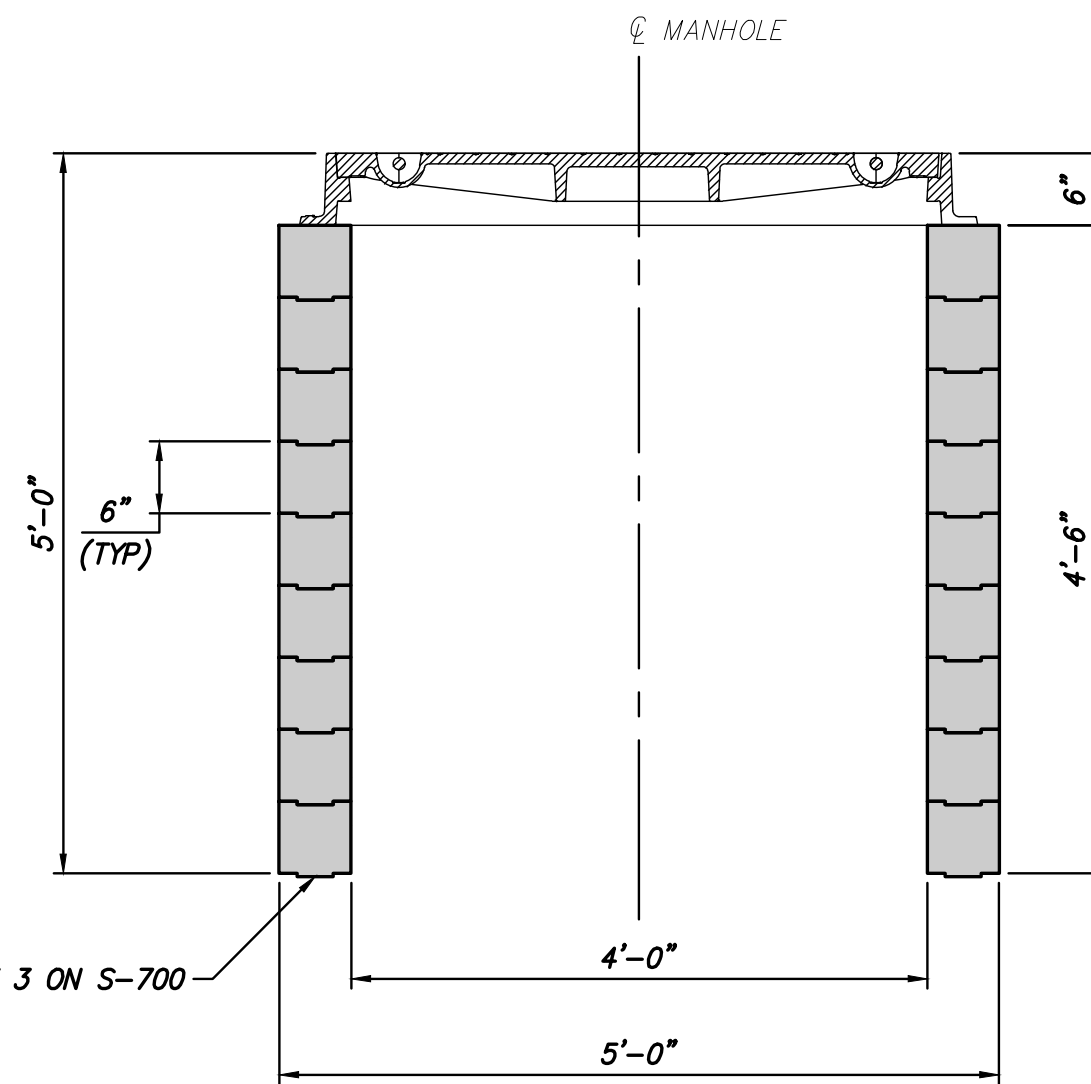
SCALE: 1 1/2" = 1'-0"



PRECAST CAP/RISER RINGS



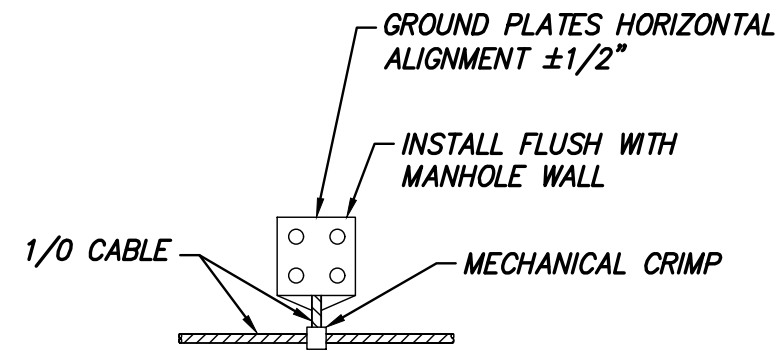
MINIMUM HEIGHT RISER DETAIL



MAXIMUM HEIGHT RISER DETAIL

DETAIL 1

SCALE: 3/4" = 1'-0"



DETAIL 2

SCALE: 1 1/2" = 1'-0"

NOTES:

1. REFER TO NOTES ON SHEET S-700.
2. MANHOLE COVER SHALL BE RATED FOR HL-93 WHEEL LOADING MINIMUM.



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F	04/14/2023	FINAL REV 1 SUBMISSION	JNK	OO
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D	11/16/2022	DRAFT FINAL SUBMISSION	JNK	OO
C	05/20/2022	60% DESIGN SUBMISSION	JNK	OO
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	JNK	OO
A	02/18/2022	PRELIMINARY PROGRESS	JNK	OO

CHAMPLAIN HUDSON POWER EXPRESS

SPLICE VAULT SECTION AND DETAILS

DRAWN BY: DRH DESIGNED BY: JNK APPROVED BY: OO SCALE: AS SHOWN REV. NO.

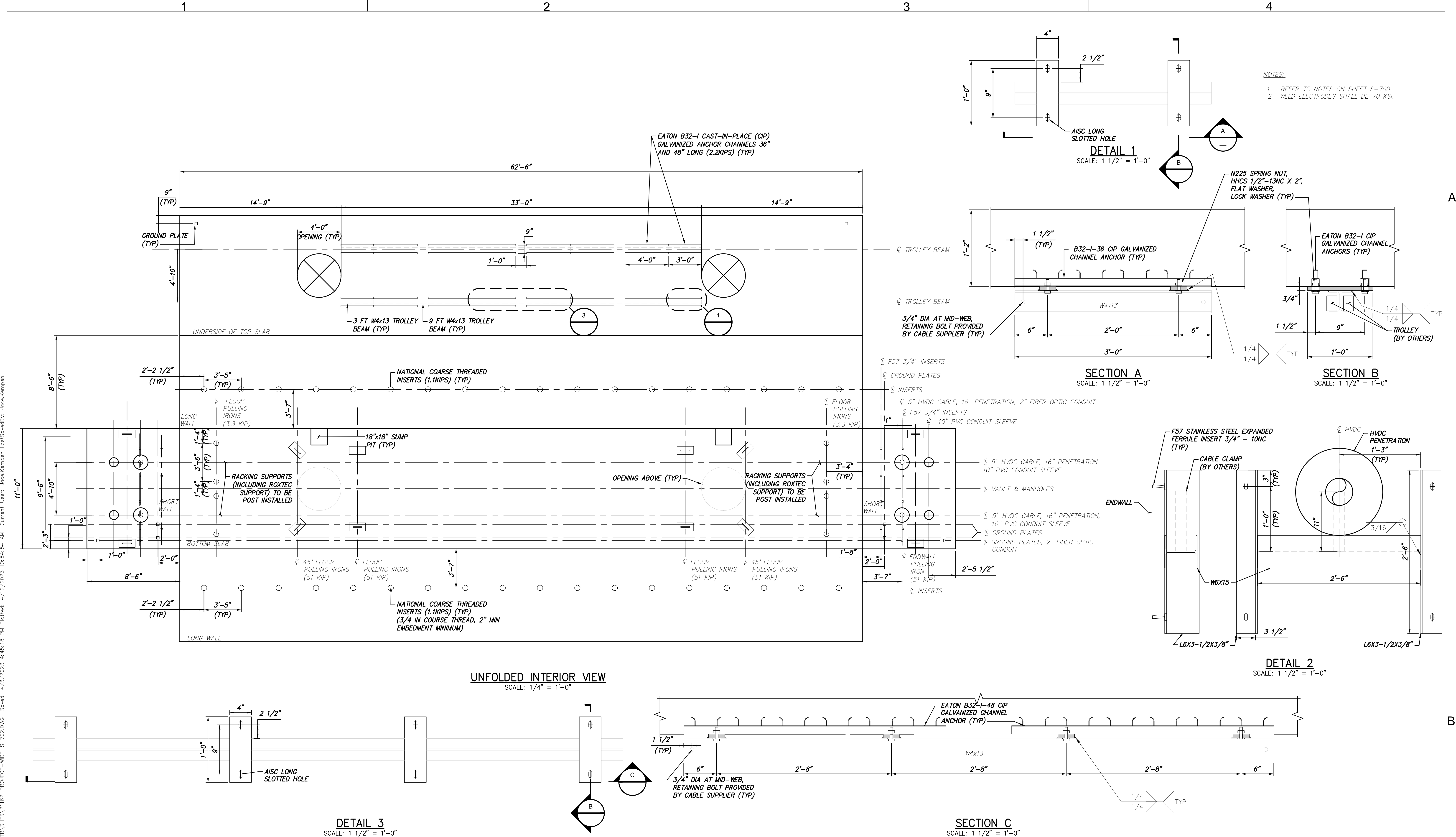
KIEWIT PROJECT NO. 21162

DRAWING NO.

S-701

DATE SH.NO.

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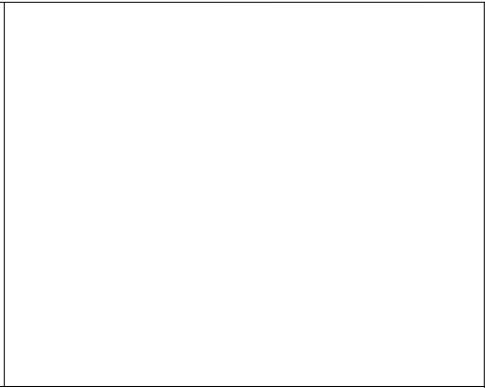
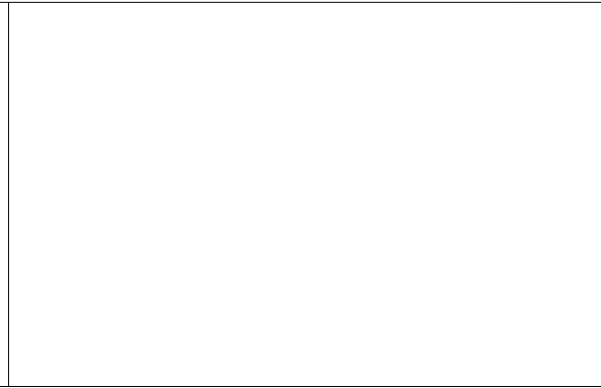
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

ISSUED FOR PERMITTING

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E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	JNK	OO
D	11/16/2022	DRAFT FINAL SUBMISSION	JNK	OO
C	05/20/2022	60% DESIGN SUBMISSION	JNK	OO
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	JNK	OO
A	02/18/2022	PRELIMINARY PROGRESS	JNK	OO
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP

CHAMPLAIN HUDSON POWER EXPRESS				KIEWIT PROJECT NO. 21162	
SPLICE VAULT ANCHOR AND EMBED DETAILS				DRAWING NO. S-702	
DRAWN BY: DRH	DESIGNED BY: JNK	APPROVED BY: OO	SCALE REV. NO.	AS SHOWN	DATE SH.NO.

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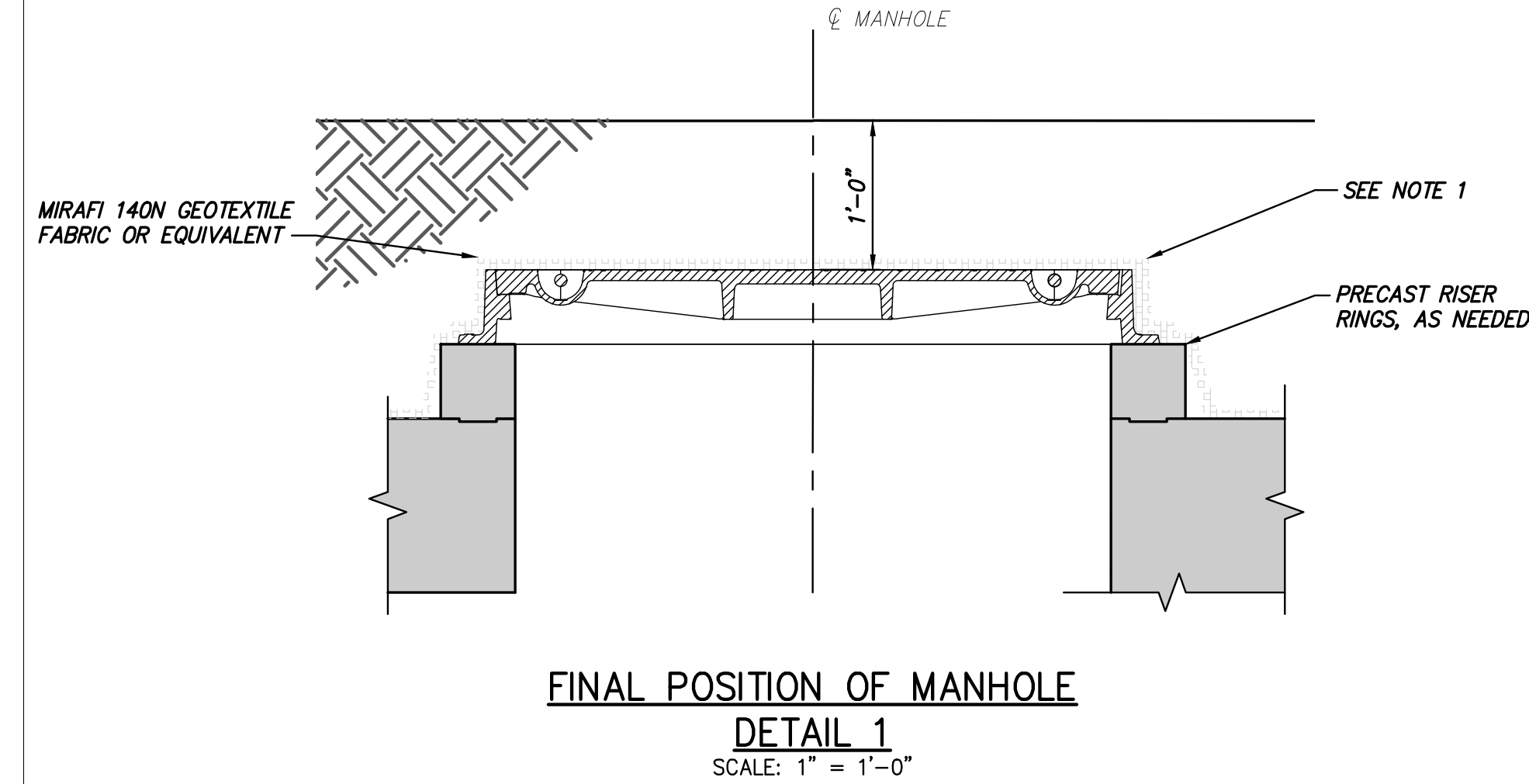
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E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	JNK	OO
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No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP

CHAMPLAIN HUDSON POWER EXPRESS					KIEWIT PROJECT NO. 21162	
SPLICE VAULT DETAILS					DRAWING NO. S-703	
DRAWN BY:	DRH	DESIGNED BY:	JNK	APPROVED BY:	OO	SCALE AS SHOWN REV. NO.
					DATE	SH.NO.

A

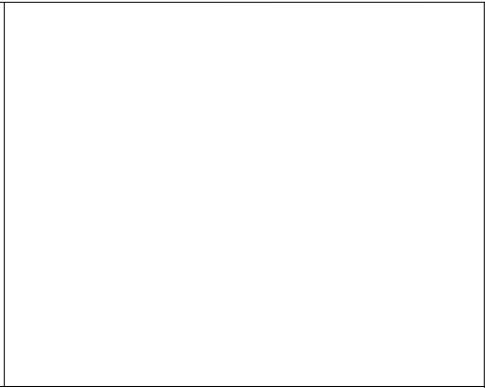
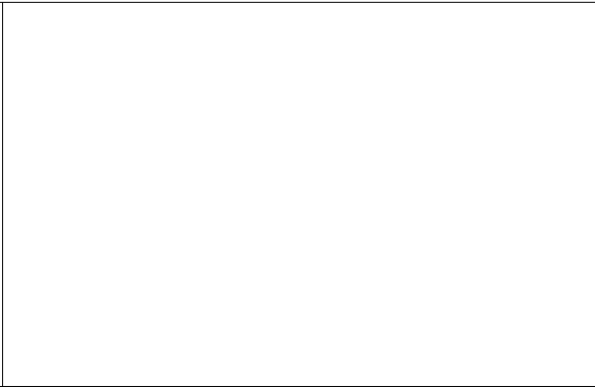
B

1234



- NOTES:
- FOR ALL SPLICE VAULT MANHOLES IN PACKAGES 1A AND 1B: AFTER CABLE COMMISSIONING, RISERS TO BE REMOVED, MANHOLE FRAMES AND COVERS TO BE LOWERED TO FINAL POSITION. MANHOLE FRAMES AND COVERS TO BE COVERED WITH 8' X 8' MIRAFI 140N GEOTEXTILE FABRIC OR EQUIVALENT. FULL DEPTH PAVEMENT WILL BE RESTORED PRIOR TO MILL AND OVERLAY AFTER CABLE COMMISSIONING.

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C	05/20/2022	60% DESIGN SUBMISSION	JNK	OO
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	JNK	OO
A	02/18/2022	PRELIMINARY PROGRESS	JNK	OO
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP

CHAMPLAIN HUDSON POWER EXPRESS STRUCTURAL GENERAL NOTES AND ABBREVIATIONS				KIEWIT PROJECT NO. 21162	
				DRAWING NO.	
				S-705	
DRAWN BY:	DRH	DESIGNED BY:	JNK	APPROVED BY:	OO
		SCALE AS SHOWN		DATE	
		REV. NO.		SH.NO.	

DESIGN SPECIFICATIONS

1. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION, 2020
2. NYSDOT LRFD BRIDGE DESIGN SPECIFICATIONS, 2021
3. NYSDOT LRFD BLUE PAGES, 2021
4. AREMA MANUAL FOR RAILWAY ENGINEERING, VOLUME 2 STRUCTURES, 2016
5. ASCE 7-16 MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES

DESIGN LOADS

1. DEAD LOADS
 - 1.1. CONCRETE UNIT WEIGHT = 150 PCF
 - 1.2. STEEL UNIT WEIGHT = 490 PCF
2. SUPERIMPOSED DEAD LOADS
 - 2.1. WEIGHT OF TWO HVDC CABLES + ONE FIBER OPTIC CABLE AND ASSOCIATED CONDUIT = 47.53 PLF
 - 2.2. WEIGHT OF CABLE TRAY = 20.57 PLF
 - 2.3. PULLING IRON, TROLLEY BEAM, ANCHORAGE, EMBED FORCES NOTED ON DRAWINGS WHERE APPLICABLE.
3. EARTH LOADS
 - 3.1. SOIL BACKFILL UNIT WEIGHT = 125 PCF
4. LIVE LOAD SURCHARGE
 - 4.1. 100 PSF MINIMUM
5. LIVE LOADS
 - 5.1. 300 PSF MINIMUM AT GROUND SURFACE OF TRENCH SECTIONS AND VAULTS.
 - 5.2. HL-93
 - 5.3. COOPER E-80
6. WIND LOADS
 - 6.1. 50 PSF TRANSVERSE
 - 6.2. 10 PSF LONGITUDINAL
7. SNOW LOADS
 - 7.1. 50 PSF
8. WATER
 - 8.1. STRUCTURES ARE ASSUMED TO BE SUBMERGED.
9. THERMAL LOADS
 - 9.1. STRUCTURES ARE SUBJECT TO THERMOMECHANICAL LOADING FROM HVDC CABLES.
 - 9.2. TEMPERATURE GRADIENT.
10. SEISMIC LOADING
 - 10.1. BURIED STRUCTURES ARE NOT SUBJECT TO SEISMIC PROVISIONS.

MATERIALS:

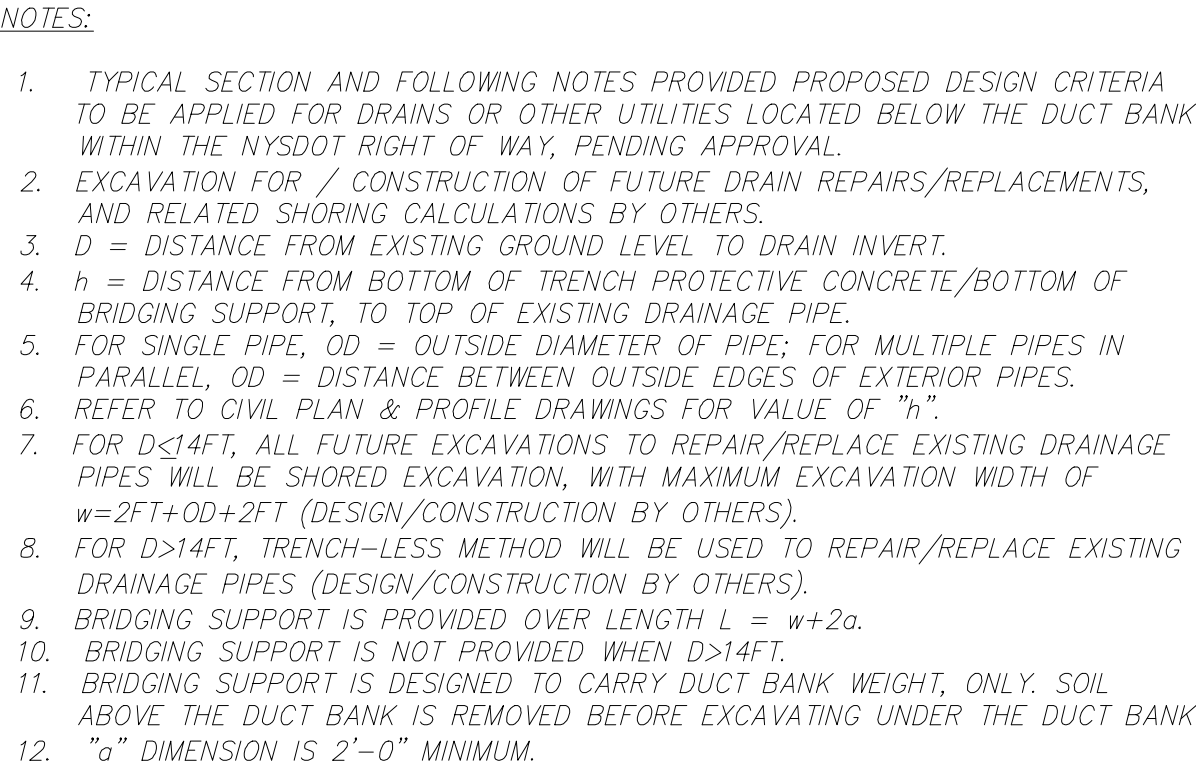
1. REINFORCED CONCRETE
 - 1.1. f'c = 5,000 PSI AT 28 DAYS, UNO
 - 1.2. F3 FREEZE-THAW CATEGORY WHERE NOTED
2. REINFORCING STEEL
 - 2.1. ASTM A706, GRADE 60, UNO
3. STRUCTURAL STEEL
 - 3.1. ASTM A36, UNO
4. BOLTS
 - 4.1. ASTM A325, UNO
5. NUTS
 - 5.1. ASTM A563, UNO
6. WASHERS
 - 6.1. ASTM F436, UNO
7. POLYMER CONCRETE
 - 7.1. ANSI/SCTE 77 2013
8. REINFORCED THERMOSETTING RESIN CONDUIT
 - 8.1. NEC 355
9. PVC
 - 9.1. SCH 40

ABBREVIATIONS:

APPR	APPROACH
BRG	BEARING
CIP	CAST IN PLACE
CL	CENTERLINE
CLR	CLEAR COVER
DIA	DIAMETER
EL	ELEVATION
G	GIRDER
HS	HIGH STRENGTH
ICS	INTERMEDIATE CONDUIT SUPPORT
ID	INSIDE DIAMETER
IPS	IRON PIPE SIZE
KSI	KIPS PER SQUARE INCH
LLV	LONG LEG VERTICAL
NOM	NOMINAL
OD	OUTSIDE DIAMETER
PC	PRECAST
PL	PLATE
PROT	PROTECTIVE
PVC	POLYVINYL CHLORIDE
RT	ROUTE
STA	STATION
SW	STANDARD WALL
T	THICKNESS
UNO	UNLESS NOTED OTHERWISE

A

B



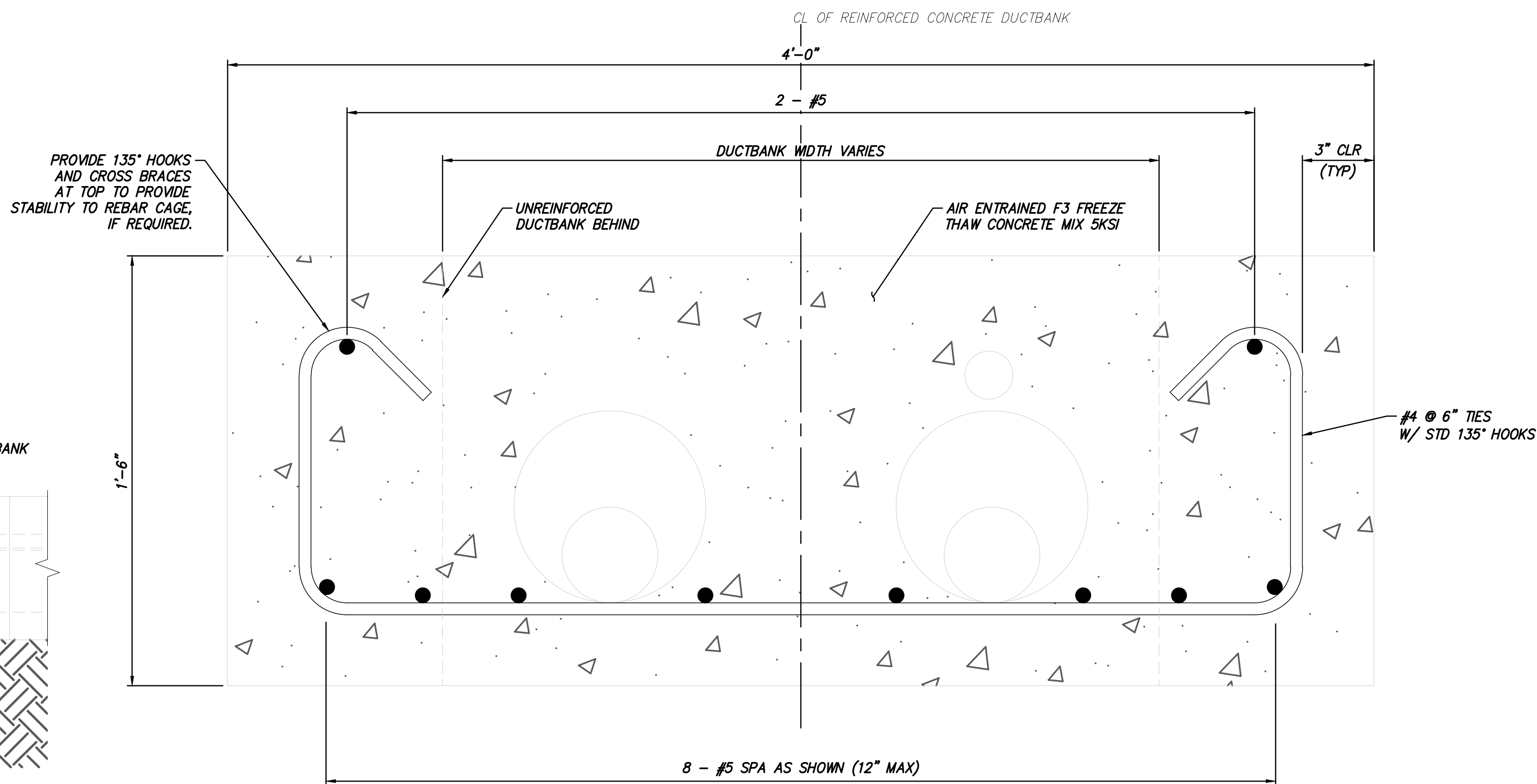
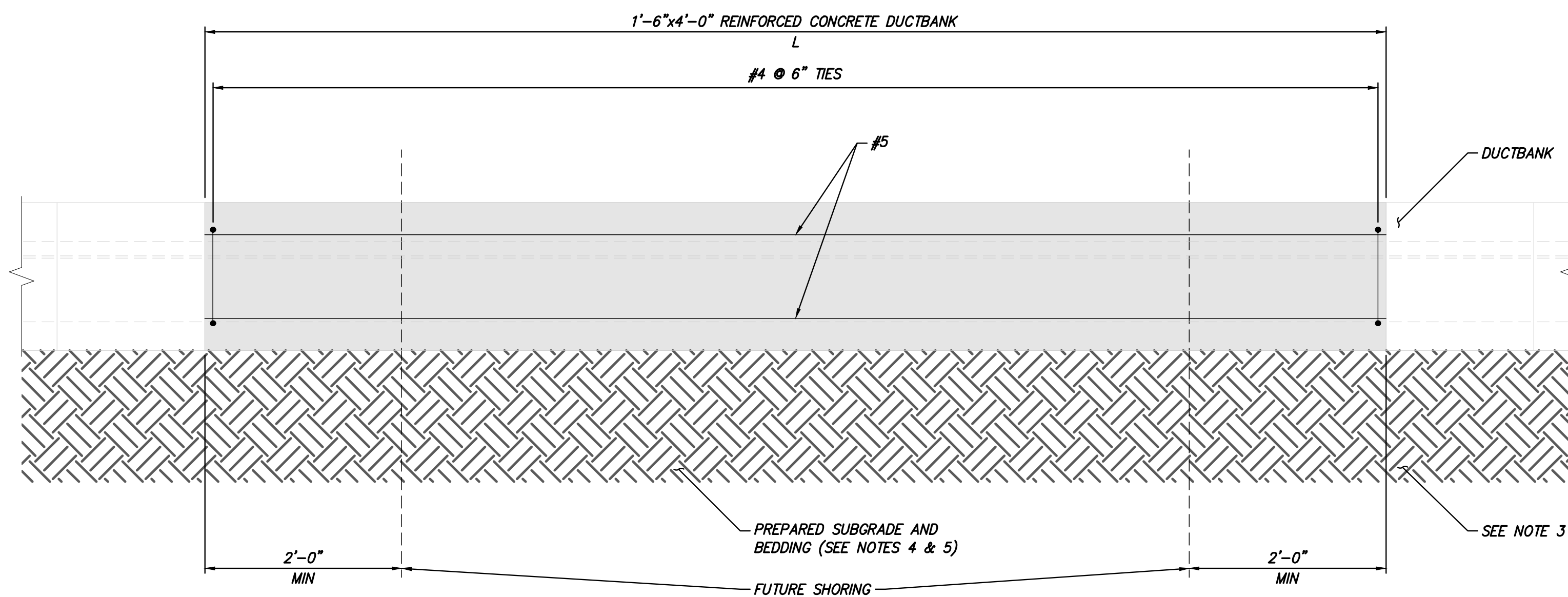
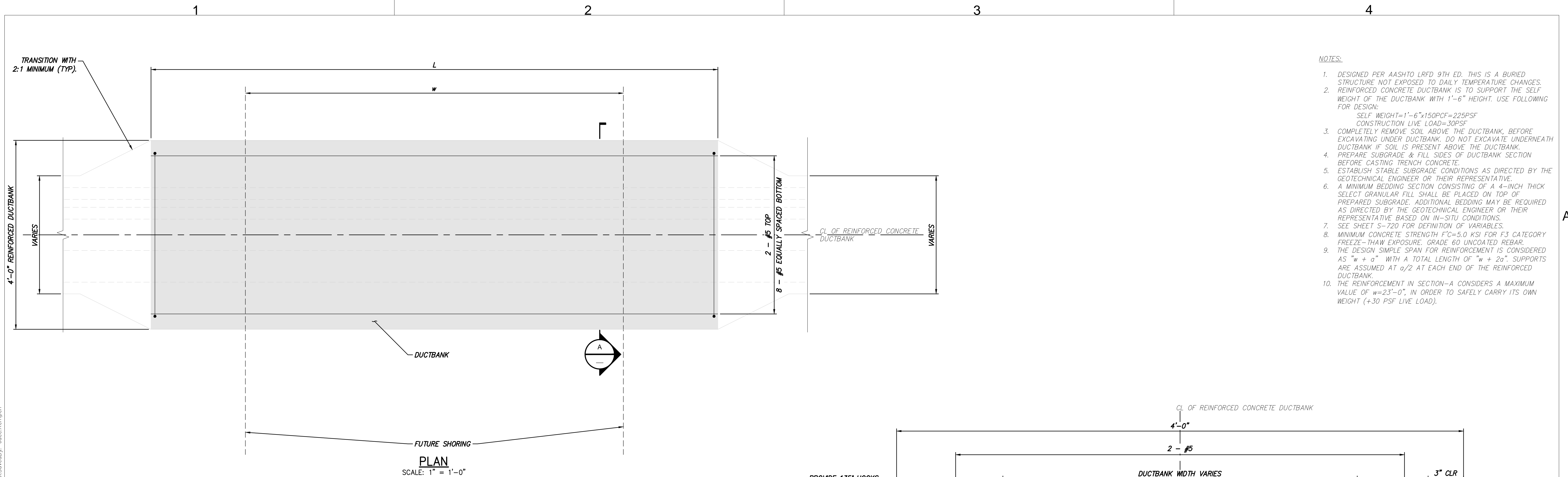
TYPICAL DUCT BANK SECTION OVER UTILITIES
(FOR $D < 14\text{FT}$)
SCALE: NTS



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**ISSUED FOR
PERMITTING**

						CHAMPLAIN HUDSON POWER EXPRESS				KIEWIT PROJECT NO.	
										21162	
F	04/14/2023	FINAL REV 1 SUBMISSION	JNK	OO	REINFORCING TRAY OVER UTILITIES						
E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	JNK	OO							
D	11/16/2022	DRAFT FINAL SUBMISSION	JNK	OO					DRAWING NO.		
				S-720							
C	05/20/2022	60% DESIGN SUBMISSION	JNK	OO							
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	JNK	OO							
A	02/18/2022	PRELIMINARY PROGRESS	JNK	OO							
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRAWN BY: DRH	DESIGNED BY: JNK	APPROVED BY: OO	SCALE REV. NO.	AS SHOWN	DATE SH.NO.	



NOTES:

1. DESIGNED PER AASHTO LRFD 9TH ED. THIS IS A BURIED STRUCTURE NOT EXPOSED TO DAILY TEMPERATURE CHANGES.
2. REINFORCED CONCRETE DUCTBANK IS TO SUPPORT THE SELF WEIGHT OF THE DUCTBANK WITH 1'-6" HEIGHT. USE FOLLOWING FOR DESIGN:

SELF WEIGHT = 1'-6"x150PCF=225PSF
CONSTRUCTION LIVE LOAD=30PSF
3. COMPLETELY REMOVE SOIL ABOVE THE DUCTBANK, BEFORE EXCAVATING UNDER DUCTBANK. DO NOT EXCAVATE UNDERNEATH DUCTBANK IF SOIL IS PRESENT ABOVE THE DUCTBANK.
4. PREPARE SUBGRADE & FILL SIDES OF DUCTBANK SECTION BEFORE CASTING TRENCH CONCRETE.
5. ESTABLISH STABLE SUBGRADE CONDITIONS AS DIRECTED BY THE GEOTECHNICAL ENGINEER OR THEIR REPRESENTATIVE.
6. A MINIMUM 6" THICK SECTION CONSISTING OF A 4-INCH THICK SELECT GRANULAR FILL SHALL BE PLACED ON TOP OF PREPARED SUBGRADE. ADDITIONAL BEDDING MAY BE REQUIRED AS DIRECTED BY THE GEOTECHNICAL ENGINEER OR THEIR REPRESENTATIVE BASED ON IN-SITU CONDITIONS.
7. SEE SHEET S-720 FOR DEFINITION OF VARIABLES.
8. MINIMUM CONCRETE STRENGTH $f'_c = 5.0$ KSI FOR F3 CATEGORY FREEZE-THAW EXPOSURE. GRADE 60 UNCOATED REBAR.
9. THE DESIGN SIMPLE SPAN FOR REINFORCEMENT IS CONSIDERED AS " $w + a$ " WITH A TOTAL LENGTH OF " $w + 2a$ ". SUPPORTS ARE ASSUMED AT $a/2$ AT EACH END OF THE REINFORCED DUCTBANK.
10. THE REINFORCEMENT IN SECTION-A CONSIDERS A MAXIMUM VALUE OF $w=23'-0"$, IN ORDER TO SAFELY CARRY ITS OWN WEIGHT (+30 PSF LIVE LOAD).

A

B

					CHAMPLAIN HUDSON POWER EXPRESS					KIEWIT PROJECT NO. 21162	
F	04/14/2023	FINAL REV 1 SUBMISSION	JNK	OO						DRAWING NO.	
E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	JNK	OO	REINFORCING TRAY DETAILS					S-721	
D	11/16/2022	DRAFT FINAL SUBMISSION	JNK	OO							
C	05/20/2022	60% DESIGN SUBMISSION	JNK	OO							
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	JNK	OO							
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No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRAWN BY: DRH	DESIGNED BY: JNK	APPROVED BY: OO	SCALE REV. NO.	AS SHOWN	DATE SH.NO.	

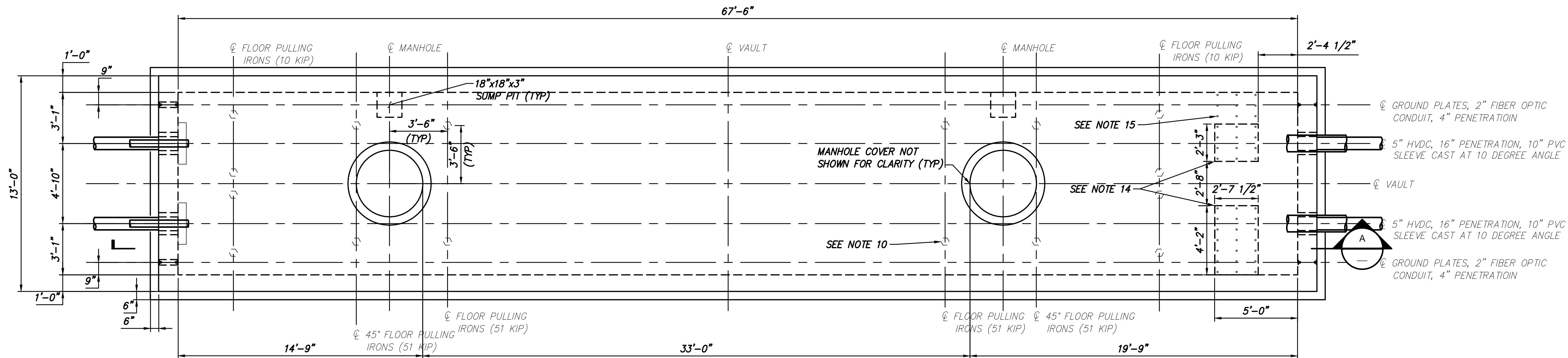
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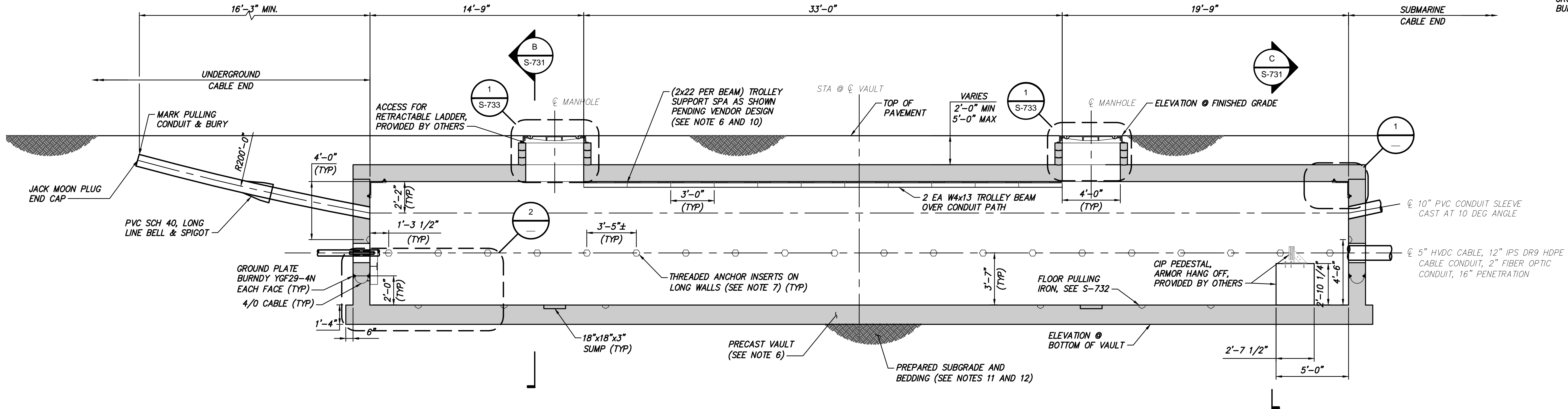
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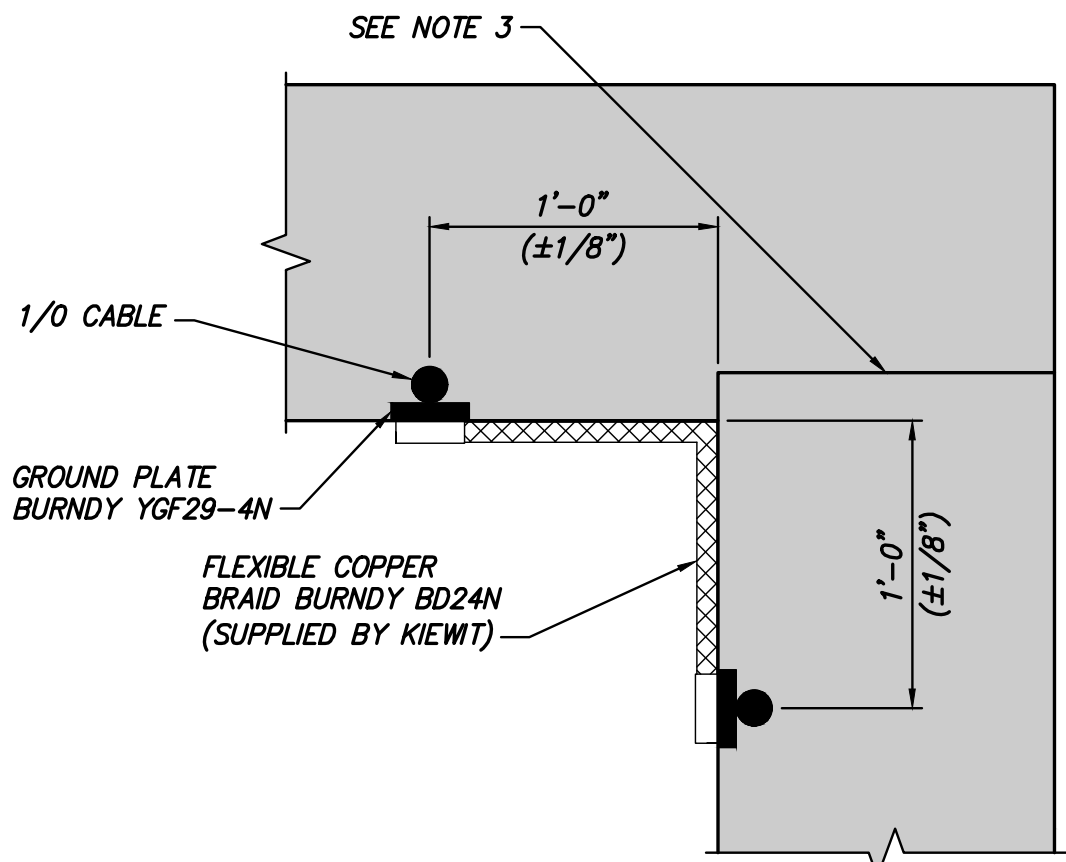
PLAN VIEW
SCALE: 1/4" = 1'-0"



SECTION VIEW A
SCALE: 1/4" = 1'-0"

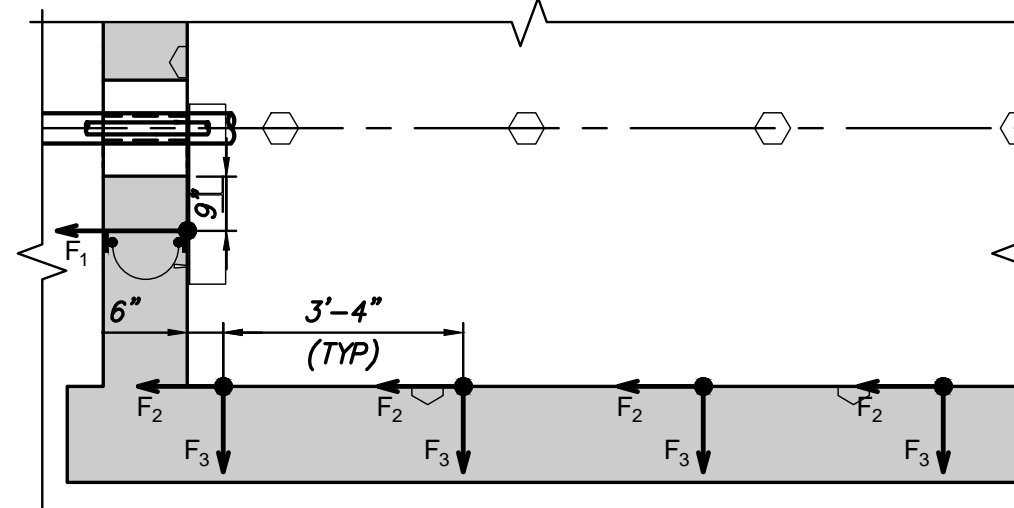
NOTES:

1. EACH ENDWALL (8.5 FT x 11 FT) IS DESIGNED FOR A SINGLE 10,000 LB PULLING IRON FORCE. THE FLOOR SLAB IS DESIGNED FOR A SINGLE 51,000 LB PULLING IRON FORCE. CABLE PULLING CREW SHALL NOT USE MORE THAN ONE PULLING IRON ON FLOOR CONCURRENTLY.
2. DESIGN LIVE LOAD: HL-93
3. EXTERIOR COATING & JOINT SEALERS/WATER STOPS TO BE USED BETWEEN PRECAST JOINTS, AS SPECIFIED.
4. MAXIMUM PRECAST PIECE PICK WEIGHT LIMITED TO 50,000 LB.
5. SEE ELECTRICAL DRAWINGS FOR CABLE RACKING DETAILS & GROUND WIRE DETAILS. (FUTURE SUBMISSION)
6. WALL THICKNESSES TO BE FINALIZED PER APPROVED VENDOR'S DESIGN. REFER TO APPROVED VENDOR SHOP DRAWINGS FOR WEIGHTS AND PICK POINTS.
7. THREADED ANCHOR WORKING LOAD SHALL BE 1,100 LB MINIMUM.
8. LINK SEAL TO BE USED BETWEEN CABLE CONDUIT AND PENETRATION SLEEVE, AS SPECIFIED.
9. ELECTRIC SUMP PUMP TO BE PROVIDED BY THE OPERATOR.
10. SEE SHEET S-732 FOR ANCHOR AND EMBED LOCATIONS.
11. ESTABLISH STABLE SUBGRADE CONDITIONS AS DIRECTED BY THE GEOTECHNICAL ENGINEER OR THEIR REPRESENTATIVE.
12. A MINIMUM BEDDING SECTION CONSISTING OF A 4-INCH THICK MUDMAT OR 4-INCH THICK SELECT GRANULAR FILL SHALL BE PLACED ON TOP OF PREPARED SUBGRADE. ADDITIONAL BEDDING MAY BE REQUIRED AS DIRECTED BY THE GEOTECHNICAL ENGINEER OR THEIR REPRESENTATIVE BASED ON IN-SITU CONDITIONS.
13. PRECAST SUPPLIER TO COORDINATE WITH MANHOLE COVER SUPPLIER FOR FIT-UP ISSUES.
14. ARMOR HANG OFF PEDESTALS TO BE CAST IN PLACE. 4'-2" ARMOR HANG OFF PEDESTAL TO RESIST 17,000 LB TOTAL LATERAL FORCE APPLIED AT 3'-3" DUE TO HVDC AND FIBER OPTIC HANG OFFS. 2'-3" ARMOR HANG OFF PEDESTAL TO RESIST 11,000 LB TOTAL LATERAL FORCE AT 3'-3" DUE TO HVDC ARMOR HANG OFF.
15. DEPENDING UPON THE ORIENTATION OF THE TRANSITION VAULTS, THE FIBER OPTIC CABLE AND HANG OFF PEDESTALS MAY BE MIRRORRED ABOUT THE CENTERLINE OF THE VAULT TO RUN ALONG EITHER SIDE OF THE VAULT. PROVIDE 7X3 REBAR COUPLERS EACH SIDE TO ACCOUNT FOR BOTH CONFIGURATIONS.



DETAIL 1
SCALE: 1 1/2" = 1'-0"

NOTE: USED TO ELECTRICALLY JOIN PRECAST CONCRETE SECTIONS TOGETHER, BY MEANS OF REBAR CONNECTIONS. TO BE APPLIED AT EACH PRECAST SECTION, SUCH THAT ALL SECTIONS ARE JOINED TOGETHER.



DETAIL 2
SCALE: 3/8" = 1'-0"

NOTE: FORCES PROVIDED IN DETAIL 2 ARE PER CABLE AND ARE THE RESULT OF POST-INSTALLED CABLE RACKING EQUIPMENT. FORCES ARE POSITIVE IN THE DIRECTION IN WHICH THEY ARE DRAWN AND ARE ALIGNED WITH ϕ HVDC CABLE. RACKING FORCES ARE NOT CONCURRENT WITH FLOOR PULLING IRON OR ENDWALL PULLING IRON FORCES. RACKING INSTALLED AT LAND END OF VAULT.

$F_1 = 9.0 \text{ KIP}$ $F_2 = 2.3 \text{ KIP}$ $F_3 = 7.9 \text{ KIP}$



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ISSUED FOR PERMITTING

No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
F	04/14/2023	FINAL REV 1 SUBMISSION	JNK	OO
E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	JNK	OO
D	11/16/2022	DRAFT FINAL SUBMISSION	JNK	OO
C	05/20/2022	60% DESIGN SUBMISSION	JNK	OO
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	JNK	OO
A	02/18/2022	PRELIMINARY PROGRESS	JNK	OO

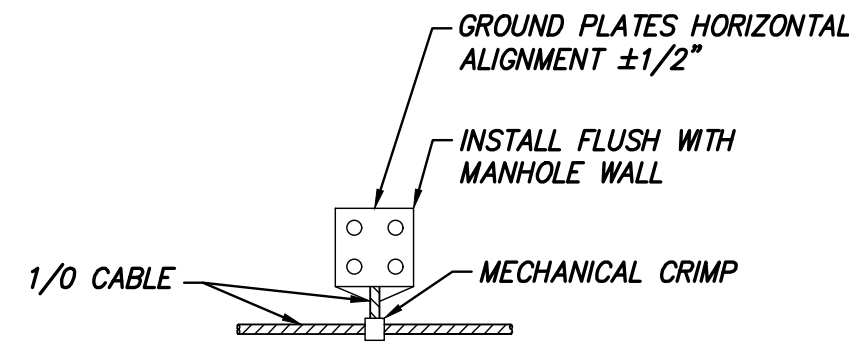
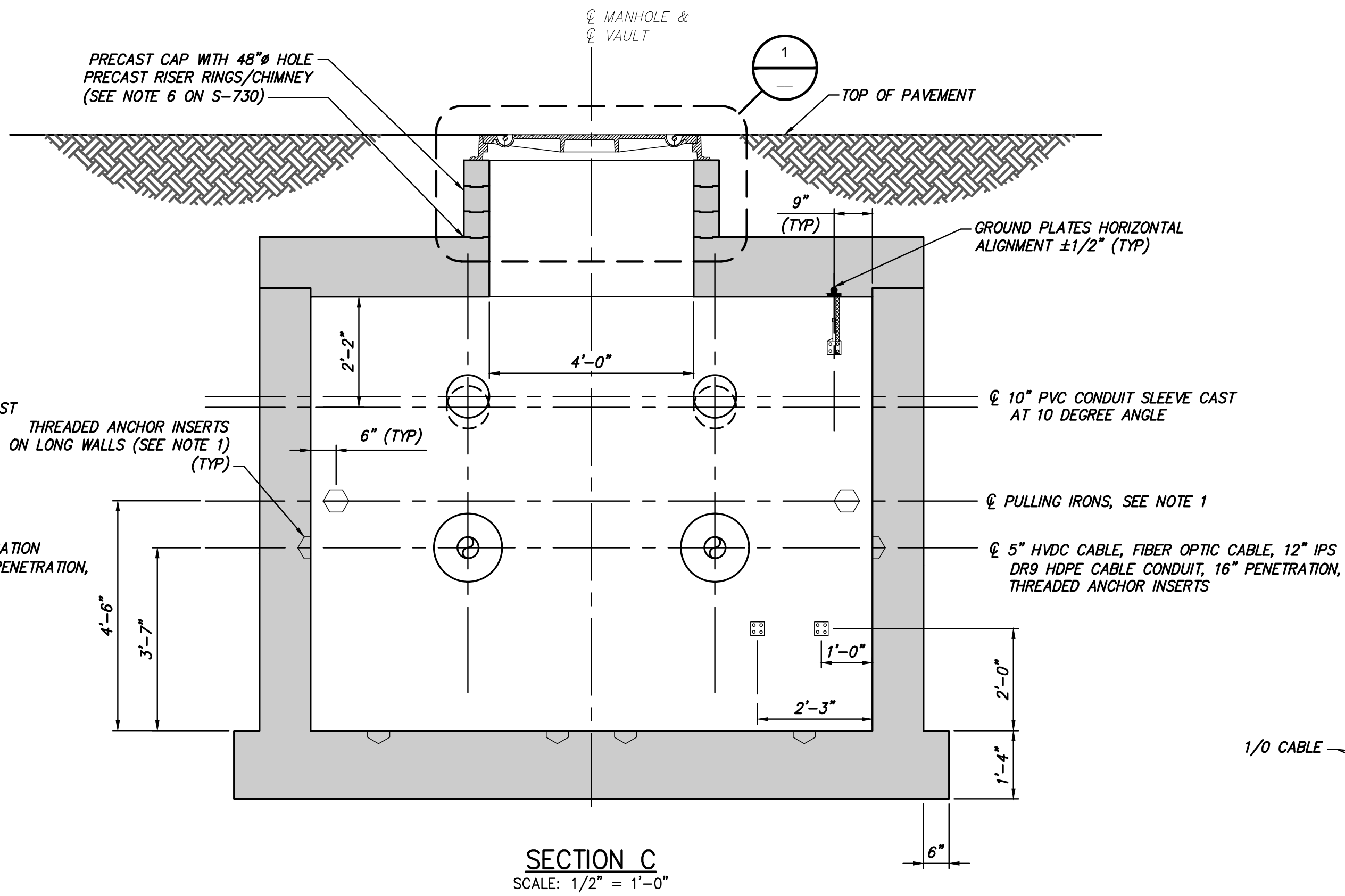
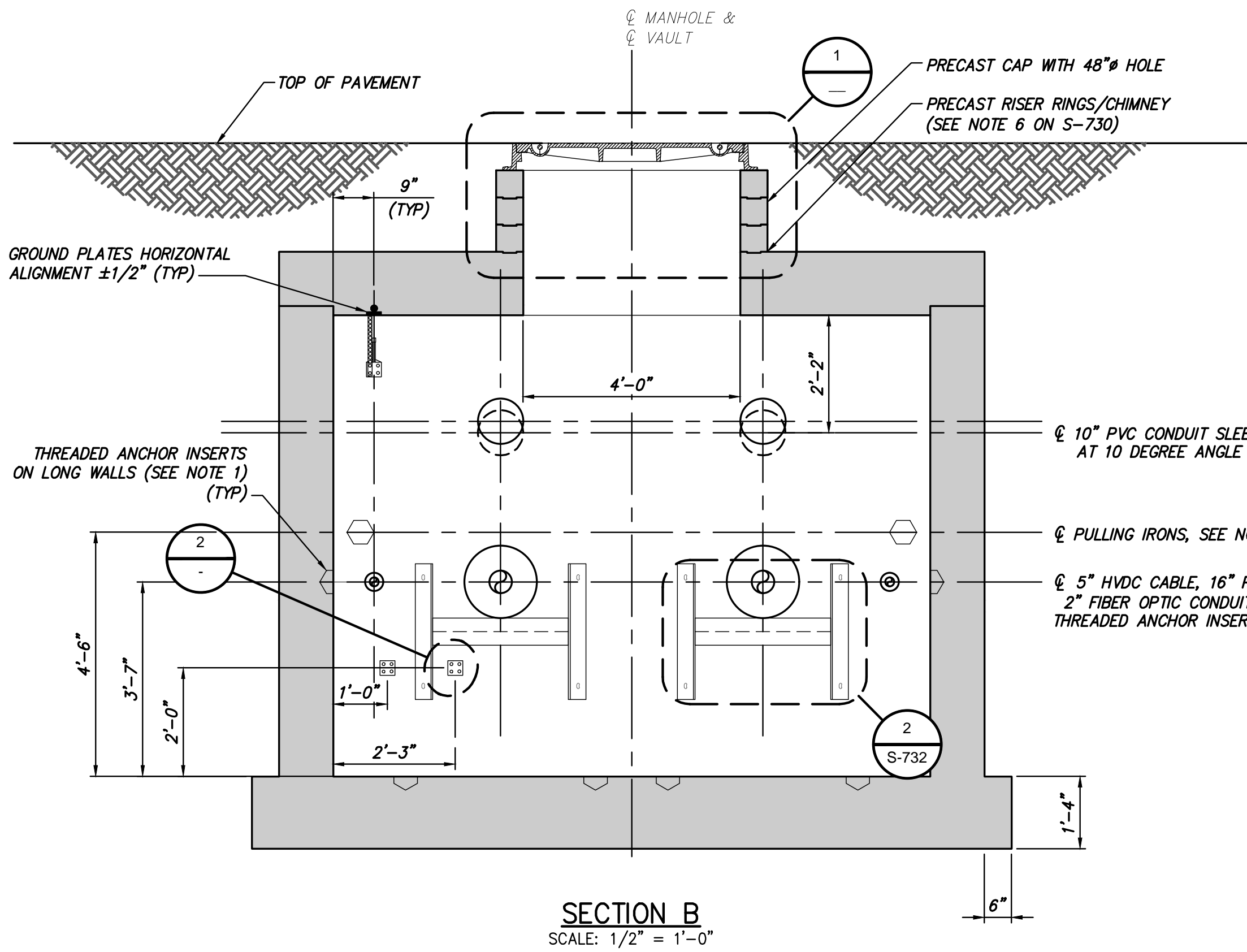
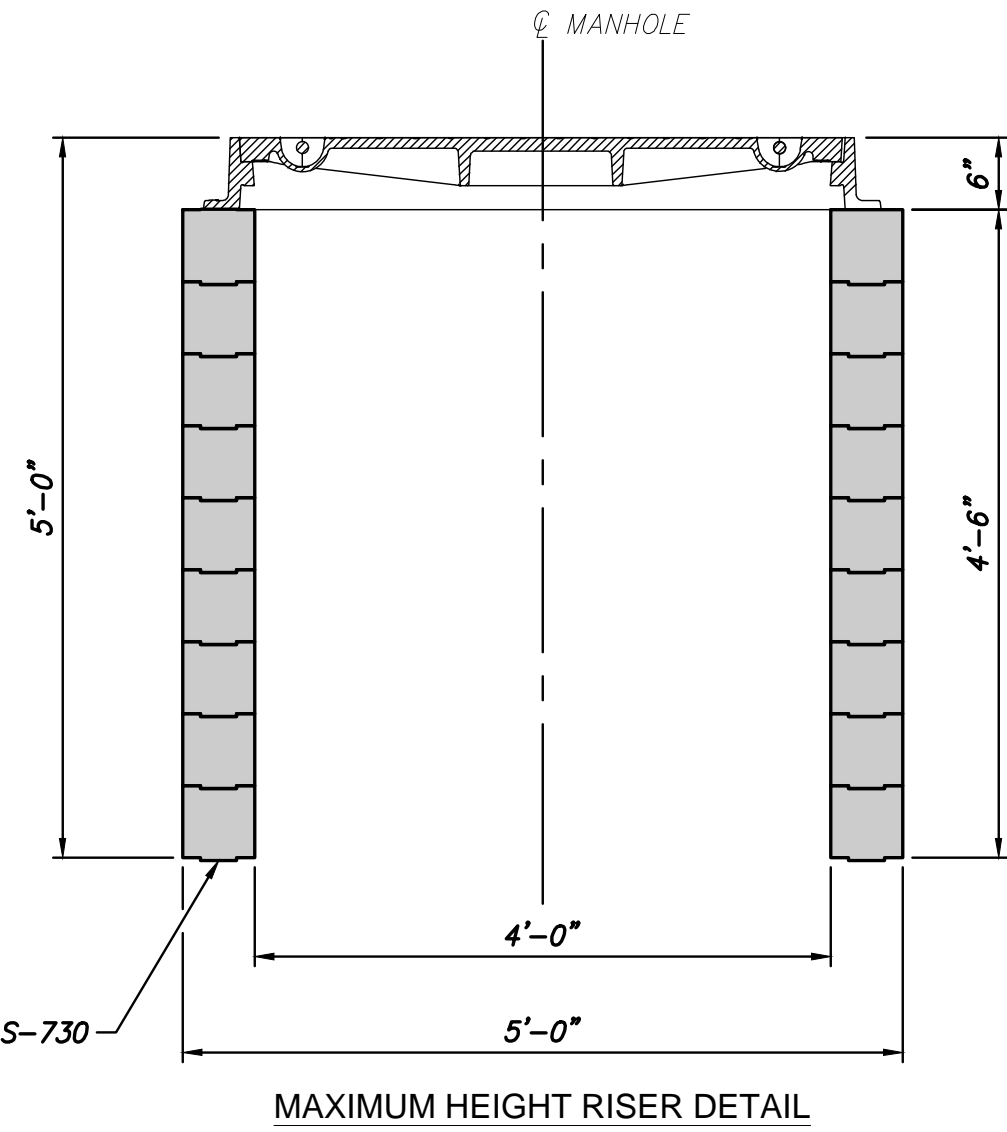
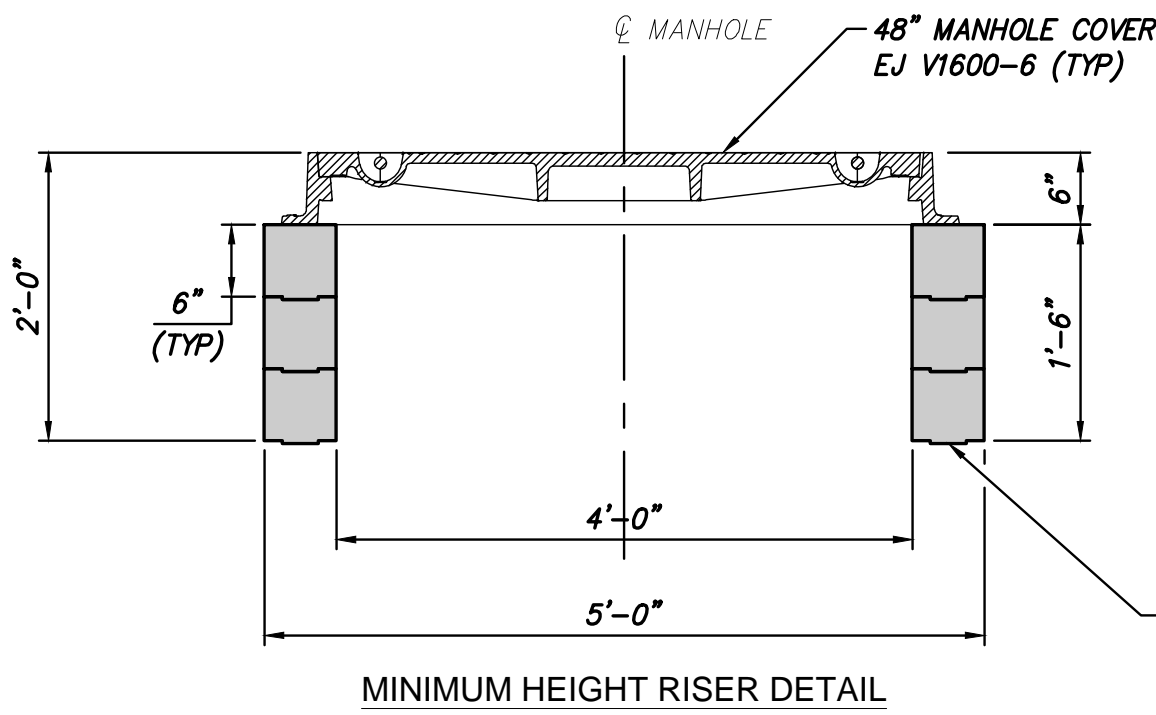
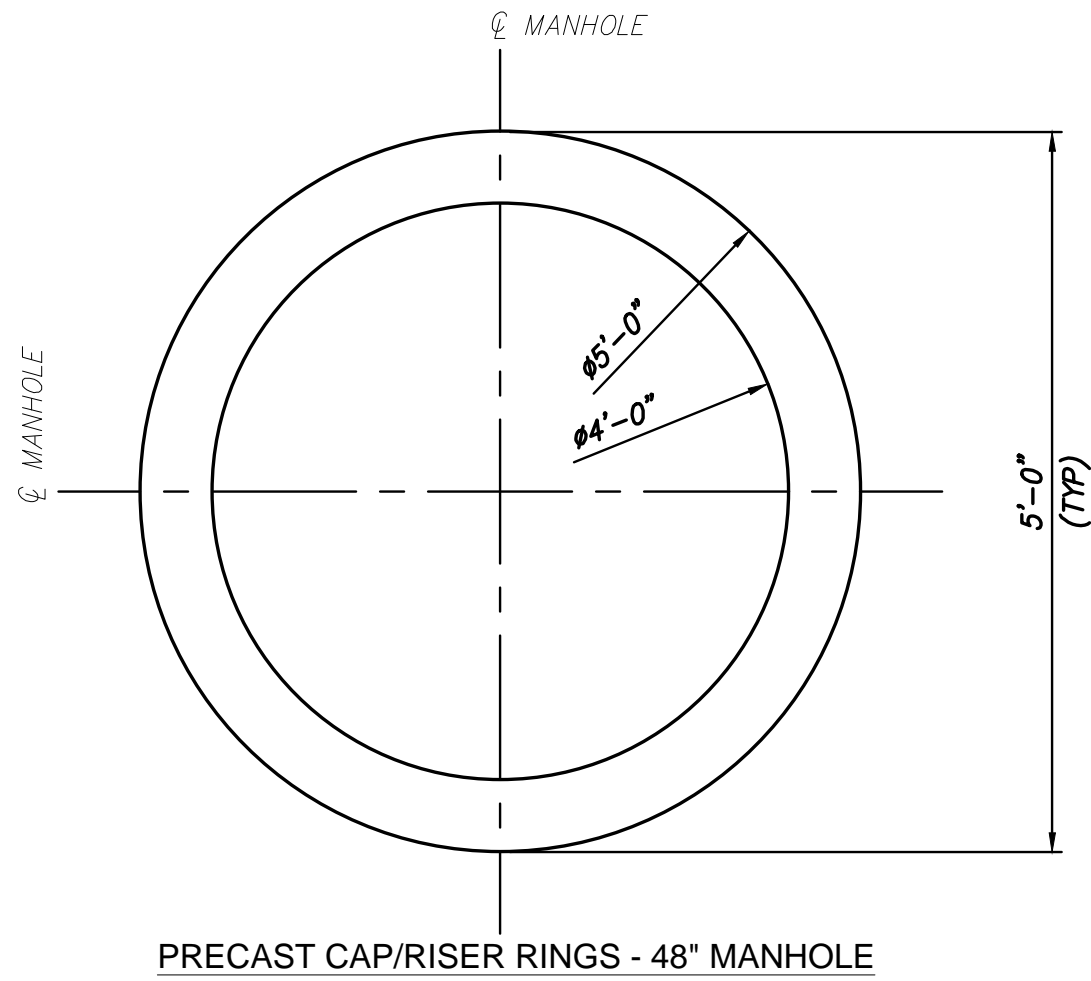
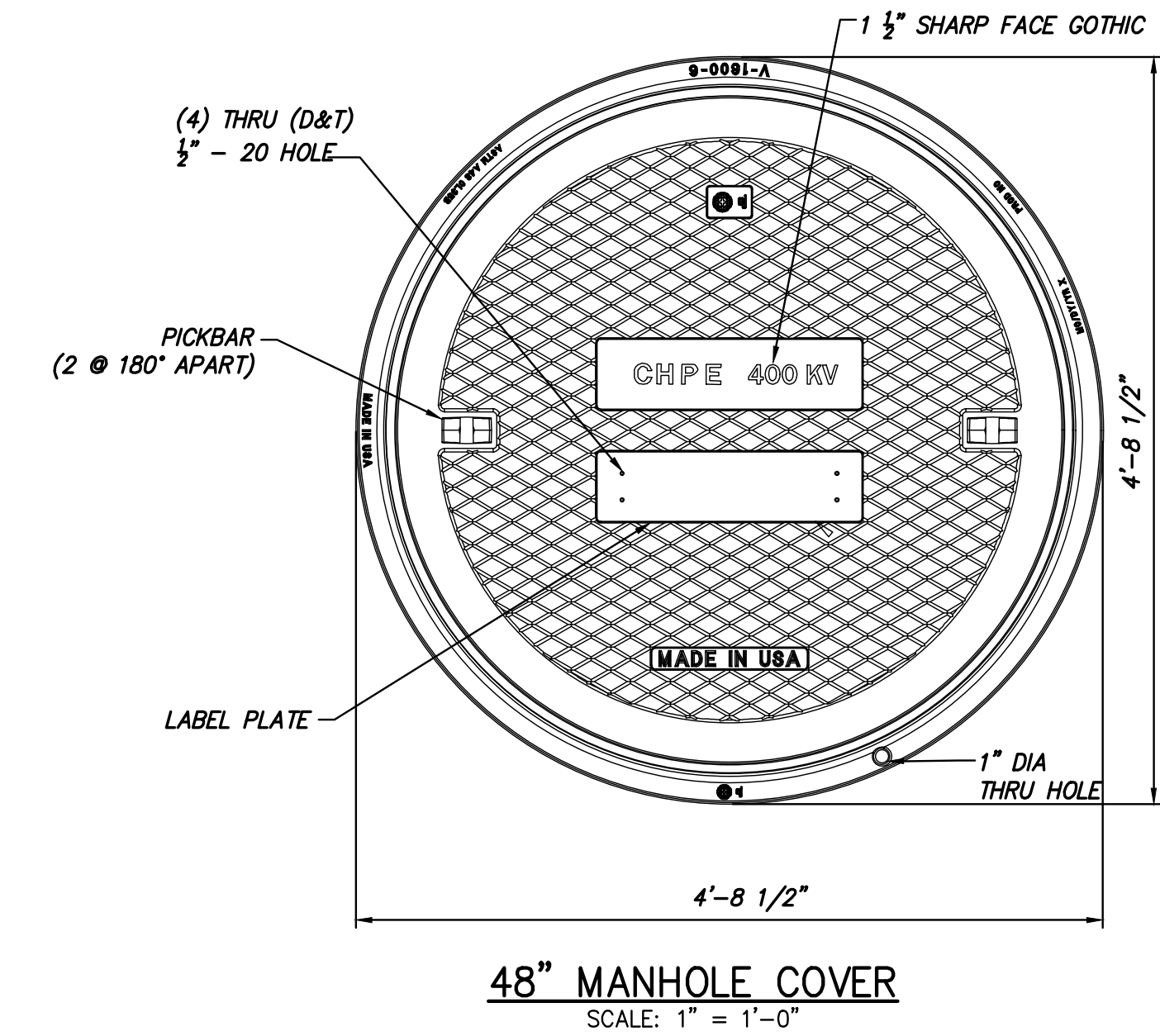
CHAMPLAIN HUDSON POWER EXPRESS

TRANSITION VAULT PLAN AND ELEVATION

DRAWN BY: DRH	DESIGNED BY: JNK	APPROVED BY: OO	SCALE: AS SHOWN	DATE: SH.NO.
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KIEWIT PROJECT NO. 21162
DRAWING NO. S-730

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ISSUED FOR PERMITTING

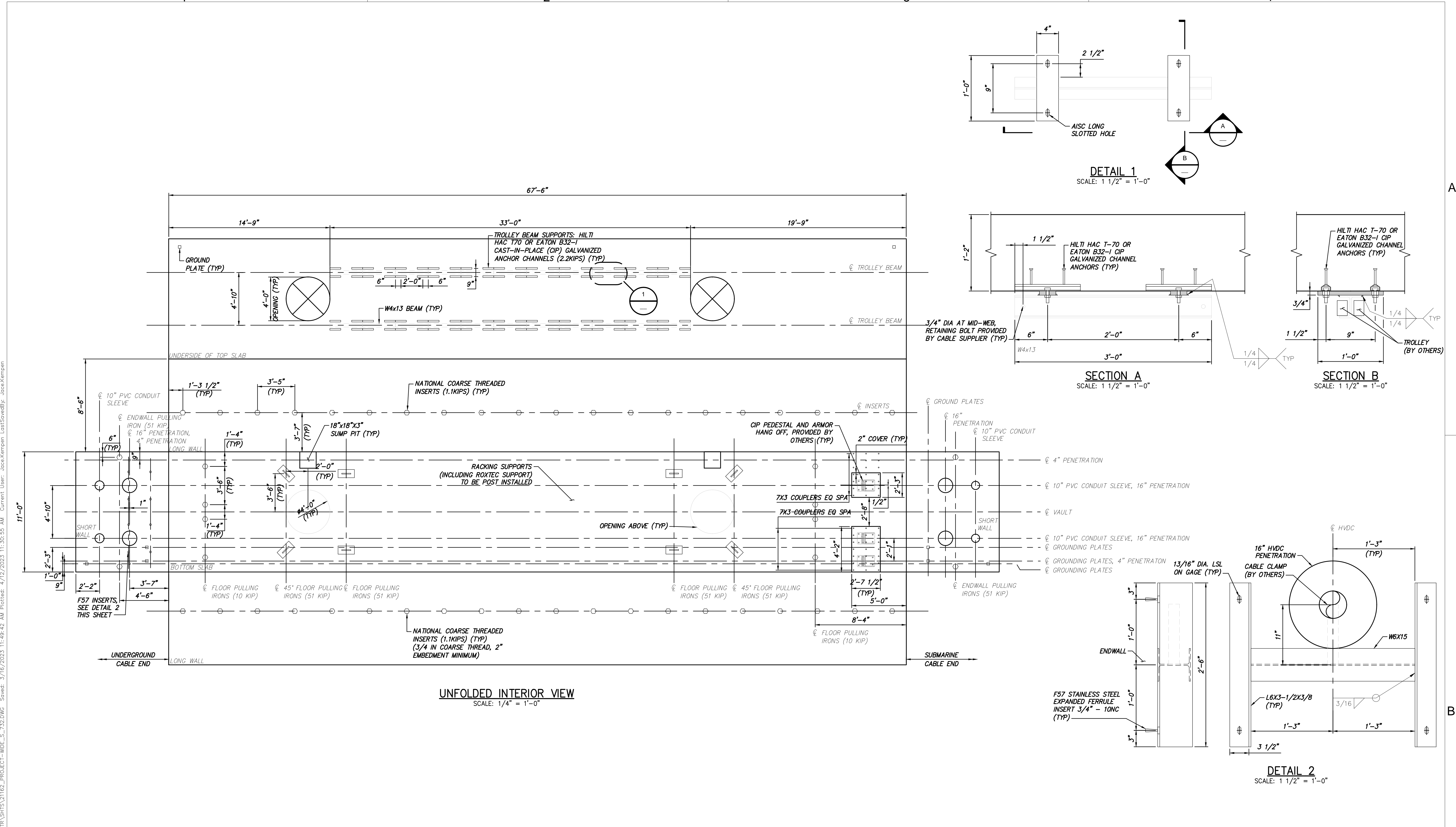
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E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	JNK	OO
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C	05/20/2022	60% DESIGN SUBMISSION	JNK	OO
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	JNK	OO
A	02/18/2022	PRELIMINARY PROGRESS	JNK	OO
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP

CHAMPLAIN HUDSON POWER EXPRESS

TRANSITION VAULT SECTION AND DETAILS

DRAWN BY: DRH DESIGNED BY: JNK APPROVED BY: OO SCALE: AS SHOWN REV. NO.

KIEWIT PROJECT NO.	21162
DRAWING NO.	S-731
DATE SH.NO.	



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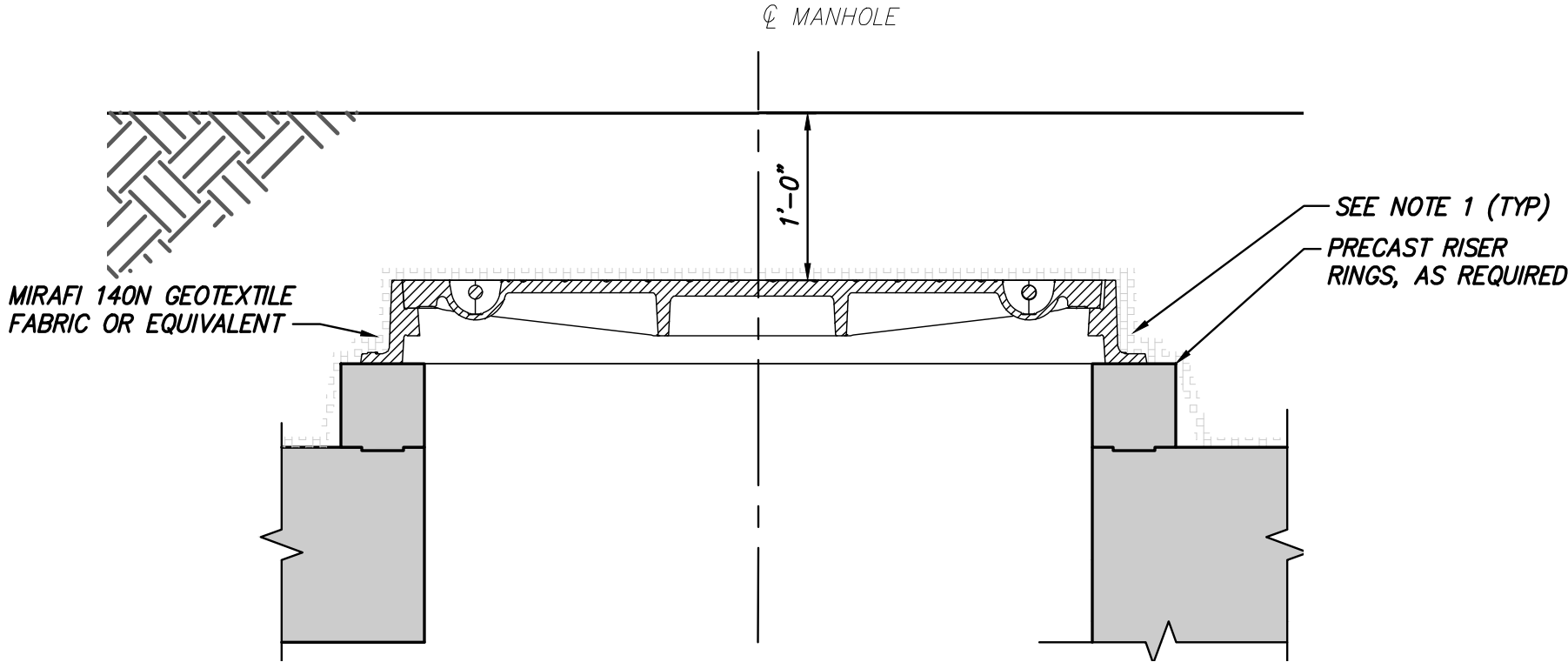


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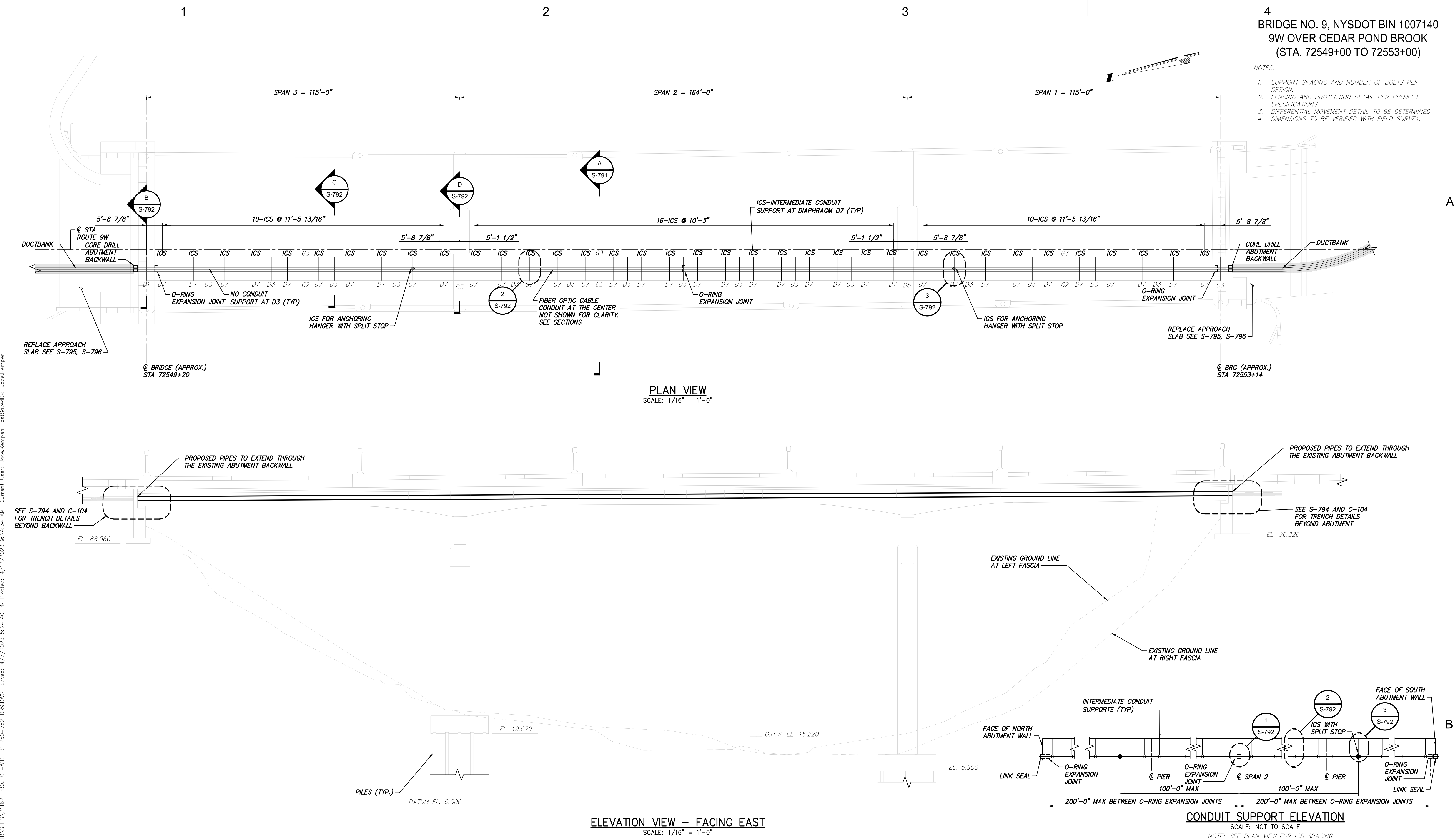
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C	05/20/2022	60% DESIGN SUBMISSION	JNK	OO
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	JNK	OO
A	02/18/2022	PRELIMINARY PROGRESS	JNK	OO
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP

CHAMPLAIN HUDSON POWER EXPRESS				KIEWIT PROJECT NO. 21162	
TRANSITION VAULT DETAILS				DRAWING NO. S-733	
DRAWN BY: DRH	DESIGNED BY: JNK	APPROVED BY: OO	SCALE REV. NO.	AS SHOWN 1	DATE SH.NO.



FINAL POSITION OF MANHOLE
DETAIL 1
SCALE: 3/8" = 1'-0"



- NOTES:
- FOR PACKAGE 1A: ALL TRANSITION VAULT MANHOLES, AFTER CABLE COMMISSIONING, RISERS TO BE REMOVED, MANHOLE FRAMES AND COVERS TO BE LOWERED TO FINAL POSITION. MANHOLE FRAMES AND COVERS TO BE COVERED WITH 8' X 8' MIRAFI 140N GEOTEXTILE FABRIC OR EQUIVALENT. FULL DEPTH PAVEMENT WILL BE RESTORED PRIOR TO MILL AND OVERLAY AFTER CABLE COMMISSIONING.



BRIDGE NO. 9, NYSDOT BIN 1007140
9W OVER CEDAR POND BROOK
(STA. 72549+00 TO 72553+00)

- NOTES:
1. SUPPORT SPACING AND NUMBER OF BOLTS PER DESIGN.
 2. FENCING AND PROTECTION DETAIL PER PROJECT SPECIFICATIONS.
 3. DIFFERENTIAL MOVEMENT DETAIL TO BE DETERMINED.
 4. DIMENSIONS TO BE VERIFIED WITH FIELD SURVEY.

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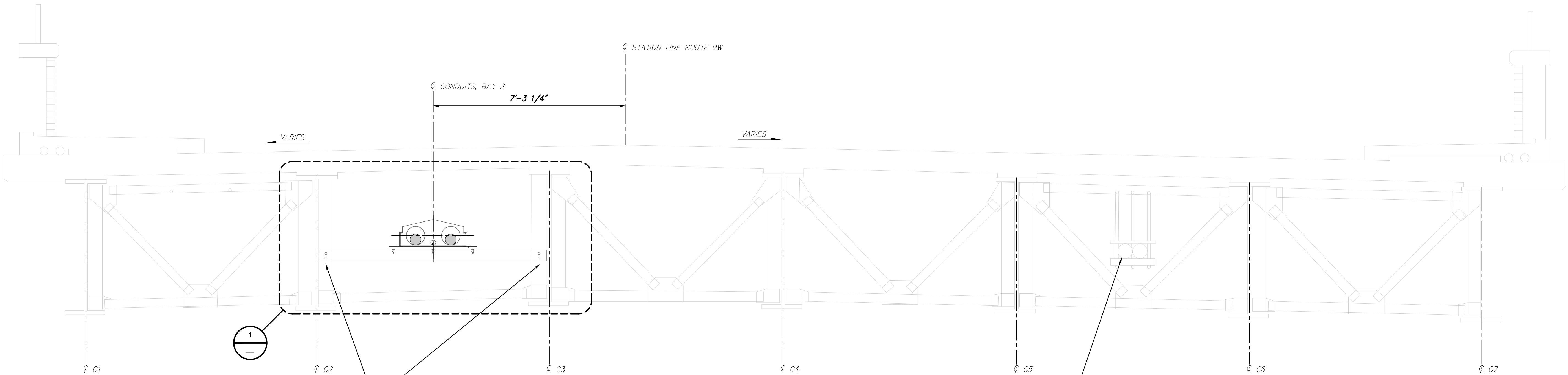
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A	02/18/2022	PRELIMINARY PROGRESS	JNK	OO

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
BRIDGE ATTACHMENT - BRIDGE NO. 9 PLAN AND ELEVATION

S-790

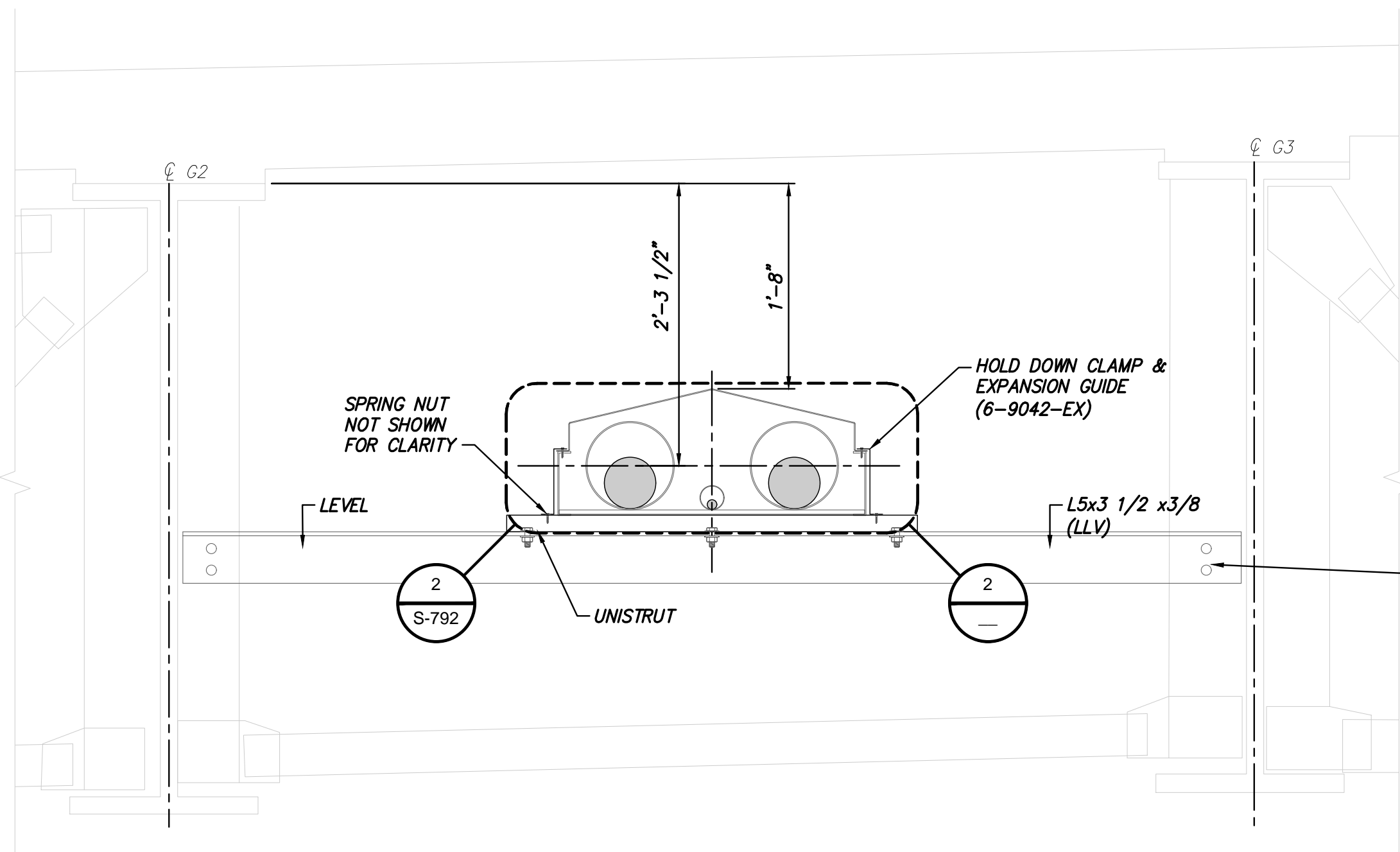
DRAWN BY: DRH	DESIGNED BY: JNK	APPROVED BY: OO	SCALE: AS SHOWN	DATE: 06/09/2022
REV. NO.				SH.NO.

KIEWIT PROJECT NO. 21162	CHA PROJECT NO. 066076
DRAWING NO. S-790	

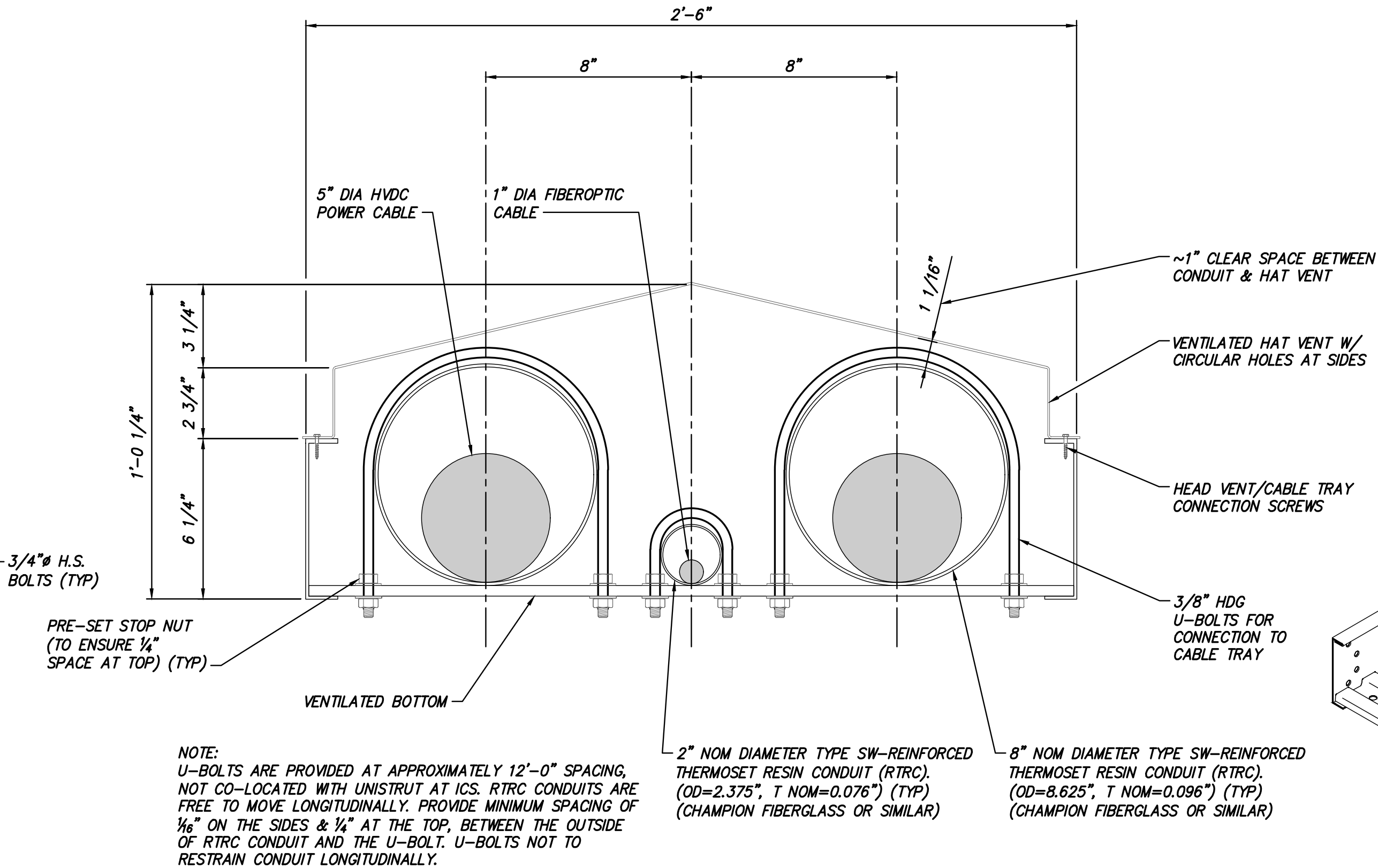


SECTION A
SCALE: 1/2" = 1'-0"

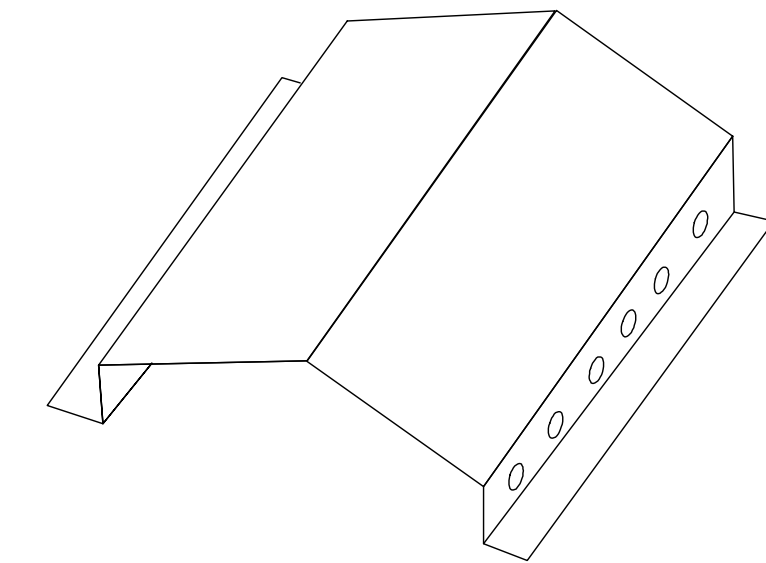
EXISTING 2-6 IN. Ø
FIBERGLASS ELECTRIC CONDUIT



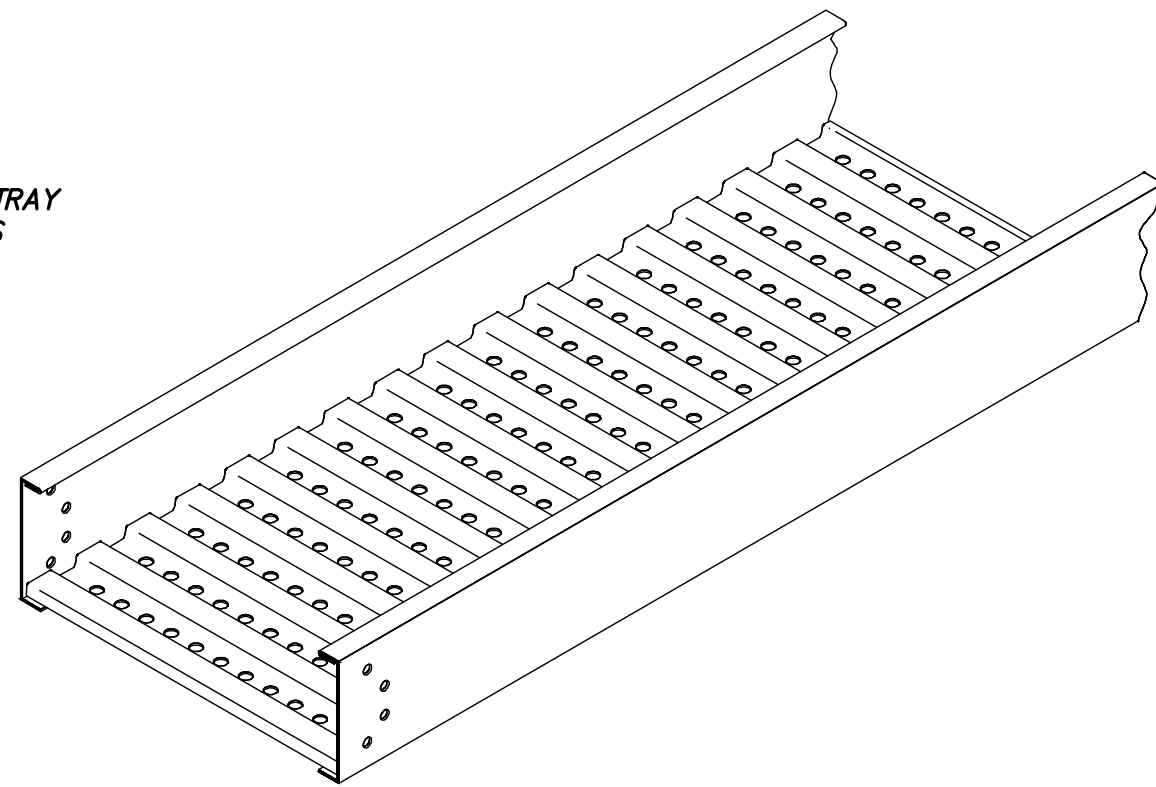
DETAIL 1 – INTERMEDIATE CONDUIT SUPPORT AT DIAPHRAGM D7
SCALE: 1" = 1'-0"



DETAIL 2 – CABLE TRAY AND HAT VENT AT U-BOLT
SCALE: 3" = 1'-0"



VENTILATED HAT – ISOMETRIC VIEW
SCALE: NTS
NOTE: ATKORE COPE PV47-30SL-06-4

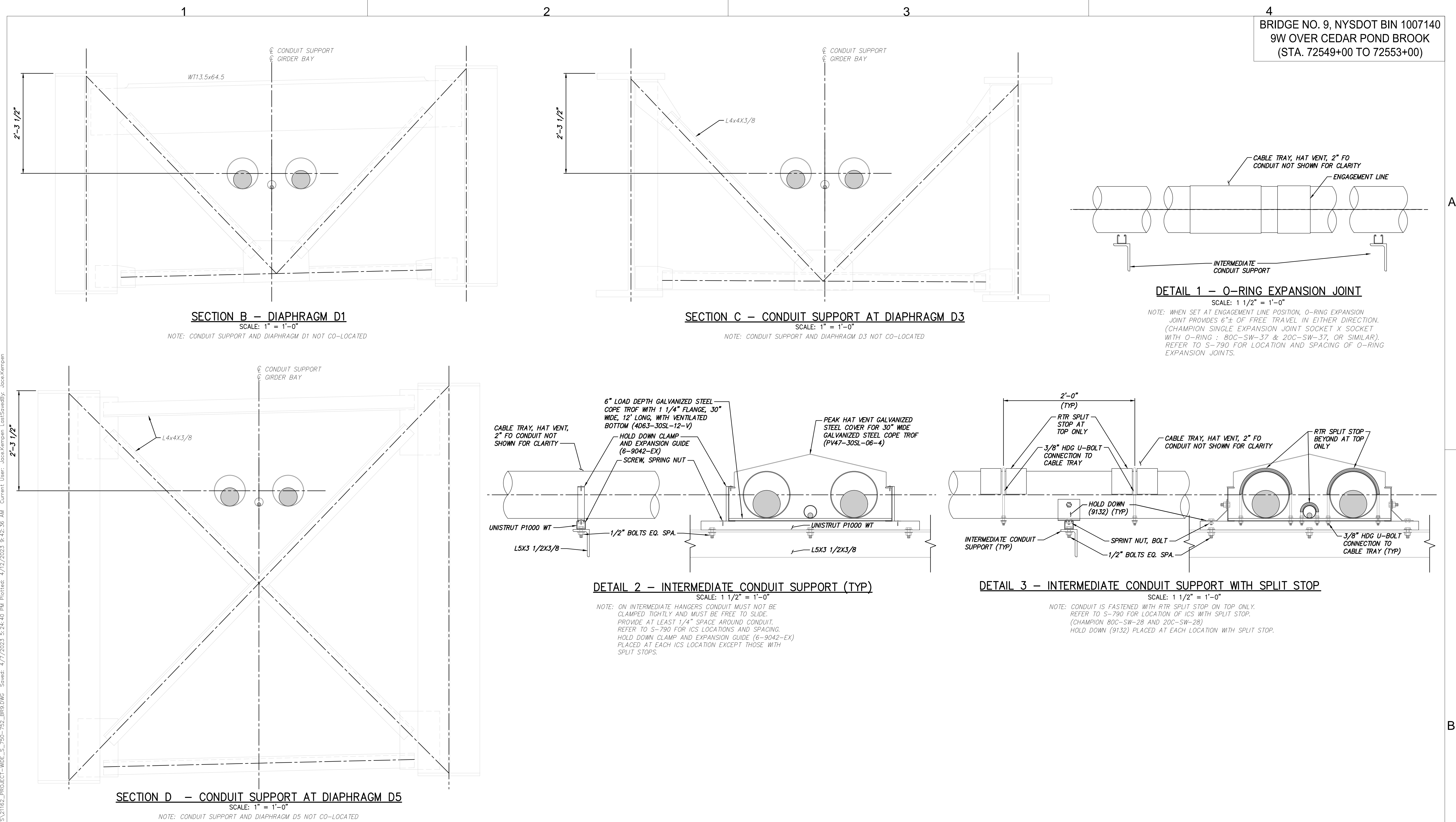


VENTILATED TROF – ISOMETRIC VIEW
SCALE: NTS
NOTE: ATKORE COPE 4D6.3-30SL-12-V

No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
F	04/14/2023	FINAL REV 1 SUBMISSION	JNK	OO
E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	JNK	OO
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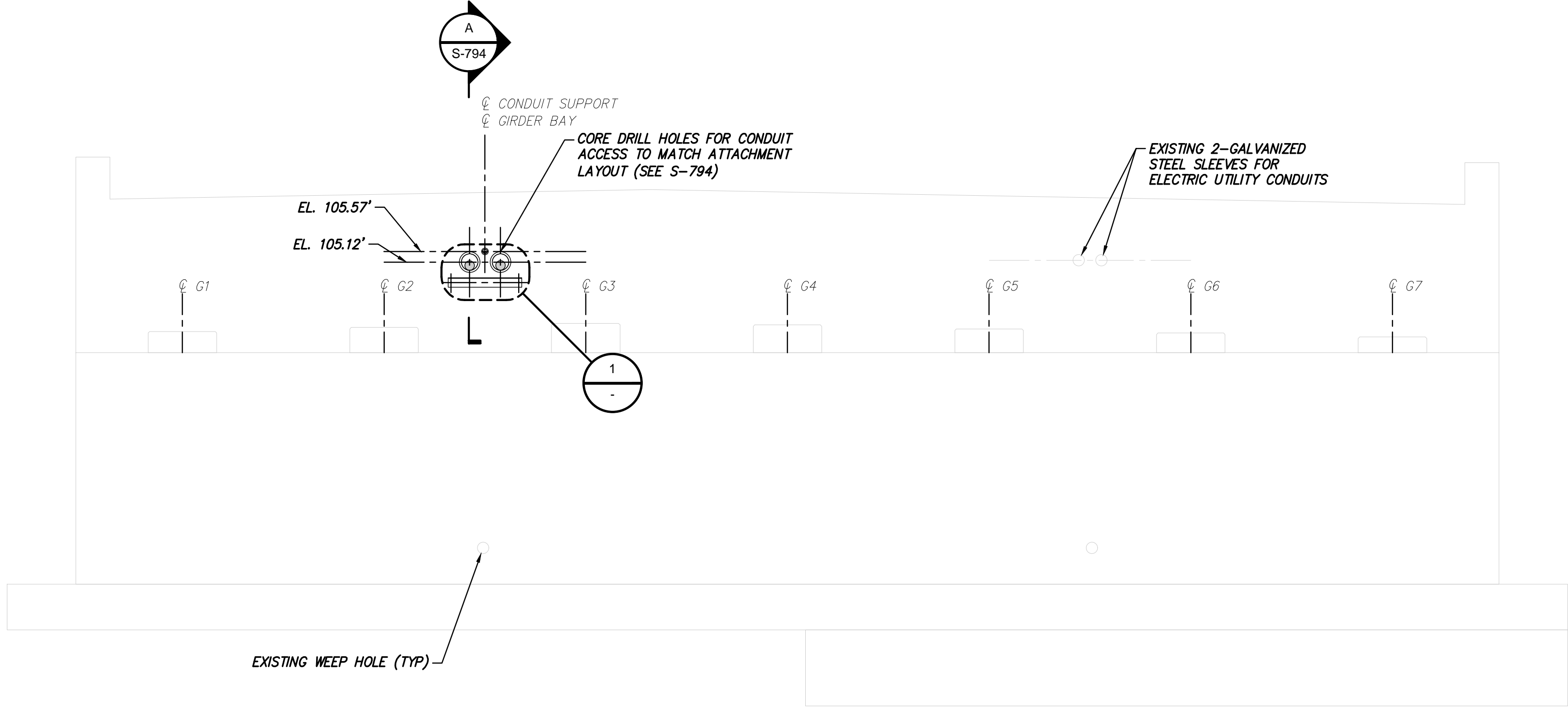
CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
BRIDGE ATTACHMENT - BRIDGE NO. 9
SECTION AND DETAILS I

DRAWN BY: DRH	DESIGNED BY: JNK	APPROVED BY: OO	SCALE: AS SHOWN	DATE: 06/09/2022
REV. NO.				SH.NO.

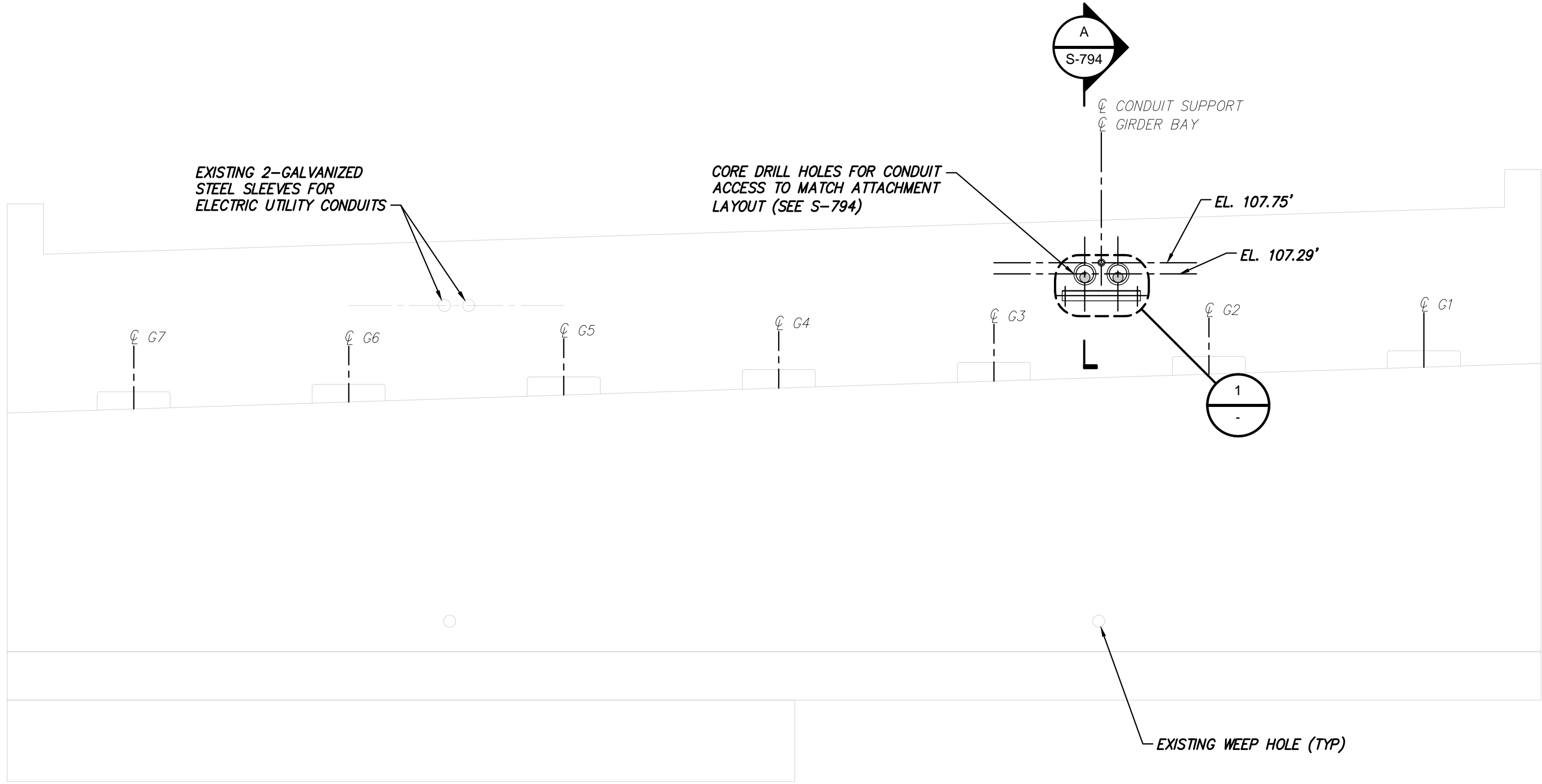


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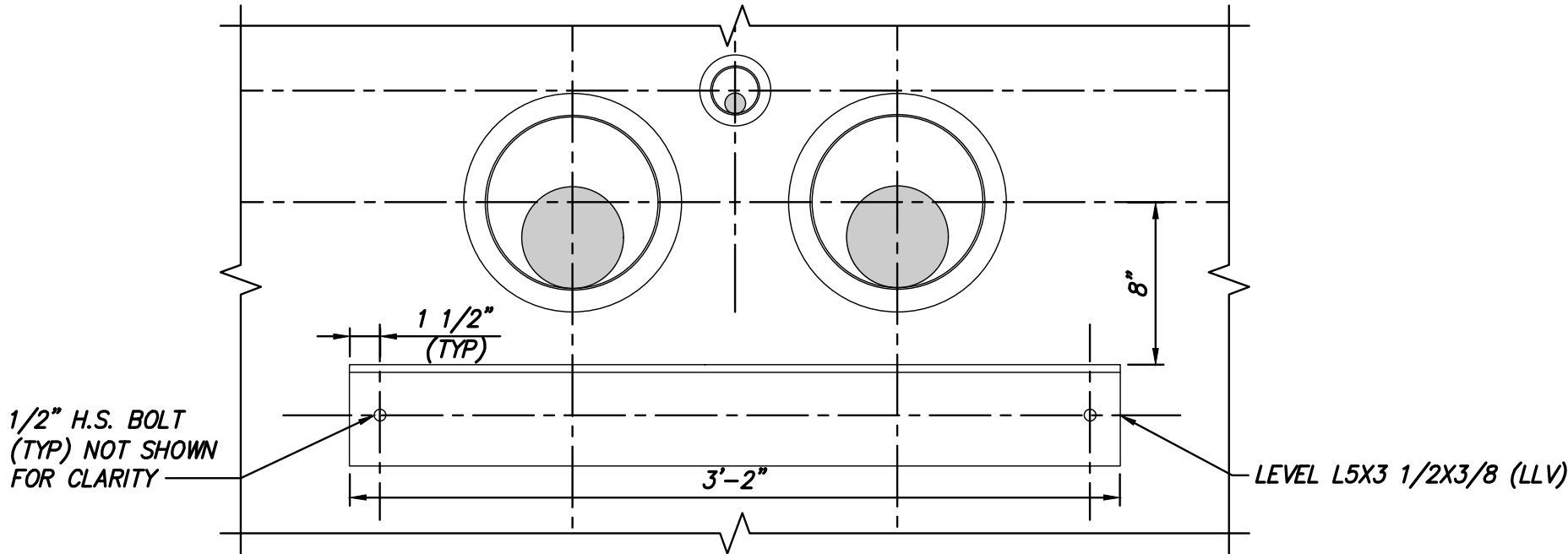
BRIDGE NO. 9, NYSDOT BIN 1007140
9W OVER CEDAR POND BROOK
(STA. 72549+00 TO 72553+00)



ELEVATION — NORTH ABUTMENT
SCALE: 1/4" = 1'-0"



ELEVATION — SOUTH ABUTMENT
SCALE: 1/4" = 1'-0"



DETAIL 1 — ABUTMENT CONDUIT SUPPORT
SCALE: 1 1/2" = 1'-0"



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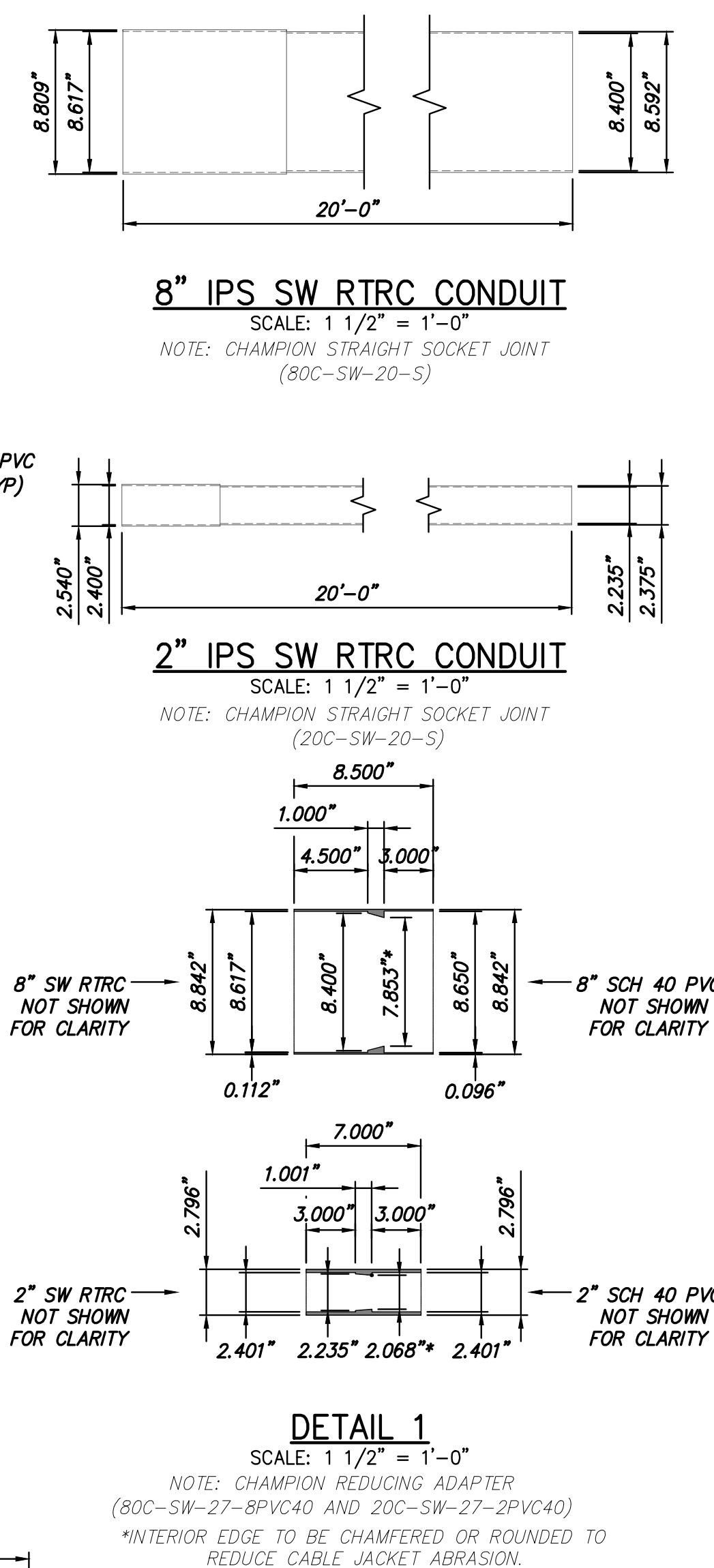
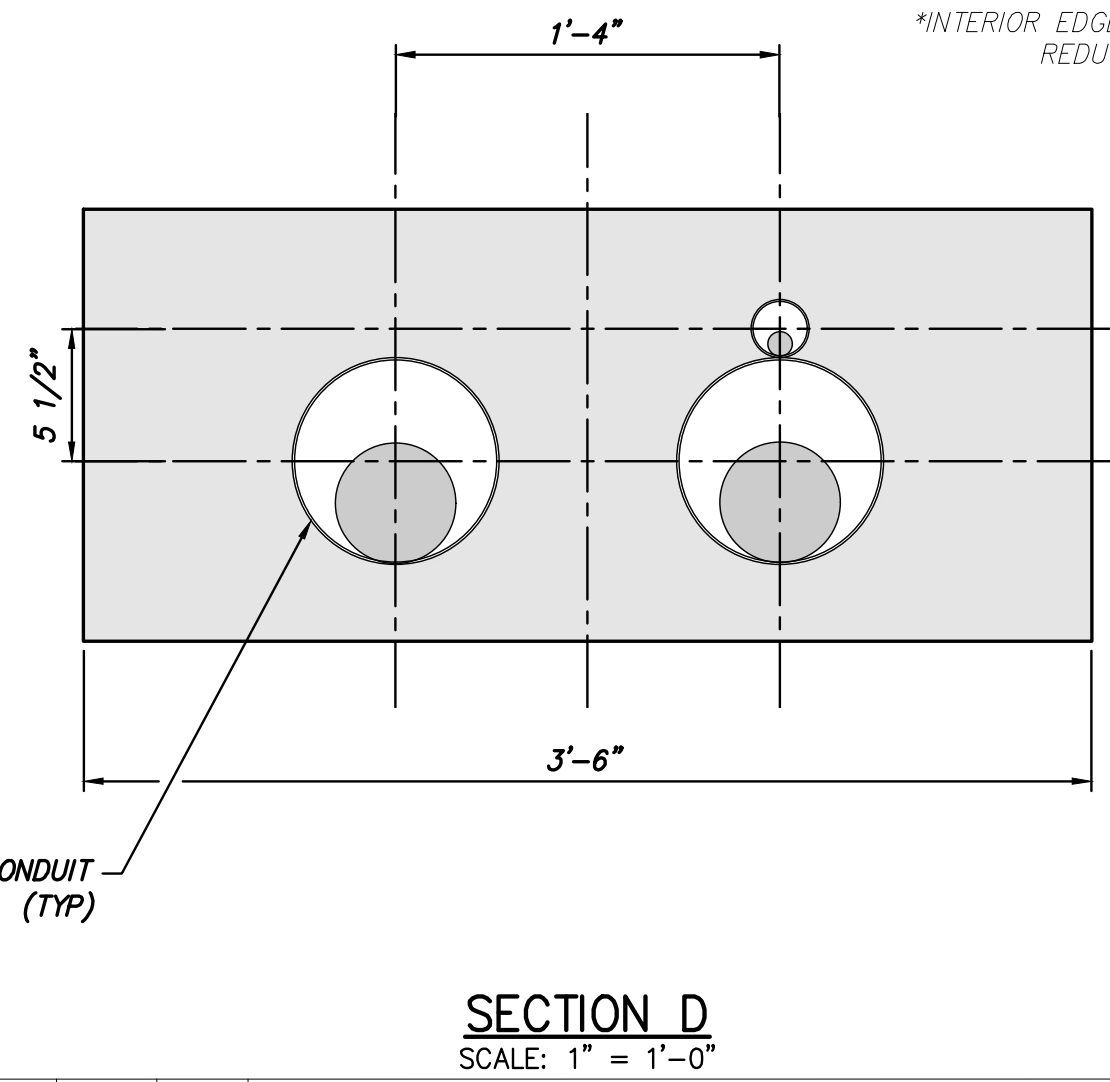
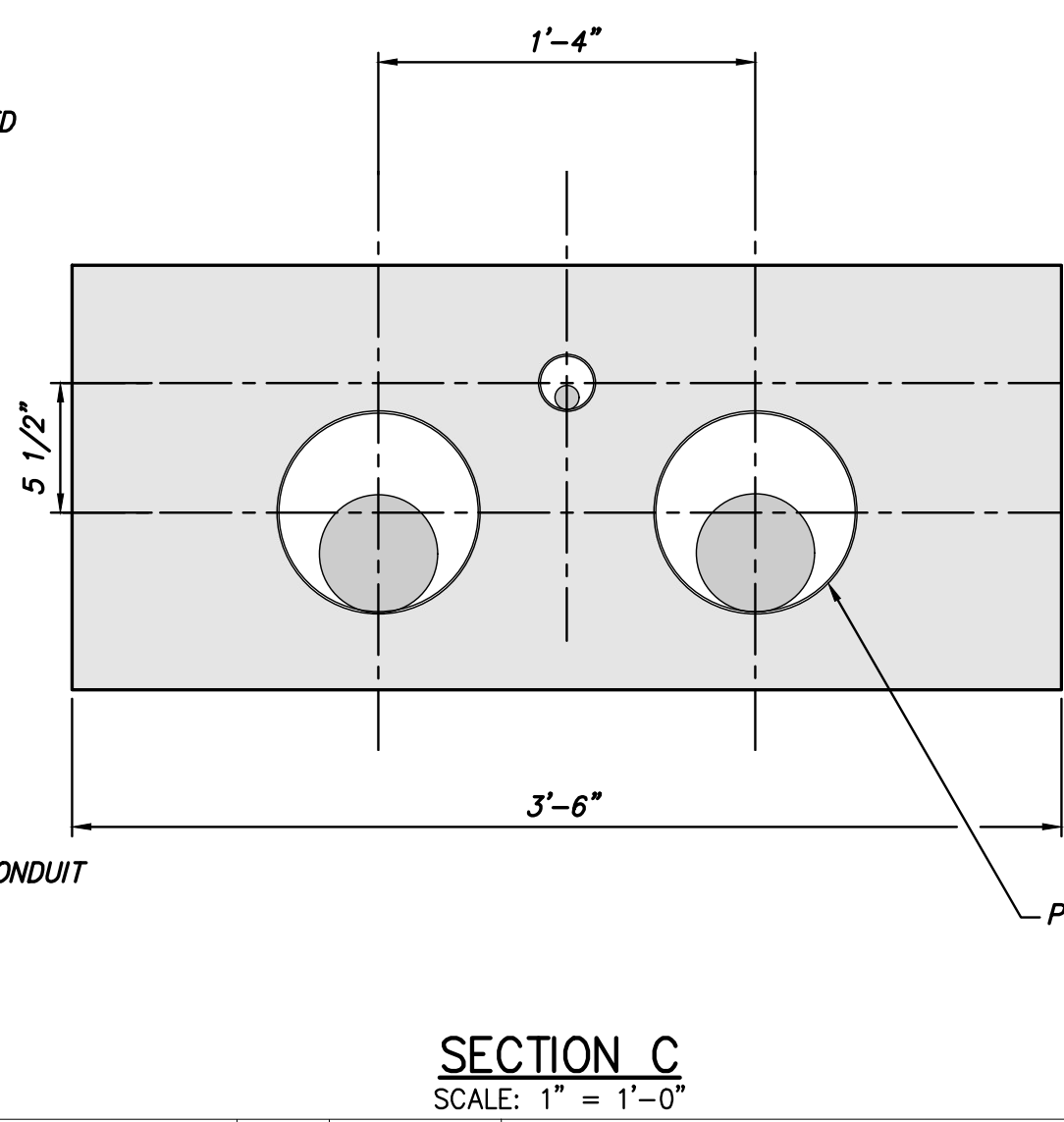
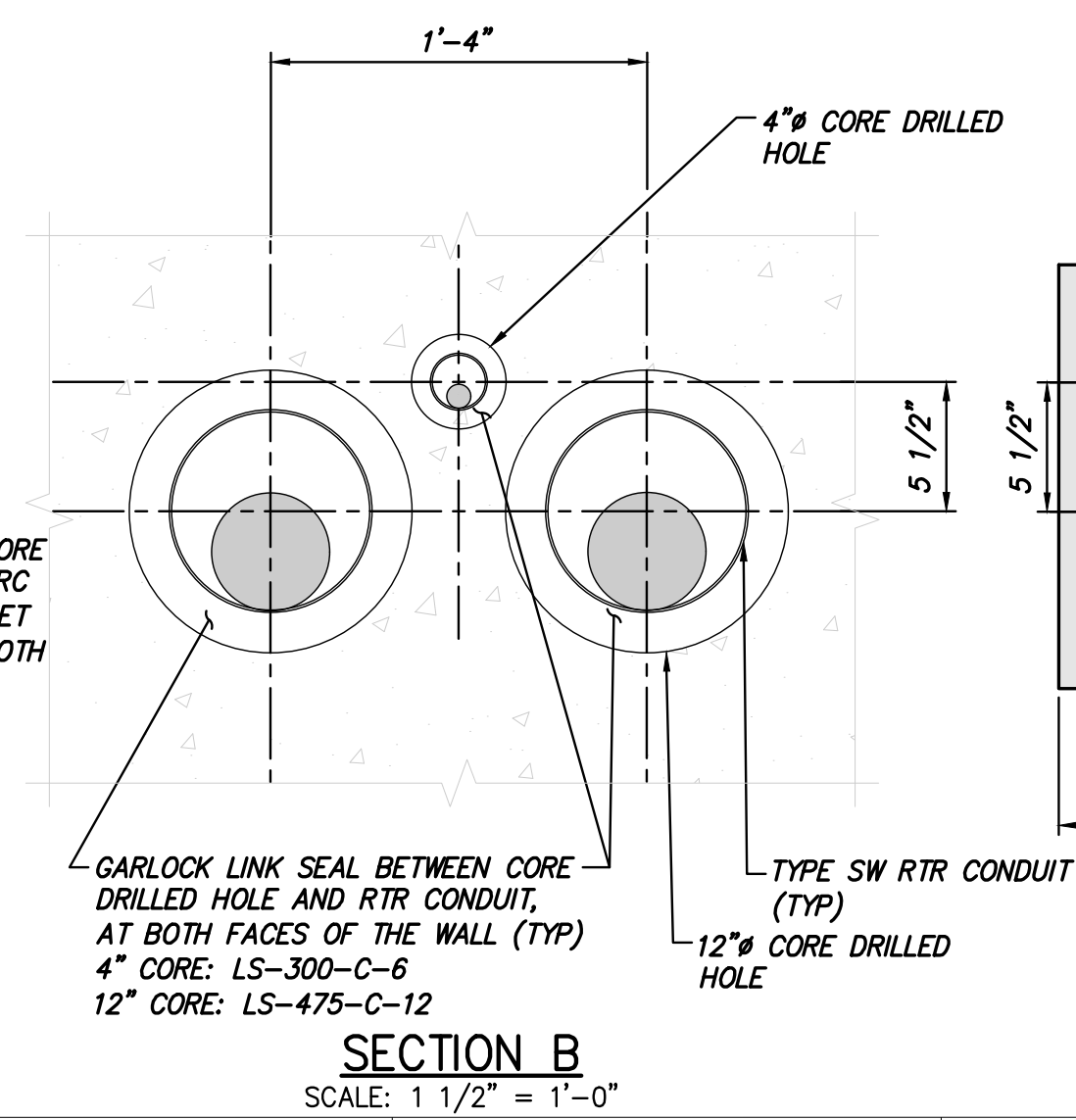
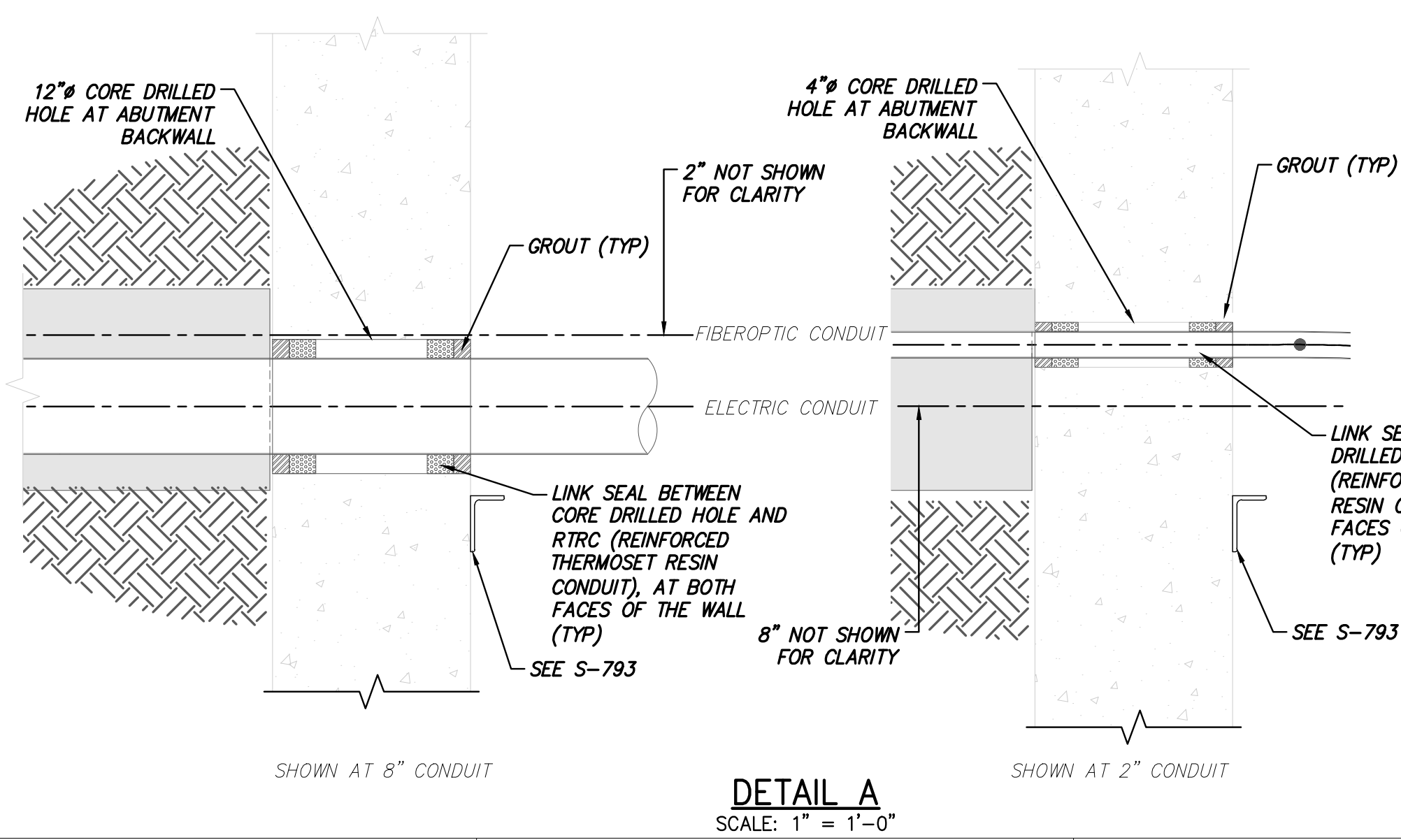
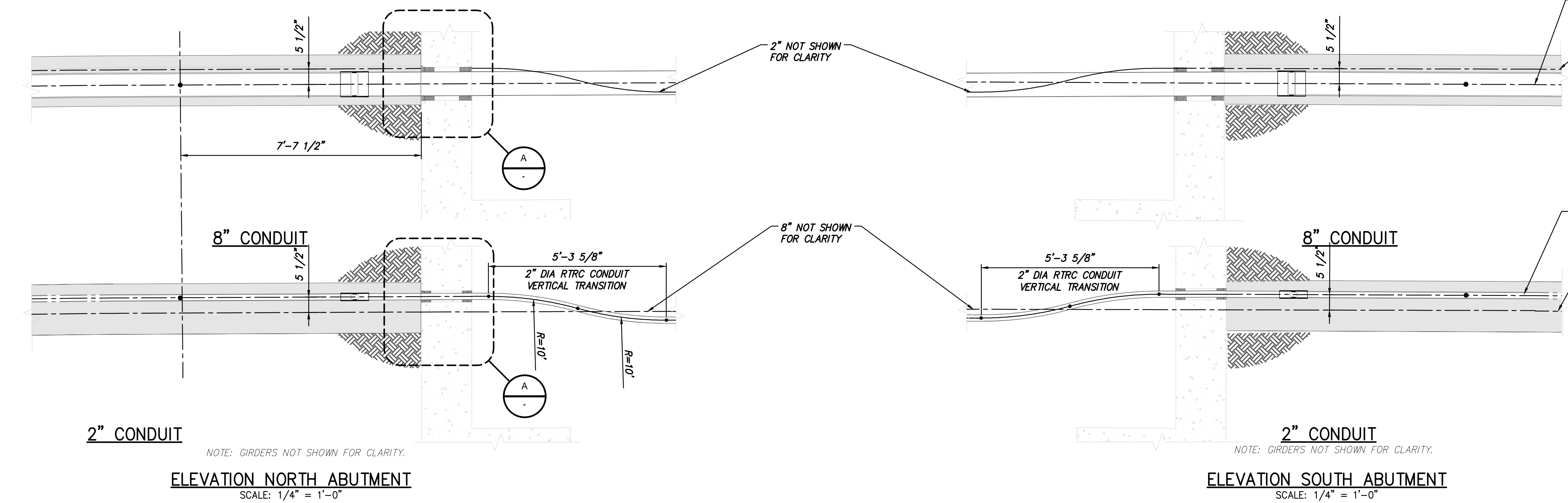
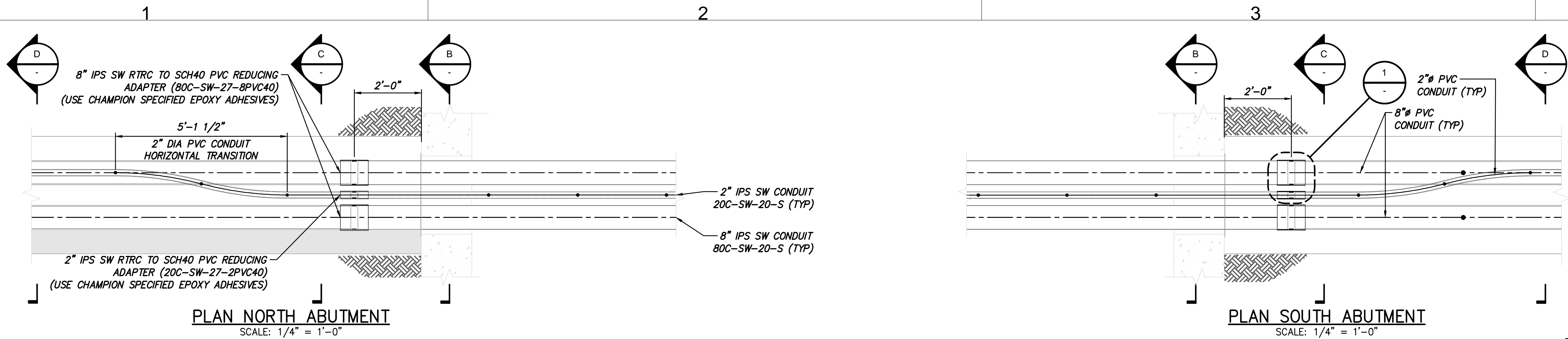
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
BRIDGE ATTACHMENT - BRIDGE NO. 9 ABUTMENT
SECTION AND DETAILS

DRAWN BY: DRH	DESIGNED BY: JNK	APPROVED BY: OO	SCALE: AS SHOWN	DATE: 06/09/2022
REV. NO.				SH.NO.

KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	S-793

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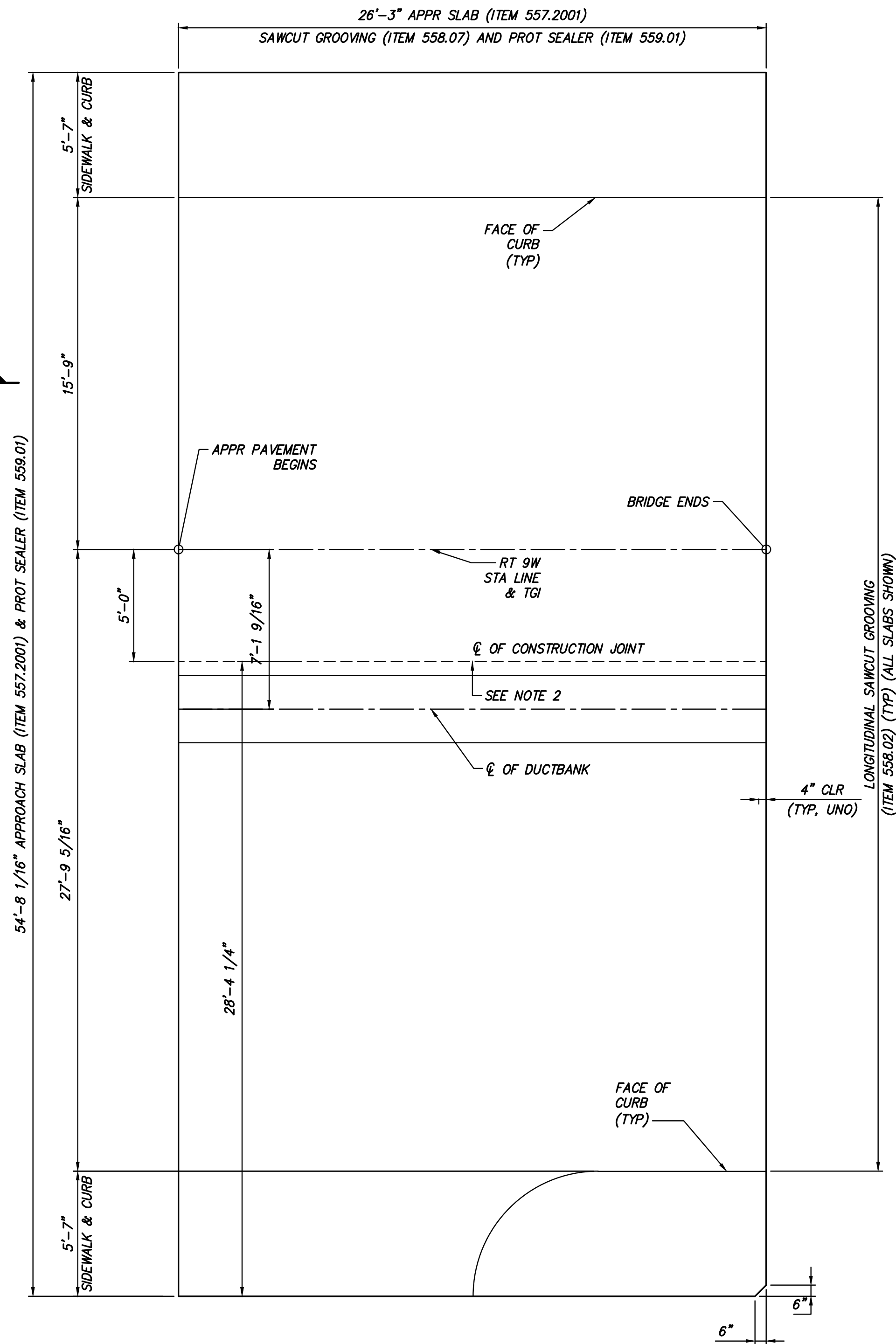
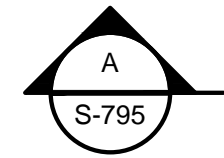
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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
BRIDGE ATTACHMENT - BRIDGE NO. 9
ABUTMENT TRANSITION DETAILS

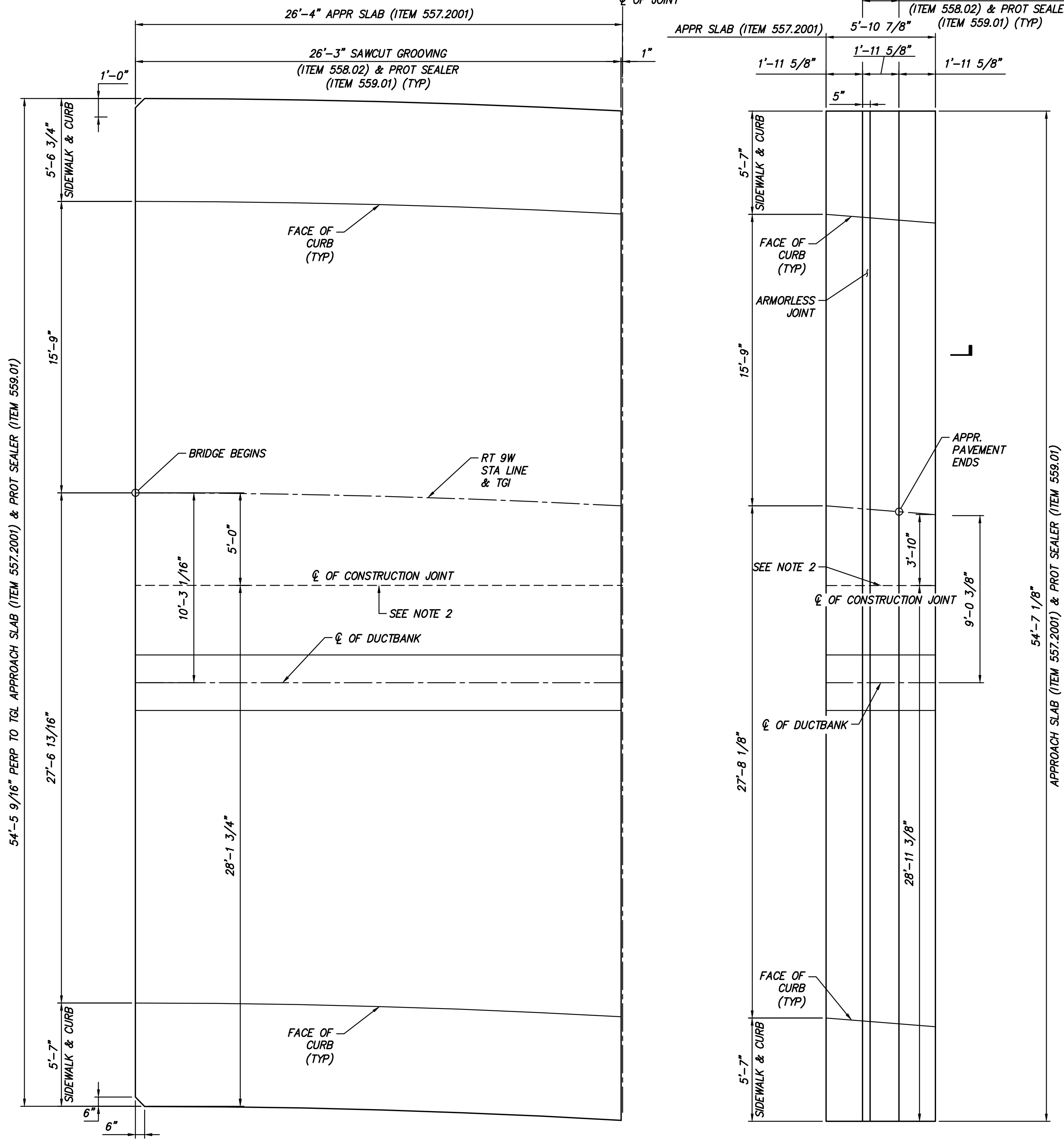
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CHA PROJECT NO.	066076
DRAWING NO.	S-794
DATE	06/09/2022
SH. NO.	

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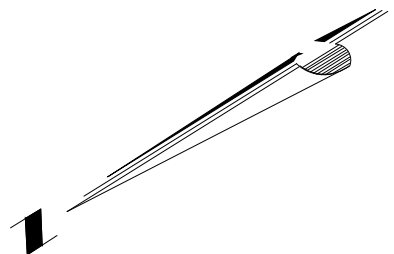
NORTH APPROACH SLAB
SCALE: 1/4" = 1'-0"



SOUTH APPROACH SLAB
SCALE: 1/4" = 1'-0"

SLEEPER SLAB
SCALE: 1/4" = 1'-0"

QUANTITIES			
LOCATION	ITEM 557.2001	ITEM 558.02	ITEM 559.01
SLEEPER SLAB	35.88 SY	11.48 SY	122.71 SF
BEG APPR SLAB	158.95 SY	126.42 SY	1389.63 SF
END APPR SLAB	158.83 SY	126.66 SY	1389.63 SF



- NOTES:
- REBAR AND CONCRETE PER NYSDOT STANDARD DETAILS (SHEETS "BD-SA1E" THROUGH "BD-SA10E")
 - REBAR COUPLERS TO BE PROVIDED TO ALLOW FOR CONTINUOUS REINFORCEMENT ACROSS CONSTRUCTION JOINT.



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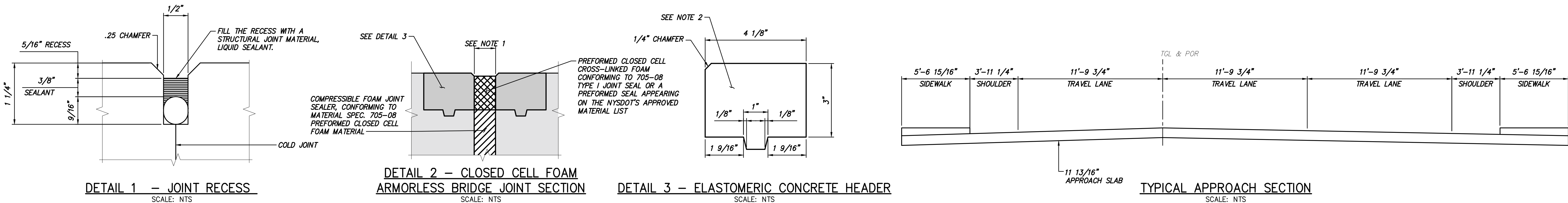
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A	02/18/2022	PRELIMINARY PROGRESS	JNK	OO
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
BRIDGE ATTACHMENT - BRIDGE NO. 9
APPROACH SLAB REINFORCEMENT

DRAWN BY: DRH	DESIGNED BY: JNK	APPROVED BY: OO	SCALE AS SHOWN	DATE 06/09/2022
REV. NO.				SH.NO.

S-795



						CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND BRIDGE ATTACHMENT - BRIDGE NO. 9 APPROACH SLAB SECTION AND DETAILS				KIEWIT PROJECT NO. 21162	
F	04/14/2023	FINAL REV 1 SUBMISSION	JNK	OO	CHA PROJECT NO. 066076						
E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	JNK	OO	DRAWING NO. S-796						
D	11/16/2022	DRAFT FINAL SUBMISSION	JNK	OO							
C	05/20/2022	60% DESIGN SUBMISSION	JNK	OO							
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	JNK	OO							
A	02/18/2022	PRELIMINARY PROGRESS	JNK	OO							
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRAWN BY: DRH	DESIGNED BY: JNK	APPROVED BY: OO	SCALE REV. NO.	AS SHOWN	DATE SH.NO.	06/09/2022



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

**ISSUED FOR
PERMITTING**

File: P:\KIE-CHPE\3-DES\15 TRK\SHITS\7B\21162_77B_C_101-105.DWG Saved: 2/28/2023 10:22:26 AM Plotted: 2/28/2023 10:26:38 AM Current User: Jason.Smith11 LastSavedBy: Jason.Smith11

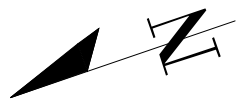
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NYS DOT ITEMS				
ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATE	ACTUAL
680.05010007	360 DEGREE CAMERA VIDEO DETECTION SYSTEM	EA	1	



VIDEO DETECTION SYSTEM NOTES:

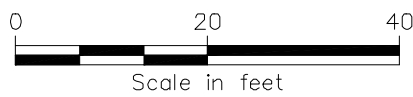
1. THE CONTRACTOR IS TO WORK WITH THE NYS DOT REGIONAL SIGNAL UNIT TO SET UP THE DETECTION ZONES IN THE FIELD
2. SEE DETAIL #XXX ON SHEET X-XX OF THE NYS DOT HIGHWAY WORK PERMIT PLAN SET FOR SPAN WIRE POLE MOUNTING
3. THE 360-DEGREE CAMERA VIDEO DETECTION SYSTEM SHALL CONSIST OF ONE FIXED 360-DEGREE VIEW VIDEO CAMERA, CONTROL UNIT, MOUNTING HARDWARE AND ALL NECESSARY CABLES.

NYS DOT TRAFFIC SIGNAL NOTES:

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REPLACE ALL SIGNAL INTERCONNECT CABLE, DETECTOR CABLE, CONDUIT AND ALL UNDERGROUND ACCESSORY EQUIPMENT DAMAGED DURING CONSTRUCTION.
- B. PRIOR TO STARTING ANY WORK AT THIS LOCATION, THE CONTRACTOR SHALL NOTIFY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION THAT A TONE-OUT OF SIGNAL EQUIPMENT IS NEEDED.
- C. ALL TRAFFIC SIGNALS SHALL BE MAINTAINED IN A TRAFFIC RESPONSIVE OPERATION AND ALL INTERCONNECT, WHERE EXISTING, SHALL BE MAINTAINED.
- D. THE CONTRACTOR SHALL PAY LIQUIDATED DAMAGES OF \$500.00 PER CALENDAR DAY IF ACTUATION AND COORDINATION IS NOT MAINTAINED.



SYMBOL	DESCRIPTION
	PULLBOX
	OVERHEAD SIGNAL WIRE
	UNDERGROUND CONDUIT
	PROPOSED 360 DEGREE CAMERA VIDEO DETECTION SYSTEM
	TRAFFIC SIGNAL CONTROLLER
	TRAFFIC SIGNAL POLE
	TRAFFIC SIGNAL HEAD
	SIGNAL MAST ARM
	COUNTING DETECTION ZONE
	PHASE DETECTION ZONE



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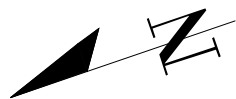
ISSUED FOR PERMITTING

A	02/28/2023	PRELIMINARY PROGRESS	JS	RC	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
SIGNAL R-116
ROUTE 9W & CENTRAL DR (ROUTE 210)
NON-INTRUSIVE DETECTION SYSTEM

KIEWIT PROJECT NO.		21162
DRAWING NO.		T-102
DRAWN BY:	JS	DESIGNED BY: JS
APPROVED BY:	RC	SCALE AS SHOWN
DATE	02/28/2023	DATE
SH.NO.	2 OF 13	SH.NO.

NYS DOT ITEMS				
ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATE	ACTUAL
680.05010007	360 DEGREE CAMERA VIDEO DETECTION SYSTEM	EA	1	

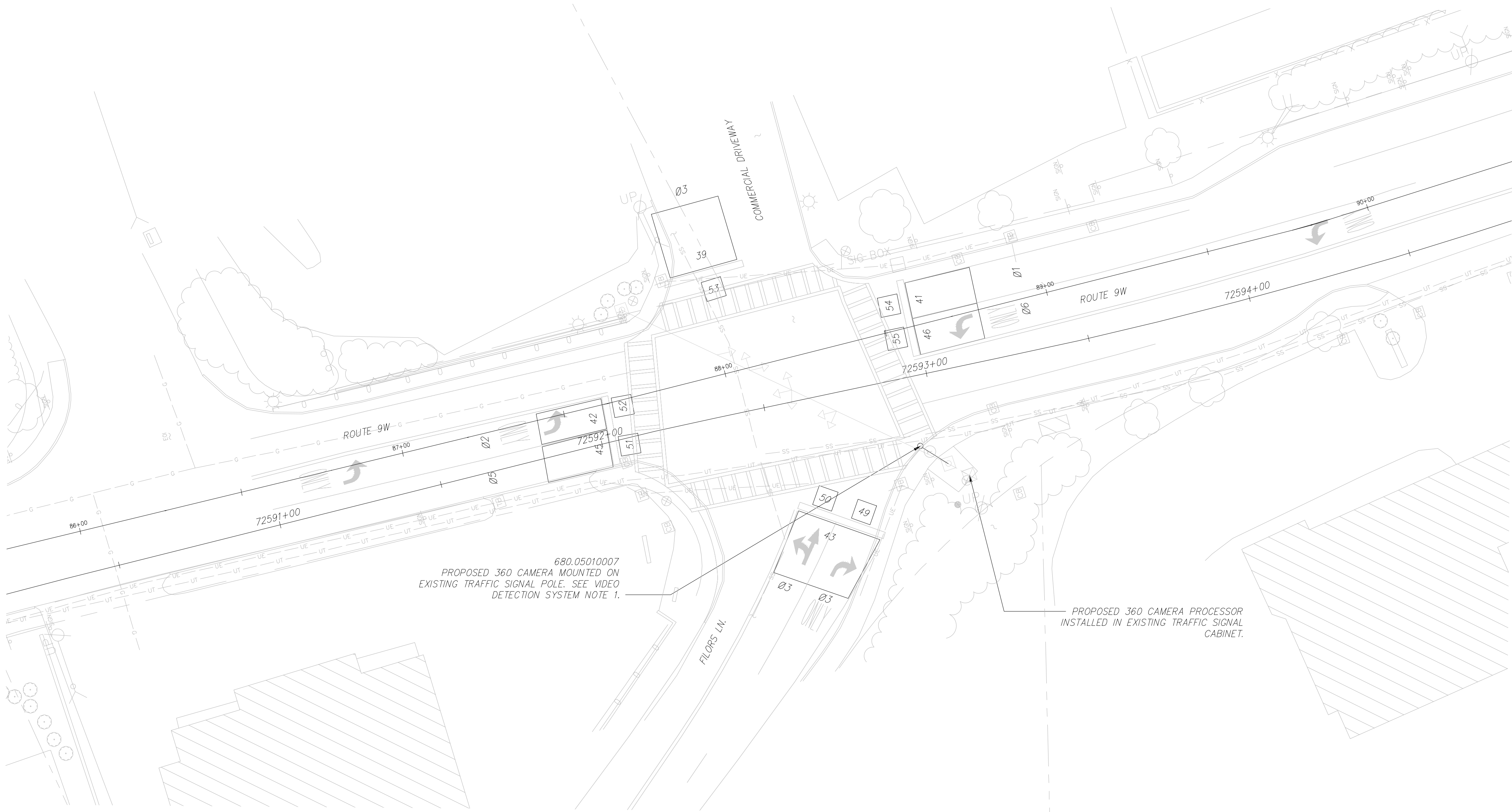


VIDEO DETECTION SYSTEM NOTES:

1. THE CONTRACTOR IS TO WORK WITH THE NYS DOT REGIONAL SIGNAL UNIT TO SET UP THE DETECTION ZONES IN THE FIELD
2. SEE DETAIL #XXX ON SHEET X-XX OF THE NYS DOT HIGHWAY WORK PERMIT PLAN SET FOR SPAN WIRE POLE MOUNTING
3. THE 360-DEGREE CAMERA VIDEO DETECTION SYSTEM SHALL CONSIST OF ONE FIXED 360-DEGREE VIEW VIDEO CAMERA, CONTROL UNIT, MOUNTING HARDWARE AND ALL NECESSARY CABLES.

NYS DOT TRAFFIC SIGNAL NOTES:

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REPLACE ALL SIGNAL INTERCONNECT CABLE, DETECTOR CABLE, CONDUIT AND ALL UNDERGROUND ACCESSORY EQUIPMENT DAMAGED DURING CONSTRUCTION.
- B. PRIOR TO STARTING ANY WORK AT THIS LOCATION, THE CONTRACTOR SHALL NOTIFY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION THAT A TONE-OUT OF SIGNAL EQUIPMENT IS NEEDED.
- C. ALL TRAFFIC SIGNALS SHALL BE MAINTAINED IN A TRAFFIC RESPONSIVE OPERATION AND ALL INTERCONNECT, WHERE EXISTING, SHALL BE MAINTAINED.
- D. THE CONTRACTOR SHALL PAY LIQUIDATED DAMAGES OF \$500.00 PER CALENDAR DAY IF ACTUATION AND COORDINATION IS NOT MAINTAINED.



SYMBOL	DESCRIPTION
	PULLBOX
	OVERHEAD SIGNAL WIRE
	UNDERGROUND CONDUIT
	PROPOSED 360 DEGREE CAMERA VIDEO DETECTION SYSTEM
	TRAFFIC SIGNAL CONTROLLER
	TRAFFIC SIGNAL POLE
	TRAFFIC SIGNAL HEAD
	SIGNAL MAST ARM
	COUNTING DETECTION ZONE
	PHASE DETECTION ZONE



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ISSUED FOR PERMITTING

A	02/28/2023	PRELIMINARY PROGRESS		JS	RC				
No.	DATE	SUBMITTAL / REVISION DESCRIPTION		DB	APP				

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
SIGNAL R-120
ROUTE 9W & FILORS LN
NON-INTRUSIVE DETECTION SYSTEM

KIEWIT PROJECT NO.		21162
DRAWING NO.		T-103
DRAWN BY:	JS	DESIGNED BY: JS
APPROVED BY:	RC	SCALE AS SHOWN
DATE	02/28/2023	SH.NO. 3 OF 13

File: P:\KIE-CHPE\3-DES\15 TRK\SHITS\7B\21162_P7B_C_101-105.DWG Saved: 2/28/2023 10:22:26 AM Plotted: 2/28/2023 10:29:06 AM Current User: Jason.Smith11 LastSavedBy: Jason.Smith11

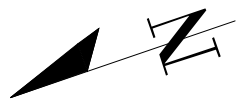
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NYS DOT ITEMS				
ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATE	ACTUAL
680.05010007	360 DEGREE CAMERA VIDEO DETECTION SYSTEM	EA	1	

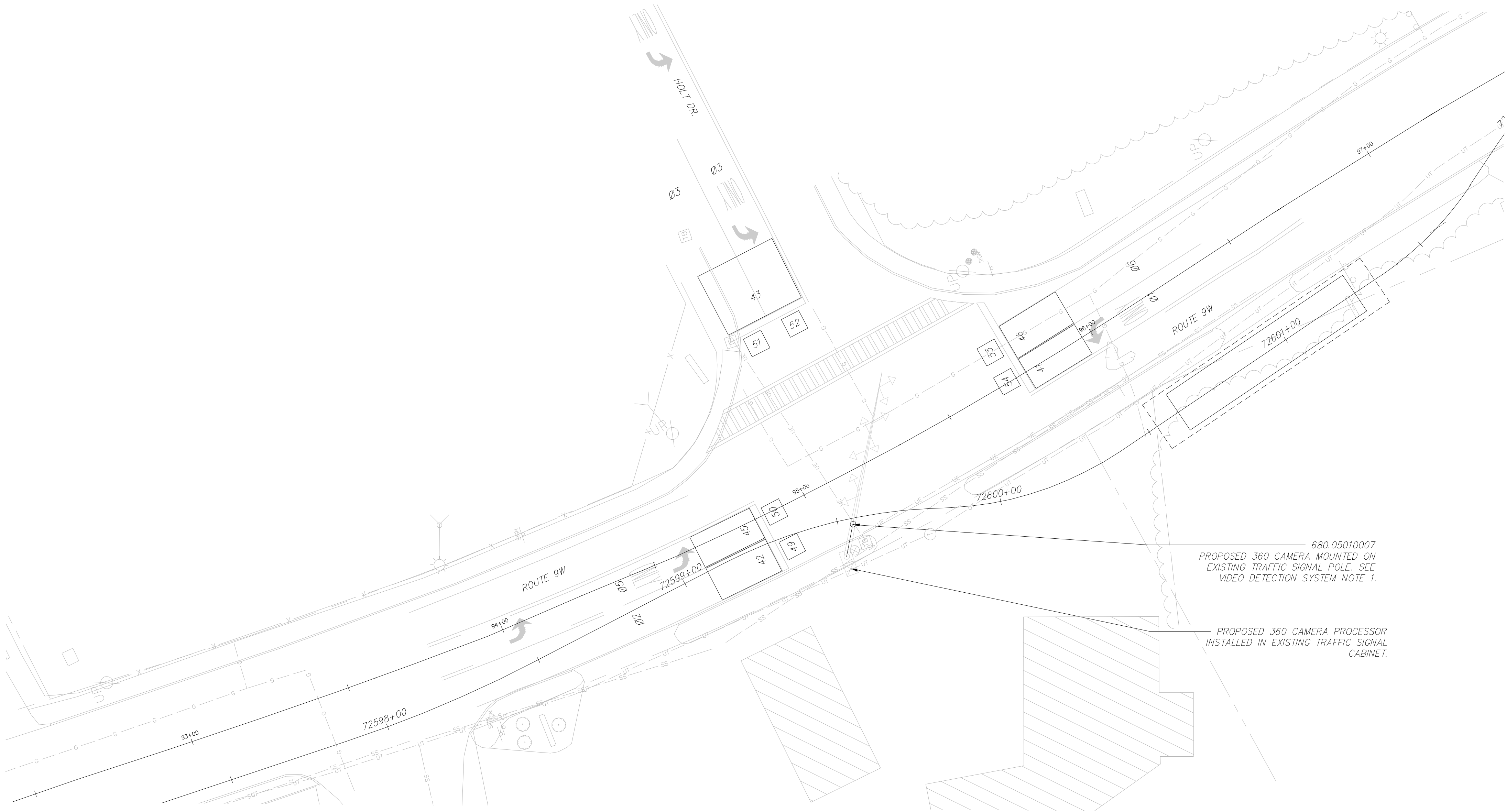


VIDEO DETECTION SYSTEM NOTES:

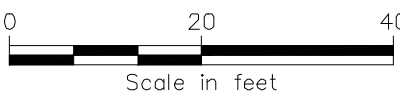
1. THE CONTRACTOR IS TO WORK WITH THE NYS DOT REGIONAL SIGNAL UNIT TO SET UP THE DETECTION ZONES IN THE FIELD
2. SEE DETAIL #XXX ON SHEET X-XX OF THE NYS DOT HIGHWAY WORK PERMIT PLAN SET FOR SPAN WIRE POLE MOUNTING
3. THE 360-DEGREE CAMERA VIDEO DETECTION SYSTEM SHALL CONSIST OF ONE FIXED 360-DEGREE VIEW VIDEO CAMERA, CONTROL UNIT, MOUNTING HARDWARE AND ALL NECESSARY CABLES.

NYS DOT TRAFFIC SIGNAL NOTES:

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SYMBOL	DESCRIPTION
	PULLBOX
	OVERHEAD SIGNAL WIRE
	UNDERGROUND CONDUIT
	PROPOSED 360 DEGREE CAMERA VIDEO DETECTION SYSTEM
	TRAFFIC SIGNAL CONTROLLER
	TRAFFIC SIGNAL POLE
	TRAFFIC SIGNAL HEAD
	SIGNAL MAST ARM
	COUNTING DETECTION ZONE
	PHASE DETECTION ZONE



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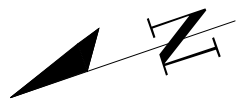
ISSUED FOR PERMITTING

A	02/28/2023	PRELIMINARY PROGRESS				JS	RC		
No.	DATE	SUBMITTAL / REVISION DESCRIPTION				DB	APP		

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
SIGNAL R-209
ROUTE 9W & HOLT DR
NON-INTRUSIVE DETECTION SYSTEM

KIEWIT PROJECT NO.		21162
DRAWING NO.		T-104
DRAWN BY:	JS	DESIGNED BY: JS
APPROVED BY:	RC	SCALE AS SHOWN
DATE	02/28/2023	SH.NO. 4 OF 13

NYSOT ITEMS				
ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATE	ACTUAL
680.05010007	360 DEGREE CAMERA VIDEO DETECTION SYSTEM	EA	1	

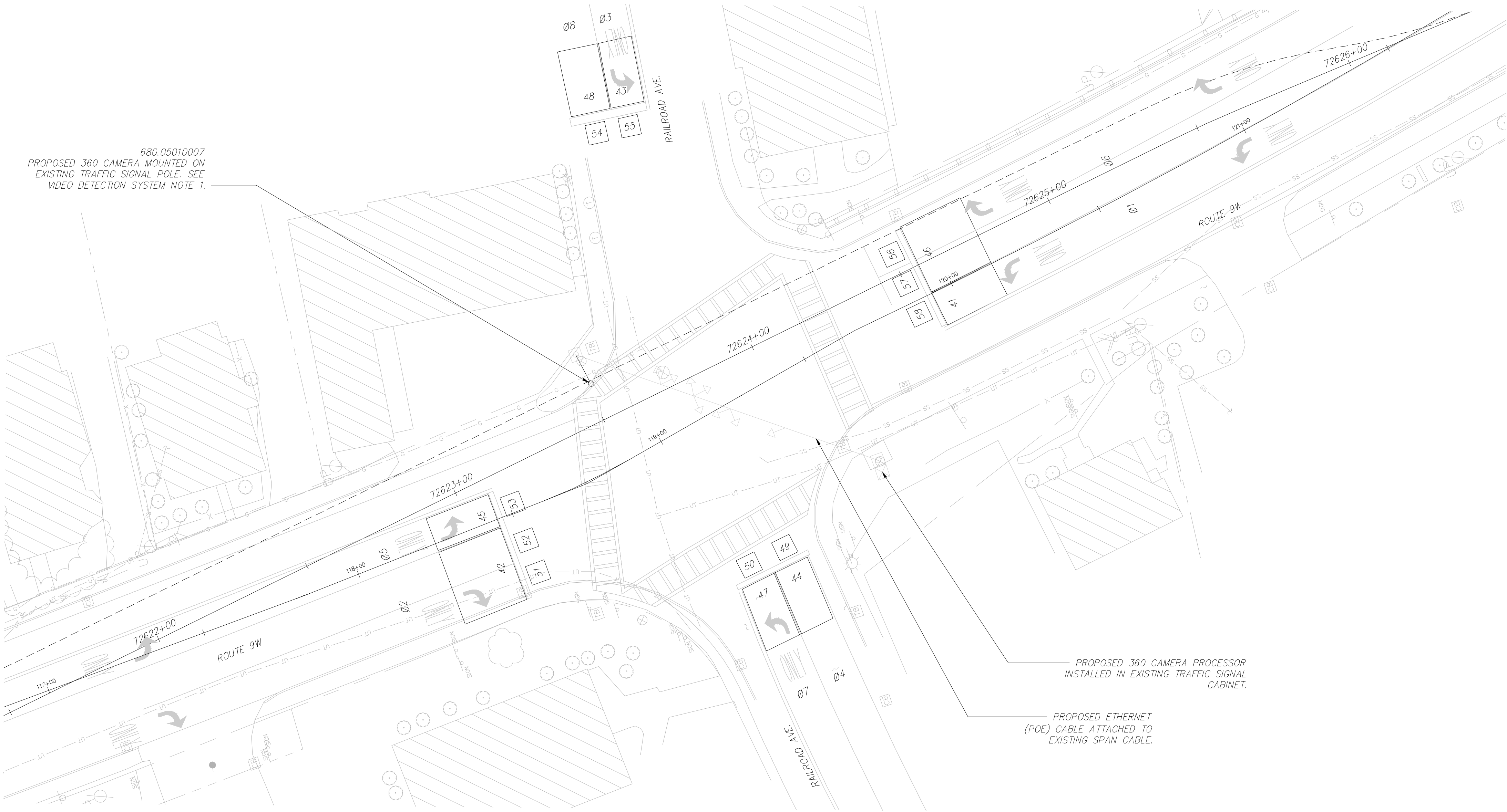


VIDEO DETECTION SYSTEM NOTES:

1. THE CONTRACTOR IS TO WORK WITH THE NYSOT REGIONAL SIGNAL UNIT TO SET UP THE DETECTION ZONES IN THE FIELD
2. SEE DETAIL #XXX ON SHEET X-XX OF THE NYSOT HIGHWAY WORK PERMIT PLAN SET FOR SPAN WIRE POLE MOUNTING
3. THE 360-DEGREE CAMERA VIDEO DETECTION SYSTEM SHALL CONSIST OF ONE FIXED 360-DEGREE VIEW VIDEO CAMERA, CONTROL UNIT, MOUNTING HARDWARE AND ALL NECESSARY CABLES.

NYSOT TRAFFIC SIGNAL NOTES:

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SYMBOL	DESCRIPTION
	PULLBOX
	OVERHEAD SIGNAL WIRE
	UNDERGROUND CONDUIT
	PROPOSED 360 DEGREE CAMERA VIDEO DETECTION SYSTEM
	TRAFFIC SIGNAL CONTROLLER
	TRAFFIC SIGNAL POLE
	TRAFFIC SIGNAL HEAD
	SIGNAL MAST ARM
	COUNTING DETECTION ZONE
	PHASE DETECTION ZONE



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A	02/28/2023	PRELIMINARY PROGRESS			JS	RC			
No.	DATE	SUBMITTAL / REVISION DESCRIPTION			DB	APP			

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
SIGNAL R-8
ROUTE 9W & RAILROAD AVE
NON-INTRUSIVE DETECTION SYSTEM

KIEWIT PROJECT NO.		21162
DRAWING NO.		T-105
DRAWN BY:	JS	DESIGNED BY: JS
APPROVED BY:	RC	SCALE AS SHOWN
DATE	02/28/2023	SH.NO. 5 OF 13

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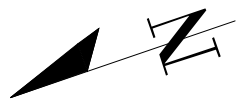
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NYS DOT ITEMS				
ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATE	ACTUAL
680.05010007	360 DEGREE CAMERA VIDEO DETECTION SYSTEM	EA	1	



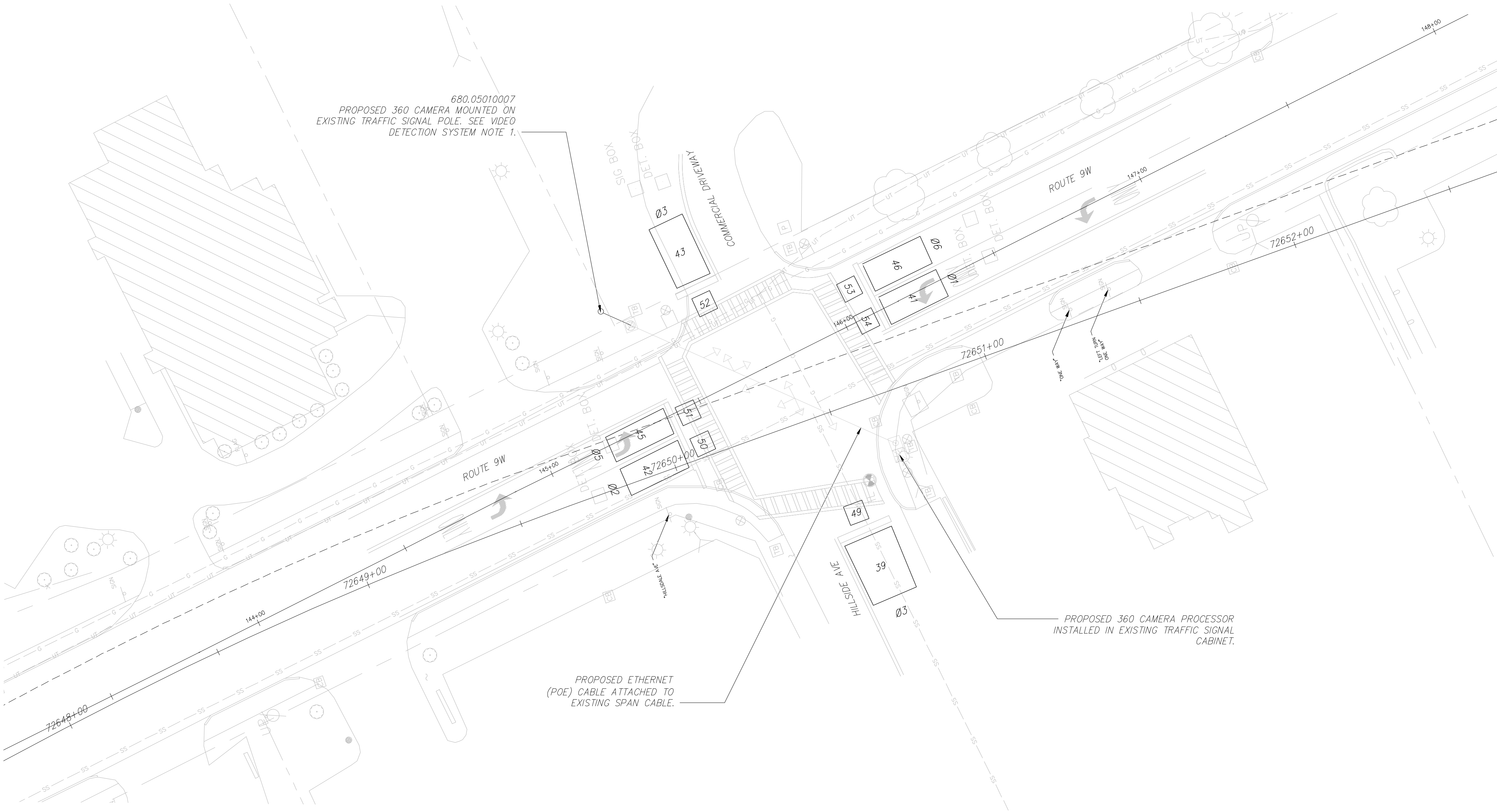
VIDEO DETECTION SYSTEM NOTES:

1. THE CONTRACTOR IS TO WORK WITH THE NYS DOT REGIONAL SIGNAL UNIT TO SET UP THE DETECTION ZONES IN THE FIELD
2. SEE DETAIL #XXX ON SHEET X-XX OF THE NYS DOT HIGHWAY WORK PERMIT PLAN SET FOR SPAN WIRE POLE MOUNTING
3. THE 360-DEGREE CAMERA VIDEO DETECTION SYSTEM SHALL CONSIST OF ONE FIXED 360-DEGREE VIEW VIDEO CAMERA, CONTROL UNIT, MOUNTING HARDWARE AND ALL NECESSARY CABLES.

NYS DOT TRAFFIC SIGNAL NOTES:

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SYMBOL	DESCRIPTION
	PULLBOX
	OVERHEAD SIGNAL WIRE
	UNDERGROUND CONDUIT
	PROPOSED 360 DEGREE CAMERA VIDEO DETECTION SYSTEM
	TRAFFIC SIGNAL CONTROLLER
	TRAFFIC SIGNAL POLE
	TRAFFIC SIGNAL HEAD
	SIGNAL MAST ARM
	COUNTING DETECTION ZONE
	PHASE DETECTION ZONE



A

B



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A	02/28/2023	PRELIMINARY PROGRESS	JS	RC	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
SIGNAL R-172
ROUTE 9W & HILLSIDE AVE
NON-INTRUSIVE DETECTION SYSTEM

KIEWIT PROJECT NO.		21162
DRAWING NO.		T-106
DRAWN BY:	DESIGNED BY:	APPROVED BY:
JS	JS	RC
SCALE	AS SHOWN	DATE
REV. NO.	A	SH.NO.
		6 OF 13

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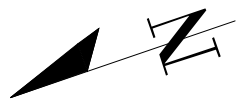
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NYSDOT ITEMS				
ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATE	ACTUAL
680.05010007	360 DEGREE CAMERA VIDEO DETECTION SYSTEM	EA	1	

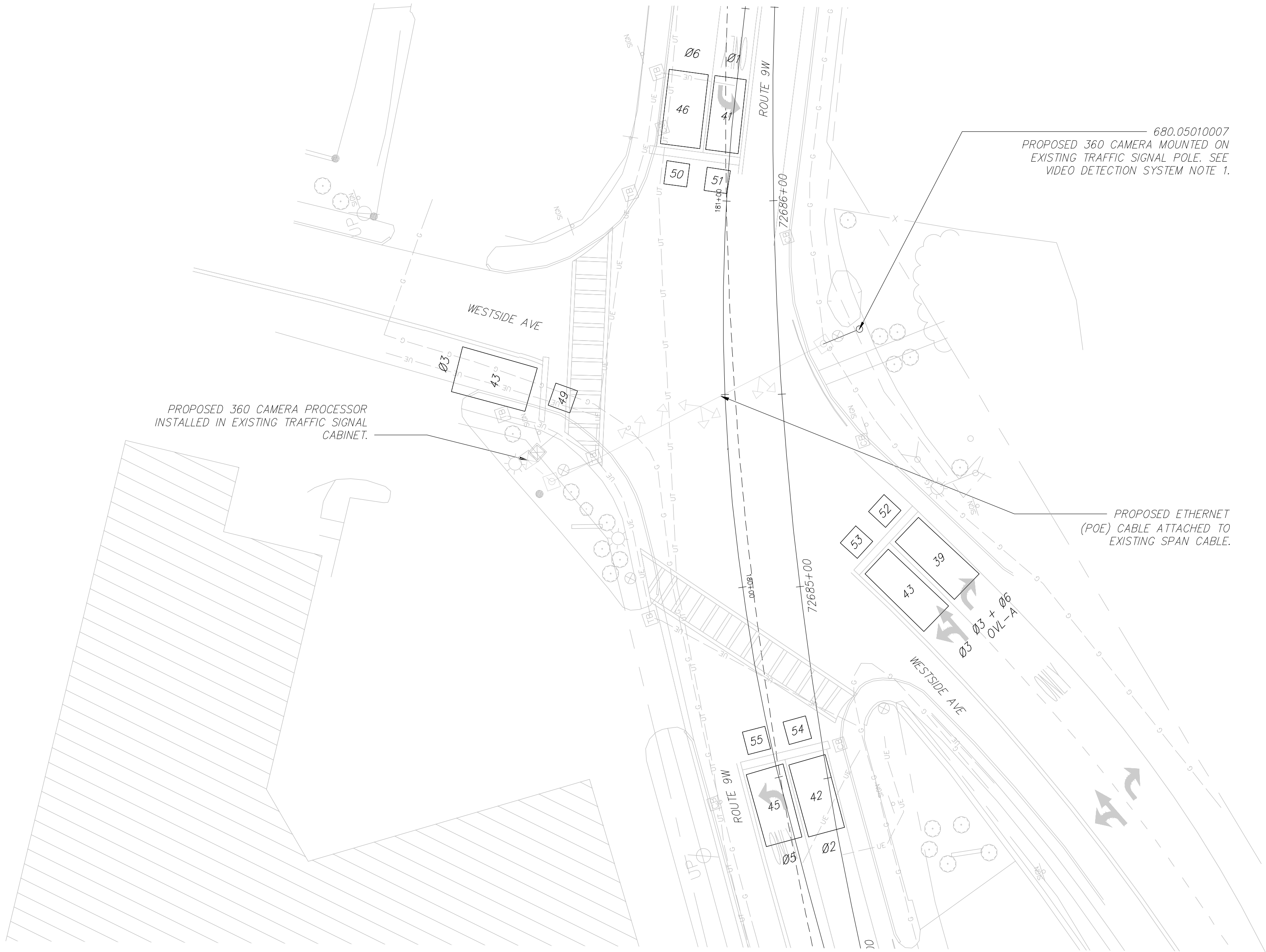


VIDEO DETECTION SYSTEM NOTES:

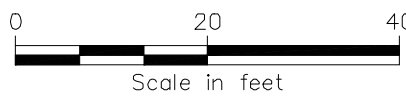
1. THE CONTRACTOR IS TO WORK WITH THE NYSDOT REGIONAL SIGNAL UNIT TO SET UP THE DETECTION ZONES IN THE FIELD
2. SEE DETAIL #XXX ON SHEET X-XX OF THE NYSDOT HIGHWAY WORK PERMIT PLAN SET FOR SPAN WIRE POLE MOUNTING
3. THE 360-DEGREE CAMERA VIDEO DETECTION SYSTEM SHALL CONSIST OF ONE FIXED 360-DEGREE VIEW VIDEO CAMERA, CONTROL UNIT, MOUNTING HARDWARE AND ALL NECESSARY CABLES.

NYSDOT TRAFFIC SIGNAL NOTES:

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SYMBOL	DESCRIPTION
	PULLBOX
	OVERHEAD SIGNAL WIRE
	UNDERGROUND CONDUIT
	PROPOSED 360 DEGREE CAMERA VIDEO DETECTION SYSTEM
	TRAFFIC SIGNAL CONTROLLER
	TRAFFIC SIGNAL POLE
	TRAFFIC SIGNAL HEAD
	SIGNAL MAST ARM
	COUNTING DETECTION ZONE
	PHASE DETECTION ZONE



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ISSUED FOR PERMITTING

A	02/28/2023	PRELIMINARY PROGRESS	JS	RC	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
SIGNAL R-6
ROUTE 9W & WESTSIDE AVE
NON-INTRUSIVE DETECTION SYSTEM

KIEWIT PROJECT NO.		21162
DRAWING NO.		T-107
DRAWN BY:	JS	DESIGNED BY: JS
APPROVED BY:	RC	SCALE AS SHOWN
DATE	02/28/2023	DATE
SH.NO.	7 OF 13	SH.NO.

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NYS DOT ITEMS				
ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATE	ACTUAL
680.05010007	360 DEGREE CAMERA VIDEO DETECTION SYSTEM	EA	1	



- VIDEO DETECTION SYSTEM NOTES:
1. THE CONTRACTOR IS TO WORK WITH THE NYS DOT REGIONAL SIGNAL UNIT TO SET UP THE DETECTION ZONES IN THE FIELD
 2. SEE DETAIL #XXX ON SHEET X-XX OF THE NYS DOT HIGHWAY WORK PERMIT PLAN SET FOR SPAN WIRE POLE MOUNTING
 3. THE 360-DEGREE CAMERA VIDEO DETECTION SYSTEM SHALL CONSIST OF ONE FIXED 360-DEGREE VIEW VIDEO CAMERA, CONTROL UNIT, MOUNTING HARDWARE AND ALL NECESSARY CABLES.

- NYS DOT TRAFFIC SIGNAL NOTES:
- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REPLACE ALL SIGNAL INTERCONNECT CABLE, DETECTOR CABLE, CONDUIT AND ALL UNDERGROUND ACCESSORY EQUIPMENT DAMAGED DURING CONSTRUCTION.
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SYMBOL	DESCRIPTION
	PULLBOX
	OVERHEAD SIGNAL WIRE
	UNDERGROUND CONDUIT
	PROPOSED 360 DEGREE CAMERA VIDEO DETECTION SYSTEM
	TRAFFIC SIGNAL CONTROLLER
	TRAFFIC SIGNAL POLE
	TRAFFIC SIGNAL HEAD
	SIGNAL MAST ARM
	COUNTING DETECTION ZONE
	PHASE DETECTION ZONE



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A	02/28/2023	PRELIMINARY PROGRESS	JS	RC	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
SIGNAL R-39
ROUTE 9W & NEW MAIN ST
NON-INTRUSIVE DETECTION SYSTEM

DRAWN BY:	JS	DESIGNED BY:	JS	APPROVED BY:	RC	SCALE	AS SHOWN	DATE	02/28/2023
						REV. NO.	A	SH.NO.	8 OF 13

KIEWIT PROJECT NO.	21162
DRAWING NO.	T-108

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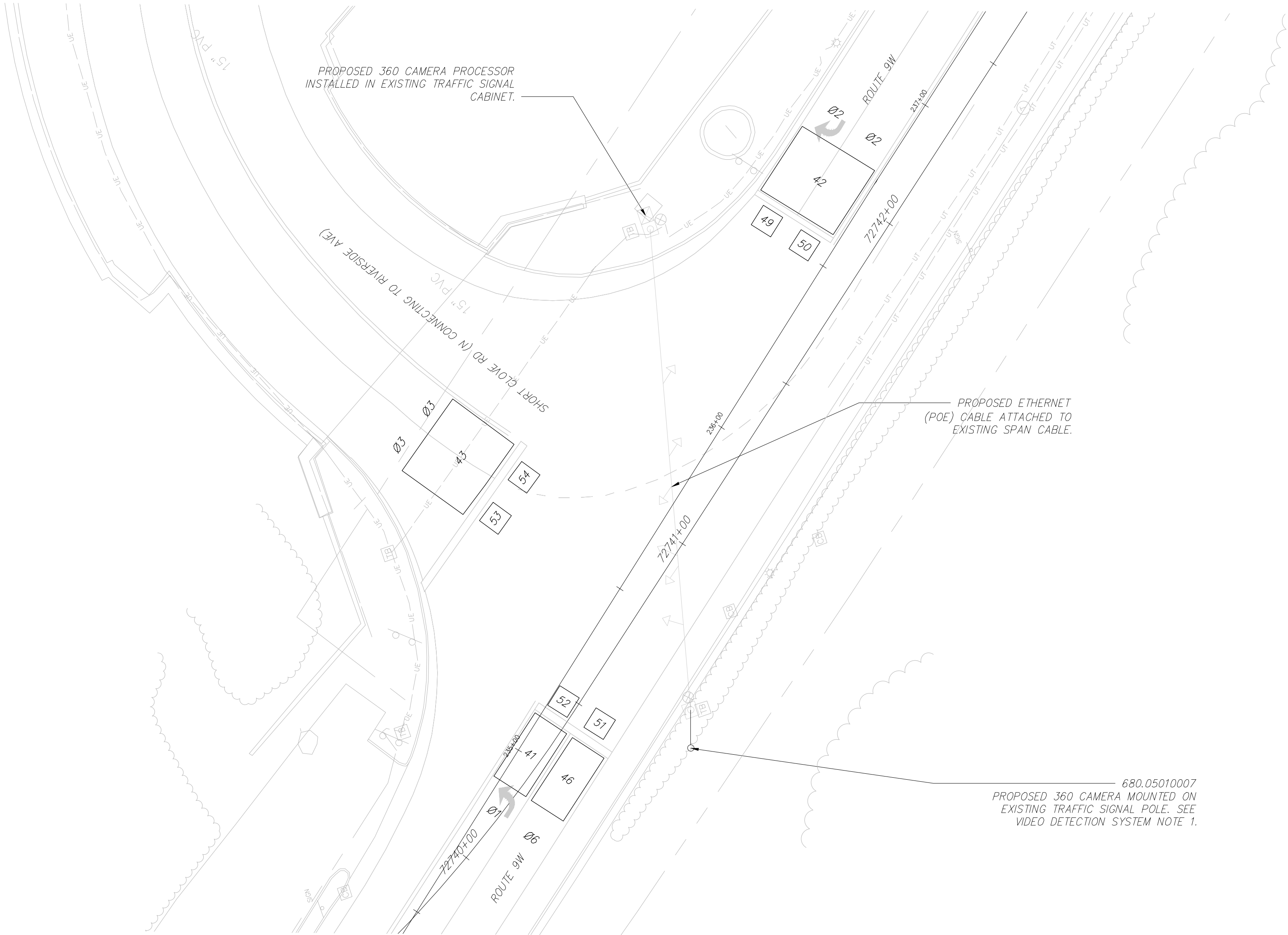
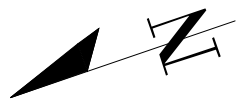
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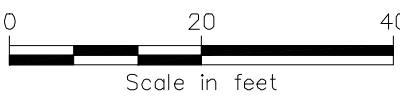
NYS DOT ITEMS				
ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATE	ACTUAL
680.05010007	360 DEGREE CAMERA VIDEO DETECTION SYSTEM	EA	1	



- VIDEO DETECTION SYSTEM NOTES:
1. THE CONTRACTOR IS TO WORK WITH THE NYS DOT REGIONAL SIGNAL UNIT TO SET UP THE DETECTION ZONES IN THE FIELD
 2. SEE DETAIL #XXX ON SHEET X-XX OF THE NYS DOT HIGHWAY WORK PERMIT PLAN SET FOR SPAN WIRE POLE MOUNTING
 3. THE 360-DEGREE CAMERA VIDEO DETECTION SYSTEM SHALL CONSIST OF ONE FIXED 360-DEGREE VIEW VIDEO CAMERA, CONTROL UNIT, MOUNTING HARDWARE AND ALL NECESSARY CABLES.

- NYS DOT TRAFFIC SIGNAL NOTES:
- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REPLACE ALL SIGNAL INTERCONNECT CABLE, DETECTOR CABLE, CONDUIT AND ALL UNDERGROUND ACCESSORY EQUIPMENT DAMAGED DURING CONSTRUCTION.
 - B. PRIOR TO STARTING ANY WORK AT THIS LOCATION, THE CONTRACTOR SHALL NOTIFY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION THAT A TONE-OUT OF SIGNAL EQUIPMENT IS NEEDED.
 - C. ALL TRAFFIC SIGNALS SHALL BE MAINTAINED IN A TRAFFIC RESPONSIVE OPERATION AND ALL INTERCONNECT, WHERE EXISTING, SHALL BE MAINTAINED.
 - D. THE CONTRACTOR SHALL PAY LIQUIDATED DAMAGES OF \$500.00 PER CALENDAR DAY IF ACTUATION AND COORDINATION IS NOT MAINTAINED.

SYMBOL	DESCRIPTION
	PULLBOX
	OVERHEAD SIGNAL WIRE
	UNDERGROUND CONDUIT
	PROPOSED 360 DEGREE CAMERA VIDEO DETECTION SYSTEM
	TRAFFIC SIGNAL CONTROLLER
	TRAFFIC SIGNAL POLE
	TRAFFIC SIGNAL HEAD
	SIGNAL MAST ARM
	COUNTING DETECTION ZONE
	PHASE DETECTION ZONE



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

ISSUED FOR PERMITTING

A	02/28/2023	PRELIMINARY PROGRESS	JS	RC	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
SIGNAL R-208
RT 9W & SHORT CLOVE RD (N CONNECTING TO RIVERSIDE AVE)
NON-INTRUSIVE DETECTION SYSTEM

KIEWIT PROJECT NO.		21162
DRAWING NO.		T-109
DRAWN BY:	JS	DESIGNED BY: JS
APPROVED BY:	RC	SCALE AS SHOWN
DATE	02/28/2023	SH.NO. 9 OF 13

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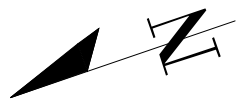
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NYS DOT ITEMS				
ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATE	ACTUAL
680.05010007	360 DEGREE CAMERA VIDEO DETECTION SYSTEM	EA	1	

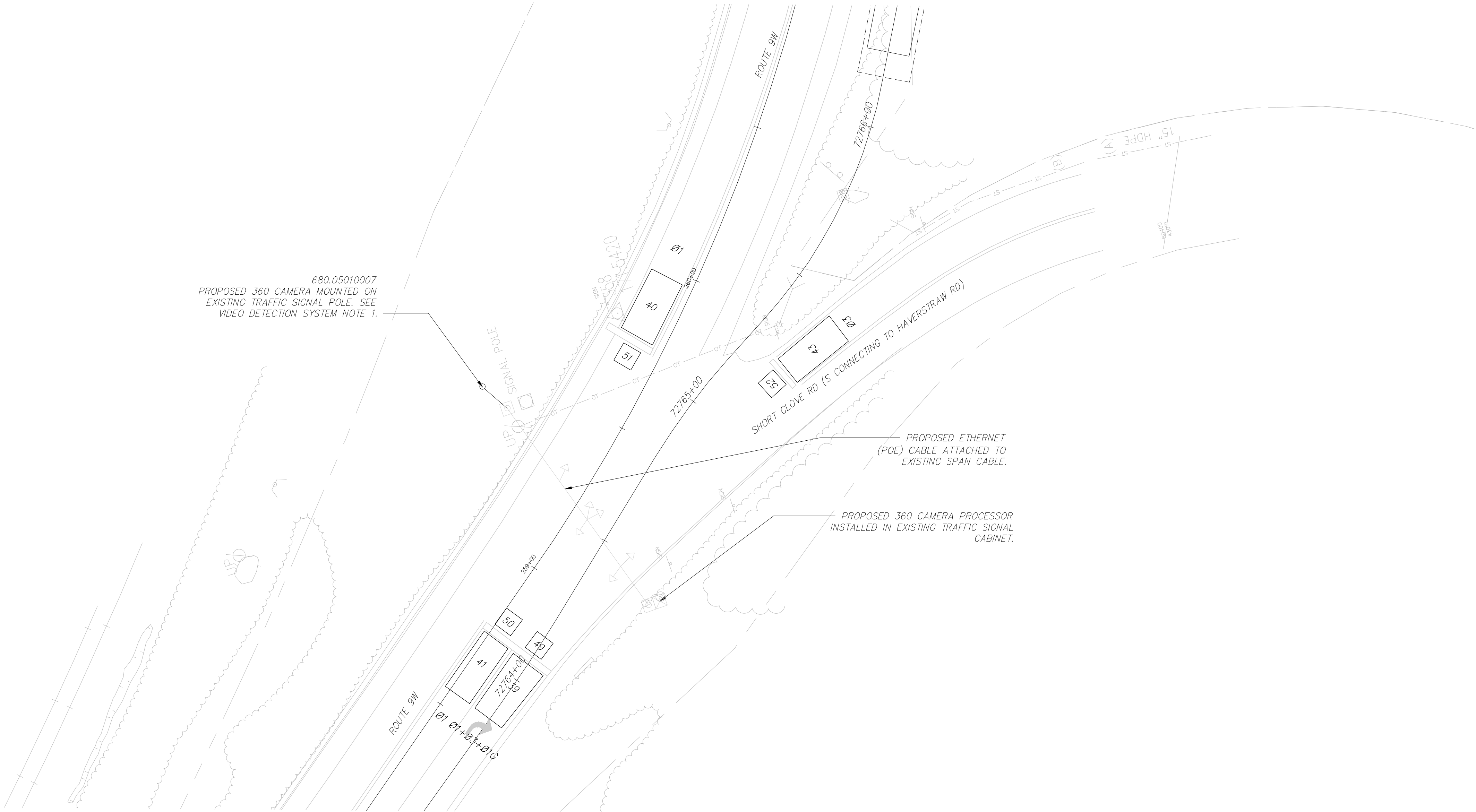


VIDEO DETECTION SYSTEM NOTES:

1. THE CONTRACTOR IS TO WORK WITH THE NYS DOT REGIONAL SIGNAL UNIT TO SET UP THE DETECTION ZONES IN THE FIELD
2. SEE DETAIL #XXX ON SHEET X-XX OF THE NYS DOT HIGHWAY WORK PERMIT PLAN SET FOR SPAN WIRE POLE MOUNTING
3. THE 360-DEGREE CAMERA VIDEO DETECTION SYSTEM SHALL CONSIST OF ONE FIXED 360-DEGREE VIEW VIDEO CAMERA, CONTROL UNIT, MOUNTING HARDWARE AND ALL NECESSARY CABLES.

NYS DOT TRAFFIC SIGNAL NOTES:

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REPLACE ALL SIGNAL INTERCONNECT CABLE, DETECTOR CABLE, CONDUIT AND ALL UNDERGROUND ACCESSORY EQUIPMENT DAMAGED DURING CONSTRUCTION.
- B. PRIOR TO STARTING ANY WORK AT THIS LOCATION, THE CONTRACTOR SHALL NOTIFY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION THAT A TONE-OUT OF SIGNAL EQUIPMENT IS NEEDED.
- C. ALL TRAFFIC SIGNALS SHALL BE MAINTAINED IN A TRAFFIC RESPONSIVE OPERATION AND ALL INTERCONNECT, WHERE EXISTING, SHALL BE MAINTAINED.
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ISSUED FOR PERMITTING

A	02/28/2023	PRELIMINARY PROGRESS	JS	RC	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
SIGNAL R-35
RT 9W & SHORT CLOVE RD (S CONNECTING TO HAVERSTRAW RD)
NON-INTRUSIVE DETECTION SYSTEM

KIEWIT PROJECT NO.		21162
DRAWING NO.		T-110
DRAWN BY:	JS	DESIGNED BY: JS
APPROVED BY:	RC	SCALE AS SHOWN
DATE	02/28/2023	SH.NO. 10 OF 13

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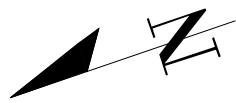
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NYS DOT ITEMS				
ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATE	ACTUAL
680.05010007	360 DEGREE CAMERA VIDEO DETECTION SYSTEM	EA	1	

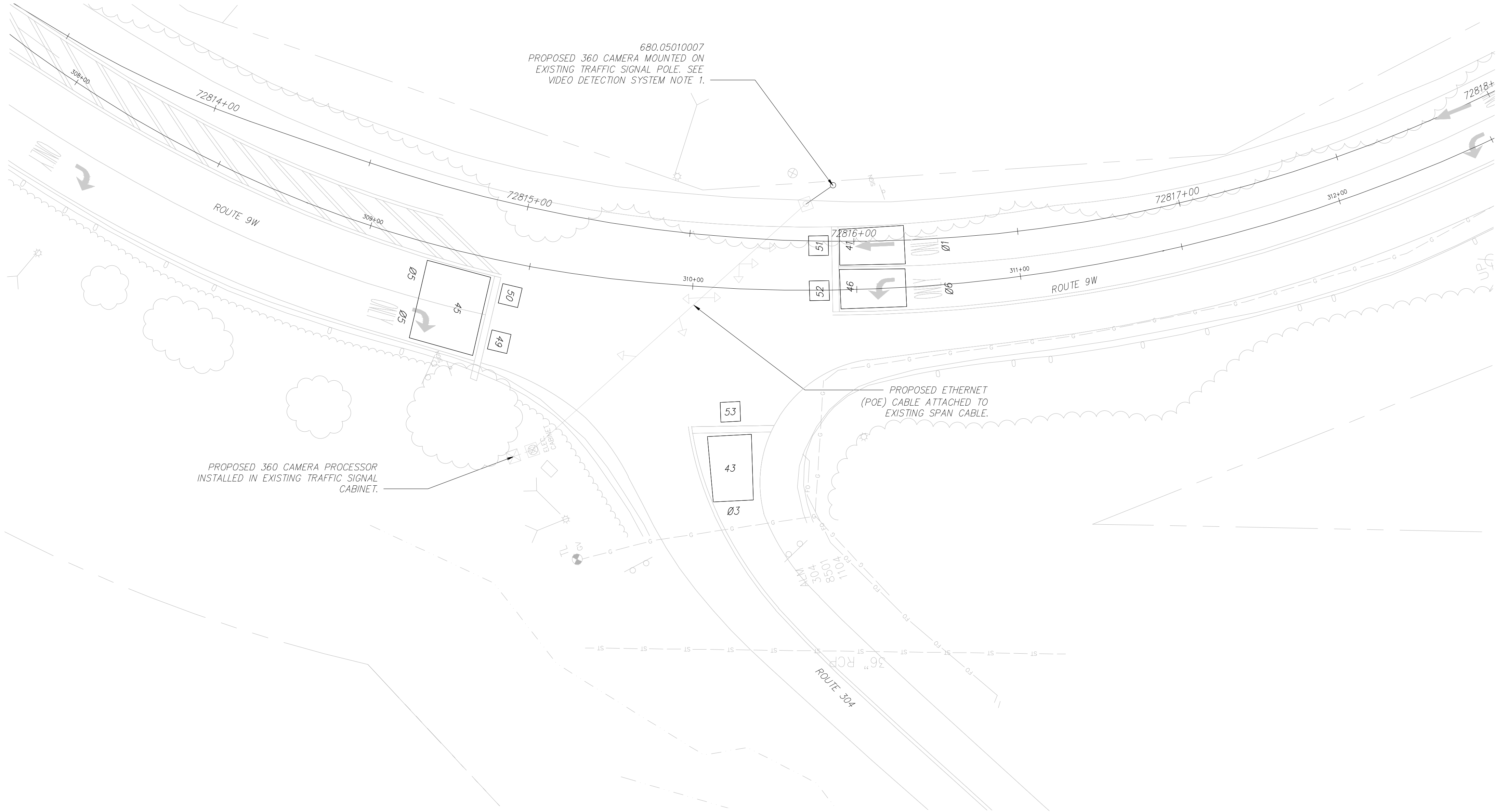


VIDEO DETECTION SYSTEM NOTES:

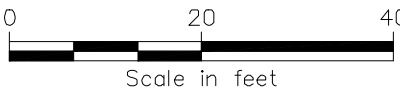
1. THE CONTRACTOR IS TO WORK WITH THE NYS DOT REGIONAL SIGNAL UNIT TO SET UP THE DETECTION ZONES IN THE FIELD
2. SEE DETAIL #XXX ON SHEET X-XX OF THE NYS DOT HIGHWAY WORK PERMIT PLAN SET FOR SPAN WIRE POLE MOUNTING
3. THE 360-DEGREE CAMERA VIDEO DETECTION SYSTEM SHALL CONSIST OF ONE FIXED 360-DEGREE VIEW VIDEO CAMERA, CONTROL UNIT, MOUNTING HARDWARE AND ALL NECESSARY CABLES.

NYS DOT TRAFFIC SIGNAL NOTES:

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REPLACE ALL SIGNAL INTERCONNECT CABLE, DETECTOR CABLE, CONDUIT AND ALL UNDERGROUND ACCESSORY EQUIPMENT DAMAGED DURING CONSTRUCTION.
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- D. THE CONTRACTOR SHALL PAY LIQUIDATED DAMAGES OF \$500.00 PER CALENDAR DAY IF ACTUATION AND COORDINATION IS NOT MAINTAINED.



SYMBOL	DESCRIPTION
	PULLBOX
	OVERHEAD SIGNAL WIRE
	UNDERGROUND CONDUIT
	PROPOSED 360 DEGREE CAMERA VIDEO DETECTION SYSTEM
	TRAFFIC SIGNAL CONTROLLER
	TRAFFIC SIGNAL POLE
	TRAFFIC SIGNAL HEAD
	SIGNAL MAST ARM
	COUNTING DETECTION ZONE
	PHASE DETECTION ZONE



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ISSUED FOR PERMITTING

A	02/28/2023	PRELIMINARY PROGRESS	JS	RC					
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP					

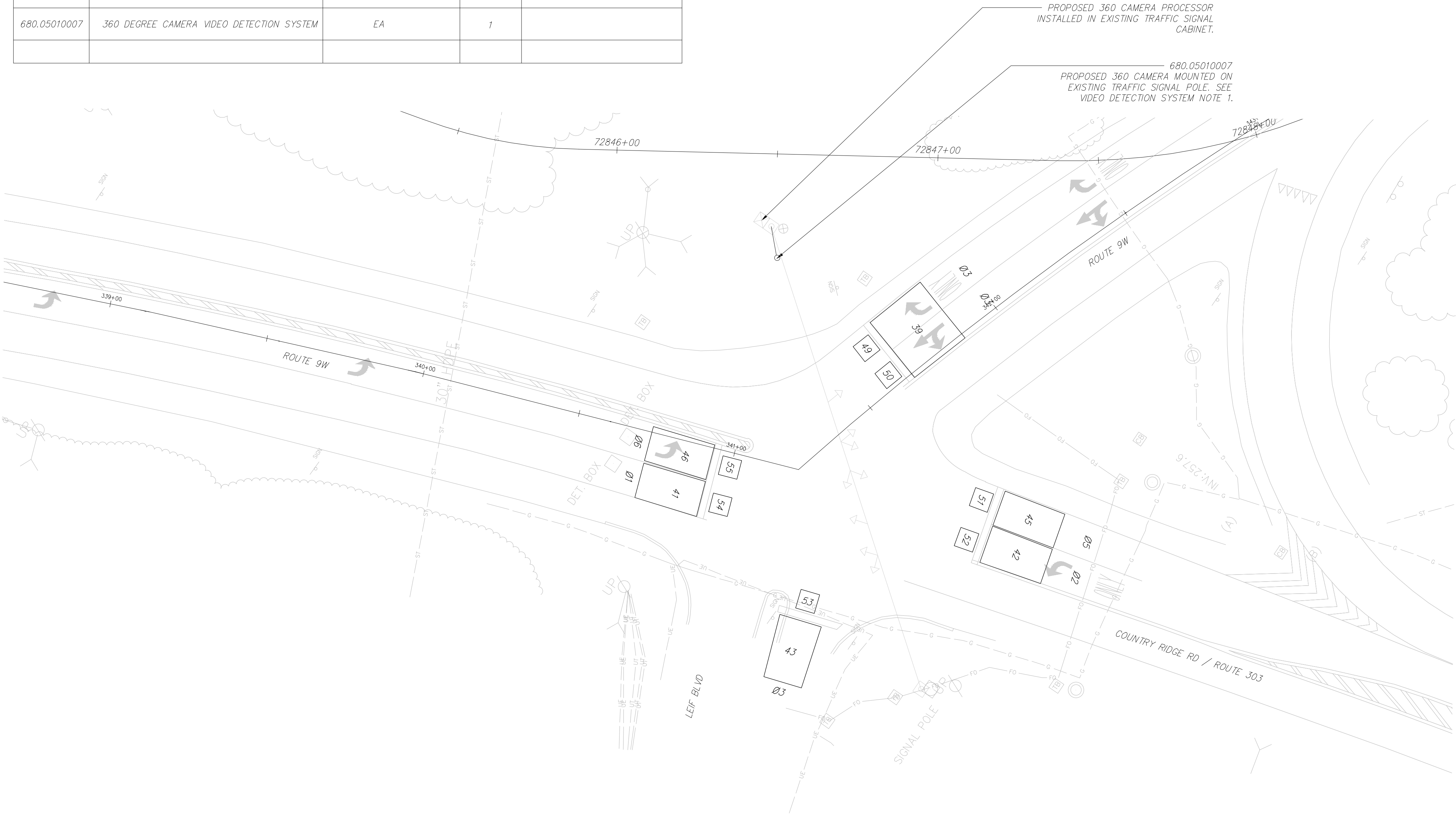
CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
SIGNAL R-98
ROUTE 9W & ROUTE 304
NON-INTRUSIVE DETECTION SYSTEM

KIEWIT PROJECT NO.	21162
DRAWING NO.	T-111
DATE	02/28/2023
SH.NO.	11 OF 13

DRAWN BY:	JS	DESIGNED BY:	JS	APPROVED BY:	RC	SCALE	AS SHOWN	DATE	02/28/2023
						REV. NO.	A	SH.NO.	11 OF 13

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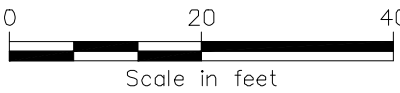
NYS DOT ITEMS				
ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATE	ACTUAL
680.05010007	360 DEGREE CAMERA VIDEO DETECTION SYSTEM	EA	1	



- VIDEO DETECTION SYSTEM NOTES:
1. THE CONTRACTOR IS TO WORK WITH THE NYS DOT REGIONAL SIGNAL UNIT TO SET UP THE DETECTION ZONES IN THE FIELD
 2. SEE DETAIL #XXX ON SHEET X-XX OF THE NYS DOT HIGHWAY WORK PERMIT PLAN SET FOR SPAN WIRE POLE MOUNTING
 3. THE 360-DEGREE CAMERA VIDEO DETECTION SYSTEM SHALL CONSIST OF ONE FIXED 360-DEGREE VIEW VIDEO CAMERA, CONTROL UNIT, MOUNTING HARDWARE AND ALL NECESSARY CABLES.

- NYS DOT TRAFFIC SIGNAL NOTES:
- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REPLACE ALL SIGNAL INTERCONNECT CABLE, DETECTOR CABLE, CONDUIT AND ALL UNDERGROUND ACCESSORY EQUIPMENT DAMAGED DURING CONSTRUCTION.
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 - D. THE CONTRACTOR SHALL PAY LIQUIDATED DAMAGES OF \$500.00 PER CALENDAR DAY IF ACTUATION AND COORDINATION IS NOT MAINTAINED.

SYMBOL	DESCRIPTION
	PULLBOX
	OVERHEAD SIGNAL WIRE
	UNDERGROUND CONDUIT
	PROPOSED 360 DEGREE CAMERA VIDEO DETECTION SYSTEM
	TRAFFIC SIGNAL CONTROLLER
	TRAFFIC SIGNAL POLE
	TRAFFIC SIGNAL HEAD
	SIGNAL MAST ARM
	COUNTING DETECTION ZONE
	PHASE DETECTION ZONE



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ISSUED FOR PERMITTING

A	02/28/2023	PRELIMINARY PROGRESS	JS	RC	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
SIGNAL R-164
ROUTE 9W & COUNTRY RIDGE RD/LEIF BLVD
NON-INTRUSIVE DETECTION SYSTEM

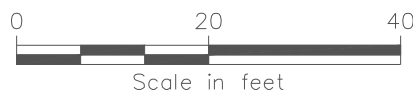
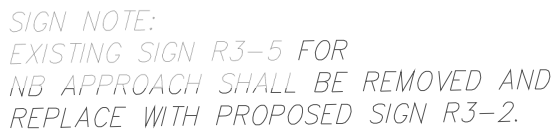
DRAWN BY:	JS	DESIGNED BY:	JS	APPROVED BY:	RC	SCALE	AS SHOWN	DATE	02/28/2023
						REV. NO.	A	SH. NO.	12 OF 13

T-112

1. THE CONTRACTOR IS TO WORK WITH THE NYSDOT REGIONAL SIGNAL UNIT TO SET UP THE DETECTION ZONES IN THE FIELD

2. SEE DETAIL #XX ON SHEET X-XX OF THE NYSDOT HIGHWAY WORK PERMIT PLAN SET FOR SPAN WIRE POLE MOUNTING

3. THE 360-DEGREE CAMERA VIDEO DETECTION SYSTEM SHALL CONSIST OF ONE FIXED 360-DEGREE VIEW VIDEO CAMERA, CONTROL UNIT, MOUNTING HARDWARE AND ALL NECESSARY CABLES.



A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REPLACE ALL SIGNAL INTERCONNECT CABLE, DETECTOR CABLE, CONDUIT AND ALL UNDERGROUND ACCESSORY EQUIPMENT DAMAGED DURING CONSTRUCTION.

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**ISSUED FOR
PERMITTING**

B	04/12/23	PRELIMINARY PROGRESS	MM	RC
A	02/28/23	PRELIMINARY PROGRESS	SM	RC
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
SIGNAL R-8
ROUTE 9W & RAILROAD AVE
TEMPORARY SIGNAL

KIEWIT PROJECT NO.
21162

DRAWING NO.

T-113

DATE	02/28/2023
SH.NO.	13 OF 13