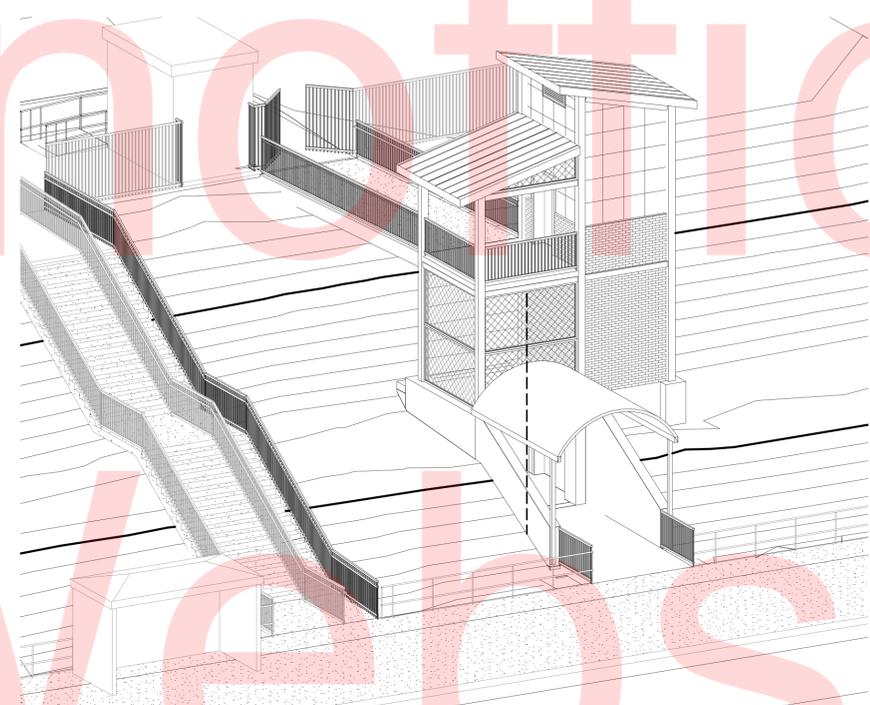


ABBREVIATIONS

ACT	ACOUSTIC CEILING	F.E.C.	FIRE EXTINGUISHER	PT., PTD.	PAINTED
AC.	ACOUSTIC	FIN.F., F.F.	FINISHED FLOOR	P.R.V.	POWER ROOF VENTILATOR
AL., ALUM.	ALUMINUM	F.O.F.S.	FACE OF STUD	R.D.	ROOF DRAIN
A.P.	ACCESS PANEL	FRP	FIREGLASS	REC.	RECESSED
A.R.GWB	ABUSE RESISTANT		REINFORCED PLASTIC	RECP.T.	RECEPTIONIST
	GWB	FTG.	FOOTING	REQD.	REQUIRED
A.F.F.	FLOOR FINISHED	FURR.	FURRING	R.L.	RAIN LEADER
	FLOOR	F.V.	FIELD VERIFY	RM.	ROOM
BD.	BOARD	FVC	FIRE VALVE CABINET	R.O.	ROUGH OPENING
BLDG.	BUILDING	GA.	GAUGE	RUB.	RUBBER (WALL BASE)
B.M.	BENCH MARK	G.B.	GRAB BAR	S.D.	SOAP DISPENSER
BRG.	BEARING	G.W.B., GWB	GYP.SUM WALL BOARD	SECT.	SECTION
CAB.	CABINET	GYP.BD.	GYP.SUM BOARD	S.G.F.T.	STRUCT. GLAZED
CB, C.B.	CHALKBOARD	H., HT.	HEIGHT	S.H.	SHOWER HEAD
C.T.	CERAMIC TILE	H.C.	HANDICAPPED	SHT.	SHEET
C.H.	CEILING HEIGHT	HDW.	HARDWARE	SIM.	SIMILAR
C.J., C.J.	CONTROL JOINT	H.M.	HOLLOW METAL	SIM.	SURFACE MOUNTED
	CENTER LINE	HR.	HOUR	S.M.	STAND PIPE
CLG.	CEILING	H.P.	HIGH POINT	S.P.	SERVICE SINK
CLO., C.	CLOSET	I.D.	INSIDE DIAMETER	S.S.	STAINLESS STEEL
CLR.	CLEAR	INSUL.	INSULATION	S/S	STEEL
C.M.U., CMU	CONCRETE	J., JAN.	JANITOR	STL.	STORAGE
	MASONRY UNIT	JST.	JOIST	STOR.	STRUCTURAL
COL.	COLUMN	JT.	JOINT	STRUC.T.	SUSPENDED
CONC.	CONCRETE	LAM.	LAMINATE	SUSP.	SYNTHETIC FLOOR
CONST.	CONSTRUCTION	LAV.	LOW POINT	SYN.FL.	TACKBOARD
CONT.	CONTINUOUS	L.P.	LAVATORY SINK	TB, T.B.	TELEPHONE
CORR.	CORRIDOR	M.	MEN	TEL.	TONGUE AND GROOVE
CPT.	CARPET	MACH.	MACHINE	T & G.	THRESHOLD
C.R.	COLD ROLLED	MAINT.	MAINTENANCE	MAS.	MASONRY
D.A.	DISTURBED AREA	MAT.	MATERIALS	T.O.B.	TOP OF BEARING
DET.	DETAIL	MAX.	MAXIMUM	T.O.M.	TOP OF MASONRY PARAPET
D.F.	DRINKING FOUNTAIN	MB, M.B.	MARKER BOARD	T.P.	TOILET PAPER HOLDER
DBL	DOUBLE	M.C.	MEDICINE CABINET	TACK STRIP.	TACK STRIP.
DIA.	DIAMETER	M.ECH.	MECHANICAL	TEACHING STATION	TEACHING WALL
DIM.	DIMENSION	MET., MTL.	METAL	TYP.	TYPICAL
DISP.	DISPENSER	MFR.	MANUFACTURER	U.L.	UNDERWRITERS
DR.	DOOR	MIN.	MINIMUM	LABORATORIES	
DRYWALL	DRYWALL	M.O.	MASONRY OPENING	U.O.N., U.N.O.	UNLESS OTHERWISE NOTED
DS	DOWNSPOUT	M.S.	METAL SHELVING	U.S.G.	U.S. GYPSUM COMPANY
DWG.	DRAWING	MTD	MOUNTED	V.A.T.	VINYL ASBESTOS TILE
EA	EACH	N.C., NONCOM.	NON COMBUSTIBLE	V.C.T.	VINYL COMPOSITION TILE
E.J., E.J.	EXTERIOR	N.I.C.	NOT IN CONTRACT	VERT.	VERTICAL
ELEC.	ELECTRIC WATER	NO., #	NUMBER	VEST., V.	VESTIBULE
	COOLER	N.T.S.	NOT TO SCALE	V.R.G.	VINYL REDUCING STRIP
EP	EPOXY PAINT	O.C.	ON CENTER	W.	WOMEN
EQ.	EQUIPMENT	O.D.	OUTSIDE DIAMETER	W/	WITH
EQUIP.	EQUIPMENT	OFF.	OFFICE	WAINSCOT	WARDROBE
E.W.C.	ELECTRIC	O.H.	OPPOSITE HAND	WB, W.B.	WHITE BOARD
EXG.	EXISTING	OPNG.	OPENING	W.C.	WATER CLOSET
EXP.	EXPANSION	PART.	PARTITION	WD.	WOOD
EXT.	EXTERIOR	PLAM, P-LAM	PLASTIC LAMINATE	WDR.	WARDROBE
F.C.	FIRE CODE	PLY., PWD	PLYWOOD	WL.	WALL
F.C.U.	FAN COIL UNIT	PNL.	PANEL	W.M.	WALL MOUNTED
F.D.	FLOOR DRAIN	PS., P.S.	PROJECTOR SCREEN	W.W.W.	WELDED WIRE MESH
FON.	FOUNDATION				
F.E.	FIRE EXTINGUISHER				

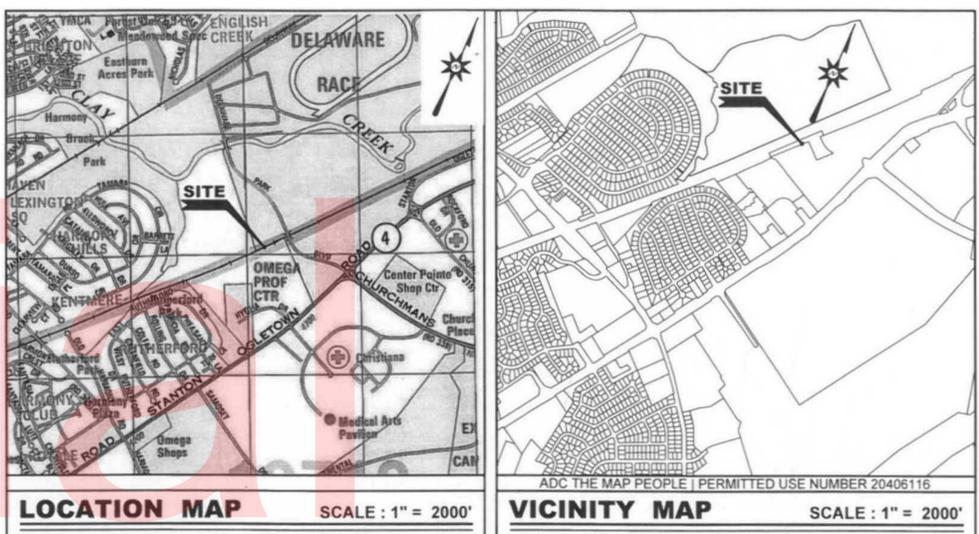
RENOVATIONS TO Churchman's Crossing Fairplay Station Elevator

New Castle County, DE



PS&E SUBMISSION
DELDOT CONTRACT NUMBER: T201253105
FEDERAL AID NUMBER: DE-90-X035
 12/15/2014

LOCATION MAP / VICINITY MAP



SYMBOLS OF MATERIALS

	ALL METALS-SMALL SCALE		PARTICLE BOARD
	ACOUSTIC C.M.U. SMALL SCALE		RIGID INSULATION
	ACOUSTIC C.M.U. LARGE SCALE		SHINGLES
	BATT INSULATION		SOLID CONCRETE MASONRY UNITS
	BRICK		STEEL-LARGE SCALE
	CAST STONE		STUD PARTITION
	CONCRETE		WOOD-FINISH
	CONCRETE MASONRY UNITS		WOOD BLOCKING
	EARTH		GLAZED C.M.U.
	GLASS-LARGE SCALE		

DRAWING KEYS

	STRUCTURAL GRID LINES		
	SECTION		ELEVATION
	DETAILS IN PLAN, SECTION		NEW WALL
	WALL TYPE, SEE A501		EXISTING WALL TO REMAIN
	ROOM NAME AND NUMBER		EXISTING WALL TO BE REMOVED
	WINDOW TAG		
	DOOR TAG		

GENERAL NOTES

PREPARED BY
 THE CONSULTING FIRM OF
 BECKER MORGAN GROUP

Wayne J. Sharp
 12/01/15
 RECOMMENDED DATE

LIST OF DRAWINGS

SHEET No.	SHEET TITLE	SHEET No.	SHEET TITLE
		23	PLAN DETAILS
V01	VARIANCE BUILDING SECTION	24	SECTION DETAILS
		25	SECTION DETAILS
GENERAL			
01	COVER SHEET		
02	CODE STUDY		
PLUMBING			
		26	PLUMBING PLAN
CIVIL			
03	CIVIL DEMOLITION PLAN	27	ELECTRICAL LEGEND AND ABBREVIATIONS
04	SITE PLAN / GRADING PLAN	28	ELECTRICAL POWER RISER DIAGRAM
05	EROSION & SEDIMENT CONTROL PLAN	29	ELECTRICAL DETAILS & SCHEDULES
06	CROSS SECTION A-A PROFILE	30	ELECTRICAL PLANS DEMOLITION
07	GENERAL CONSTRUCTION DETAILS	31	ELECTRICAL PLANS NEW WORK
STRUCTURAL			
08	FOUNDATION AND GUARDHOUSE LEVEL		
	FRAMING PLAN		
09	ROOF FRAMING PLAN		
10	FOUNDATION SECTIONS AND DETAILS		
11	GUARDHOUSE FLOOR FRAMING SECTIONS		
12	FOUNDATION SECTIONS		
13	GENERAL NOTES AND SECTIONS		
14	SPECIAL INSPECTIONS SCHEDULES		
ARCHITECTURAL			
15	DEMOLITION PLAN		
16	FLOOR PLANS		
17	ROOF PLAN		
18	NORTH AND SOUTH ELEVATIONS		
19	EAST ELEVATION		
20	WEST ELEVATION		
21	BUILDING SECTIONS		
22	BUILDING SECTIONS		

ADDENDUMS / REVISIONS		
1	01/25/2013	90% SUBMISSION
2	12/15/2014	PS&E Submission
3	11/16/2015	Construction Plans

CONTRACT	BRIDGE NO.	N/A
T201253105	DRAWN BY:	BLH
COUNTY	CHECKED BY:	WJS
NEW CASTLE		

SHEET NO.	01
TOTAL SHTS.	31

CODE STUDY DATA	
(WHEN ONLY ONE SOURCE IS NOTED, THE DATA LISTED REPRESENTS THE MOST STRINGENT REQUIREMENTS WHEN COMPARING THE TWO CODES)	
PROJECT	INFORMATION
PROJECT NAME	CHURCHMAN'S CROSSING FAIRPLAY STATION ELEVATOR
PROJECT LOCATION	FAIRPLAY STATION, CHRISTIANA, DE
PROJECT DESCRIPTION	NEW CONSTRUCTION
PROPERTY TAX ACCOUNT NUMBER	0901700070

APPLICABLE CODES	
2006 INTERNATIONAL BUILDING CODE (IBC)	
2012 NFPA 101 LIFE SAFETY CODE (NFPA)	
2003 ICC/ANSI A117.1 ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES	
2010 ADA STANDARD FOR ACCESSIBLE DESIGN	
DELAWARE ACCESSIBILITY CODE	

BUILDING USE AND CONSTRUCTION CLASSIFICATION		
BUILDING USE AND CONSTRUCTION CLASSIFICATION	LIFE SAFETY CODE REFERENCE	IBC REFERENCE
USE GROUPS (MIXED - SEPARATED)	NEW ASSEMBLY	ASSEMBLY A-3 (303.1)
CONSTRUCTION TYPE	II-000 (TABLE A-8.2.1.2)	II-B (TABLE 503 AND 601)
ALLOWABLE BLDG HEIGHT		55', 2 STORIES (TABLE 503 W/ 504.2)
ACTUAL BLDG HEIGHT		34'-6", 2 STORIES
ALLOWABLE BLDG AREA / OCCUPANCY		15,500 GSF/FLOOR
ACTUAL BLDG AREA / OCCUPANCY		

BUILDING COMPONENT FIRE RATING						
TABULAR FIRE RATING REQUIREMENTS OF STRUCTURAL ELEMENTS AND EGRESS COMPONENTS	REQUIRED RATING		LIFE SAFETY 2006 TYPE II-000 CONSTRUCTION	REQUIRED RATING		IBC 2009 II-B CONSTRUCTION
	WALL (HRS)	OPNG (HRS) - D (door) / W (window)		WALL (HRS)	OPNG (HRS)	
EXTERIOR BEARING WALLS - Supporting Roof 20' A.F.F.	N/A	N/A	NFPA 5000 - 7.2.3.2.8	N/A	N/A	TABLE 601 - NOTE b
supporting more than one floor	N/A	N/A	TABLE A.8.2.1.2 & TABLE 8.3.4.2 & TABLE 7.3.2.1	N/A	N/A	TABLES 601 & 602 & 704.8
support one floor only	N/A	N/A	TABLE A.8.2.1.2 & TABLE 8.3.4.2 & TABLE 7.3.2.1	N/A	N/A	TABLES 601 & 602 & 704.8
supporting a roof only	N/A	N/A	TABLE A.8.2.1.2 & TABLE 8.3.4.2 & TABLE 7.3.2.1	N/A	N/A	TABLES 601 & 602 & 704.8
EXTERIOR NON-BEARING WALLS	0	0	TABLE A.8.2.1.2 & TABLE 7.3.2.1	0	0	TABLES 601 & 602 & 704.8
VERTICAL EXIT ENCLOSURES	N/A	N/A	8.6.5 & TABLE 8.3.4.2	N/A	N/A	SECTION 704.4 & 1019.1 & T715.3
SHAFT ENCLOSURES	N/A	N/A	8.6.5 & TABLE 8.3.4.2	0	0	SECTION 707
CORRIDORS	N/A	N/A	7.1.3.1(1)	N/A	N/A	TABLE 1016.1
SMOKE BARRIERS	N/A	N/A	8.5.1, & TABLE 8.3.4.2	N/A	N/A	SECTION 710, TABLE 715.4
INTERIOR BEARING WALLS - Supporting Roof 20' A.F.F.	N/A	N/A	NFPA 5000 - 7.2.3.2.8	N/A	N/A	TABLE 601
supporting more than one floor	N/A	N/A	TABLE A.8.2.1.2 & TABLE 8.3.4.2	N/A	N/A	TABLE 601
supporting one floor only	N/A	N/A	TABLE A.8.2.1.2 & TABLE 8.3.4.2	N/A	N/A	TABLE 601
supporting a roof only	N/A	N/A	TABLE A.8.2.1.2 & TABLE 8.3.4.2	N/A	N/A	TABLE 601
INTERIOR NON-BEARING PARTITIONS	0	0	TABLE A. 8.2.1.2	0	0	TABLE 601
STRUCTURAL FRAME - Supportin Roof 20' A.F.F.	0	0	NFPA 5000 - 7.2.3.2.8	0	0	TABLE 601
COLUMNS - supporting more than one floor	0	0	TABLE A. 8.2.1.2	0	0	TABLE 601
COLUMNS - supporting one floor only	N/A	N/A	TABLE A. 8.2.1.2	N/A	N/A	TABLE 601
COLUMNS - supporting a roof only	N/A	N/A	TABLE A. 8.2.1.2	N/A	N/A	TABLE 601
BEAMS, GIRDERS, TRUSSED, ARCHES - Supporting Roof 20' A.F.F.	0	0	NFPA 5000 - 7.2.3.2.8	0	0	TABLE 601
supporting more than one floor	N/A	N/A	TABLE A. 8.2.1.2	N/A	N/A	TABLE 601
supporting one floor only	N/A	N/A	TABLE A. 8.2.1.2	N/A	N/A	TABLE 601
supporting a roof only	N/A	N/A	TABLE A. 8.2.1.2	N/A	N/A	TABLE 601
FLOOR-CEILING ASSEMBLIES	0	0	TABLE A. 8.2.1.2	0	0	TABLE 601
ROOF-CEILING ASSEMBLIES	0	0	TABLE A. 8.2.1.2	0	0	TABLE 601
ROOF-CEILING ASSEMBLIES - 20' A.F.F.	0	0	NFPA 5000 - 7.2.3.2.8	0	0	TABLE 601

TRAVEL DISTANCE LIMITS		
TRAVEL DISTANCE LIMITS	LIFE SAFETY	IBC
MAXIMUM TRAVEL DISTANCE LIMIT TO AN EXIT OR EXIT ACCESS DOOR	300' (B) / 250' (F-2) (TABLE A.7.6)	300' (B) / 400' (F-2) (TABLE 1015.1)
MAXIMUM COMMON PATH OF TRAVEL LIMIT	100' (TABLE A.7.6)	100' (1013.3 EXCEPTION 1)
MAXIMUM DEAD END CORRIDOR LIMIT	50' (TABLE A.7.6)	50' (1016.3 EXCEPTION 2)

MINIMUM NUMBER OF EXIT REQUIRED		
	LIFE SAFETY	IBC
FLOOR AREA OCCUPANCY LOAD BETWEEN 1 AND 500	-	2 EXITS (1018.1)
MINIMUM NUMBER OF EXITS PER STORY	2 EXITS (7.4.1.1 AND 39.2.4.1)	-
MINIMUM NUMBER OF ACCESSIBLE ENTRANCES/EXITS	1 (7.5.4.1.1 & 7.5.4.2.2)	1 (1007.1 EXCEPTION 1 & 1105.1)



DELAWARE
DEPARTMENT OF
TRANSPORTATION

ADDENDUMS / REVISIONS		
1	01/25/2013	90% SUBMISSION
2	12/15/2014	PS&E Submission
3	11/16/2015	Construction Plans

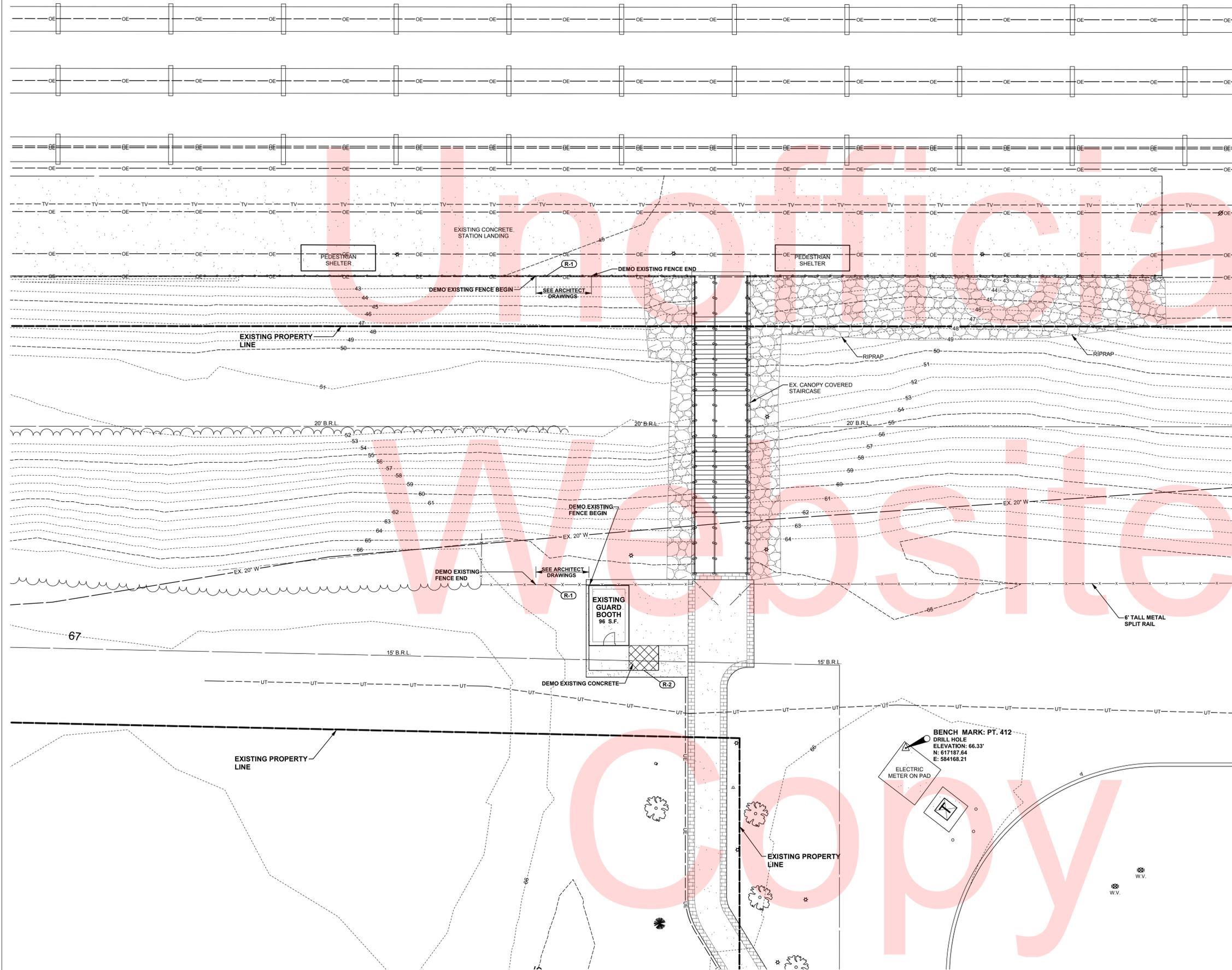
SCALE:

Churchman's Crossing Fairplay
Station Elevator

CONTRACT	BRIDGE NO.	N/A
T201253105	DRAWN BY:	BLH
COUNTY	CHECKED BY:	WJS
NEW CASTLE		

CODE STUDY

SHEET NO.	02
TOTAL SHTS.	31



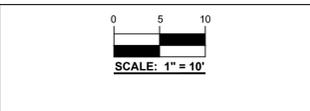
- GENERAL NOTES FOR DELDOT**
- THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", DATED AUGUST 2001, INCLUDING ALL REVISIONS UP TO DATED OF ADVERTISEMENT.
 - STAGING AREAS - PROPER EROSION AND SEDIMENT CONTROL MEASURES AS DETERMINED BY THE ENGINEER SHALL BE INSTALLED IN ALL STAGING AREAS. ALL AREAS USED BY CONTRACTOR FOR STAGING OPERATIONS SHALL BE FULLY RESTORED BY THE CONTRACTOR UPON COMPLETION OF THE CONTRACT. IF THE STAGING AREA IS PAVED, IT SHALL BE RESTORED TO ITS ORIGINAL CONDITION. IF THE AREA IS UNPAVED, IT SHALL BE RE-GRADED, TOPSOILED, SEEDED AND MULCHED IN ACCORDANCE WITH DELAWARE STANDARD SPECIFICATIONS 732, 734 AND 735. FOR TOPSOIL, SEED AND MULCH RESPECTIVELY TO THE SATISFACTION OF THE ENGINEER. THE SEED SHALL ADHERE TO THE SPECIFICATIONS OF SECTION 734 FOR PERMANENT GRASS SEEDING - DRY GROUND. ALL COST ASSOCIATED WITH RESTORATION OF THE STAGING AREA SHALL BE AT CONTRACTOR'S EXPENSE. IF THE ENGINEER DETERMINES THAT A SATISFACTORY STAND GRASS DOES NOT EXIST AT THE TIME OF FINAL INSPECTION, ALL COSTS ASSOCIATED WITH REESTABLISHING A SATISFACTORY STAND GRASS SHALL BE AT THE CONTRACTOR'S EXPENSE.
 - THE DISTURBED AREA FOR PROJECT IS 3.168 S.F. ± 0.073 AC.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO THE CONSTRUCTION SITE POLLUTION PREVENTION SPECIFICATIONS AS DETAILED IN SECTION 3.6 OF THE "DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK". ALL COSTS ASSOCIATED WITH ADHERING TO THE STANDARDS SHALL BE INCIDENTAL TO THE OVERALL CONTRACT COSTS.
 - THE EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN APPROVED BY DELDOT'S STORMWATER ENGINEER UNDER DELDOT'S DELEGATED AUTHORITY. THE EROSION AND SEDIMENT CONTROL PLAN ARE VALID FOR A THREE YEAR PERIOD, BEGINNING BEGINNING ON THE DATE THE STORMWATER ENGINEER SIGNED THE CONSTRUCTION TITLE SHEET. IF THE FINAL ACCEPTANCE OF THE PROJECT IS ANTICIPATED TO EXCEED BEYOND THE THREE YEARS, THE CONTRACTOR SHALL INFORM THE ENGINEER THREE MONTHS PRIOR TO EXPIRATION OF THE EROSION AND SEDIMENT CONTROL PLAN APPROVAL. DELDOT WILL REVIEW THE CURRENT EROSION AND SEDIMENT CONTROL PLAN AND ISSUE AN EXTENSION WITH ANY APPROPRIATE MODIFICATIONS.
 - THE EXISTING UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION. COMPLETENESS OR CORRECTNESS THEREOF IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANIES INVOLVED IN ORDER TO SECURE THE MOST ACCURATE INFORMATION AVAILABLE AS TO UTILITY LOCATION AND ELEVATION. NO CONSTRUCTION AROUND OR ADJACENT TO UTILITIES SHALL BEGIN WITHOUT NOTIFYING THEIR OWNERS AT LEAST TWO WORKING DAYS (48 HOURS) IN ADVANCE. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE AND ANY DAMAGE DONE TO THEM DUE TO HISHER NEGLIGENCE SHALL BE IMMEDIATELY AND COMPLETELY REPAIRED AT THE CONTRACTOR'S EXPENSE. TO LOCATE EXISTING UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT MISS UTILITY OF DELMARVA THREE (3) CONSECUTIVE WORKING DAYS PRIOR TO EXCAVATION. AT 1-800-282-8555.
 - ALL EXCESS EXCAVATED TOP SOIL AND/OR BORROW GENERATED UNDER ITEM 202000 SHALL BE STOCKPILED ON SITE AT A LOCATION DETERMINED BY DELDOT.

- GENERAL NOTES:**
- TOPOGRAPHIC SURVEY SHOWN HEREON WAS PREPARED BY BECKER MORGAN GROUP, DOVER, DELAWARE IN APRIL 2012. VERTICAL DATUM IS BASED ON N.A.V.D. 88.
 - THE EXISTING UTILITIES SHOWN WERE TAKEN FROM THE BEST AVAILABLE RECORDS. THE CONTRACTOR SHALL CONTACT MISS UTILITY OF DELMARVA (1-800-282-8555) TO VERIFY THEIR EXACT LOCATION PRIOR TO THE START OF ANY CONSTRUCTION. ANY DAMAGE INCURRED TO ANY UTILITIES SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. IF THE CONTRACTOR RELIES ON THE UTILITY LOCATIONS SHOWN HEREON, HE DOES SO AT HIS OWN RISK AND WILL NOT BE ENTITLED TO ADDITIONAL COMPENSATION DUE TO TIME DELAYS FROM SAID RELIANCE.
 - ALL ROADS, PARKING AND OTHER PAVED AREAS WILL BE PRIVATELY OWNED AND MAINTAINED AND ARE NOT INTENDED FOR DEDICATION.
 - DELAWARE REGULATIONS PROHIBIT THE BURIAL OF CONSTRUCTION DEMOLITION DEBRIS, INCLUDING TREES AND STUMPS ON CONSTRUCTION SITES. ANY SOLID WASTE FOUND DURING EXCAVATION MUST BE REMOVED AND PROPERLY DISCARDED.
 - ALL ACCESSIBLE PARKING DEMARCATION, STALLS, RAMPS, AND BUILDING ACCESSIBLE ROUTES SHALL COMPLY WITH THE "AMERICAN WITH DISABILITIES ACT".
 - THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENT FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERE TO APPURTENANT.

- DEMOLITION CONSTRUCTION NOTES**
- R-1 DEMOLISH EXISTING FENCE AT LOCATIONS SHOWN.
 - R-2 REMOVE EXISTING CONCRETE / BITUMINOUS PAVEMENT.

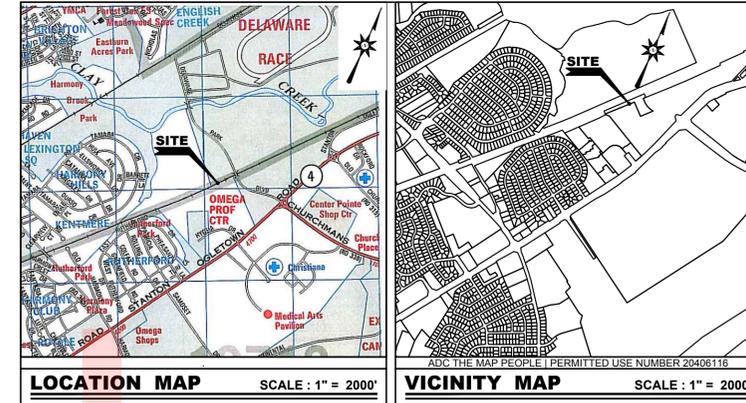
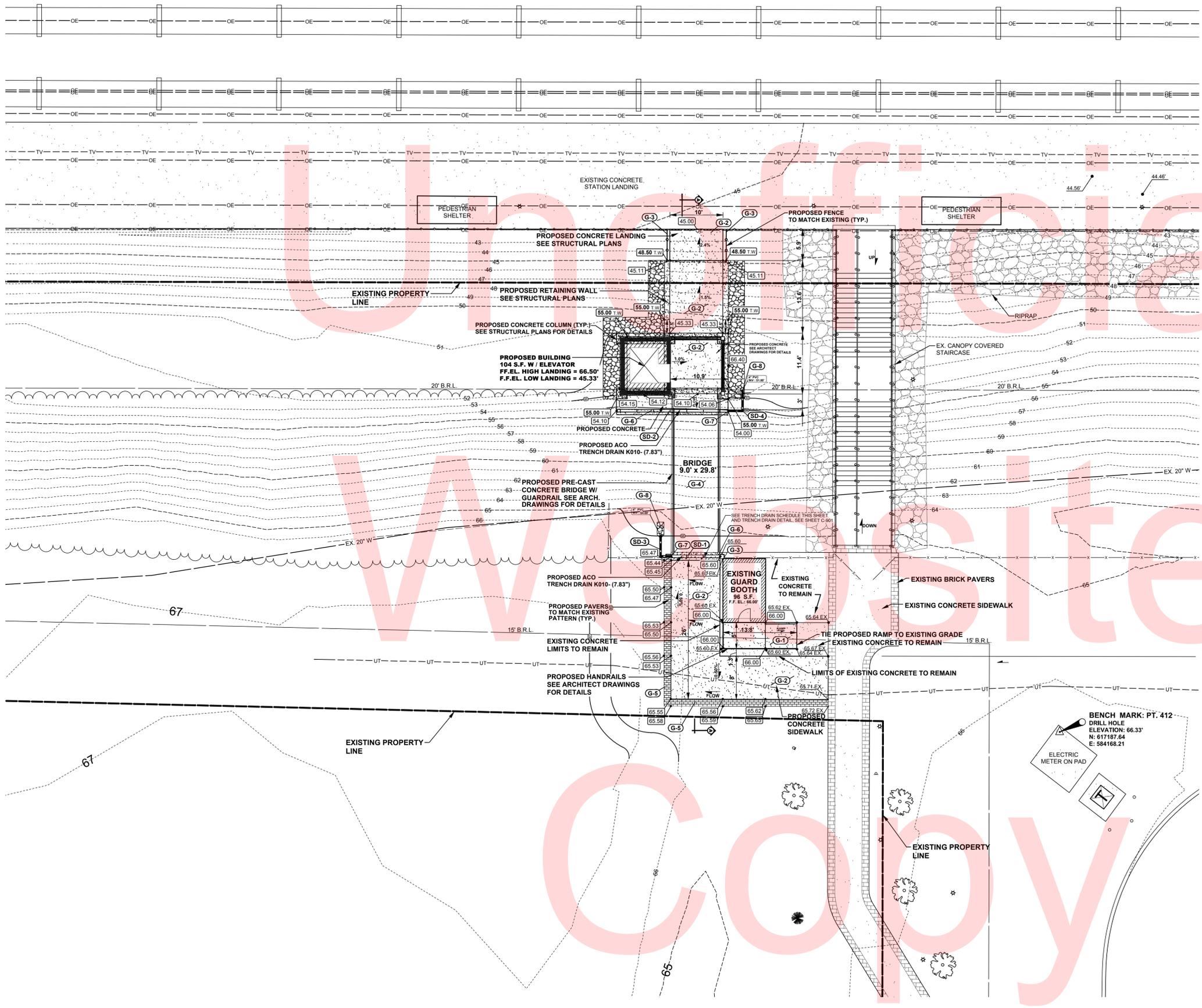
ITEM	EXISTING
SANITARY GRAVITY SEWER LINE, SIZE & FLOW DIRECTION	EX. 8" S
SANITARY SEWER FORCE MAIN, SIZE & FLOW DIRECTION	EX. 4" FM
SANITARY SEWER MANHOLE (S.M.H.)	IP.C.O.
SANITARY SEWER CLEANOUT	EX. 6" W
WATER MAIN & SIZE	F.H.
FIRE HYDRANT	W.M. W.V.
WATER VALVE (W.V.) OR METER (W.M.)	W.V.
STORM DRAIN MANHOLE (S.D.M.H.)	
STORM DRAIN LINE (CMP OR RCP)	
CATCH BASIN	
UTILITY POLE W/ OVERHEAD SERVICE (TELEPHONE OR ELECTRIC OR BOTH)	
UNDERGROUND ELECTRIC	UE
UNDERGROUND TELEPHONE	UT
UNDERGROUND GAS MAIN	6" G
PAVEMENT TO BE REMOVED	N/A
CONCRETE CURB & GUTTER	
CONCRETE SIDEWALK, SLAB / PAVING	
IMPERVIOUS SURFACED ROAD, DRIVE OR LOT	
INDIVIDUAL TREE OR BUSH	EVERGREEN DECIDUOUS
FENCE	
STRUCTURE (CONCRETE, WOOD, METAL, ETC.)	
DRAINAGE DITCH OR SWALE	
EMBANKMENT SIDESLOPES (DOWN)	
CONTOUR	49
ELEVATION SPOT SHOT	49.75
BENCH MARK	
PROPERTY OR RIGHT-OF-WAY LINE	
FENCE	X X X
CONCRETE MONUMENT	CMFD
IRON ROD	IPFD
LIGHT POLE	*
CONCRETE TO BE REMOVED	
EXISTING RIP-RAP / STONE	
EXISTING PAVERS	

ADDENDUMS / REVISIONS		
1	01-25-2013	90% SUBMISSION
2	12-15-2014	PS&E SUBMISSION
3	11-16-2015	CONSTRUCTION PLANS



Churchman's Crossing Fairplay Station Elevator

CONTRACT	BRIDGE NO.	N/A
T200507303	DRAWN BY:	V.V.
COUNTY	CHECKED BY:	G.E.J.
SUSSEX		



SITE DATA

- OWNER OF RECORD: DELAWARE RACING ASSOCIATION, 2701 KIRKWOOD HIGHWAY, NEWARK, DE 19711; STATE OF DELAWARE, 800 BAY ROAD, DOVER, DE 19901
- PROPERTY ADDRESS: DELAWARE PARK, 1 FAIRPLAY BOULEVARD, NEWARK, DE 19711
- ENGINEER / SURVEYOR: BECKER MORGAN GROUP INC., 309 SOUTH GOVERNORS AVENUE, DOVER, DE 19904 (302) 734-7950 PHONE (302) 734-7965 FAX
- PROPERTY MAP NUMBER: PARCEL: 0901800001 AND 0901700070
- ZONING CLASSIFICATION: EXISTING: EXEMPT COMMERCIAL & RESIDENTIAL; PROPOSED: EXEMPT COMMERCIAL & RESIDENTIAL
- PRESENT USE: EXEMPT COMMERCIAL
- PROPOSED USE: SAME AS ABOVE
- TOTAL SITE AREA: 3.48 ACRES
- EXISTING BUILDING: BUILDING: 96 S.F.

- GENERAL CONSTRUCTION NOTES**
- G-1 CONSTRUCT 5' WIDE ACCESSIBLE RAMP. SEE ARCHITECTURAL DRAWINGS FOR DETAILS.
 - G-2 INSTALL 4" THICK CONCRETE SIDEWALK AREA AS SHOWN. SEE DETAIL SHEET NO. 7.
 - G-3 INSTALL FENCE AS SHOWN, FENCE TO MATCH EXISTING (6 FT. HIGH ALUMINUM FENCE, COLOR WHITE).
 - G-4 INSTALL PROPOSED BRIDGE. SEE ARCHITECTURAL & STRUCTURAL DRAWINGS FOR DETAILS.
 - G-5 INSTALL BRICK PAVERS ON THE EDGES AND CONCRETE SIDEWALK IN THE MIDDLE OF WALKWAY TO MATCH EXISTING PATTERN. SEE SHEET NO. 7.
 - G-6 INSTALL ACO TRENCH DRAIN SYSTEM PER MANUFACTURERS RECOMMENDATIONS, SEE TRENCH DRAIN TABLE THIS SHEET AND TRENCH DRAIN DETAIL AND INSTALLATION, SEE SHEET NO. 7.
 - G-7 CONNECT ACO DRAIN 6" IN SIZE TO 4" PVC SDR 35 PIPE AT LOCATIONS SHOWN.
 - G-8 4" PVC SDR 35 DRAIN PIPE TO DISCHARGE TO THE DAYLIGHT AT LOCATION SHOWN.

STORM TRENCH DRAIN SCHEDULE

PIPE No.	TYPE	DEPTH	LENGTH	SIZE	INVERT IN	INVERT OUT	GROUND EL.	GROUND EL.
SD-1	K-SLOPED	7.83"	9.20'	6"	64.95'	64.74'	65.60'	65.44'
SD-2	K-SLOPED	7.83"	21'	6"	53.45'	53.22'	54.10'	54.00'

STORM DRAIN PIPE SCHEDULE

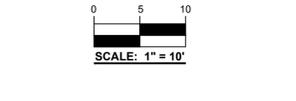
PIPE No.	SIZE	PIPE TYPE	LENGTH	SLOPE	INVERT IN	INVERT OUT
SD-3	4"	PVC SDR 35	5.90'	0.0085%	64.74'	64.69'
SD-4	4"	PVC SDR 35	6.50'	0.2180%	53.22'	51.80'

LEGEND

ITEM	EXISTING	PROPOSED
SANITARY GRAVITY SEWER LINE, SIZE & FLOW DIRECTION	EX. 10" S	10" S
SANITARY SEWER FORCE MAIN, SIZE & FLOW DIRECTION	EX. 10" F.M.	12" F.M.
SANITARY SEWER MANHOLE (S.M.H.)	⊙	⊙
SANITARY SEWER CLEANOUT	⊙	⊙
WATER MAIN & SIZE	EX. 10" W	12" W
FIRE HYDRANT	⊗ F.H.	⊗ F.H.
WATER VALVE (W.V.) OR METER (W.M.)	W.M. / W.V.	W.M. / W.V.
STORM DRAIN MANHOLE (S.D.M.H.)	⊙	⊙
STORM DRAIN LINE (CMP OR RCP)	---	---
CATCH BASIN	⊞	⊞
UTILITY POLE W/ OVERHEAD SERVICE (TELEPHONE OR ELECTRIC OR BOTH)	⊕	⊕
UNDERGROUND ELECTRIC	-U.E.-	-U.E.-
UNDERGROUND TELEPHONE	-U.T.-	-U.T.-
UNDERGROUND GAS MAIN	-EX. 2" G-	-2" G-
PAVEMENT TO BE REMOVED	N/A	▨
CONCRETE CURB & GUTTER	---	---
CONCRETE SIDEWALK, SLAB / PAVING	---	---
IMPERVIOUS SURFACED ROAD, DRIVE OR LOT	---	---
INDIVIDUAL TREE OR BUSH	EVERGREEN / DECIDUOUS	N/A
WIRE FENCE	---	---
CHAINLINK FENCE	---	---
STOCKADE FENCE	---	---
STRUCTURE (CONCRETE, WOOD, METAL, ETC.)	---	---
DRAINAGE DITCH OR SWALE	---	---
EMBANKMENT SIDESLOPES (DOWN)	---	---
CONTOUR	49	50
ELEVATION SPOT SHOT	43.55	25.50 T.C. / 25.00 B.C.
BENCH MARK	⊕	N/A
PROPERTY OR RIGHT-OF-WAY LINE	---	---
CENTERLINE	---	---
LIGHT POLE	⊕	⊕
CONSTRUCTION NOTE	N/A	⊕

ADDENDUMS / REVISIONS

NO.	DATE	DESCRIPTION
1	01-25-2013	90% SUBMISSION
2	12-15-2014	PS&E SUBMISSION
3	11-16-2015	CONSTRUCTION PLANS



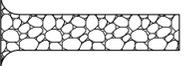
Churchman's Crossing Fairplay Station Elevator

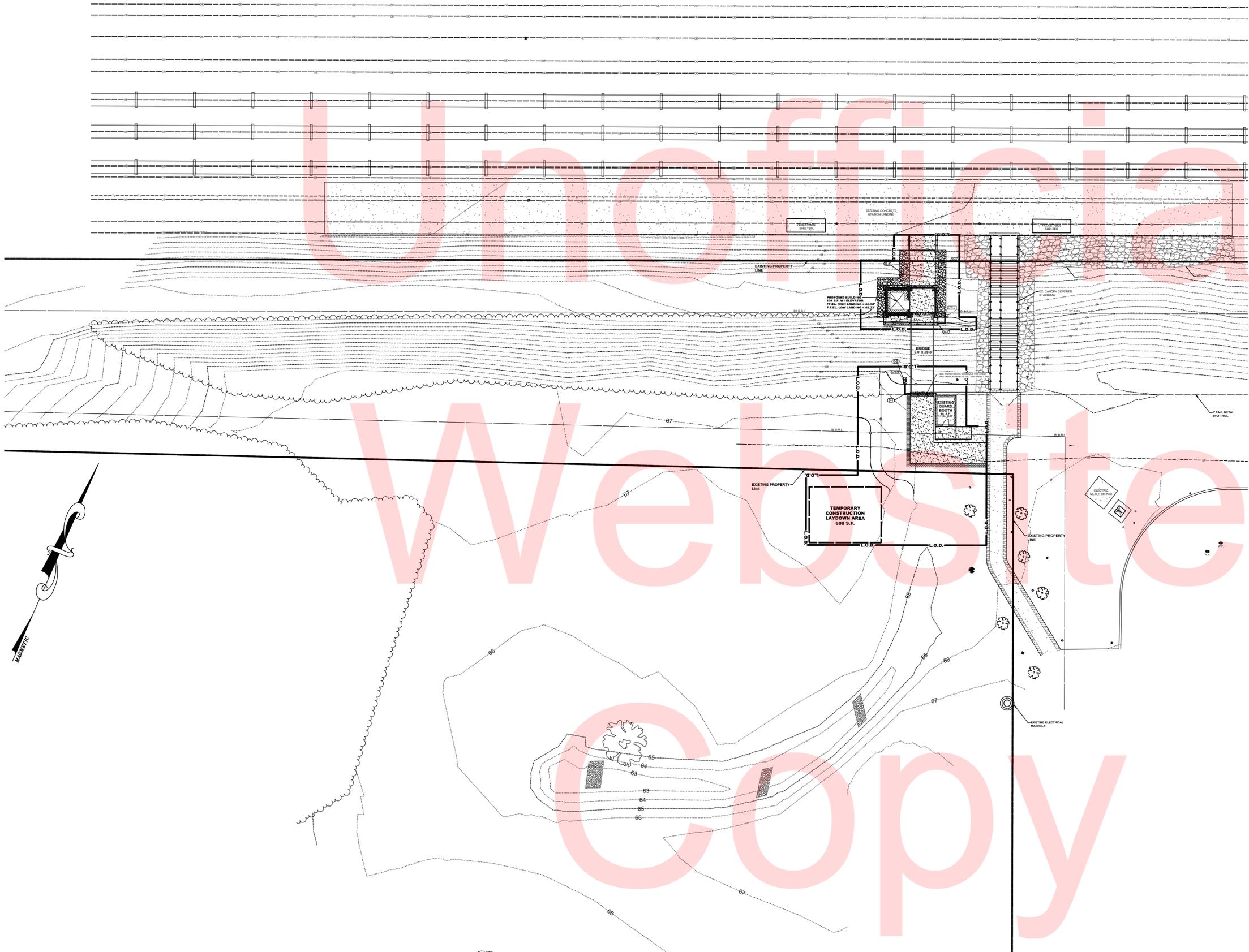
CONTRACT T200507303
COUNTY NEW CASTLE
BRIDGE NO. N/A
DRAWN BY: V.V.
CHECKED BY: G.E.J.

SITE PLAN / GRADING PLAN

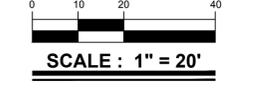
STORM SEWER CONSTRUCTION NOTES	
D-1	INSTALL 4" OUTLET ON THE SIDE OF THE ACO TRENCH DRAIN FOR DISCHARGE OF STORM WATER DRAINAGE.
D-2	INSTALL EMBEDDED STONE RIP-RAP OUTLET PROTECTION PLACED ON FILTER CLOTH (MIRAFI 600X OR EQUAL). AVERAGE SIZING REFER TO THE ROCK OUTLET PROTECTION PLAN VIEW GALLOUTS.

EROSION SEDIMENT CONTROL LEGEND

- RIP-RAP STONE 
- LIMIT OF DISTURBANCE 
- STABILIZED CONSTRUCTION ENTRANCE 



ADDENDUMS / REVISIONS		
1	01-25-2013	90% SUBMISSION
2	12-15-2014	PS&E SUBMISSION
3	11-16-2015	CONSTRUCTION PLANS



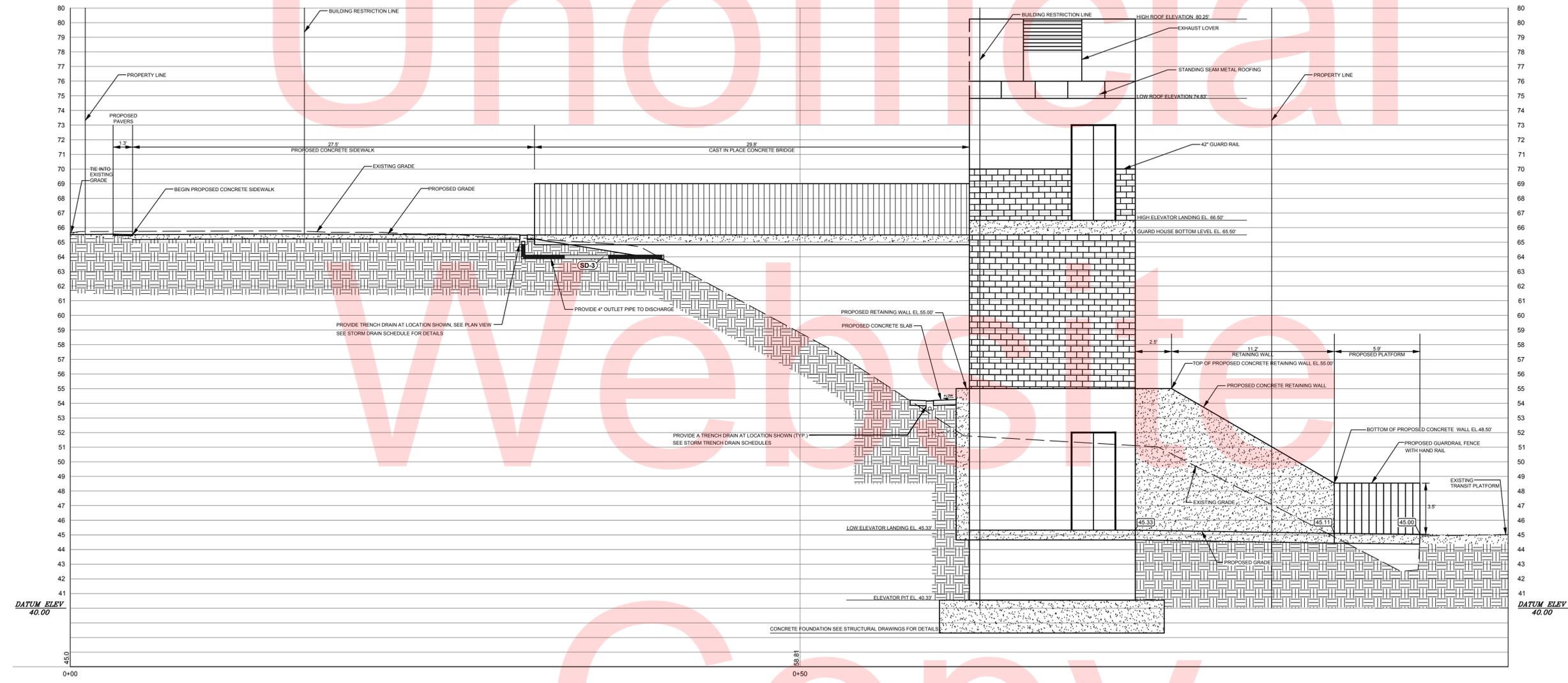
Churchman's Crossing Fairplay Station Elevator

CONTRACT	BRIDGE NO.	N/A
T200507303	DRAWN BY:	V.V.
COUNTY	CHECKED BY:	G.E.J.
NEW CASTLE		

EROSION & SEDIMENT CONTROL PLAN

SHEET NO.	05
TOTAL SHTS.	31

Unofficial



SECTION A-A - CENTERLINE PROFILE

SCALE : 1/4" = 1' HORIZONTAL
 : 1/4" = 1' VERTICAL

ADDENDUMS / REVISIONS		
1	01-25-2013	90% SUBMISSION
2	12-15-2014	PS&E SUBMISSION
3	11-16-2015	CONSTRUCTION PLANS

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

Churchman's Crossing Fairplay Station Elevator

CONTRACT	BRIDGE NO.	N/A
T200507303	DRAWN BY:	V.V.
COUNTY	CHECKED BY:	G.E.J.
SUSSEX		

CROSS-SECTION A-A PROFILE

SHEET NO.	06
TOTAL SHTS.	31

Standard Detail & Specifications
Site Pollution Prevention

Notes:
The Construction Site Pollution Prevention Plan should include the following elements:

1. Material Inventory
Document the storage and use of the following materials:

- Concrete
- Detergents
- Paints (enamel and latex)
- Cleaning solvents
- Pesticides
- Wood scraps
- Fertilizers
- Petroleum based products

2. Good housekeeping practices

- Store only enough product required to do the job.
- All materials shall be stored in a neat, orderly manner in their original labeled containers and covered.
- Substances shall not be mixed.
- When possible, all of a product shall be used up prior to disposal of the container.
- Manufacturers' instructions for disposal shall be strictly adhered to.
- The site foreman shall designate someone to inspect all BMPs daily.

3. Waste management practices

- All waste materials shall be collected and stored in securely lidded dumpsters in a location that does not drain to a waterbody.
- Waste materials shall be salvaged and/or recycled whenever possible.
- The dumpsters shall be emptied a minimum of twice per week, or more if necessary. The licensed trash hauler is responsible for cleaning out dumpsters.

Source: Adapted from USEPA Pub. 840-B-92-002
Symbol:
Detail No. **DE-ESC-3.6.1** Sheet 1 of 3
Date: 6/05

Standard Detail & Specifications
Site Pollution Prevention

Notes (cont.)

- Trash shall be disposed of in accordance with all applicable Delaware laws.
- Trash cans shall be placed on all lunch spots and littering is strictly prohibited. Recycle bins shall be placed near the construction trailer.
- If fertilizer bags can not be stored in a weather-proof location, they shall be kept on a pallet and covered with plastic sheeting which is overlapped and anchored.

4. Equipment maintenance practices

- If possible, equipment should be taken to off-site commercial facilities for washing and maintenance.
- If performed on-site, vehicles shall be washed with high-pressure water spray without detergents in an area contained by an impervious berm.
- Drip pans shall be used for all equipment maintenance.
- Equipment shall be inspected for leaks on a daily basis.
- Washout from concrete trucks shall be disposed of in a temporary pit for hardening and proper disposal.
- Fuel nozzles shall be equipped with automatic shut-off valves.
- All used products such as oil, antifreeze, solvents and tires shall be disposed of in accordance with manufacturers' recommendations and local, state and federal laws and regulations.

5. Spill prevention practices

- Potential spill areas shall be identified and contained in covered areas with no connection to the storm drain system.
- Warning signs shall be posted in hazardous material storage areas.
- Preventive maintenance shall be performed on all tanks, valves, pumps, pipes and other equipment as necessary.
- Low or non-toxic substances shall be prioritized for use.

Source: Adapted from USEPA Pub. 840-B-92-002
Symbol:
Detail No. **DE-ESC-3.6.1** Sheet 2 of 3
Date: 6/05

Standard Detail & Specifications
Site Pollution Prevention

Notes (cont.)

- Contact information for reporting spills through the DNREC 24-Hour Toll Free Number shall be prominently posted.

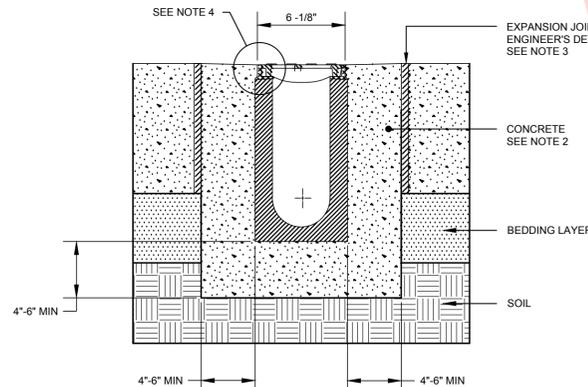
6. Education

- Best management practices for construction site pollution control shall be a part of regular progress meetings.
- Information regarding waste management, equipment maintenance and spill prevention shall be prominently posted in the construction trailer.

CONTACT INFORMATION

DNREC 24-Hour Toll Free Number 800-662-8802
DNREC Solid & Hazardous Waste Branch 302-739-9403

Source: Adapted from USEPA Pub. 840-B-92-002
Symbol:
Detail No. **DE-ESC-3.6.1** Sheet 3 of 3
Date: 6/05

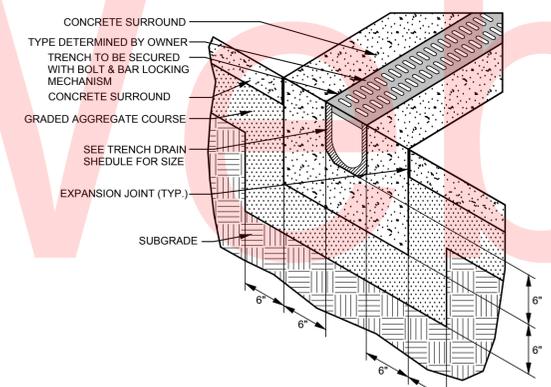


- NOTES:**
- IT IS NECESSARY TO ENSURE THE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR THE EXISTING GROUND CONDITIONS. ENGINEERING ADVICE MAY BE REQUIRED.
 - A MINIMUM CONCRETE STRENGTH OF 3000 PSI IS RECOMMENDED. THE CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
 - EXPANSION AND CRACK CONTROL JOINTS ARE RECOMMENDED TO PROTECT THE CHANNEL AND THE CONCRETE SURROUND. ENGINEERING ADVICE MAY BE REQUIRED.
 - THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" ABOVE THE TOP OF THE CHANNEL EDGE.
 - REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR COMPLETE DETAILS.

THE SURFACE DRAINAGE SYSTEM SHALL BE POLYMER CONCRETE S100K CHANNEL SYSTEM WITH DUCTILE IRON RAIL AND GRATE AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC., CHARDON, OH. CHANNELS WILL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH AN INTEGRAALLY CAST DUCTILE IRON RAIL AND SUPPLIED WITH DUCTILE IRON GRATES. THE SYSTEM SHALL BE 4 INCHES (100MM) NOMINAL INSIDE WIDTH WITH A 6.3 IN. (160MM) OVERALL WIDTH AND A BUILT-IN SLOPE OF 0.6%. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT. EACH CHANNEL SHALL HAVE A 4.5 IN. (114MM) SCHEDULE 40 ROUND AND 6 IN. (150MM) OVAL DRILL-OUT ON THE BOTTOM FOR VERTICAL CONNECTION WITH UNDERGROUND PIPING. THE COMPLETE DRAINAGE SYSTEM SHALL BE BY ACO POLYMER PRODUCTS, INC. ANY DEVIATION OR PARTIAL SYSTEM DESIGN AND/OR IMPROPER INSTALLATION WILL VOID ANY AND ALL WARRANTIES PROVIDED BY ACO POLYMER PRODUCTS, INC. THE CHANNEL SYSTEM SHALL BE INDEPENDENTLY CERTIFIED TO WITHSTAND LOADINGS TO LOAD CLASS F (DIN19580). GRATES SHALL BE SECURED USING "POWERLOK" BOLTLESS LOCKING SYSTEM. GRATE AND LOCKING SYSTEM SHALL BE FULLY REMOVABLE FROM CHANNEL. POLYMER CONCRETE SHALL HAVE MATERIAL PROPERTIES OF: COMPRESSIVE STRENGTH RANGE BETWEEN 14,000-14,500 PSI; FLEXURAL STRENGTH BETWEEN 3600-4500 PSI; TENSILE STRENGTH OF 1500 PSI. THE MATERIAL WATER ABSORPTION RATE SHALL NOT EXCEED 0.05% BY WEIGHT AND SHALL BE RESISTANT TO PROLONGED SALT EXPOSURE, REPETITIVE FROST CYCLES AND CHEMICALLY RESISTANT TO DILUTE ACIDS AND ALKALIS. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

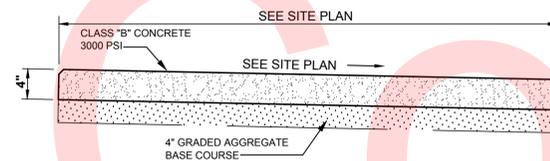
K100S ACO TRENCH DRAIN - INSTALLATION SECTION

NO SCALE



TRENCH DRAIN - INSTALLATION SECTION

NO SCALE



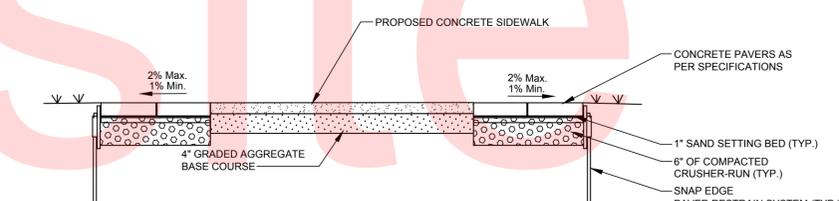
- NOTES:**
- MARK IN SQUARES, USE PREMOLDED EXPANSION JOINTS AT INTERVALS NOT GREATER THAN 20'
 - CONCRETE SIDEWALKS SHALL BE CONSTRUCTED AS PER ADA REQUIREMENTS AND SPECIFICATIONS.

CONCRETE SIDEWALK

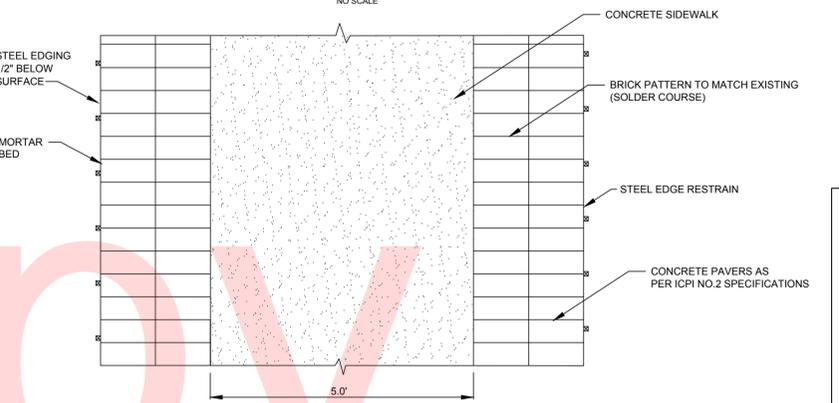
NO SCALE

BRICK PAVERS GENERAL NOTES:

- ALL MATERIAL AND WORKMANSHIP MUST CONFORM TO THE MOST CURRENT ICPI TECHNICAL SPECIFICATIONS WITH REGARD TO MATERIALS AND INSTALLATION.
- ALL CRUSHER-RUN TO BE STATE OF DELAWARE CR-1.
- SETTING SAND SHALL CONFORM TO ASTM C-33 STANDARDS.
- DRY JOINT SAND (TYP.) SHALL BE USED TO FILL & SET PAVERS ONCE INSTALLED PER ICPI TECHNICAL SPECIFICATIONS NO.2 (REV. AUGUST 2011).
- ALL STEEL EDGING SHALL BE 4"x10"



TYPICAL PAVERS DETAIL



TYPICAL PAVER SIDEWALK (TO MATCH EXISTING PATTERN - SOLDER COURSE)

BRICK PAVER DETAILS

NO SCALE

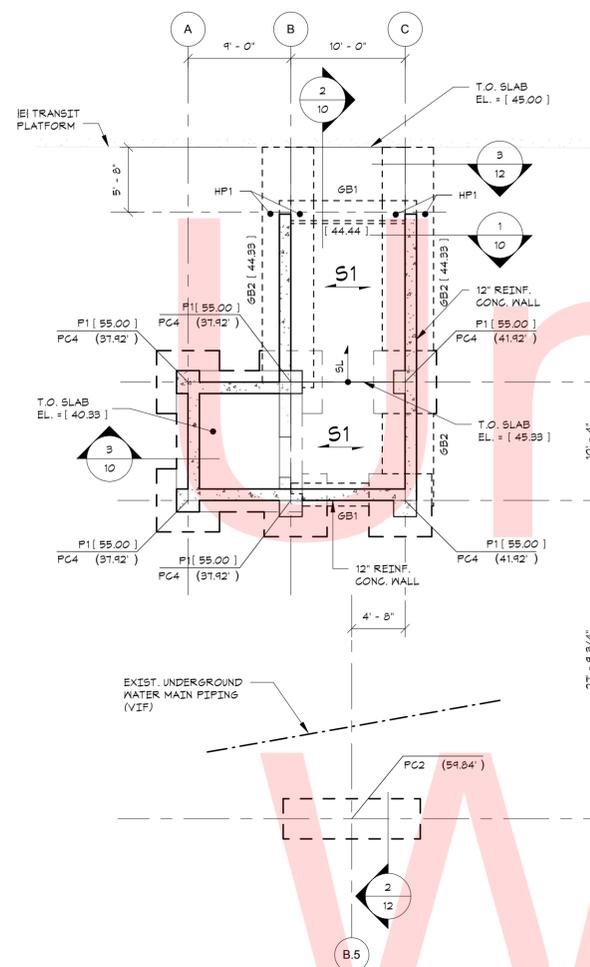
NSA* No.	RIPRAP PROPERTIES			
	Max.	Graded Rock Size (in) d ₅₀ **	Min.	Min. Blanket Thickness (in)
R-1	1.5	0.75	No. 8	3
R-2	3	1.5	1	5
R-3	6	3	2	9
R-4	12	6	3	18
R-5	18	9	5	22
R-6	24	12	7	29
R-7	30	15	12	36
R-8	48	24	15	58

* National Stone Association
** 50% of pieces, by weight, should be larger than this size

Figure A5a Riprap properties table

ADDENDUMS / REVISIONS		
1	01-25-2013	90% SUBMISSION
2	12-15-2014	PS&E SUBMISSION
3	11-16-2015	CONSTRUCTION PLANS

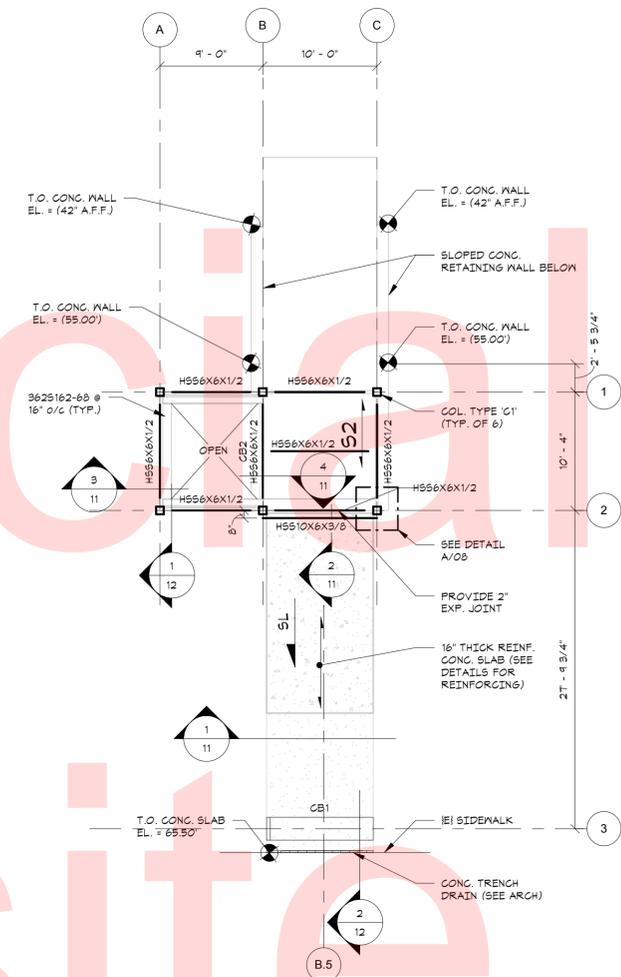
CONTRACT	BRIDGE NO.	N/A
T200507303	DRAWN BY:	V.V.
COUNTY	CHECKED BY:	G.E.J.
NEW CASTLE		



FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

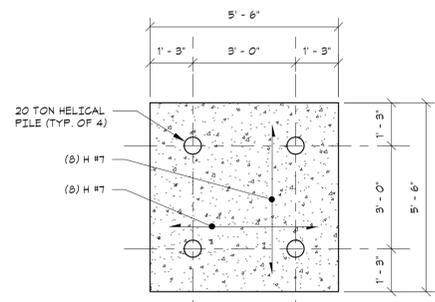
- NOTES:
- SEE PLAN FOR TOP OF SLAB ELEVATION.
 - PC INDICATES PILE CAP. SEE TYPICAL PILE CAP CONFIGURATIONS ON DWG. S101.
 - GB INDICATES CONCRETE GRADE BEAM. SEE DETAILS FOR SIZE & REINFORCING.
 - (...) INDICATES TOP OF GRADE BEAM / PILE CAP ELEVATION.
 - (...) INDICATES 8" REINFORCED CONCRETE SLAB W/ #4 @ 12" O/C ENB W/ 6x6-W2.0x2.0 WWF.
 - (...) INDICATES TOP OF PIER ELEVATION.
 - ALL PILES TO BE HELICAL PILES CAPABLE OF SUPPORTING 20 TONS (U.N.O.).
 - HP1 INDICATES 20 TON HELICAL PILE.



GUARDHOUSE LEVEL FRAMING PLAN

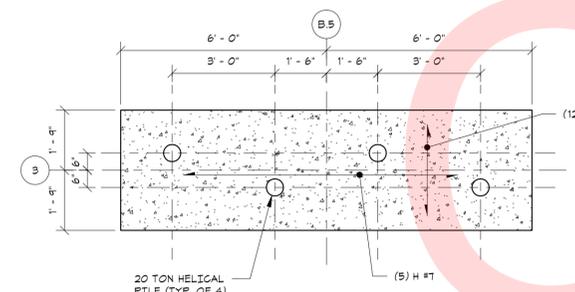
SCALE: 1/8" = 1'-0"

- NOTES:
- TOP OF SLAB EL. = (66.50) UNLESS OTHERWISE NOTED THIS (...)
 - (...) INDICATES 8" REINFORCED CONCRETE SLAB ON GRADE W/ #4 @ 12" O/C ENB W/ 6x6-W2.0x2.0 WWF.
 - TOP OF STEEL EL. = (66.00) UNLESS OTHERWISE NOTED THIS (...)
 - ALL STEEL TO BE HOT DIPPE GALVANIZED & PAINTED PER ARCHL.



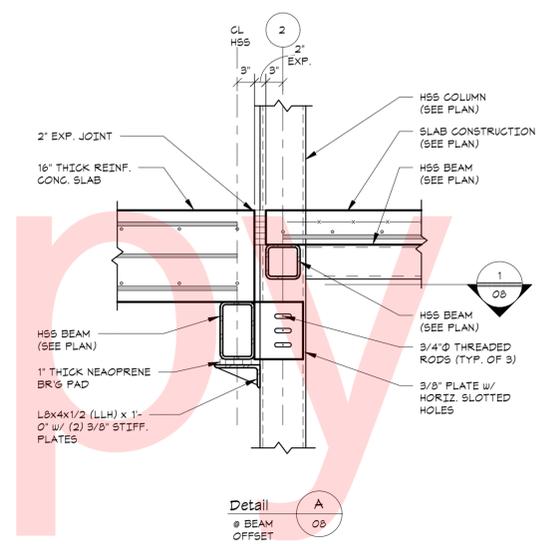
PC4 CONFIGURATION

D = 30"

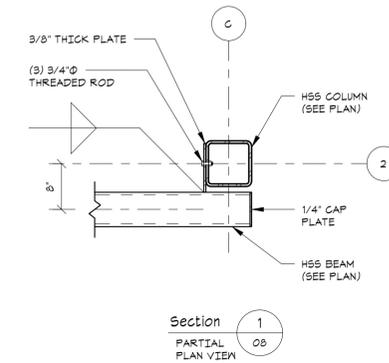


PC2 CONFIGURATION

D = 30"



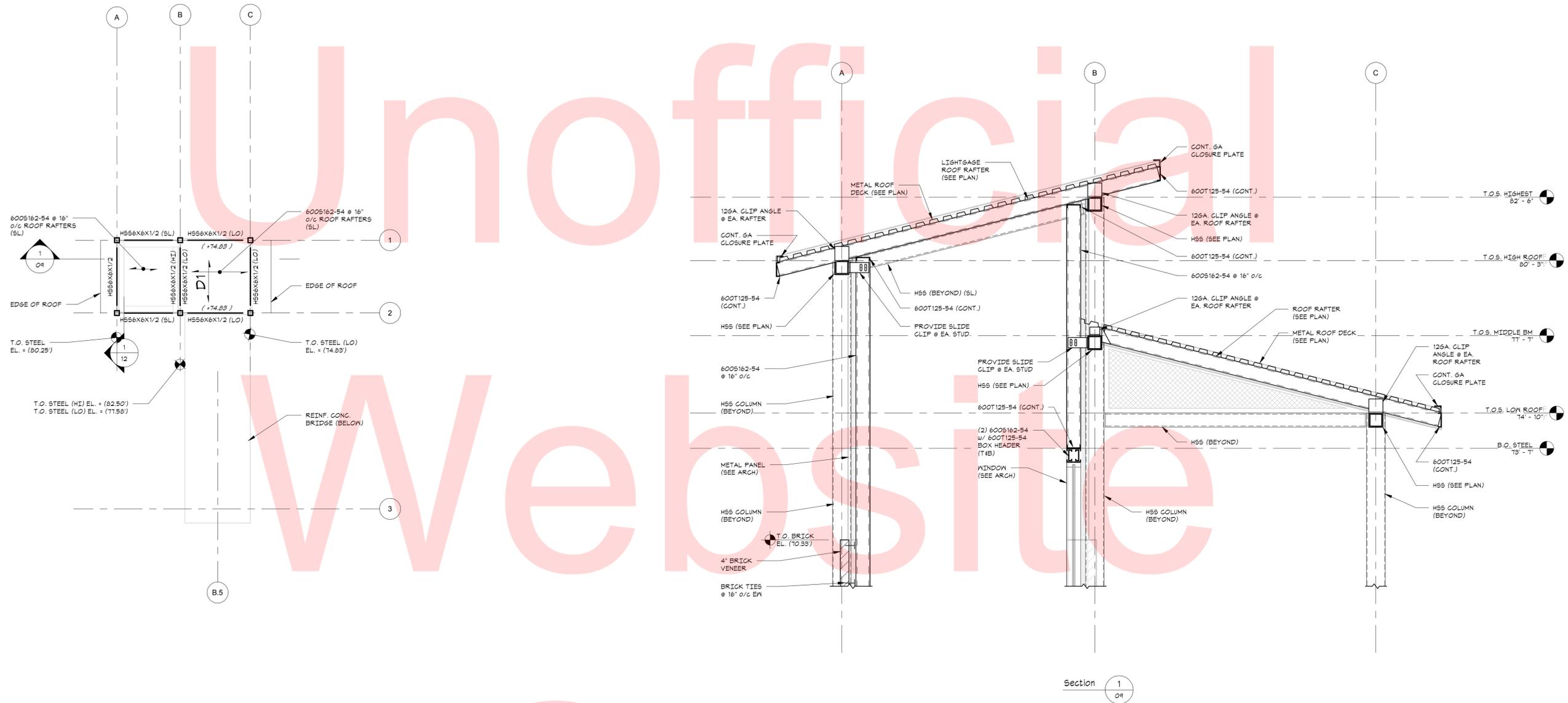
Detail A



Section 1

ADDENDUMS / REVISIONS		
1	01/25/2013	90% SUBMISSION
2	12/15/2014	PS&E SUBMISSION
3	11/16/2015	CONSTRUCTION PLANS

CONTRACT	BRIDGE NO.	N/A
T201253105	DRAWN BY:	JNR
COUNTY	CHECKED BY:	JRB
NEW CASTLE		



ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"

NOTES:

1. SEE PLAN FOR TOP OF STEEL ELEVATION ().
2. () INDICATES 1.5BP CELLULAR DECK (GALVANIZED) 20GA. HAT/ 20GA. PAN.
3. ALL STEEL TO BE HOT DIPPED GALVANIZED 4 PAINTED PER ARCH.
4. REFER TO ARCH. DRAWINGS FOR SNOW GUARD DETAIL/ LOCATIONS.



DELAWARE
DEPARTMENT OF
TRANSPORTATION

ADDENDUMS / REVISIONS

NO.	DATE	DESCRIPTION
1	01/25/2013	90% SUBMISSION
2	12/15/2014	PS&E SUBMISSION
3	11/16/2015	CONSTRUCTION PLANS

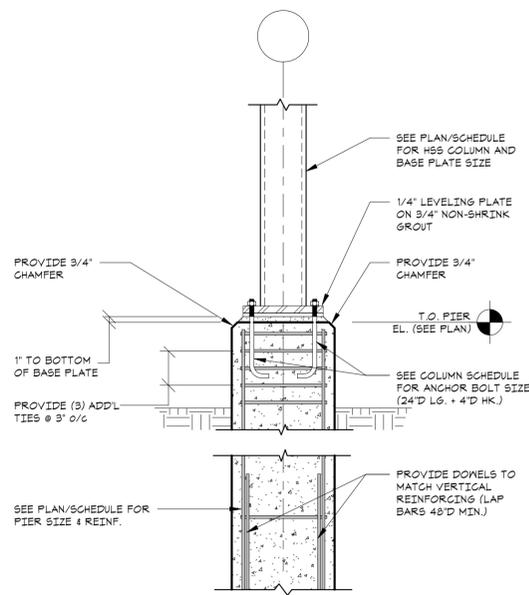
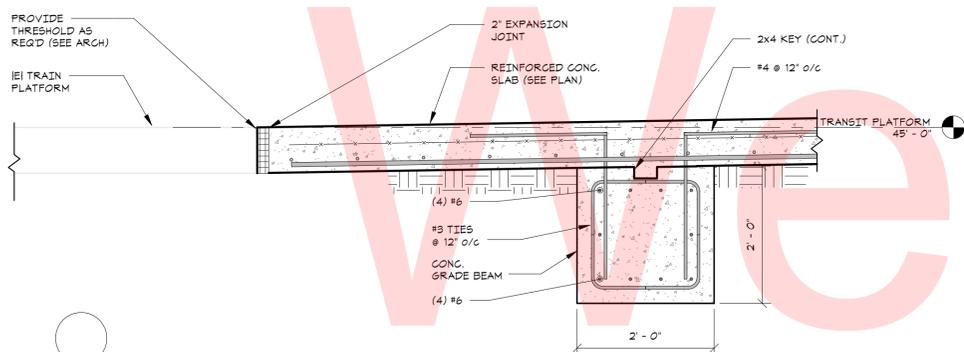
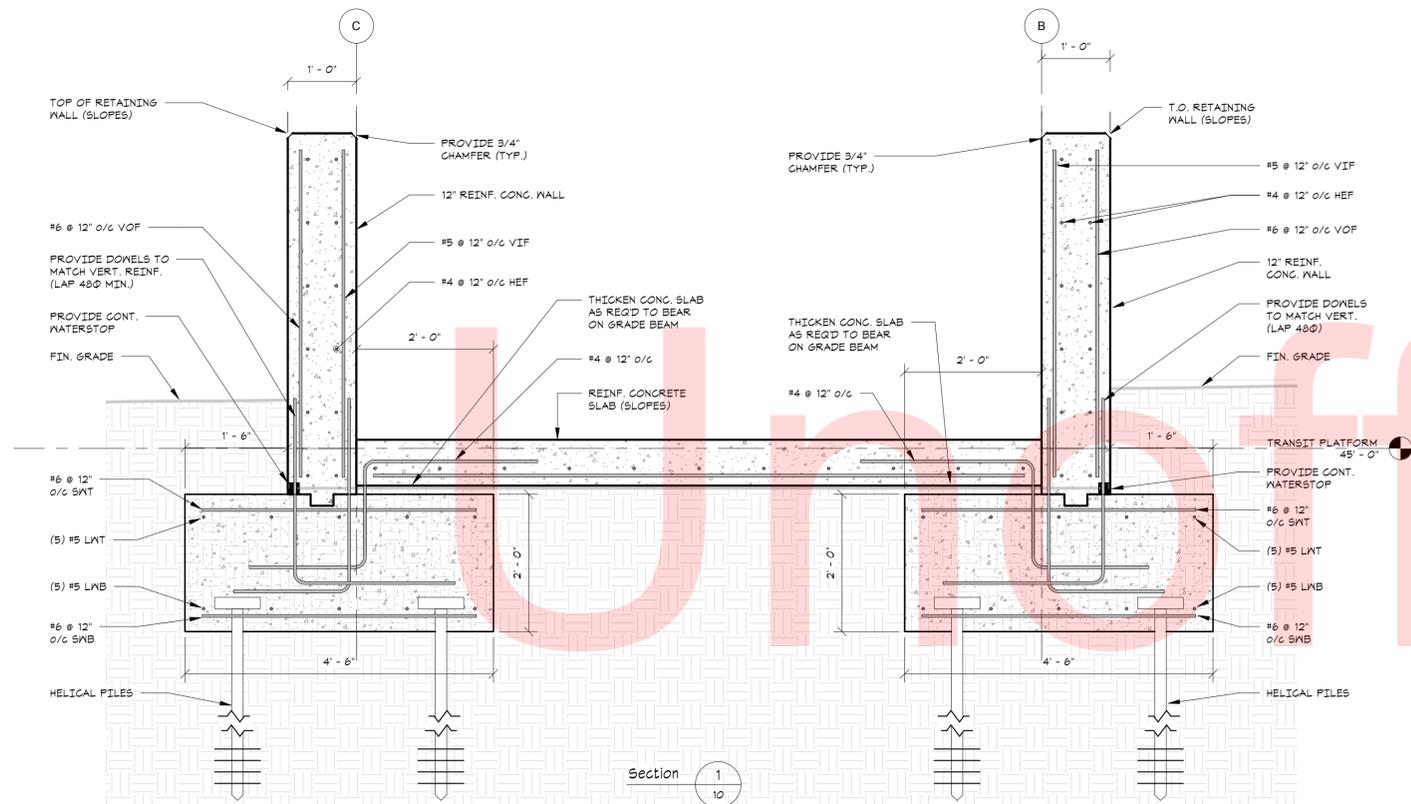
SCALE: As indicated

Churchman's Crossing Fairplay
Station Elevator

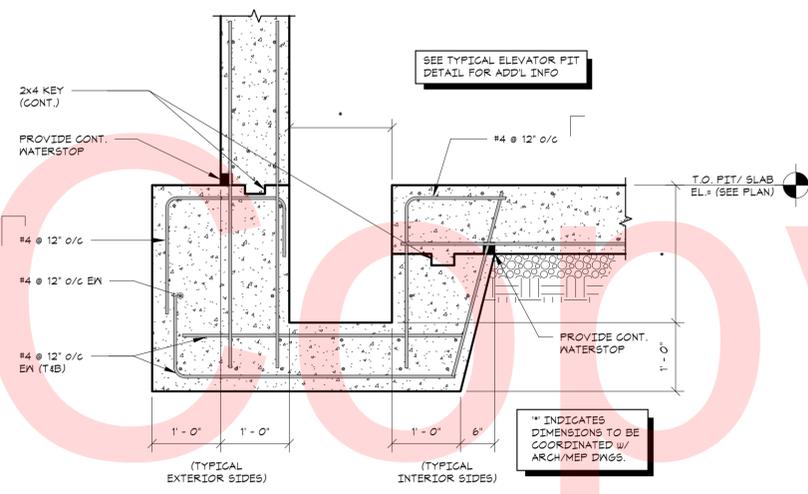
CONTRACT	BRIDGE NO.	N/A
T201253105	DRAWN BY:	JNR
COUNTY	CHECKED BY:	JRB
NEW CASTLE		

ROOF FRAMING PLAN

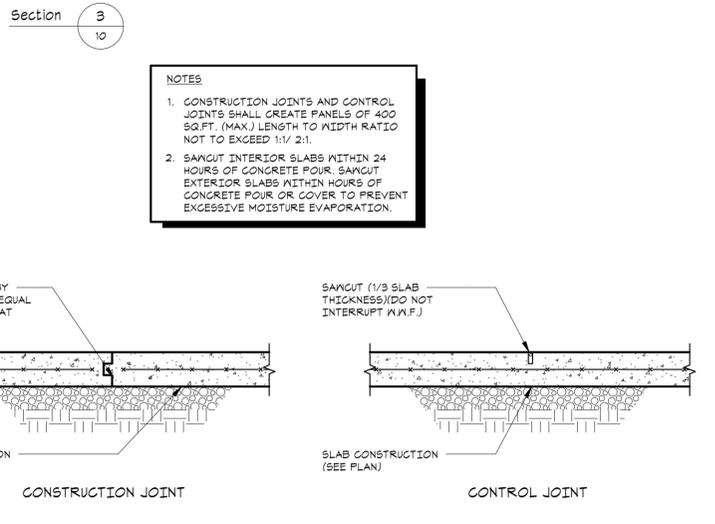
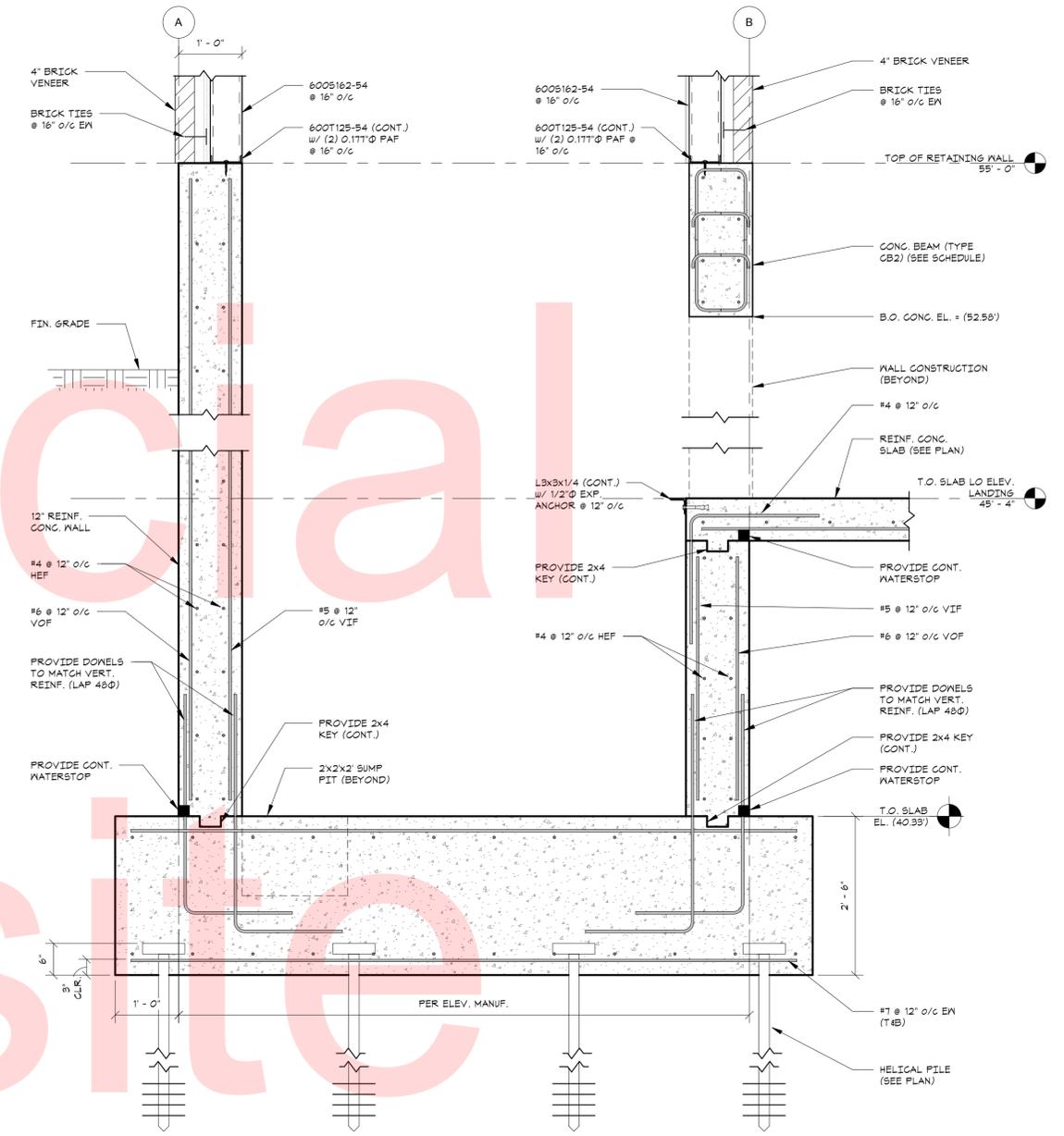
SHEET NO.	09
TOTAL SHTS.	31



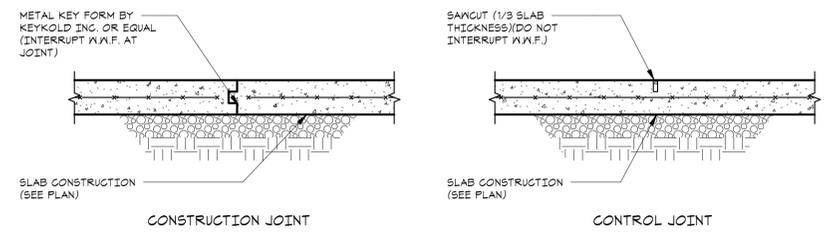
Typical Column Footing With Pier Detail



Typical Sump Detail @ Side Wall



- NOTES**
- CONSTRUCTION JOINTS AND CONTROL JOINTS SHALL GREATEN PANELS OF 400 SQ.FT. (MAX.) LENGTH TO WIDTH RATIO NOT TO EXCEED 1:1/2:1.
 - SAWCUT INTERIOR SLABS WITHIN 24 HOURS OF CONCRETE POUR. SAWCUT EXTERIOR SLABS WITHIN HOURS OF CONCRETE POUR OR COVER TO PREVENT EXCESSIVE MOISTURE EVAPORATION.



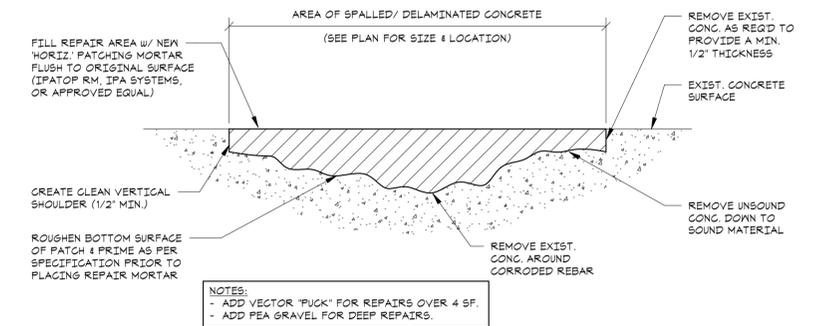
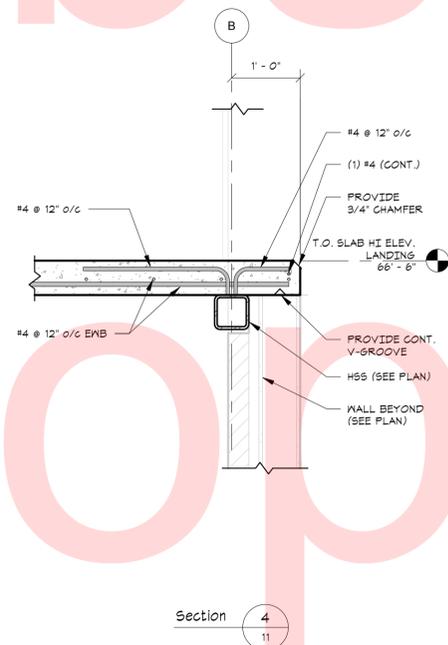
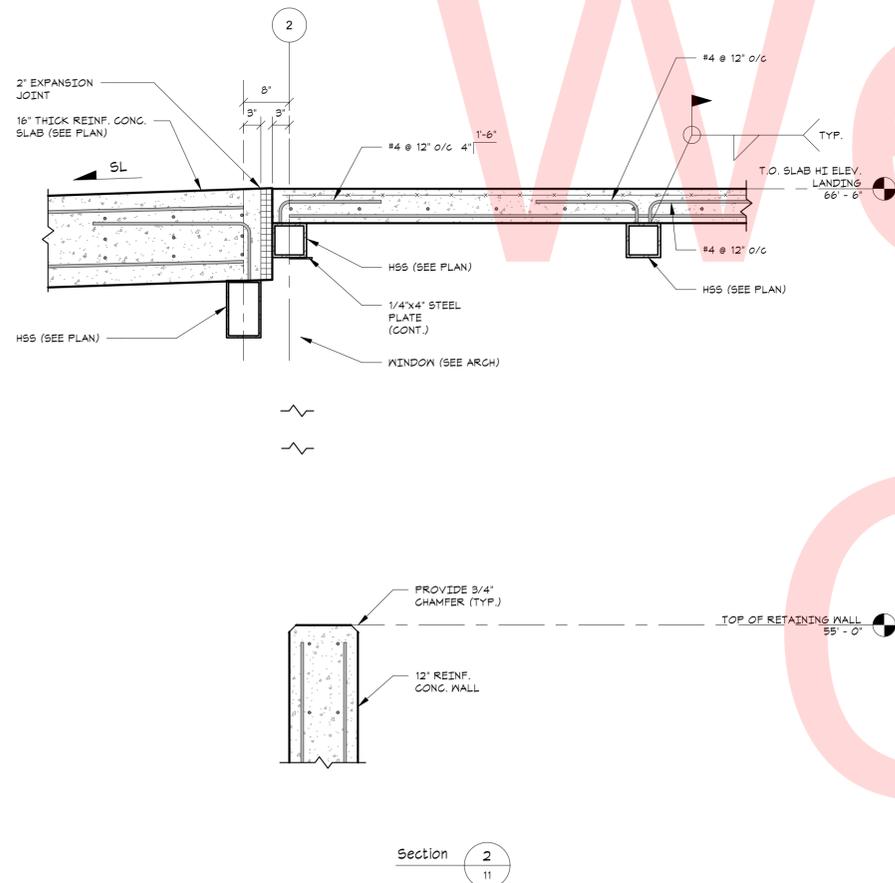
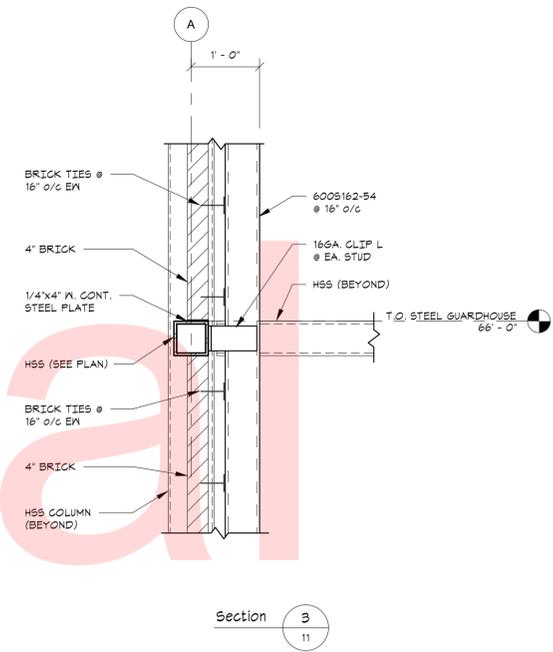
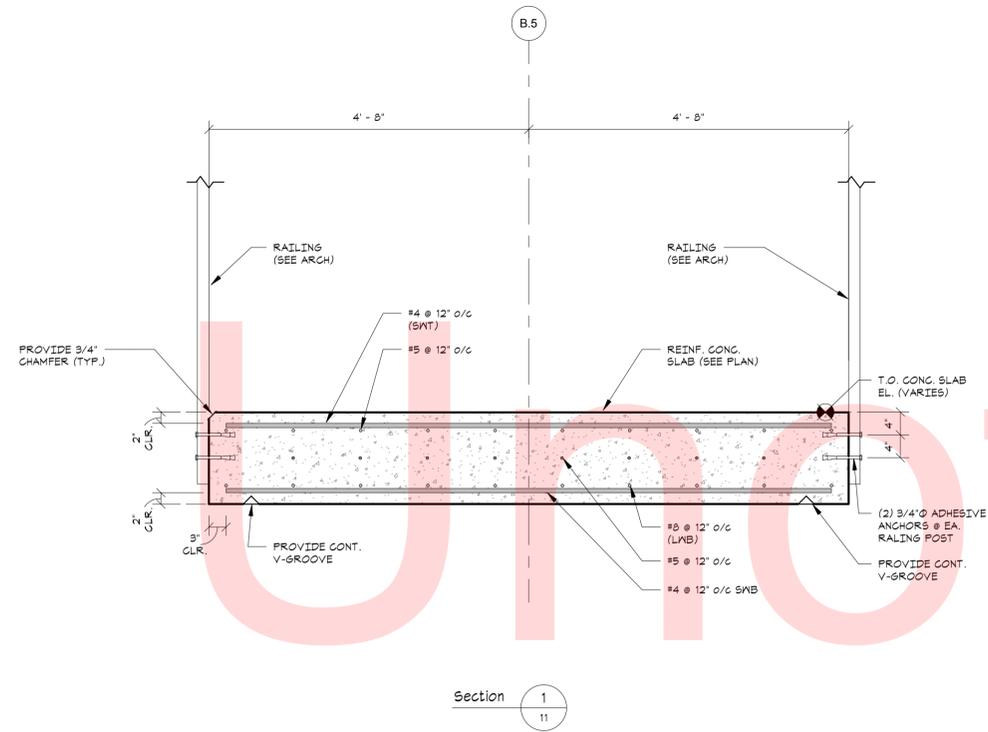
Typical Slab On Grade Details

ADDENDUMS / REVISIONS		
1	01/25/2013	90% SUBMISSION
2	12/15/2014	PS&E SUBMISSION
3	11/16/2015	CONSTRUCTION PLANS

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

CONTRACT	BRIDGE NO.	N/A
T201253105	DRAWN BY:	JNR
COUNTY	CHECKED BY:	JRB
NEW CASTLE		

SHEET NO.	10
TOTAL SHTS.	31



DELAWARE
DEPARTMENT OF
TRANSPORTATION

ADDENDUMS / REVISIONS

1	01/25/2013	90% SUBMISSION
2	12/15/2014	PS&E SUBMISSION
3	11/16/2015	CONSTRUCTION PLANS

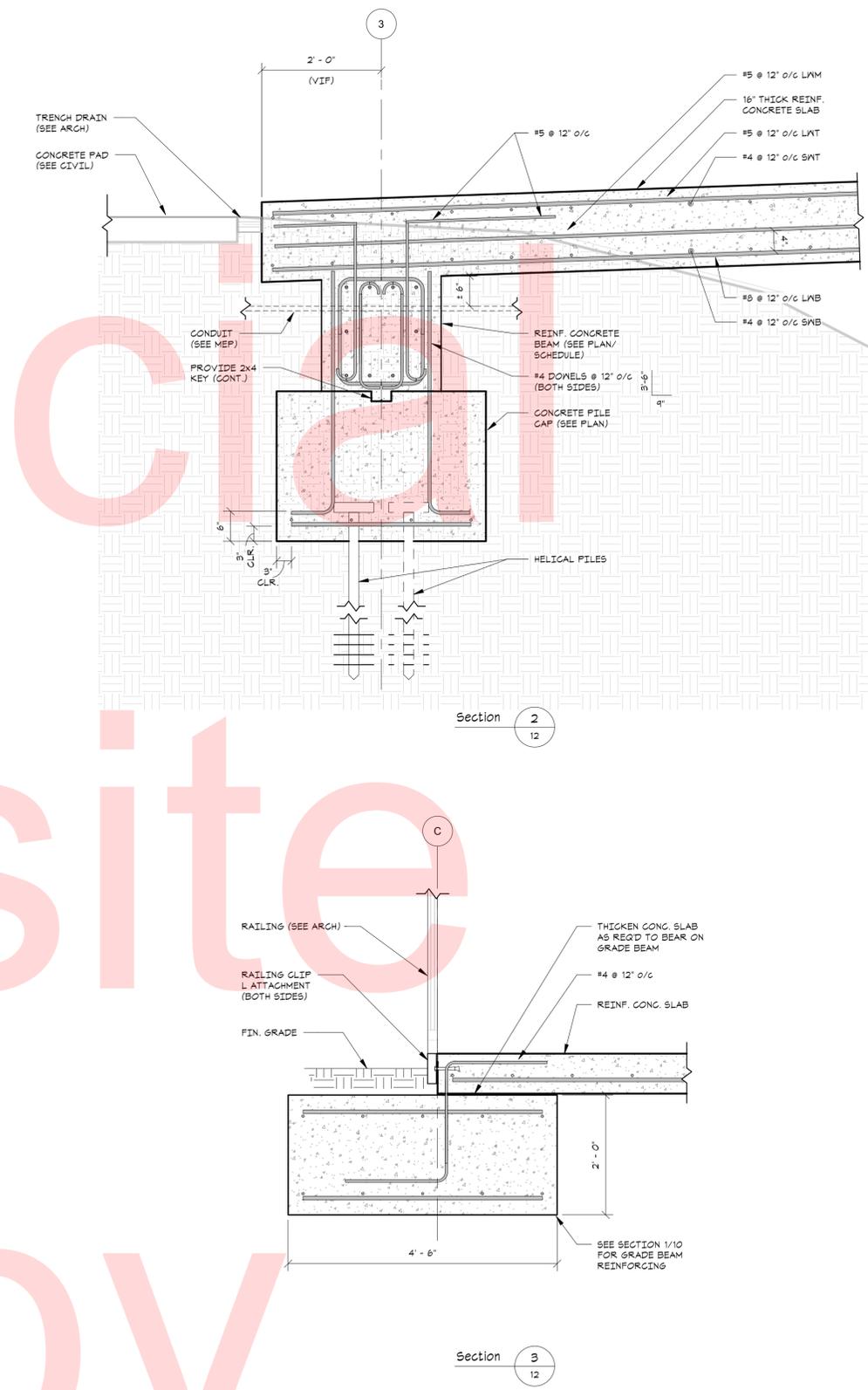
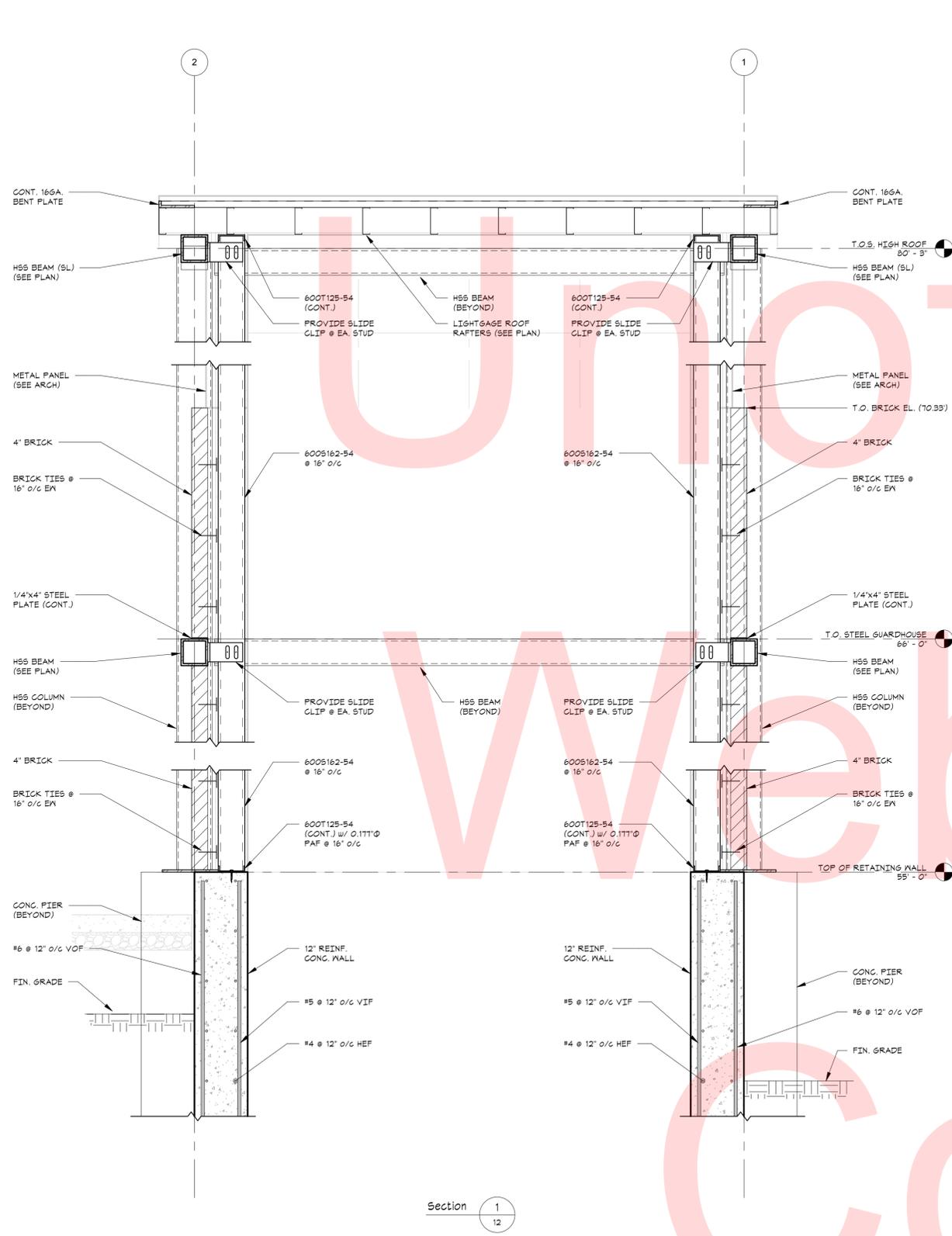
SCALE: 3/4" = 1'-0"

Churchman's Crossing Fairplay
Station Elevator

CONTRACT	BRIDGE NO.	N/A
T201253105	DRAWN BY:	JNR
COUNTY	CHECKED BY:	JRB
NEW CASTLE		

GUARDHOUSE FLOOR
FRAMING SECTIONS

SHEET NO.	11
TOTAL SHTS.	31



DELAWARE
DEPARTMENT OF
TRANSPORTATION

ADDENDUMS / REVISIONS		
1	01/25/2013	90% SUBMISSION
2	12/15/2014	PS&E SUBMISSION
3	11/16/2015	CONSTRUCTION PLANS

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

Churchman's Crossing Fairplay
Station Elevator

CONTRACT	BRIDGE NO.	N/A
T201253105	DRAWN BY:	JNR
COUNTY	CHECKED BY:	JRB
NEW CASTLE		

FOUNDATION SECTIONS

SHEET NO.	12
TOTAL SHTS.	31

DESIGN LOAD SCHEDULE				
(ALL LOADS SHOWN ARE IN POUNDS PER SQFT)				
COMPONENT	AREA			
	SIAB ON GRADE	FLOOR	ROOF	
CONCRETE SLAB	100	75		
ROOF & INSULATION			10	
STEEL & JOIST		5	5	
CEILING				
COLLATERAL		10	10	
TOTAL DEAD LOAD	100	90	25	
TOTAL LIVE LOAD	150	100	30	
TOTAL LOAD	250	190	55	

SNOW LOAD DESIGN SCHEDULE			
2006 INTERNATIONAL BUILDING CODE			
ITEM	SYMBOL	VALUE	REFERENCE
GROUND SNOW LOAD	P_g	30 PSF	FIGURE 1602.2
SNOW EXPOSURE FACTOR	C_e	0.9	TABLE 7.2 (ASCE-7)
SNOW LOAD IMPORTANCE FACTOR	I_s	1.0	TABLE 7.4 (ASCE-7)
THERMAL FACTOR	C_t	1.0	FIGURE 7.3 (ASCE-7)
FLAT-ROOF SNOW LOAD	P_f	20 PSF	SECTION 7.3 (ASCE-7)

LATERAL LOAD DESIGN SCHEDULE			
2006 INTERNATIONAL BUILDING CODE			
WIND LOAD			
ITEM	SYMBOL	VALUE	REFERENCE
BASIC WIND SPEED	V_{50}	90 mph	FIGURE 1604
OCCUPANCY CATEGORY	-	I	FIGURE 1604.5
WIND LOAD IMPORTANCE	I_w	1.0	TABLE 6-1 (ASCE 7)
WIND EXPOSURE CATEGORY	-	C	SECTION 1604.4
DESIGN PROCEDURE	-	SIMPLIFIED	SECTION 6-4 (ASCE 7)
MAIN WIND FORCE PRESSURE	P_s	20 psf	SECTION 6.4.2.1 (ASCE 7)
COMP/GLAD. WIND PRESSURE	P_{net}	20 psf	SECTION 6.4.2.2 (ASCE 7)

SEISMIC LOAD			
ITEM	SYMBOL	VALUE	REFERENCE
SITE CLASS	-	D	SECTION 1613.3
MAPPED SPECTRAL RESPONSE ACCELERATION	S_s	0.27	SECTION 1613.5 (1)
MAPPED SPECTRAL RESPONSE ACCELERATION (1 SEC. - RESPONSE)	S_1	.065	SECTION 1613.5 (2)
DESIGN SPECTRAL RESPONSE ACCELERATION	S_{DS}	0.29	SECTION 1613.5.4
DESIGN SPECTRAL RESPONSE ACCELERATION (1 SEC. - RESPONSE)	S_{D1}	0.104	SECTION 1613.5.4
OCCUPANCY CATEGORY	-	II	SECTION 1604.5
SEISMIC DESIGN CATEGORY	-	B	TABLE 1613.5.6
SEISMIC IMPORTANCE FACTOR	I_e	1.0	TABLE 11.5-1 (ASCE 7)
DESIGN BASE SHEAR	-	208 K	TABLE 12.8.1 (ASCE 7)
ANALYSIS PROCEDURE	-	EQUIVALENT LATERAL FORCE	TABLE 12.8 (ASCE 7)
BASIC STRUCTURAL SYSTEM	-	BUILDING FRAME SYSTEMS	TABLE 12.2-1 (ASCE 7)
BASIC SEISMIC-FORCE-RESISTING SYSTEM	-	ORDINARY PLAIN MASONRY SHEARWALLS	TABLE 12.2-1 (ASCE 7)
SEISMIC RESPONSE COEFFICIENT	C_s	0.15	TABLE 12.8.1.1 (ASCE 7)
RESPONSE MOD. FACTOR	R	1.5	TABLE 12.2-1 (ASCE 7)

CONCRETE PIER SCHEDULE					
MARK	DIMENSIONS		REINFORCING		REMARKS
	WIDTH	DEPTH	VERTICAL	TIES	

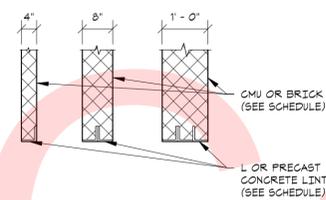
STEEL COLUMN SCHEDULE				
MARK	SIZE	BASE PLATES AND ANCHOR BOLTS		REMARKS
		BASE PLATE SIZE/ REINF.	ANCHOR BOLTS/ TIES	

Unofficial

Website

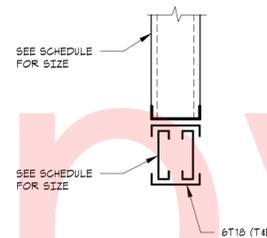
CONCRETE BEAM SCHEDULE					
MARK	SIZE	TOP BARS	BOTT. BARS	MID BARS	SIZE & SPACING
CB1	24" x 24"	(4) #6	(4) #6	(2) #6	#3 @ 12" O/C
CB2	12" x 24"	(2) #6	(2) #6	(4) #6	#3 @ 12" O/C

GRADE BEAM SCHEDULE					
MARK	SIZE	TOP BARS	BOTT. BARS	MID BARS	SIZE & SPACING
GB1	24" x 24"	(4) #6	(4) #6	(2) #6	#3 @ 12" O/C
GB2	4'-6" W. x 24" T.	SEE SECT.	SEE SECT.	SEE SECT.	#3 @ 24" O/C

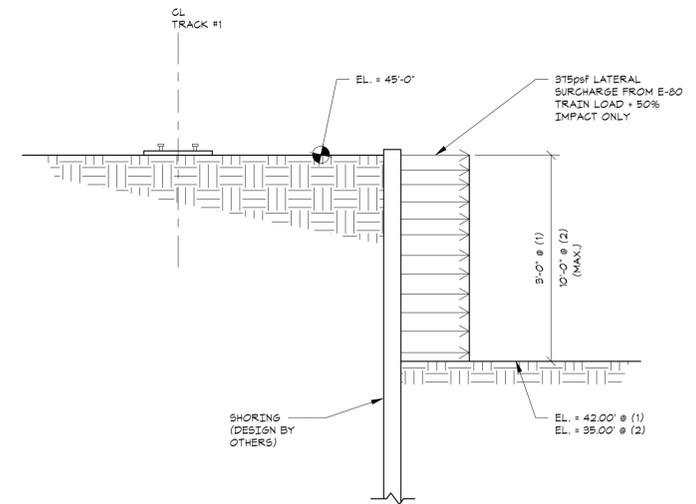


CONCRETE/ STEEL LINTEL SCHEDULE			
(4", 8", & 12" NON-BEARING CMU & BRICK WALLS)			
WIDTH OF OPENING	STEEL FOR EACH 4" OF WALL THICKNESS	REINF. CONG. FOR EACH 4" OF WALL THICKNESS	REMARKS
UP TO 2'-11"	L 3 1/2 x 3 1/2 x 5/16	(1) #4 TOP & BOTTOM	
3'-0" TO 3'-11"	L 4 x 3 1/2 x 5/16	(1) #4 TOP & BOTTOM	
4'-0" TO 5'-11"	L 5 x 3 1/2 x 5/16	(1) #4 TOP & BOTTOM	
6'-0" TO 8'-0"	L 6 x 3 1/2 x 5/16	(1) #5 TOP & BOTTOM	

NOTES:
 1) ALL CONCRETE LINTELS SHALL BE 4000 PSI CONCRETE @ 28 DAYS WITH GRADE 60 REINFORCING.
 2) ALL STEEL LINTELS SHALL BE ASTM A-36.
 3) FILL CMU VOIDS SOLID (2) COURSES BELOW LINTEL BEARING.
 4) ALL LINTELS SHALL HAVE 6" MINIMUM BEARING UNO.



METAL STUD HEADER SCHEDULE		
(NON-BEARING WALLS)		
WIDTH OF OPENING	METAL STUD LINTEL SIZE	JAMB STUDS
UP TO 7'-0"	(2) 65M16	(2) STUDS
7'-0" TO 10'-0"	(2) 85M14	(2) STUDS
10'-0" TO 12'-0"	(2) 105M14	(2) STUDS



Shoring Loading Design Parameters

NOTES:
 1) LATERAL PRESSURES SHOWN ARE FROM COOPERS E-80 + 50% IMPACT TRAIN LOADS.
 2) SHORING CONTRACTOR TO DESIGN SHORING INCLUDING LOADING w/ ADJACENT TRAIN INFLUENCE AS REQD.
 3) LOADS SHOWN ARE FOR INFLUENCE OF TRAIN LOADS ONLY. SOIL LOADS & ADD'L LIVE LOADS SHOULD BE ACCOMMODATED IN ADDITION AS REQD FOR SHORING DETAIL.



DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

NO.	DATE	DESCRIPTION
1	01/25/2013	90% SUBMISSION
2	12/15/2014	PS&E SUBMISSION
3	11/16/2015	CONSTRUCTION PLANS

SCALE: As indicated

Churchman's Crossing Fairplay Station Elevator

CONTRACT	BRIDGE NO.	N/A	SCHEDULES	SHEET NO.
T201253105				13
COUNTY	DRAWN BY:	JNR		TOTAL SHTS.
NEW CASTLE	CHECKED BY:	JRB		31

GENERAL NOTES

SCALE: 1/8" = 1'-0"

PROJECT SPECIFICATIONS AND NOTES

GENERAL

- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL DRAWINGS AND SPECIFICATIONS CONTAINED HEREIN.
- ALL WORK RELATED TO THE STAGING, CONSTRUCTION PRACTICES AND SAFETY OF THE PROJECT'S WORKERS AND PROPERTY SHALL BE CONSIDERED MEANS AND METHODS AND SHALL BE COMPLETED BY THE CONTRACTOR IN ACCORDANCE WITH STANDARD INDUSTRY PRACTICE AND ALL CODES AND STANDARDS. VISITS TO THE SITE MADE BY THE ENGINEER ARE FOR THE REVIEW OF THE STRUCTURAL WORK FOR GENERAL CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS AND IS NOT FOR THE REVIEW OF CONTRACTOR RESPONSIBILITIES, INCLUDING BUT NOT LIMITED TO PROJECT SAFETY AND MEANS AND METHODS OF CONSTRUCTION.
- ALL DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE 2006 INTERNATIONAL BUILDING CODE AS WELL AS ALL REFERENCED STANDARDS CONTAINED THEREIN.
- EVALUATION AND COMPLIANCE WITH LOADING RESTRICTIONS FOR MEANS AND METHODS OF CONSTRUCTION AS WELL AS STAGING FOR OTHER TRADES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL WORK SHALL BE INSPECTED IN ACCORDANCE WITH CHAPTER 17 OF THE REFERENCED BUILDING CODE. SUBMIT ALL REPORTS TO THE ENGINEER OF RECORD FOR REVIEW. AT THE COMPLETION OF THE PROJECT, THE SPECIAL INSPECTION REPORT SHALL BE COMPLETED, SIGNED BY THE SPECIAL INSPECTOR AND SUBMITTED TO THE ENGINEER OF RECORD FOR RECORD PURPOSES.
- SCALING OF DRAWINGS TO DETERMINE DIMENSIONS OF ELEMENTS IS NOT PERMITTED.
- STRUCTURAL DRAWINGS SHALL NOT BE REPRODUCED TO CREATE SHOP DRAWINGS OR SHORING DOCUMENTATION WITHOUT THE EXPRESS WRITTEN CONSENT OF MAGINTOSH ENGINEERING.
- ALL HORIZONTAL AND VERTICAL DIMENSIONS CONTAINED ON THE STRUCTURAL DRAWINGS WERE DEVELOPED BY OTHER DISCIPLINES FOR THE PURPOSE OF THIS PROJECT. ANY DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHOULD BE COORDINATED WITH THE OTHER DISCIPLINE DRAWINGS.
- THE STRUCTURAL DOCUMENTS ARE TO BE USED IN COORDINATION WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND SPECIFICATIONS AS WELL AS THOSE OF ALL OTHER DISCIPLINES. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.
- ALL REQUESTED CHANGES IN WORK BY THE CONTRACTOR ARE SUBJECT TO THE APPROVAL OF THE DESIGN TEAM AND OWNER AND ARE CONSIDERED TO BE COMPLETED AT NO ADDITIONAL COST UNLESS SPECIFICALLY APPROVED. APPROVAL OF REQUESTED CHANGES DOES NOT CONSTITUTE APPROVAL OF AN INCREASE IN PROJECT COSTS.
- REFER TO THE ARCHITECTURAL DOCUMENTATION FOR LOCATION, EXTENT, AND DETAILINGS OF ALL WATERPROOFING AND FIREPROOFING.
- DESIGN LOADS FOR THE PROJECT ARE LISTED IN THE LOAD SCHEDULE ON SHEET NO. 13.
- SNOW FOR THE PROJECT ARE LISTED IN THE LOAD SCHEDULE ON SHEET NO. 13. DRIFT LOADS HAVE BEEN INCLUDED IN THE DESIGN. SEE SCHEDULE FOR ADDITIONAL INFORMATION.
- WIND AND SEISMIC LOADS FOR THE PROJECT ARE LISTED IN THE LOAD SCHEDULE ON SHEET NO. 13.
- SHOP DRAWINGS SHALL BE SUBMITTED FOR THE FOLLOWING ITEMS FOR THIS THE PROJECT:
 - CONCRETE MIX DESIGNS
 - REINFORCING SHOP DRAWINGS
 - ANCHOR BOLT AND CONCRETE EMBEDDED ASSEMBLIES
 - STEEL FRAMING
 - METAL DECK ASSEMBLIES
 - STAIRS, HANDRAILS AND GUARDRAILS
 - COLD FORMED METAL FRAMING
 - MASONRY PRODUCTS
 - ALL ADMIXTURES, SEALANTS, HARDENERS, COATINGS
 ALL SHOP DRAWINGS NOTED ABOVE SHALL BE SUBMITTED IN A TIMELY MANNER TO ALLOW FOR A 14 DAY REVIEW PERIOD BY THE DESIGN TEAM. EXPEDITED REVIEW PERIODS MAY BE REQUESTED BUT CANNOT BE GUARANTEED. ALL SUBMITTED DRAWINGS SHALL CONTAIN THE CONSTRUCTION MANAGER / GENERAL CONTRACTOR SHOP DRAWING STAMP INDICATING THEIR REVIEW OF THE DRAWINGS INCLUDING BUT NOT LIMITED TO COORDINATION WITH OTHER TRADES, VERIFICATION OF DIMENSIONS, FIELD CONSTRAINTS, MEANS AND METHODS CONSTRUCTION.
- DELAWARE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AUGUST 2001 APPLY.

FOUNDATIONS

- BOTTOM OF FOOTING SUBGRADE IS ASSUMED TO BEAR ON SOIL CAPABLE OF SAFELY SUPPORTING 2000 PSF IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE 2006 INTERNATIONAL BUILDING CODE
- BOTTOM OF FOOTING SUBGRADE MUST BE INSPECTED AND APPROVED BY A REGISTERED GEOTECHNICAL ENGINEER BEFORE PLACING ANY CONCRETE FOUNDATIONS. APPROVAL IN WRITING MUST INDICATE THE SOIL IS ADEQUATE TO SAFELY SUSTAIN THE SPECIFIED BEARING PRESSURE. SUBMIT ALL REPORTS TO THE ENGINEER OF RECORD FOR RECORD
- BOTTOM OF ALL FOOTINGS SUBJECT TO FREEZE THAN CONDITIONS SHALL BE A MINIMUM THREE FEET BELOW FINISH GRADE OR TOP OF SLAB ELEVATION WHICHEVER IS LOWER.
- ALL HELICAL PILES SHALL BE CAPABLE OF SAFELY SUPPORTING 20 TONS.
- INSTALL PILES IN ACCORDANCE WITH HELICAL PILE INSTALLATION STANDARDS AND TO BE SUPERVISED AND CERTIFIED BY A REGISTERED GEOTECHNICAL ENGINEER.
- RETAINING WALLS SHALL BE BACKFILLED AND COMPACTED WITH MATERIAL PRODUCING A MAXIMUM ACTIVE EQUIVALENT FLUID LATERAL EARTH PRESSURE OF 40 PSF.
- WALLS RETAINING EARTH SHALL NOT BE BACKFILLED UNTIL A MINIMUM OF 70% OF SPECIFIED COMPRESSIVE STRENGTH IS ACHIEVED. BASEMENT WALLS SHALL NOT BE BACKFILLED, UNLESS ADEQUATELY BRACED, UNTIL FLOOR SLAB IS IN PLACE AND ATTAINS A MINIMUM OF 10% OF SPECIFIED COMPRESSIVE STRENGTH.
- SITE RETAINING WALLS AND EXPOSED CONCRETE WALLS SHALL HAVE CONTROL JOINTS A MAXIMUM OF 20 FEET ON CENTER UNLESS OTHERWISE NOTED ON THE DRAWINGS. MASONRY OR CONCRETE WALLS WITH INTEGRAL COLUMN PIERS OR PLASTERS SHALL HAVE A FORMED CONTROL JOINT ON ONE SIDE OF EACH PIER ON THE EXPOSED FACE OF THE WALL. JOINTS SHALL BE FILLED WITH SEALANT AS NOTED ON THE ARCHITECTURAL DRAWINGS

CONCRETE

- ALL CONCRETE SHALL BE READY-MIX AND HAVE THE FOLLOWING CHARACTERISTICS:

SLABS ON GRADE
 A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
 A MINIMUM OF 520 LBS. OF CEMENT PER CUBIC YARD.
 SLUMP (AT POINT OF CONCRETE PLACEMENT) SHALL BE 3-INCH MINIMUM AND 5-INCH MAXIMUM.
 FOOTINGS AND FOUNDATION WALLS
 A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
 A MINIMUM OF 520 LBS. OF CEMENT PER CUBIC YARD.
 SLUMP (AT POINT OF CONCRETE PLACEMENT) SHALL BE 3-INCH MINIMUM AND 5-INCH MAXIMUM.
 ELEVATED FORMED CONCRETE SLABS
 A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS.
 A MINIMUM OF 550 LBS. OF CEMENT PER CUBIC YARD.
 SLUMP (AT POINT OF CONCRETE PLACEMENT) SHALL BE 3-INCH MINIMUM AND 5-INCH MAXIMUM. FOR PUMPABLE CONCRETE, SLUMPS MAY BE INCREASED BY 3 INCHES.
 ABOVE GRADE WALLS AND COLUMNS
 A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS.
 A MINIMUM OF 550 LBS. OF CEMENT PER CUBIC YARD.
 SLUMP (AT POINT OF CONCRETE PLACEMENT) SHALL BE 3-INCH MINIMUM AND 5-INCH MAXIMUM. FOR PUMPABLE CONCRETE, SLUMPS MAY BE INCREASED BY 3 INCHES.
- ALL CONCRETE EXPOSED TO EXTERIOR CONDITIONS SHALL HAVE CHARACTERISTICS IN ACCORDANCE WITH ACI BUILDING CODE (ACI 308) AND THE 2004 INTERNATIONAL BUILDING CODE MAXIMUM WATER-CEMENTITIOUS MATERIAL RATIO SHALL BE 0.45. MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT 28 DAYS.
- ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITIONS OF THE FOLLOWING CODES AND STANDARDS:
 - ACI BUILDING CODE (ACI 308)
 - THE ACI DETAILING MANUAL (SP-66)
 - SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301)
- ALL REINFORCING STEEL SHALL BE MANUFACTURED FROM HIGH STRENGTH BILLET STEEL CONFORMING TO ASTM DESIGNATION A615 GRADE 60, LAP ALL BARS MINIMUM 48 BAR DIAMETERS. PROVIDE EPOXY COATED REINFORCING AT ALL LOCATIONS.
- ALL WVF SHALL BE MANUFACTURED FROM HIGH STRENGTH STEEL CONFORMING TO ASTM A195. LAP ALL WVF A MINIMUM OF 8 INCHES.
- FOR GRADE BEAMS, CONCRETE BEAMS AND STRUCTURAL SLABS LAP ALL TOP STEEL AT MID-SPAN AND LAP BOTTOM STEEL OVER SUPPORT.
- CONSTRUCTION JOINTS IN STRUCTURAL SLABS AND GRADE BEAMS SHALL BE AT MID-SPAN AND KEY JOINTED WITH REINFORCING CONTINUOUS ACROSS JOINT.
- CONCRETE SLAB ON GRADE SHALL BE FINISHED TO TOLERANCE FOR FLOOR FLATNESS (FF) OF 25 AND FLOOR LEVELNESS (FL) OF 20 UNLESS OTHERWISE MANDATED BY ARCHITECTURAL FINISH REQUIREMENTS.
- PLACE TRANSVERSE REINFORCING (SMB) IN BOTTOM LAYER OF CONTINUOUS FOOTINGS. PROVIDE CORNER BARS IN FOOTINGS TO MATCH CONTINUOUS REINFORCEMENT. EXTEND WALL FOOTING REINFORCING INTO COLUMN FOOTINGS A MINIMUM OF 2 FEET.
- PROVIDE KEYS IN CONCRETE WALLS, PIERS, GRADE BEAMS AND FOOTINGS AT INTERSECTIONS UNLESS NOTED OTHERWISE. PROVIDE CORNER BARS TO MATCH HORIZONTAL REINFORCEMENT AT WALL CORNERS AND TEE INTERSECTIONS.
- CONCRETE SHALL ACHIEVE A MINIMUM OF 10 PERCENT OF THE DESIGN STRENGTH PRIOR TO STEEL ERECTION. WRITTEN CONFIRMATION OF THIS STRENGTH SHOULD BE SUBMITTED TO THE ENGINEER OF RECORD PRIOR TO THE COMMENCEMENT OF STEEL ERECTION.

STEEL

- ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST AISI CODE. ALL STRUCTURAL STEEL WIDE FLANGE (W) SHAPES SHALL BE ASTM A992 GRADE 50 (F50). ALL STRUCTURAL STEEL S, M, AND HP SHAPES SHALL BE ASTM A912 GRADE 50 (F50). ALL OTHER STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED.
 - ALL STEEL RECTANGULAR/SQUARE HOLLOW STRUCTURAL SECTIONS SHALL BE ASTM A500 GRADE B, Fy=46 KSI.
 - ALL STEEL PIPE SECTIONS SHALL BE ASTM A501 OR ASTM A53, TYPE E OR S GRADE B.
 - ALL STEEL ROUND HOLLOW STRUCTURAL SECTIONS SHALL BE ASTM A500 GRADE B, Fy=42 KSI.
 - ALL STEEL SHALL BE THOROUGHLY CLEANED IN ACCORDANCE WITH SSPC- SP3 AND BE TREATED AS FOLLOWS:
 - HAVE A SHOP COAT OF RUST INHIBITIVE PAINT.
 - DELETE PAINT ON ALL STEEL TO RECEIVE SPRAYED-ON FIREPROOFING OR CONCRETE ENGAGEMENT.
 - ORIENT ALL MILL GAMBER UPWARD DURING FABRICATION AND ERECTION.
 - ALL ARCHITECTURALLY EXPOSED STRUCTURAL (AESS) AS NOTED ON THE DRAWINGS SHALL BE FABRICATED AND ERECTED AS FOLLOWS:
 - ALL STEEL SHALL BE THOROUGHLY CLEANED IN ACCORDANCE WITH SSPC- SP6 PRIOR TO PAINTING.
 - ALL WELDS SHALL BE GRIND SMOOTH TO THE APPROVAL OF THE ENGINEER OF RECORD AND THE ARCHITECT.
 - ALL PAINT SHALL BE TOUCHED UP TO THE APPROVAL OF THE ARCHITECT.
 - STEEL SHALL HAVE A SHOP COAT OF RUST INHIBITIVE PAINT COMPATIBLE TO THE FINISH PAINT PRODUCT.
 - ALL SHOP AND FIELD WELDING SHALL BE PERFORMED BY WELDERS CERTIFIED, AS DESCRIBED IN LATEST EDITION OF THE AMERICAN WELDING SOCIETY'S STANDARD QUALIFICATION PROCEDURE, AWS D11, TO PERFORM THE TYPE OF WORK REQUIRED.
 - ALL BOLTS USED FOR THE ANCHORAGE TO CONCRETE AS SPECIFIED ON THE DRAWINGS SHALL CONFORM TO ASTM F1554.
 - ALL CONNECTIONS SHALL BE BOLTED WITH A MINIMUM OF 3/4" A325N HIGH STRENGTH BOLTS OR WELDED AS DESIGNED BY THE STEEL FABRICATOR.
 - USE FULL DEPTH DOUBLE ANGLE CONNECTIONS ON ALL GIRDER AND BEAM CONNECTIONS TO COLUMNS. BOLTS SHALL BE AT 9-INCH O/C VERT.
 - USE FULL DEPTH DOUBLE ANGLE CONNECTIONS WITH TOP AND BOTTOM CLIP ANGLES (AISIC TYPE 2 FRJ) ON ALL GIRDER AND BEAM CONNECTIONS TO COLUMNS AS NOTED ON DRAWINGS. BOLTS SHALL BE AT 3-INCH O/C. BOLTS IN CLIP ANGLES SHALL BE AS NOTED IN THE DRAWINGS.
 - A MINIMUM 3/8 INCH THICK FULL DEPTH THRU-PLATE SHALL BE PROVIDED FOR ALL PIPE AND TUBE COLUMN CONNECTIONS, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - ALL BEAM TO GIRDER CONNECTIONS SHALL BE AS DESIGNED BY THE FABRICATOR SUBJECT TO THE ENGINEER'S APPROVAL. THE FOLLOWING CONNECTIONS ARE PERMITTED.
 - DOUBLE ANGLE
 - SHEAR PLATE
 - SINGLE PLATE
 - FABRICATOR SHALL ADHERE TO ALL OSHA FEDERAL REGISTER STANDARDS SECTION 1926.711 WITH REGARD TO CONNECTION DESIGN.
 - ALL TENSION CONTROLLED BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F1552 AND F2280.
 - ALL BRACE CONNECTIONS SHALL BE BOLTED WITH A MINIMUM OF 3/4" DIAMETER A490-SC HIGH STRENGTH BOLTS OR WELDED.
 - ALL ALUMINUM AND STEEL MEMBERS SHALL BE TREATED OR PROPERLY SEPARATED TO PREVENT GALVANIC AND CORROSIVE EFFECTS.
 - ALL STEEL WELDING RODS SHALL BE AS FOLLOWS:
 - E70XX FOR STEEL CONNECTIONS
 - E60XX FOR BRACE CONNECTIONS
 - E60XX FOR STEEL TO METAL STUD CONNECTIONS
 - SUBMIT ALL STEEL SHOP DRAWINGS FOR REVIEW PRIOR TO ANY FABRICATION. SUBMIT CALCULATIONS FOR ALL BRACE CONNECTIONS TO COLUMNS (CALCULATIONS NEED NOT BE SIGNED AND SEALED)
 - STEEL FABRICATOR IS SOLELY RESPONSIBLE FOR COORDINATING WITH THE GENERAL CONTRACTOR FOR THE PURPOSE OF SURVEYING AND VERIFICATION OF EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO THE LOCATION, ELEVATION, AND DIMENSIONS OF WALLS AND FRAMING THAT EXIST AT THE TIME OF THE STEEL ERECTION.
 - ALL LINTELS AND SHELF ANGLES SHALL BE HOT DIPPED GALVANIZED WITH ANY POINTS OF WELDING SHALL BE TOUCHED UP IN THE FIELD WITH A ZINC-RICH PAINT BY THE STEEL ERECTOR.
 - ALL EXPOSED STEEL SHALL BE HOT DIPPED GALVANIZED WITH ANY POINTS OF WELDING SHALL BE TOUCHED UP IN THE FIELD WITH A ZINC-RICH PAINT BY THE STEEL ERECTOR.
 - PERMETER ANGLE AND BENT PLATE AS NOTED ON THE DRAWINGS SHALL BE ADJUSTABLE. ANGLE AND BENT PLATE SHALL BE WELDED AFTER ADJUSTMENT IN THE FIELD.
 - SPANDREL ANGLE SHALL BE ADJUSTABLE. SHIP ANGLE LOOSE AND SET WITH STRING LINE IN FIELD FOR VERTICAL AND HORIZONTAL ALIGNMENT AFTER STEEL IS FULLY ERECTED TO A MAXIMUM TOLERANCE OF 1/4" HORIZONTAL PER BAY/PER FLOOR AND MUST BE SET PLUMB BY STEEL ERECTOR PRIOR TO STUD ERECTION. ANGLE MUST BE INSTALLED IN ONE LENGTH PER BAY.
- METAL ROOF DECK**
- STEEL ROOF DECK SHALL BE AS NOTED ON THE PLAN AND MANUFACTURED BY UNITED STEEL DECK, INC. OR APPROVED EQUAL. MANUFACTURER SHALL BE A MEMBER OF THE STEEL DECK INSTITUTE. ROOF DECK FABRICATION AND INSTALLATION MUST COMPLY WITH STEEL DECK INSTITUTE STANDARDS. ALL ROOF DECK SHALL BE CONTINUOUS OVER A MINIMUM OF THREE SPANS.
 - ALL ROOF DECK SHALL BE DESIGNED, MANUFACTURED, AND INSTALLED IN ACCORDANCE WITH THE LATEST FACTORY MUTUAL STANDARDS.
 - USE WELDING WASHERS ON ALL CONNECTIONS OF STEEL DECK WITH METAL THICKNESS LESS THAN 22 GA. TO STRUCTURAL STEEL SUPPORTS.
 - IN AREAS OF MARKED ROOF DECK USE SELF DRILLING SCREWS OR POWDER ACTUATED FASTENERS (PAF'S) FOR CONNECTIONS OF STEEL ROOF DECK TO STRUCTURAL STEEL SUPPORTS. SCREW OR PAF SIZES SHALL COMPLY WITH MANUFACTURER AND FACTORY MUTUAL REQUIREMENTS. ATTACH DECK TO ALL SUPPORTING ROOF JOISTS AND BEAMS.
 - ATTACH METAL ROOF DECK TO STRUCTURAL STEEL SUPPORTS WITH 5/8" DIAMETER PUDDLE WELDS OR 0.111" DIAMETER D5 NAIL (4 WELDS/NAILS PER 36" WIDE SHEET PER JOIST/BEAM). FASTEN SIDE LAPS TOGETHER WITH #12 SELF DRILLING SCREWS AT MID - SPAN BETWEEN SUPPORTS.
- MASONRY**
- MASONRY UNITS SHALL BE ASTM C90 SOLID OR ASTM C90 HOLLOW GROUTED SOLID BELOW GRADE. WITH MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI (AVERAGE OF 3 UNITS). ALL CMU SHALL BE LAID IN A FULL BED OF MORTAR.
 - FOLLOWING ARE THE BLOCK STRENGTHS REQUIRED:
 - ASTM C90 SOLID 2000 PSI ON GROSS AREA OF INDIVIDUAL UNITS.
 - ASTM C90 SOLID 1500 PSI ON NET AREA OF AVERAGE OF 3 UNITS PER ACI-530.
 - ASTM C90 HOLLOW 1100 PSI ON NET AREA OF INDIVIDUAL UNITS.
 - ALL MORTAR SHALL BE ASTM C270 TYPE S AND LAID USING A MIX WITH A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI AT 28 DAYS.
 - GROUT SHALL BE A HIGH SLUMP MIX IN ACCORDANCE WITH ASTM SPECIFICATION C416 HAVING A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - ALL CONCRETE MASONRY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE 'BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES ACI 530/ASCE 5/TMS 402' AND THE 'SPECIFICATION FOR MASONRY STRUCTURES ACI 530.1/ASCE 6/TMS 602.'
 - ALL BRICK MASONRY UNITS SHALL BE GRADE SN IN ACCORDANCE WITH ASTM C216 WITH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI, BONDED TOGETHER WITH TYPE S MORTAR.
 - PROVIDE HOT-DIPPED GALVANIZED TRUSS TYPE HORIZONTAL JOINT REINFORCEMENT, MIN. 9 GA. AT 16" ON CENTER VERTICAL IN ALL MASONRY WALLS. SPACE HORIZONTAL JOINT REINFORCEMENT AT 8 INCHES ON CENTER IN ALL PARAPETS. USE SHOP FABRICATED SPECIAL PIECES AT ALL CORNERS AND TEES.
- COLD FORMED STRUCTURAL METAL FRAMING**
- COLD FORMED METAL FRAMING DESIGNATIONS SHOWN ON STRUCTURAL DRAWINGS SHALL BE MANUFACTURED BY MARINO WARE OR APPROVED EQUAL. MANUFACTURER MUST SUBMIT LITERATURE INDICATING THAT THE METAL FRAMING SUPPLIED PROVIDES EQUIVALENT STRENGTH AND STIFFNESS. MANUFACTURER AND/OR SUPPLIER MUST PROVIDE INFORMATION INDICATING CAPACITY OF MEMBERS, FRAMING DETAILS, CONNECTIONS, BRACING, AND BRIDGING OF MEMBERS CONFORM TO LOAD CRITERIA. SUBMITTAL OF UNMARKED PRODUCT CATALOG PAGES AND FULL PRODUCT CATALOGS IS NOT PERMITTED.
 - COLD FORMED METAL ROOF TRUSSES ARE TO BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR THE DESIGN LOADS NOTED ON THE STRUCTURAL DRAWINGS. SUBMIT SIGNED AND SEALED CALCULATIONS AND SHOP DRAWINGS FOR REVIEW AND APPROVAL. SHOP DRAWINGS AND CALCULATIONS SHALL INDICATE CAPACITY MEMBERS, FRAMING DETAILS, CONNECTIONS, BRACING, AND BRIDGING.
 - ALL COLD FORMED METAL HEADERS INDICATED ON DRAWINGS ARE TO BE PROVIDED BY MANUFACTURER/SUPPLIER UNLESS OTHERWISE NOTED.
 - ALL STRUCTURAL METAL STUDS SHALL BE HOT-DIPPED GALVANIZED (G 60) IN ACCORDANCE WITH ASTM A924. COLD FORMED METAL STUDS SHALL BE DESIGNED, MANUFACTURED AND INSTALLED IN ACCORDANCE THE LATEST EDITIONS OF THE AISI SPECIFICATIONS AND SHALL COMPLY WITH ASTM A653 4 C455. ALL STUDS, JOISTS, AND ACCESSORIES SHALL HAVE THE FOLLOWING MINIMUM MATERIAL STRENGTHS:
 - 16 GA AND HEAVIER - Fy = 50KSI.
 - 18 GA, 20 GA - Fy = 39KSI.
 - ALL WELDING OF LIGHT GAGE STEEL FRAMING MUST BE DONE UTILIZING E60XX ELECTRODES AND SHALL BE COMPLETED BY CERTIFIED WELDERS IN ACCORDANCE WITH THE LATEST EDITION OF AWS D13 SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURES.
 - ALL CONNECTIONS SHALL BE MADE WITH SELF-TAPPING SCREWS OR WELDING SO THAT THE CONNECTIONS MEET OR EXCEEDS THE DESIGN LOADS. ALWAYS USE WELDS WHERE SHOWN ON DRAWINGS.
 - CUT ALL LIGHT GAGE STEEL FRAMING MEMBERS WITH SAWS OR SHEARS. FLAME CUTTING IS NOT PERMITTED.
 - THE LIGHT GAGE STEEL FRAMING SUPPLIER AND ERECTOR SHALL HAVE A MINIMUM 5 YEARS EXPERIENCE IN THE FABRICATION AND ERECTION OF LIGHT GAGE STEEL FRAMING SYSTEMS.

SOILS AND FOUNDATIONS

VERIFICATION/ INSPECTION	CONTINUOUS	PERIODIC	REFERENCE STANDARD	IBC 2006 REFERENCE
1. SOILS				
A. VERIFY SITE PREPARATION, REVIEW PROOF ROLLING ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS.	X	X	-	1104.1.1
B. REVIEW SUBMITTALS FOR FILL MATERIALS	X	X	-	1104.1.2
C. VERIFY USE OF FILL MATERIAL AND LIFT THICKNESS IN FIELD	X	X	-	1104.1.2
D. REVIEW FOOTING BEARING STRATA MATERIAL & CAPACITY	X	X	-	-
E. REVIEW SLAB SUBGRADE AND SUBBASE PREPARATION.	X	X	-	-
F. REVIEW DEPTH OF FOOTING RELATIVE TO FINISH GRADE.	X	X	-	-
2. COMPACTION TESTING FOR IN-PLACE DRY DENSITY.	-	X		1104.3

CAST-IN-PLACE CONCRETE

VERIFICATION/ INSPECTION	CONTINUOUS	PERIODIC	REFERENCE STANDARD	IBC 2006 REFERENCE
1. INSPECTION OF REINFORCING STEEL INCLUDING PRESTRESSING TENDONS AND PLACEMENT.	-	X	ACI 318: 3.5, 7.1-7.7	1903.5, 1907.1, 1907.7, 1914.4
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1104.3, ITEM 5B.	-	-	AMS D1.4, ACI 318: 9.5.2	1903.5, 1907.1, 1907.7, 1914.4
3. INSPECTION BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED	X	-		1912.5
4. VERIFYING USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: CH.4, 5.2-5.4	1904, 1905.2-1905.4, 1914.2, 1914.3
5. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C 172, ASTM C 31, ACI318: 5.6-5.8	1905.6, 1914.10
6. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI318: 5.9, 5.10	1905.9, 1905.10, 1914.6 - 1914.8
7. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	X	-	ACI318: 5.11-5.13	1905.11, 1905.13, 1914.9
8. VERIFICATION OF IN-SITU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND STRUCTURAL SLABS.	-	X	ACI 318: 6.2	1906.2
9. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 6.1.1	

PILE FOUNDATIONS

VERIFICATION/ INSPECTION	CONTINUOUS	PERIODIC	REFERENCE STANDARD	IBC 2006 REFERENCE
1. VERIFY PILE MATERIALS, SIZES AND LENGTHS COMPLY WITH THE REQUIREMENTS.	X	-		
2. DETERMINE CAPACITIES OF TEST PILES AND CONDUCT ADDITIONAL LOAD TESTS AS REQUIRED.	X	-		
3. OBSERVE DRIVING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH PILE.	X	-		
4. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP AND BUTT ELEVATIONS AND DOCUMENT ANY PILE DAMAGE	X	-		
5. FOR SPECIALTY PILES, PERFORM ADDITIONAL INSPECTIONS AS DETERMINED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.	X	-		

NOTES:

- THE CONTRACTOR WILL ENGAGE (SEE CONTRACT REQUIREMENTS) THE SERVICES OF ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON WORK INDICATED IN THE SCHEDULE OF SPECIAL INSPECTIONS, IN ACCORDANCE WITH THE PROVISIONS OF CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE (IBC).
- SPECIAL INSPECTIONS AND TESTING SHALL BE PERFORMED ON A CONTINUOUS OR PERIODIC FREQUENCY AS NOTED IN THE SCHEDULE.
- REFER TO THE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INSPECTION AND TESTING REQUIREMENTS.
- DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF DISCREPANCIES ARE NOT CORRECTED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO COMPLETION OF THAT PHASE OF THE WORK.
- THE SPECIAL INSPECTOR SHALL SUBMIT INSPECTION REPORTS TO THE CONTRACTOR, ARCHITECT, OWNER AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL DOCUMENT REQUIRED INSPECTIONS AND CORRECTIONS OF ANY DISCREPANCIES. REPORTS SHALL BE PROVIDED AT INTERVALS CONVEYING THE PROGRESS OF CONSTRUCTION.

ADDENDUMS / REVISIONS

NO.	DATE	DESCRIPTION
1	01/25/2013	90% SUBMISSION
2	12/15/2014	PS&E SUBMISSION
3	11/16/2015	CONSTRUCTION PLANS

SCALE: As indicated

Churchman's Crossing Fairplay Station Elevator

CONTRACT	BRIDGE NO.	NA
T201253105	DRAWN BY:	JNR
COUNTY	CHECKED BY:	JRB
NEW CASTLE		

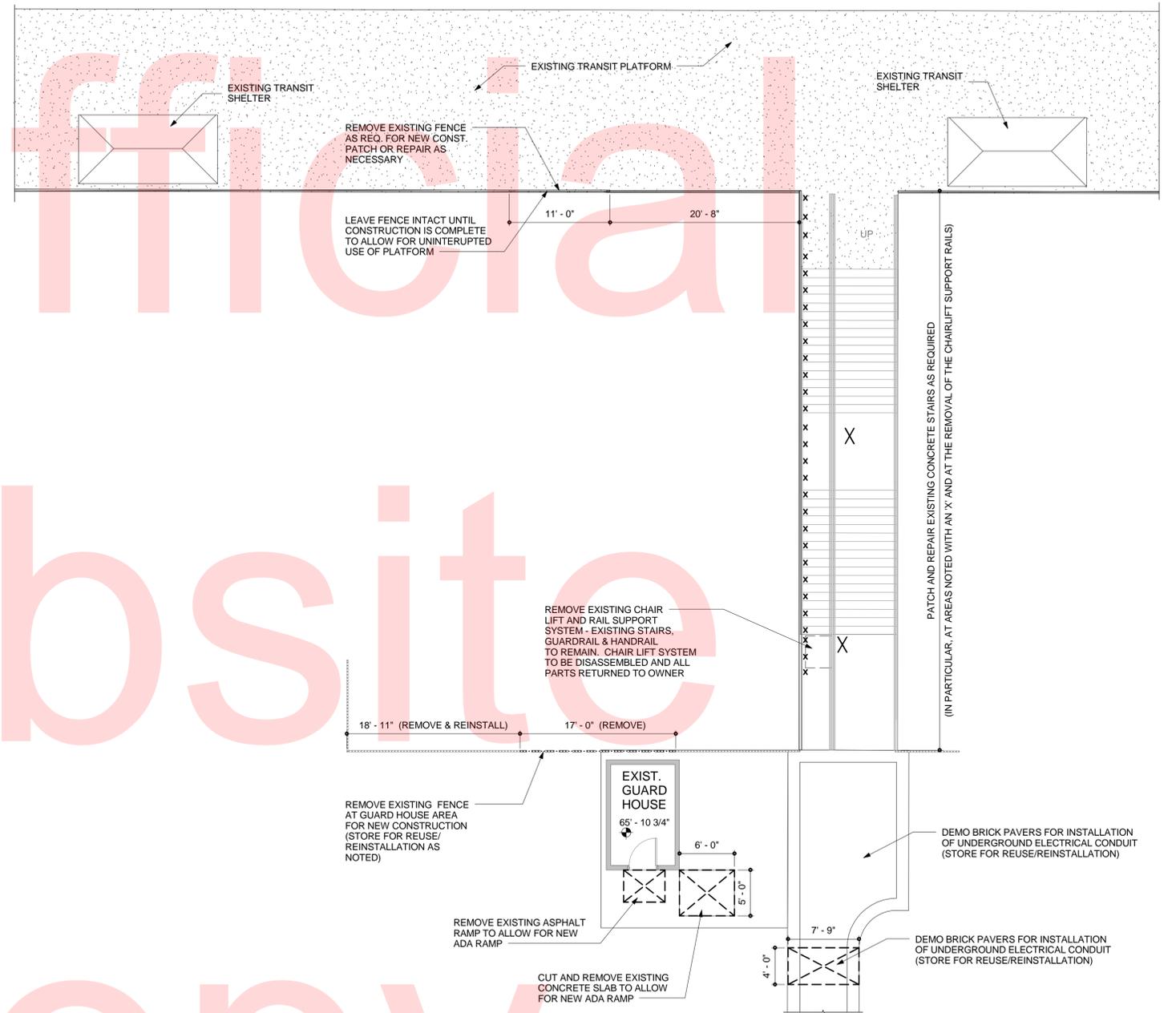
SPECIAL INSPECTION SCHEDULES & GENERAL NOTES

SHEET NO.	14
TOTAL SHTS.	31



DELAWARE DEPARTMENT OF TRANSPORTATION

Unofficial
 Website
 Copy



1 GUARDHOUSE LEVEL DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

- GENERAL NOTES:**
- 1) IF CRANE IS TO BE USED ON SITE, A MINIMUM OF 72 HOURS NOTICE MUST BE PROVIDED TO THE OWNER.
 - 2) OWNER MUST BE NOTIFIED A MINIMUM OF 72 HOURS PRIOR TO ANY WORK BEING DONE TO TIE-IN NEW CONSTRUCTION TO THE EXISTING TRAIN PLATFORM.



DELAWARE
 DEPARTMENT OF
 TRANSPORTATION

ADDENDUMS / REVISIONS		
1	01/25/2013	90% SUBMISSION
2	12/15/2014	PS&E Submission
3	11/16/2015	Construction Plans

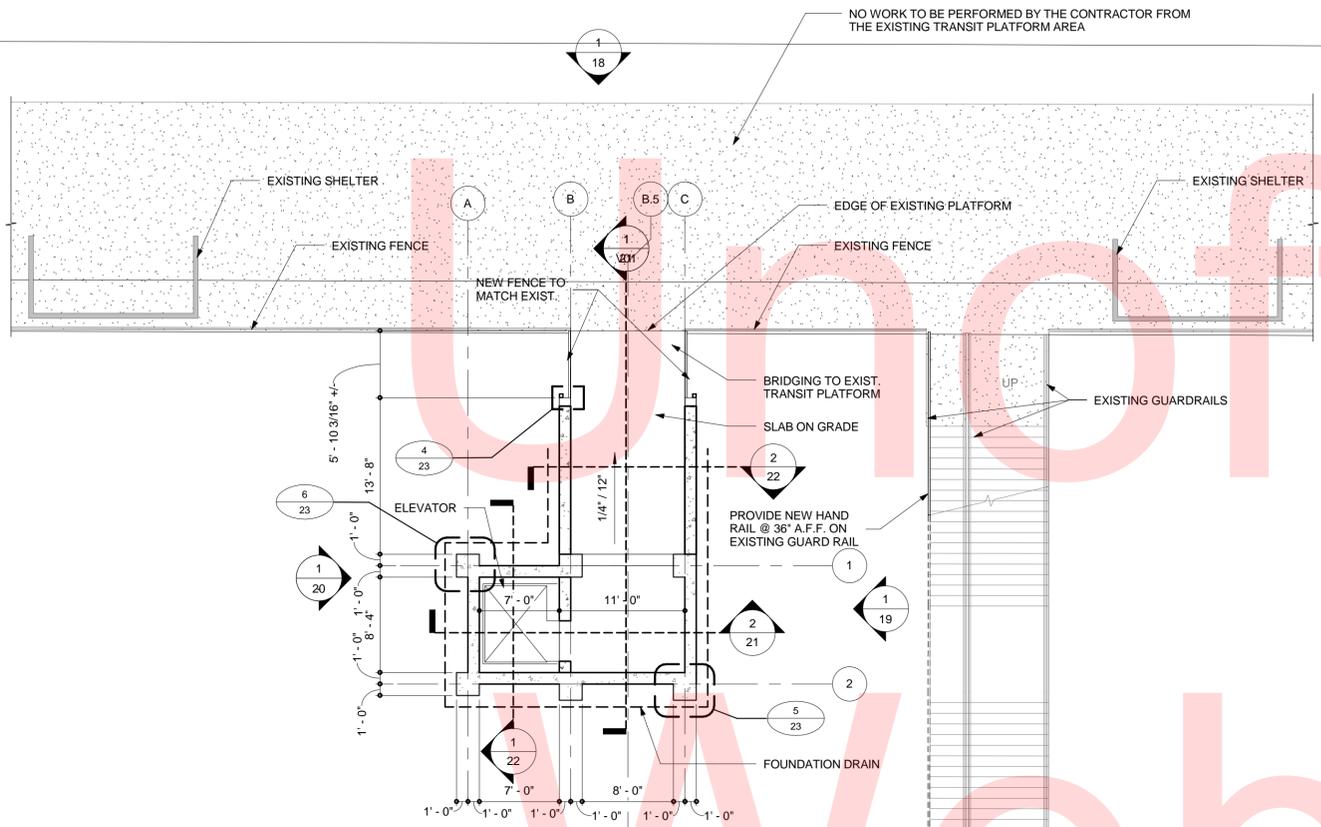
SCALE: 1/8" = 1'-0"

Churchman's Crossing Fairplay
 Station Elevator

CONTRACT	BRIDGE NO.	N/A
T201253105	DRAWN BY:	BLH
COUNTY	CHECKED BY:	WJS
NEW CASTLE		

DEMOLITION PLAN

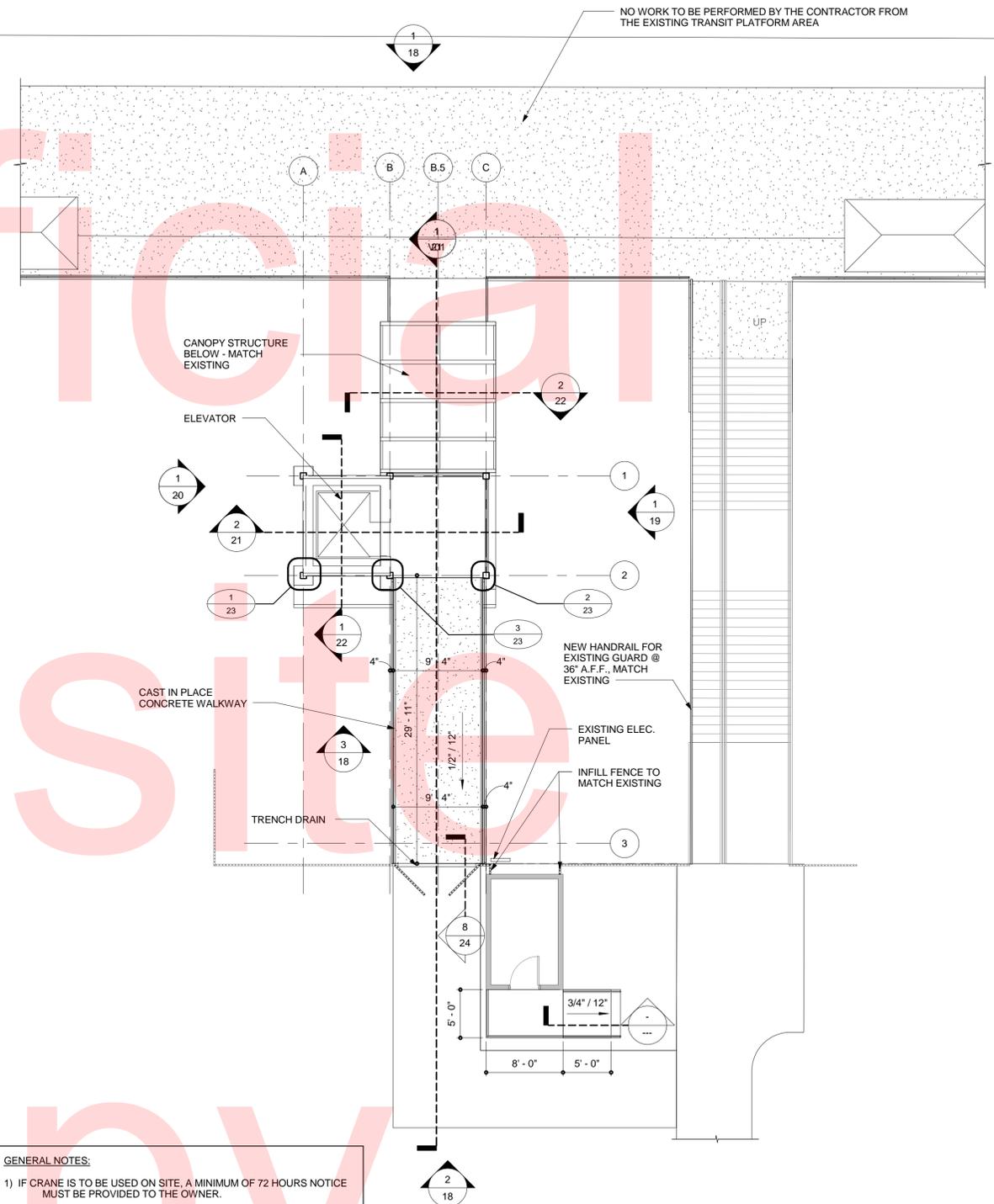
SHEET NO.	15
TOTAL SHTS.	31



GENERAL NOTES:

- 1) IF CRANE IS TO BE USED ON SITE, A MINIMUM OF 72 HOURS NOTICE MUST BE PROVIDED TO THE OWNER.
- 2) OWNER MUST BE NOTIFIED A MINIMUM OF 72 HOURS PRIOR TO ANY WORK BEING DONE TO TIE-IN NEW CONSTRUCTION TO THE EXISTING TRAIN PLATFORM.

2 TRANSIT PLATFORM
SCALE: 1/8" = 1'-0"



GENERAL NOTES:

- 1) IF CRANE IS TO BE USED ON SITE, A MINIMUM OF 72 HOURS NOTICE MUST BE PROVIDED TO THE OWNER.
- 2) OWNER MUST BE NOTIFIED A MINIMUM OF 72 HOURS PRIOR TO ANY WORK BEING DONE TO TIE-IN NEW CONSTRUCTION TO THE EXISTING TRAIN PLATFORM.

1 GUARDHOUSE LEVEL
SCALE: 1/8" = 1'-0"



DELAWARE
DEPARTMENT OF
TRANSPORTATION

ADDENDUMS / REVISIONS		
1	01/25/2013	90% SUBMISSION
2	12/15/2014	PS&E Submission
3	11/16/2015	Construction Plans

SCALE: 1/8" = 1'-0"

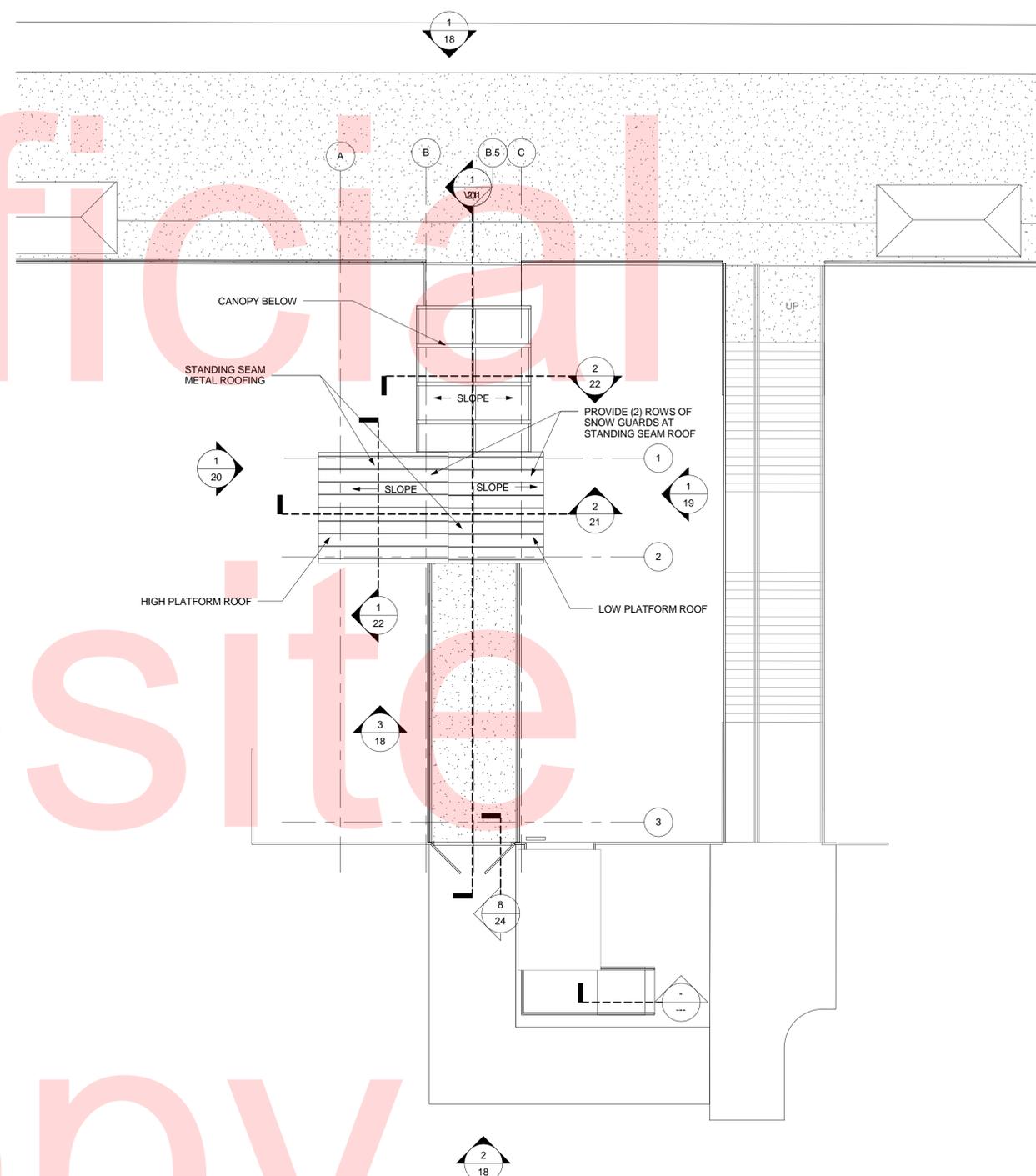
Churchman's Crossing Fairplay
Station Elevator

CONTRACT	BRIDGE NO.	N/A
T201253105	DRAWN BY:	BLH
COUNTY	CHECKED BY:	WJS
NEW CASTLE		

FLOOR PLANS

SHEET NO.	16
TOTAL SHTS.	31

Unofficial
Website
Copy



1 ROOF PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:
 1) IF CRANE IS TO BE USED ON SITE, A MINIMUM OF 72 HOURS NOTICE MUST BE PROVIDED TO THE OWNER.
 2) OWNER MUST BE NOTIFIED A MINIMUM OF 72 HOURS PRIOR TO ANY WORK BEING DONE TO TIE-IN NEW CONSTRUCTION TO THE EXISTING TRAIN PLATFORM.



DELAWARE
DEPARTMENT OF
TRANSPORTATION

ADDENDUMS / REVISIONS		
1	01/25/2013	90% SUBMISSION
2	12/15/2014	PS&E Submission
3	11/16/2015	Construction Plans

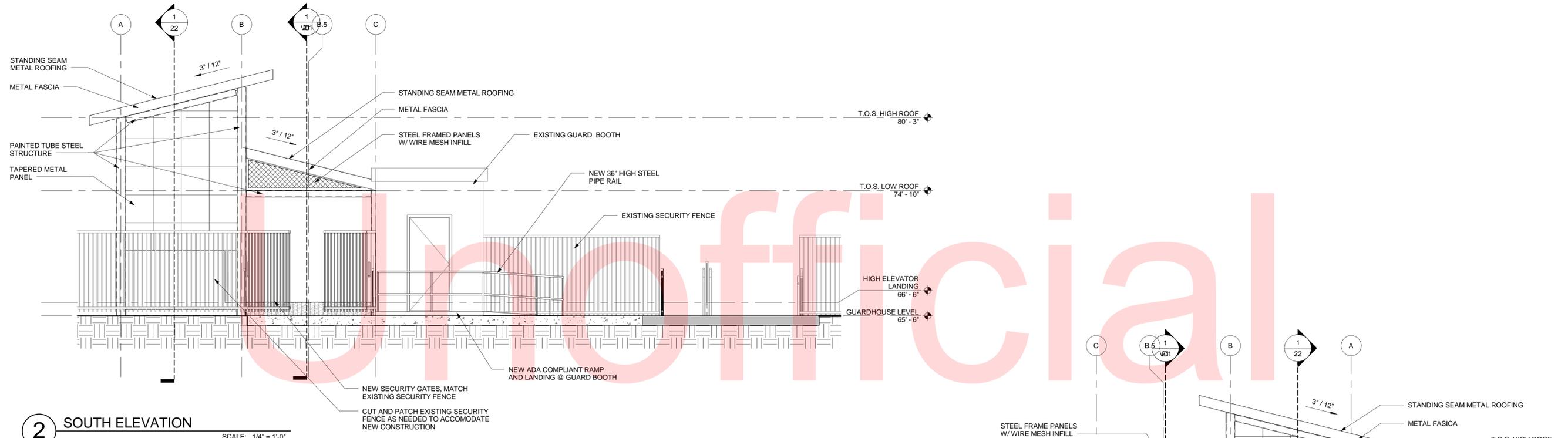
SCALE: 1/8" = 1'-0"

Churchman's Crossing Fairplay
Station Elevator

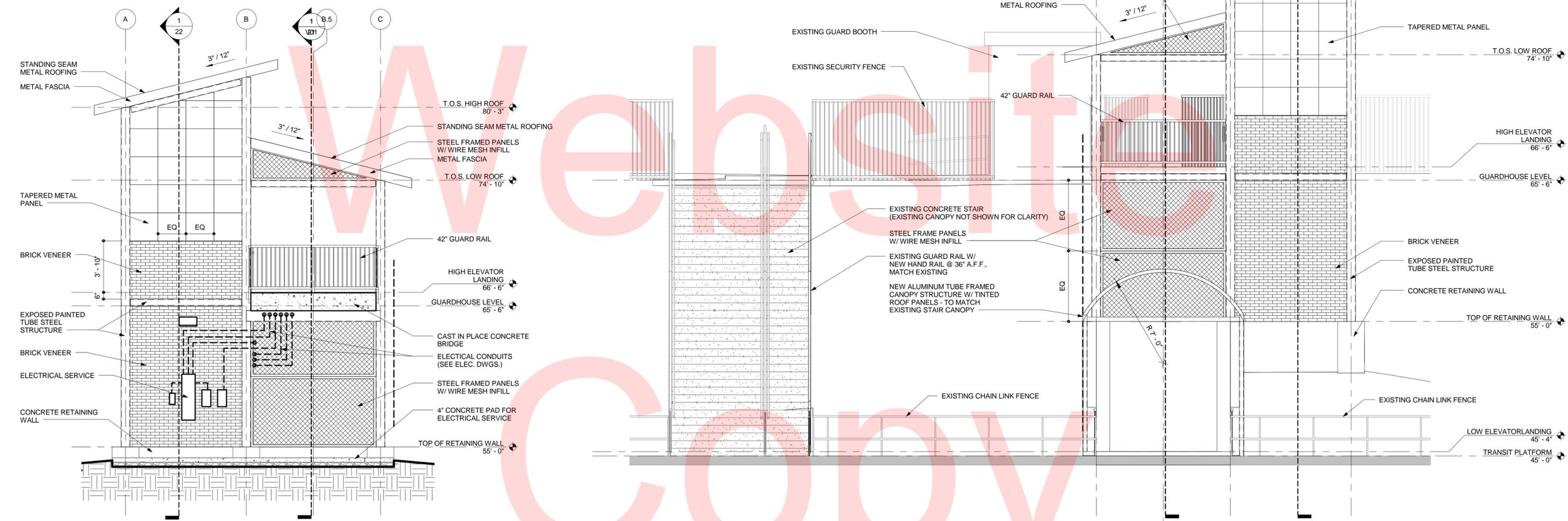
CONTRACT	BRIDGE NO.	N/A
T201253105	DRAWN BY:	BLH
COUNTY	CHECKED BY:	WJS
NEW CASTLE		

ROOF PLAN

SHEET NO.	17
TOTAL SHTS.	31



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



3 SOUTH ELEVATION 2
SCALE: 1/4" = 1'-0"

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



DELAWARE
DEPARTMENT OF
TRANSPORTATION

ADDENDUMS / REVISIONS		
1	01/25/2013	90% SUBMISSION
2	12/15/2014	PS&E Submission
3	11/16/2015	Construction Plans

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

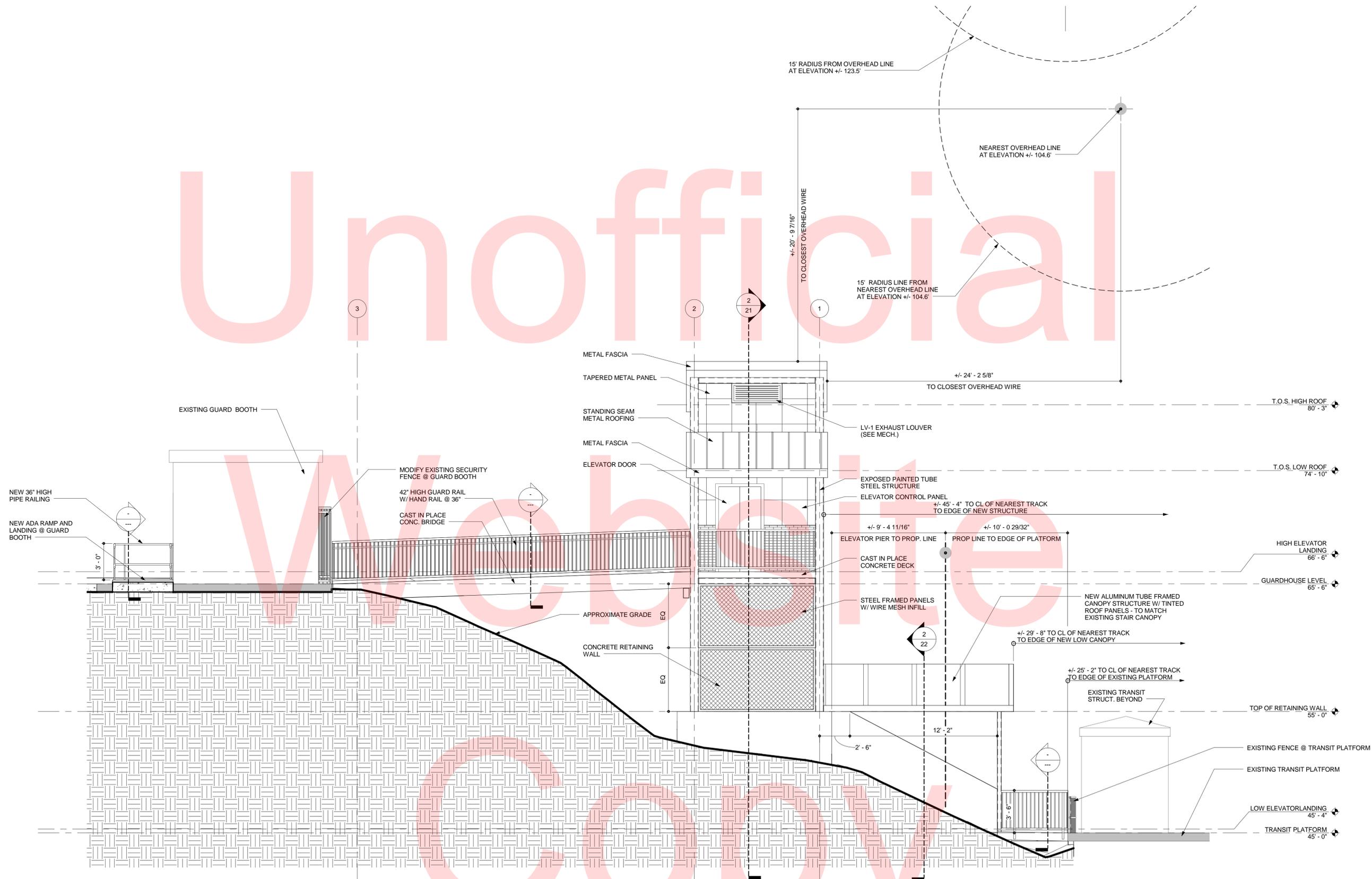
Churchman's Crossing Fairplay
Station Elevator

CONTRACT	BRIDGE NO.	N/A
T201253105	DRAWN BY:	BLH
COUNTY	CHECKED BY:	WJS
NEW CASTLE		

NORTH AND SOUTH
ELEVATIONS

SHEET NO.	18
TOTAL SHTS.	31

Unofficial



1 EAST ELEVATION
SCALE: 1/4" = 1'-0"



DELAWARE
DEPARTMENT OF
TRANSPORTATION

ADDENDUMS / REVISIONS		
1	01/25/2013	90% SUBMISSION
2	12/15/2014	PS&E Submission
3	11/16/2015	Construction Plans

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

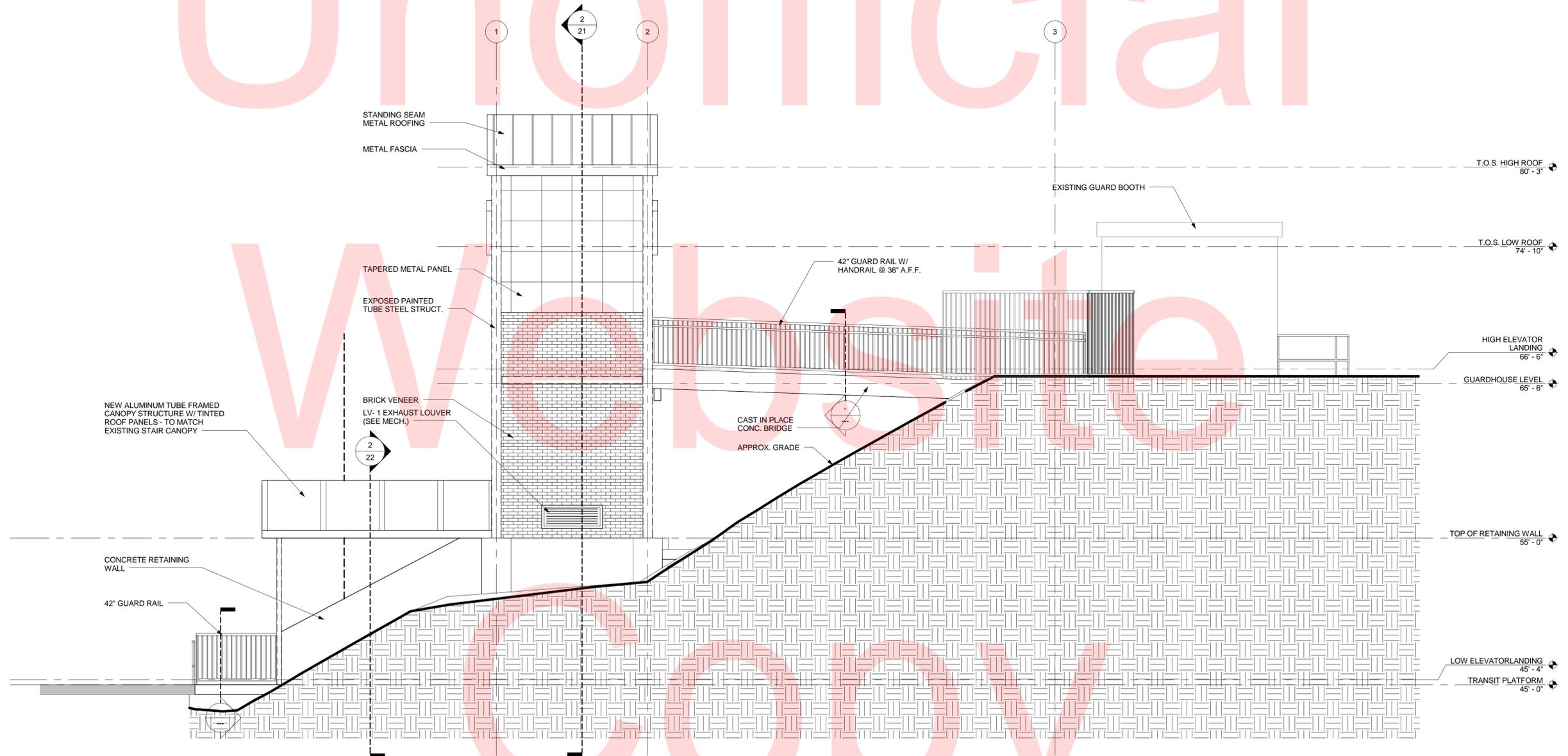
Churchman's Crossing Fairplay
Station Elevator

CONTRACT	BRIDGE NO.	N/A
T201253105	DRAWN BY:	BLH
COUNTY	CHECKED BY:	WJS
NEW CASTLE		

EAST ELEVATION

SHEET NO.	19
TOTAL SHTS.	31

Unofficial



1 WEST ELEVATION
SCALE: 1/4" = 1'-0"



DELAWARE
DEPARTMENT OF
TRANSPORTATION

ADDENDUMS / REVISIONS		
1	01/25/2013	90% SUBMISSION
2	12/15/2014	PS&E Submission
3	11/16/2015	Construction Plans

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

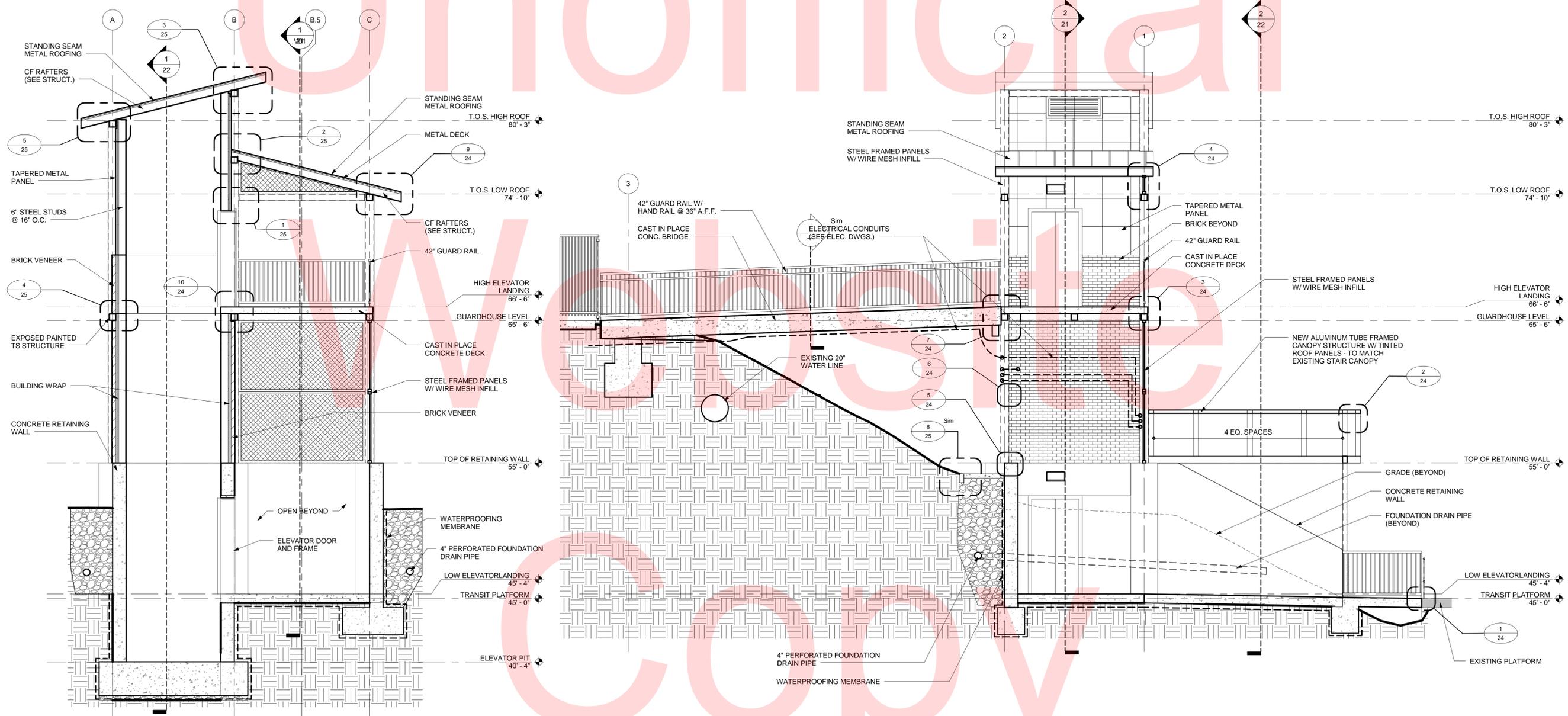
Churchman's Crossing Fairplay
Station Elevator

CONTRACT	BRIDGE NO.	N/A
T201253105	DRAWN BY:	BLH
COUNTY	CHECKED BY:	WJS
NEW CASTLE		

WEST ELEVATION

SHEET NO.	20
TOTAL SHTS.	31

Unofficial



2 EAST/WEST SECTION
SCALE: 1/4" = 1'-0"

1 NORTH/SOUTH SECTION
SCALE: 1/4" = 1'-0"



DELAWARE
DEPARTMENT OF
TRANSPORTATION

ADDENDUMS / REVISIONS		
1	01/25/2013	90% SUBMISSION
2	12/15/2014	PS&E Submission
3	11/16/2015	Construction Plans

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

Churchman's Crossing Fairplay
Station Elevator

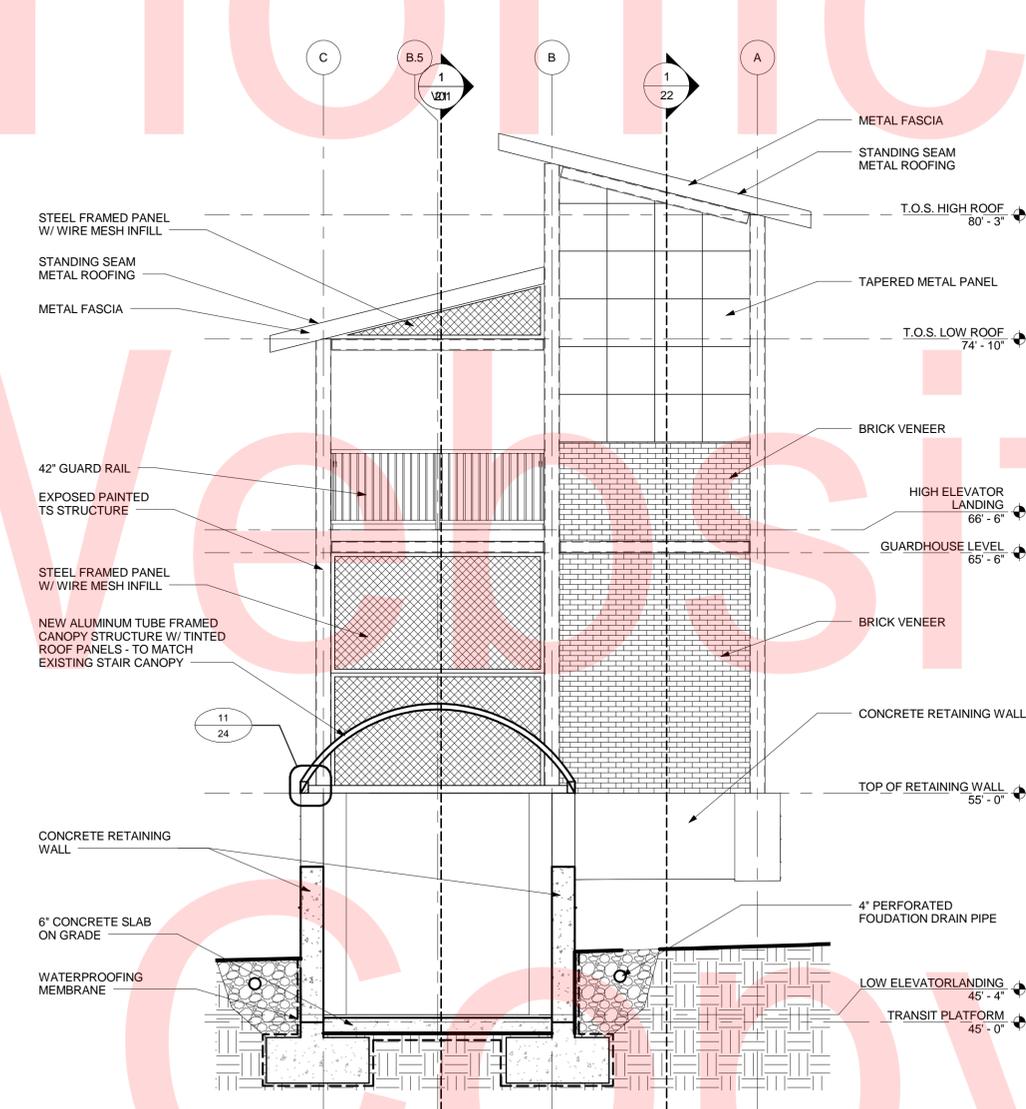
CONTRACT	BRIDGE NO.	N/A
T201253105	DRAWN BY:	BLH
COUNTY	CHECKED BY:	WJS
NEW CASTLE		

BUILDING SECTIONS

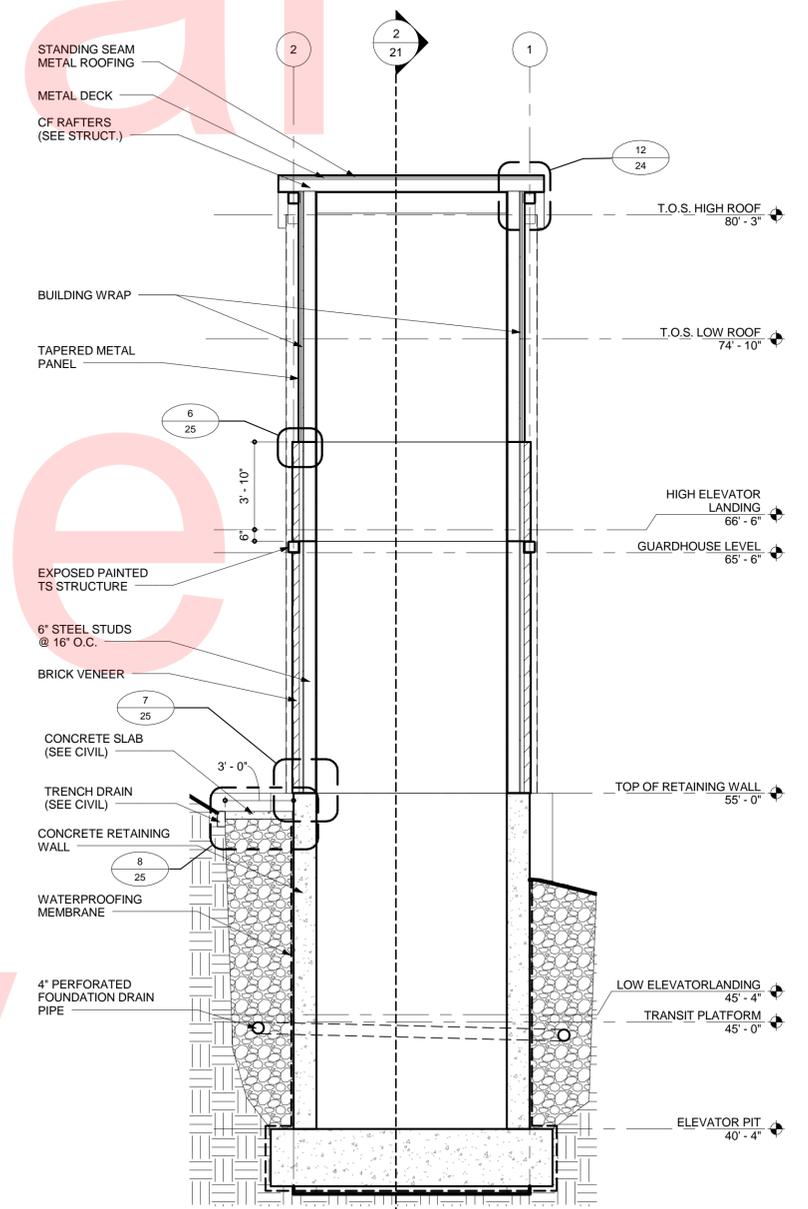
SHEET NO.	21
TOTAL SHTS.	31

Unofficial

Website



2 LOW CANOPY SECTION
SCALE: 1/4" = 1'-0"



1 SOUTH ELEVATOR SHAFT WALL
SCALE: 1/4" = 1'-0"



DELAWARE
DEPARTMENT OF
TRANSPORTATION

ADDENDUMS / REVISIONS		
1	01/25/2013	90% SUBMISSION
2	12/15/2014	PS&E Submission
3	11/16/2015	Construction Plans

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

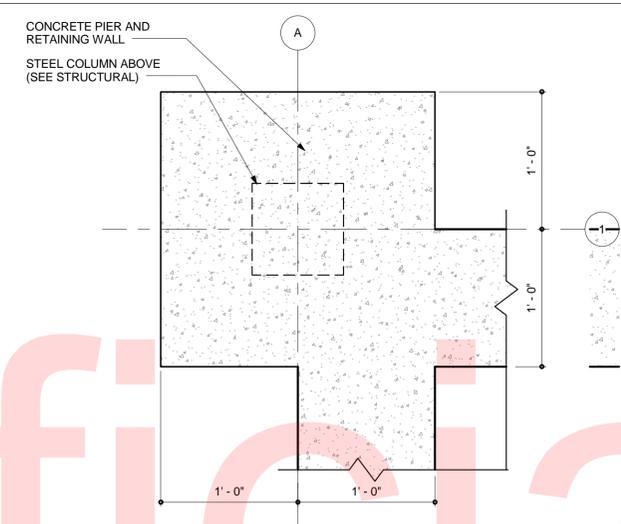
Churchman's Crossing Fairplay
Station Elevator

CONTRACT	BRIDGE NO.	N/A
T201253105	DRAWN BY:	BLH
COUNTY	CHECKED BY:	WJS
NEW CASTLE		

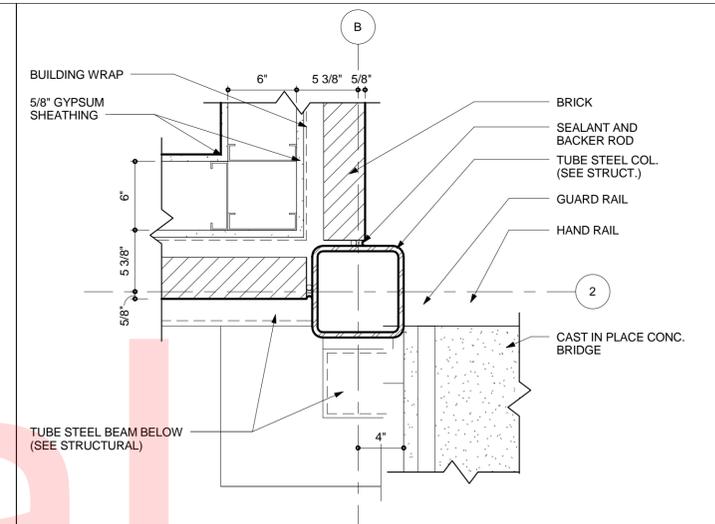
BUILDING SECTIONS

SHEET NO.	22
TOTAL SHTS.	31

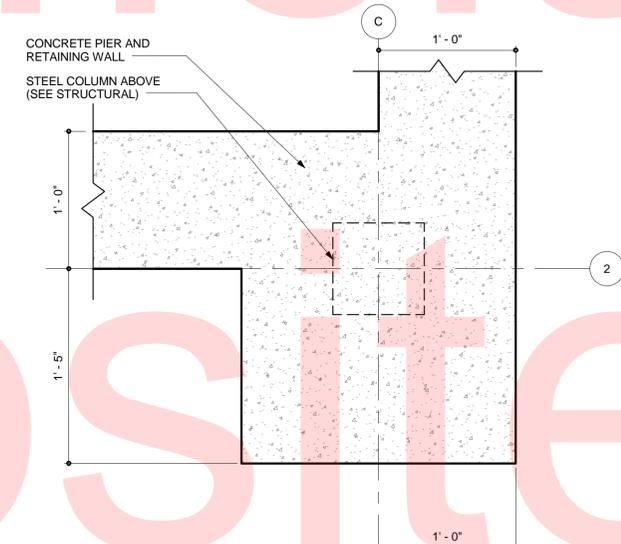
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 Website
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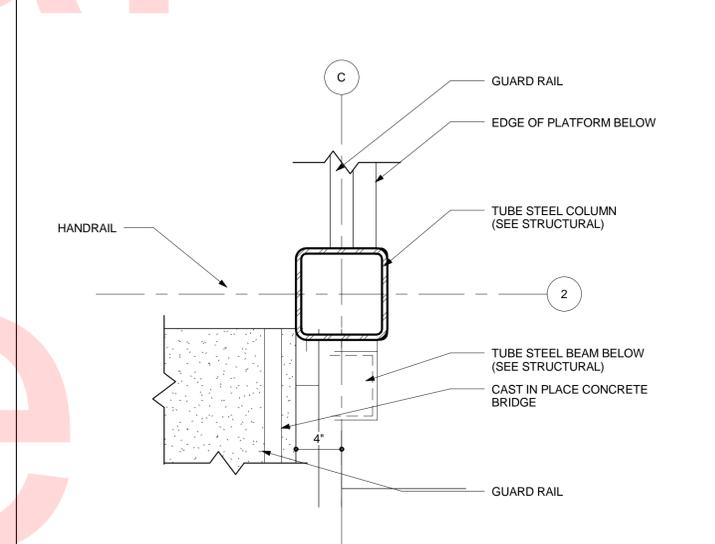
6 PLAN DETAIL 06
SCALE: 1 1/2" = 1'-0"



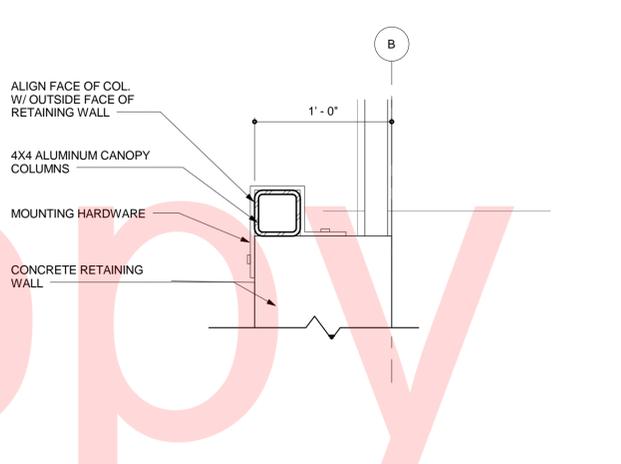
3 PLAN DETAIL 03
SCALE: 1 1/2" = 1'-0"



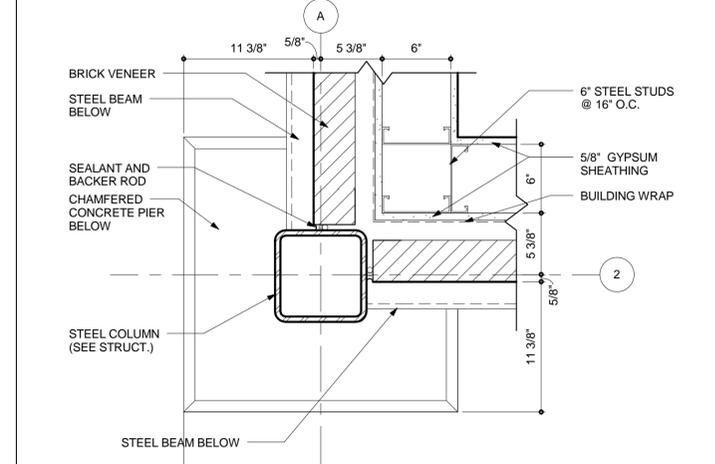
5 PLAN DETAIL 05
SCALE: 1 1/2" = 1'-0"



2 PLAN DETAIL 02
SCALE: 1 1/2" = 1'-0"



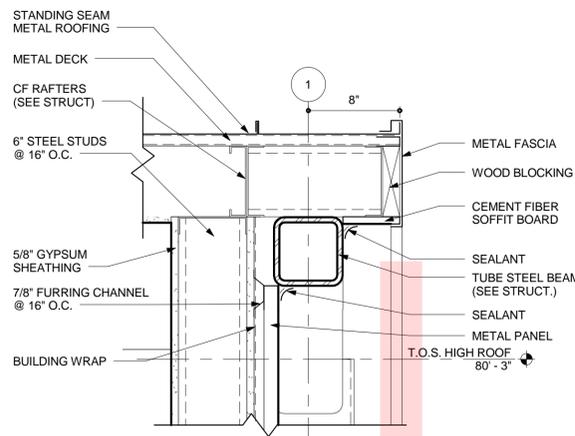
4 PLAN DETAIL 04
SCALE: 1 1/2" = 1'-0"



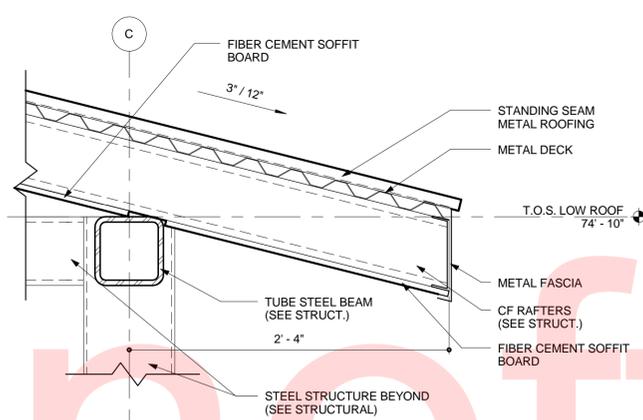
1 STEEL COLUMN CORNER @ BRICK VENEER (TYPICAL)
SCALE: 1 1/2" = 1'-0"

ADDENDUMS / REVISIONS		
1	01/25/2013	90% SUBMISSION
2	12/15/2014	PS&E Submission
3	11/16/2015	Construction Plans

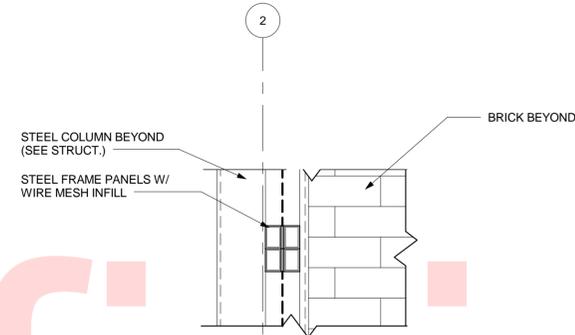
CONTRACT	BRIDGE NO.	N/A
T201253105	DRAWN BY:	BLH
COUNTY	CHECKED BY:	WJS
NEW CASTLE		



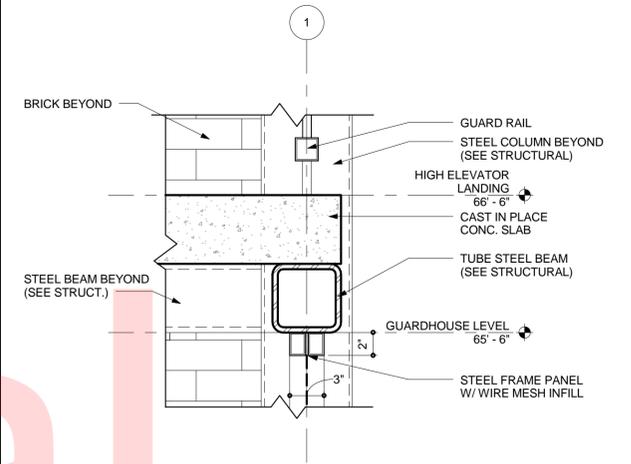
12 NORTH WALL @ HIGH ROOF
SCALE: 1 1/2" = 1'-0"



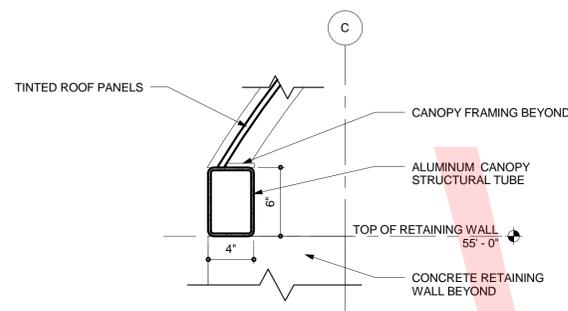
9 EAST ROOF OVERHANG
SCALE: 1 1/2" = 1'-0"



6 PERF PANEL FRAMES
SCALE: 1 1/2" = 1'-0"

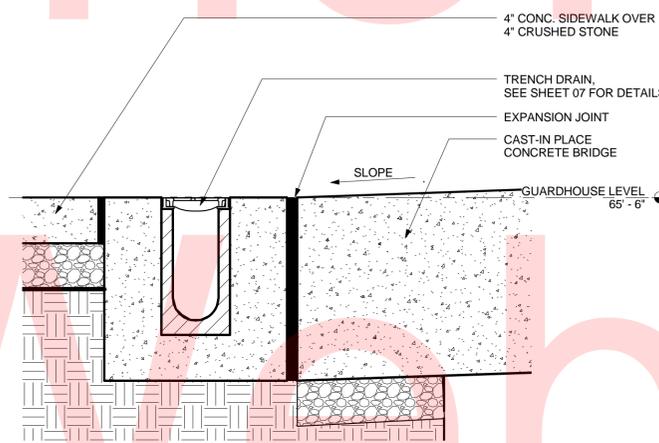


3 HIGH LANDING @ RAILING
SCALE: 1 1/2" = 1'-0"

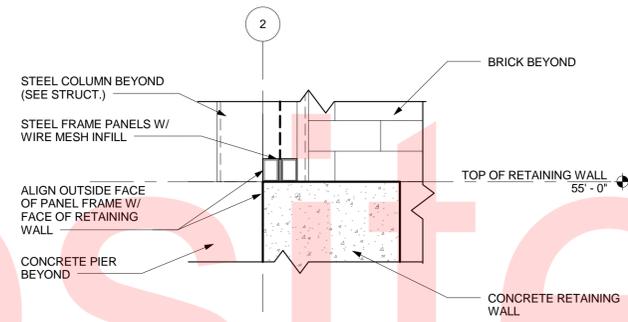


11 LOW CANOPY SECTION
SCALE: 1 1/2" = 1'-0"

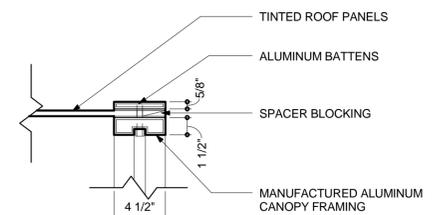
NOTES:
ALUMINUM FRAMED CANOPY STRUCTURE
TO MATCH EXISTING STAIR CANOPY



8 BRIDGE SLAB @ GRADE
SCALE: 1 1/2" = 1'-0"

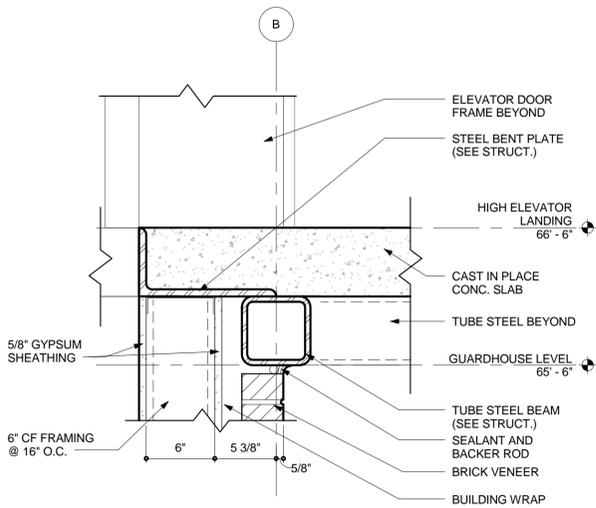


5 PERF PANEL FRAME SILL
SCALE: 1 1/2" = 1'-0"

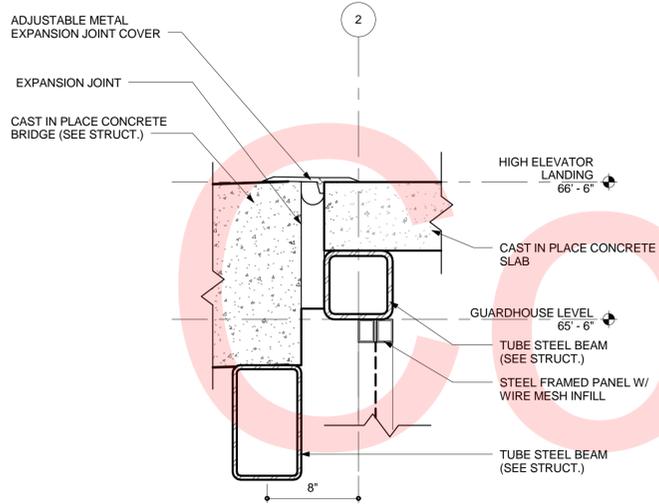


2 LOW CANOPY FASCIA
SCALE: 1 1/2" = 1'-0"

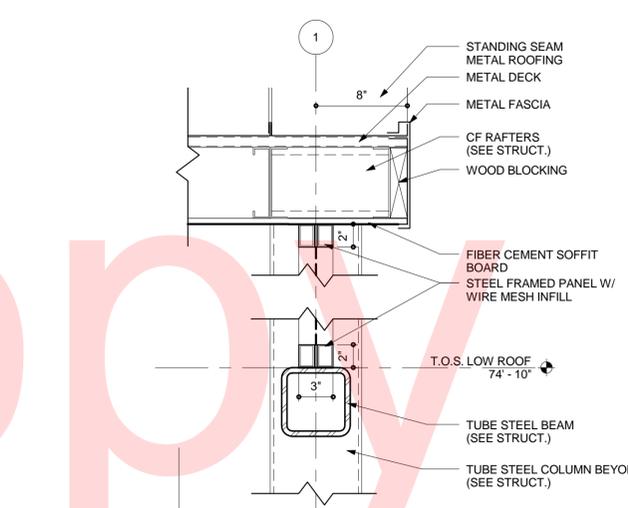
NOTES:
ALUMINUM FRAMED CANOPY STRUCTURE
TO MATCH EXISTING STAIR CANOPY



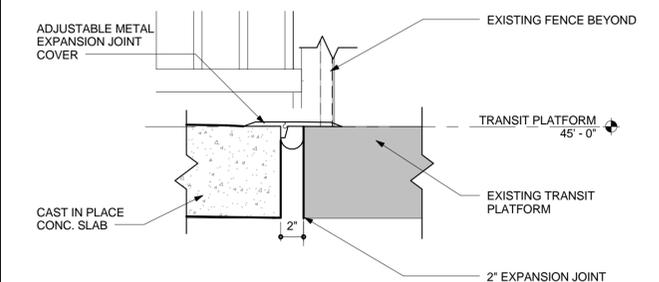
10 FLOOR @ HIGH LANDING
SCALE: 1 1/2" = 1'-0"



7 SOUTH WALL @ WALKWAY
SCALE: 1 1/2" = 1'-0"



4 NORTH WALL @ LANDINGS
SCALE: 1 1/2" = 1'-0"



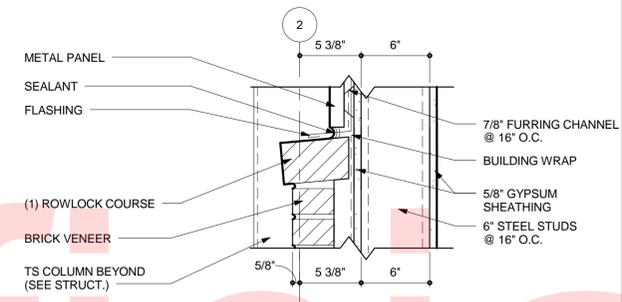
1 LOW BRIDGING TO PLATFORM
SCALE: 1 1/2" = 1'-0"

ADDENDUMS / REVISIONS		
1	01/25/2013	90% SUBMISSION
2	12/15/2014	PS&E Submission
3	11/16/2015	Construction Plans

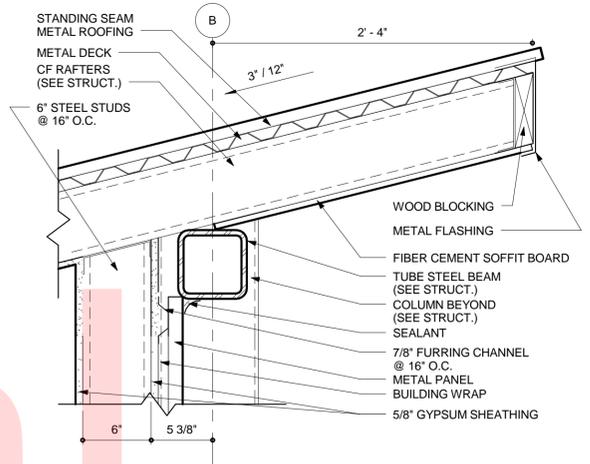
CONTRACT	BRIDGE NO.	N/A
T201253105	DRAWN BY:	BLH
COUNTY	CHECKED BY:	WJS
NEW CASTLE		

SHEET NO.	24
TOTAL SHTS.	31

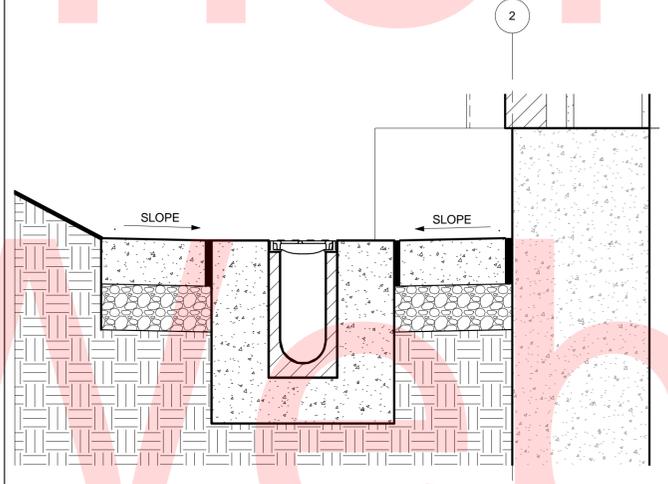
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View Only



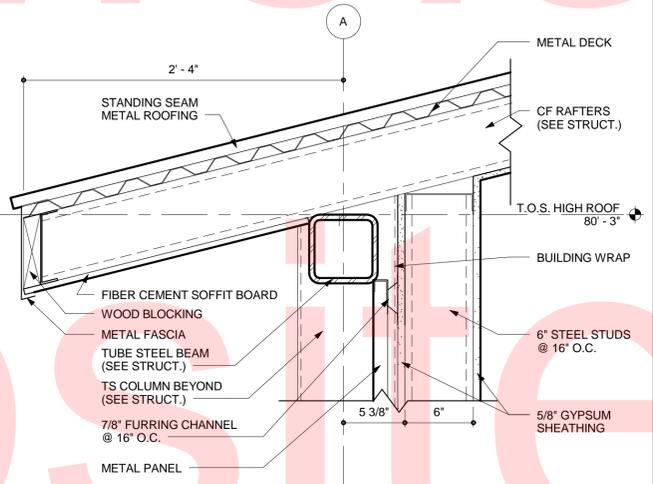
6 BRICK TO METAL PANEL TRANSITION
SCALE: 1 1/2" = 1'-0"



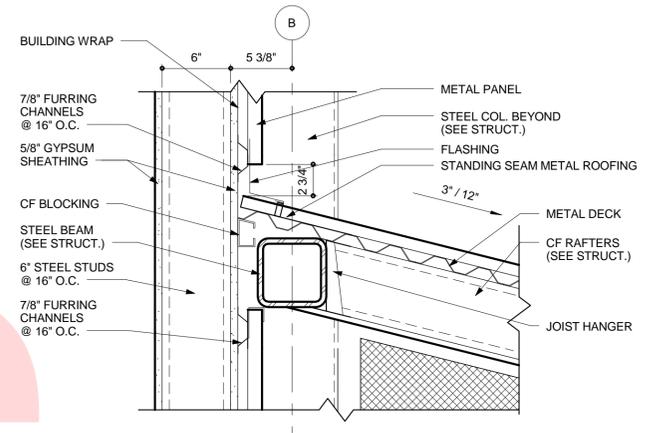
3 HIGH ROOF STEEL
SCALE: 1 1/2" = 1'-0"



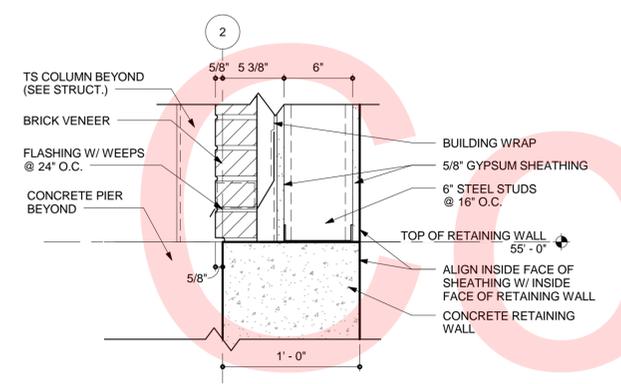
8 DRAIN @ ELECTRICAL PAD
SCALE: 1 1/2" = 1'-0"



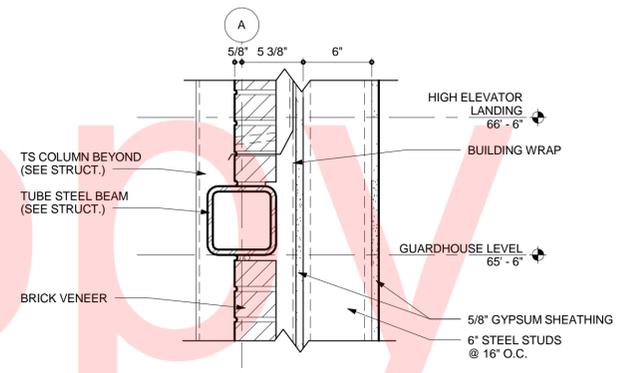
5 WEST ROOF OVERHANG
SCALE: 1 1/2" = 1'-0"



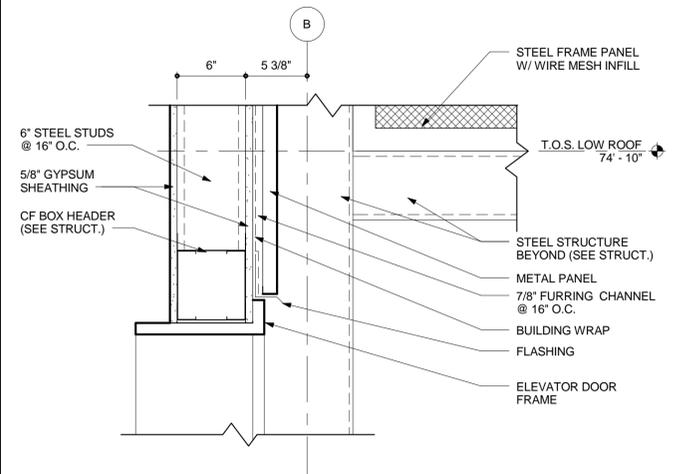
2 LOW ROOF FRAMING @ WALL
SCALE: 1 1/2" = 1'-0"



7 BRICK @ TOP OF RETAINING WALL
SCALE: 1 1/2" = 1'-0"



4 MID LEVEL STEEL TRANSITION
SCALE: 1 1/2" = 1'-0"



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

ADDENDUMS / REVISIONS		
1	01/25/2013	90% SUBMISSION
2	12/15/2014	PS&E Submission
3	11/16/2015	Construction Plans

CONTRACT	BRIDGE NO.	N/A
T201253105	DRAWN BY:	BLH
COUNTY	CHECKED BY:	WJS
NEW CASTLE		

SHEET NO.	25
TOTAL SHTS.	31

ELECTRICAL ABBREVIATIONS:

NOTE: REFER TO MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT ABBREVIATIONS

A	AMPERES
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EGC	EQUIPMENT GROUNDING CONDUCTOR
EQPM	EQUIPMENT
FLR	FLOOR
FSS	FUSED SAFETY SWITCH
G/GND	GROUND
GEC	GROUNDING ELECTRODE CONDUCTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTING
HACR	HEATING, AIR CONDITIONING, REFRIGERATION RATED
H-O-A	HAND-OFF-AUTO
HP	HORSEPOWER
JB	JUNCTION BOX
K	THOUSAND
KCMIL	THOUSAND CIRCULAR MILS
LV	LOW VOLTAGE
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MCS	MOLDED CASE SWITCH
MH	MOUNTING HEIGHT
MLO	MAIN LUGS ONLY
MTD	MOUNTED
NEC	NATIONAL ELECTRICAL CODE (NFPA 70)
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
OH	OVERHEAD
OL	OVERLOAD
P	POLE
PV	PHOTOVOLTAIC
∅	PHASE
SCCR	SHORT CIRCUIT CURRENT RATING
SPD	SURGE PROTECTIVE DEVICE
SWBD	SWITCHBOARD
T*STAT	THERMOSTAT
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
UV	ULTRAVIOLET
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL LEGEND:

	INDICATES DEMOLITION OF EQUIPMENT WITHIN HATCHED AREA - WHETHER OR NOT SPECIFICALLY INDICATED, DEMOLITION SHALL INCLUDE REMOVAL OF ALL ASSOCIATED ELECTRICAL ITEMS BECOMING INACTIVE AS RESULT OF DEMOLITION (WIRING, CONTROLS, DISCONNECT SWITCHES, ACCESSIBLE RACEWAY, BOXES, ETC.) TO POINT OF ORIGIN UNLESS OTHERWISE NOTED.
	LIGHTING FIXTURE - RECESSED, SURFACE OR PENDANT MOUNTED - LETTER INDICATES FIXTURE TYPE ON LIGHTING FIXTURE SCHEDULE (SEE SHEET 28)
	LIGHTING FIXTURE - WALL MOUNTED - LETTER INDICATES FIXTURE TYPE ON LIGHTING FIXTURE SCHEDULE (SEE SHEET 28)
	DEVICE BOX - FLUSH MOUNTED WITH SINGLE-GANG TILE RING AND STAINLESS STEEL DEVICE COVER PLATE (UNLESS OTHERWISE NOTED), SURFACE MOUNTED WITH GALVANIZED STEEL DEVICE COVER PLATE (UNLESS OTHERWISE NOTED).
	DEVICE BOXES IN GANGED CONFIGURATION - FLUSH MOUNTED WITH GANGED TILE RING AND STAINLESS STEEL DEVICE COVER PLATE (UNLESS OTHERWISE NOTED), SURFACE MOUNTED WITH GALVANIZED STEEL DEVICE COVER PLATE (UNLESS OTHERWISE NOTED).
	DEVICE BOX MOUNTED 42" A.F.F. OR A.F.G. (MOUNTING HEIGHT TO BE AS INDICATED)
	NEMA TYPE 5-15R CORROSION-RESISTANT SINGLE RECEPTACLE OUTLET WITH VERTICAL WEATHERPROOF WHILE-IN-USE DEVICE COVER - RECEPTACLE SHALL BE EXTRA HEAVY DUTY SPECIFICATION GRADE, CORROSION-RESISTANT, STRAIGHT BLADE, 15 AMPERE, 125 VOLT, 2 POLE, 3 WIRE GROUNDING TYPE WITH YELLOW COLOR (HUBBELL CAT. NO. HBL52CM61 OR APPROVED EQUAL BY BRYANT, LEVITON OR PASS & SEYMOUR). DEVICE COVER SHALL BE VERTICAL HEAVY DUTY GRAY DIE-CAST ALUMINUM OR ZINC WITH SINGLE RECEPTACLE ADAPTER PLATE (PROVIDE HUBBELL CAT. NO. WP826 OR EQUAL BY PASS & SEYMOUR). MOUNTING HEIGHT AS INDICATED.
	NEMA TYPE 5-20R GFCI DUPLEX RECEPTACLE OUTLET - PROVIDE EXTRA HEAVY DUTY SPECIFICATION GRADE, WEATHER-RESISTANT, STRAIGHT BLADE, 20 AMPERE, 125 VOLT, 2 POLE, 3 WIRE GROUNDING TYPE WITH GRAY COLOR (HUBBELL CAT. NO. GFR5362SGGY OR APPROVED EQUAL BY BRYANT, LEVITON OR PASS & SEYMOUR). MOUNTING HEIGHT AS INDICATED.
	GFCI RECEPTACLE OUTLET AS ABOVE WITH HORIZONTAL WEATHERPROOF WHILE-IN-USE DEVICE COVER. DEVICE COVER SHALL BE HORIZONTAL HEAVY DUTY GRAY DIE-CAST ALUMINUM OR ZINC (HUBBELL CAT. NO. WP826H OR APPROVED EQUAL BY PASS & SEYMOUR). MOUNT 24" A.F.F. OR A.F.G. UNLESS OTHERWISE NOTED.
	SINGLE-POLE TOGGLE SWITCH - PROVIDE EXTRA HEAVY DUTY SPECIFICATION GRADE, 20 AMPERE, 1 HORSEPOWER, 120-277 VOLT WITH GROUND SCREW AND GRAY TOGGLE COLOR (HUBBELL CAT. NO. HBL1221GY OR APPROVED EQUAL BY LEVITON OR PASS & SEYMOUR). MOUNTING HEIGHT AS INDICATED.
	SINGLE-POLE TOGGLE SWITCH AS ABOVE WITH WEATHERPROOF LIFT DEVICE COVER. DEVICE COVER SHALL BE VERTICAL HEAVY DUTY GRAY DIE-CAST ALUMINUM OR ZINC WITH FIBER SHIELD (HUBBELL CAT. NO. HBL7420 OR APPROVED EQUAL BY PASS & SEYMOUR). MOUNT 48" A.F.F. OR A.F.G. UNLESS OTHERWISE NOTED.
	SINGLE-POLE, DOUBLE THROW MAINTAINED CONTACT 3-POSITION (2-CIRCUIT, CENTER OFF) TOGGLE SWITCH WITH WEATHERPROOF LIFT DEVICE COVER - SWITCH SHALL BE HEAVY DUTY SPECIFICATION GRADE, 20 AMPERE, 120-277 VOLT WITH GROUND SCREW (HUBBELL CAT. NO. HBL385 OR APPROVED EQUAL BY BRYANT, LEVITON OR PASS & SEYMOUR). DEVICE COVER SHALL BE VERTICAL HEAVY DUTY GRAY DIE-CAST ALUMINUM OR ZINC WITH FIBER SHIELD (HUBBELL CAT. NO. HBL7420 OR APPROVED EQUAL BY PASS & SEYMOUR). MOUNT 48" A.F.F. OR A.F.G. UNLESS OTHERWISE NOTED.
	OUTDOOR PHOTOSENSOR - PROVIDE 120V, 2000W TUNGSTEN/1800VA BALLAST RATED PHOTOCONTROL IN GASKETED HEAVY DUTY DIE CAST ZINC ENCLOSURE WITH SLIDING LIGHT LEVEL ADJUSTMENT (TORK CAT. NO. 2101 OR APPROVED EQUAL BY PARAGON OR INTERMATIC). MOUNT AS INDICATED.
	TIME CLOCK CONTROL - PROVIDE 365/7-DAY SINGLE-CHANNEL MULTIVOLT SPDT DIGITAL TIMER SWITCH RATED 1 HP @ 120 VOLTS WITH HOLIDAY SCHEDULING, DAYLIGHT SAVINGS TIME/LEAP YEAR COMPENSATION, MANUAL OVERRIDE AND CAPACITOR POWER OUTAGE BACKUP IN NEMA 3R NONMETALLIC ENCLOSURE (TORK CAT. NO. DWZ100B OR APPROVED EQUAL BY PARAGON OR INTERMATIC). EXACT MOUNTING LOCATION TO BE FIELD-COORDINATED.
	JUNCTION BOX - STANDARD, WEATHERPROOF
	TRANSFORMER
	POWER CENTER AS INDICATED - EXACT MOUNTING LOCATION TO BE FIELD-COORDINATED
	SAFETY SWITCH AS INDICATED - EXACT MOUNTING LOCATION TO BE FIELD-COORDINATED
	MOTOR CONTROLLER AS INDICATED
	DIRECT CONNECTION TO EQUIPMENT
	GROUND CONNECTION
	BRANCH CIRCUIT EXPOSED OR CONCEALED IN CEILING OR WALL CONSTRUCTION - 3/4" CONDUIT WITH THREE #12 AWG CONDUCTORS (LINE, NEUTRAL OR LINE, GREEN INSULATED GROUND) UNLESS OTHERWISE NOTED
	BRANCH CIRCUIT AS ABOVE CONCEALED UNDER FLOOR CONSTRUCTION OR UNDERGROUND
	HOMERUN TO PANELBOARD - NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS
	LOW-VOLTAGE WIRING
	CONDUIT TURNS UP, CONDUIT TURNS DOWN
	PANELBOARD, 480/277V - SURFACE MOUNTED, FLUSH MOUNTED
	PANELBOARD, 208/120V OR 240/120V - SURFACE MOUNTED, FLUSH MOUNTED
	SECURITY SYSTEM CCTV CAMERA - WALL MOUNTED, CEILING MOUNTED

BRANCH CIRCUIT IDENTIFICATION:

EXAMPLE: EPC - 1
 ELECTRICAL PANEL

CIRCUIT BREAKER WITHIN PANEL SERVING BRANCH CIRCUIT. BRANCH CIRCUIT SHALL CONSIST OF 3/4" CONDUIT WITH THREE #12 AWG CONDUCTORS (LINE, NEUTRAL OR LINE, GREEN INSULATED GROUND) UNLESS OTHERWISE NOTED.

LIGHTING CONTROL IDENTIFICATION:

EXAMPLES:
 FIXTURE "a" CONTROL - - FIXTURE "b" CONTROL -
 - CONTROL IDENTIFIER (TYP.)
 - LIGHTING FIXTURE (TYP.)



DELAWARE
DEPARTMENT OF
TRANSPORTATION

ADDENDUMS / REVISIONS		
1	01/25/2013	90% SUBMISSION
2	12/15/2014	PS&E SUBMISSION
3	11/16/15	CONSTRUCTION PLANS

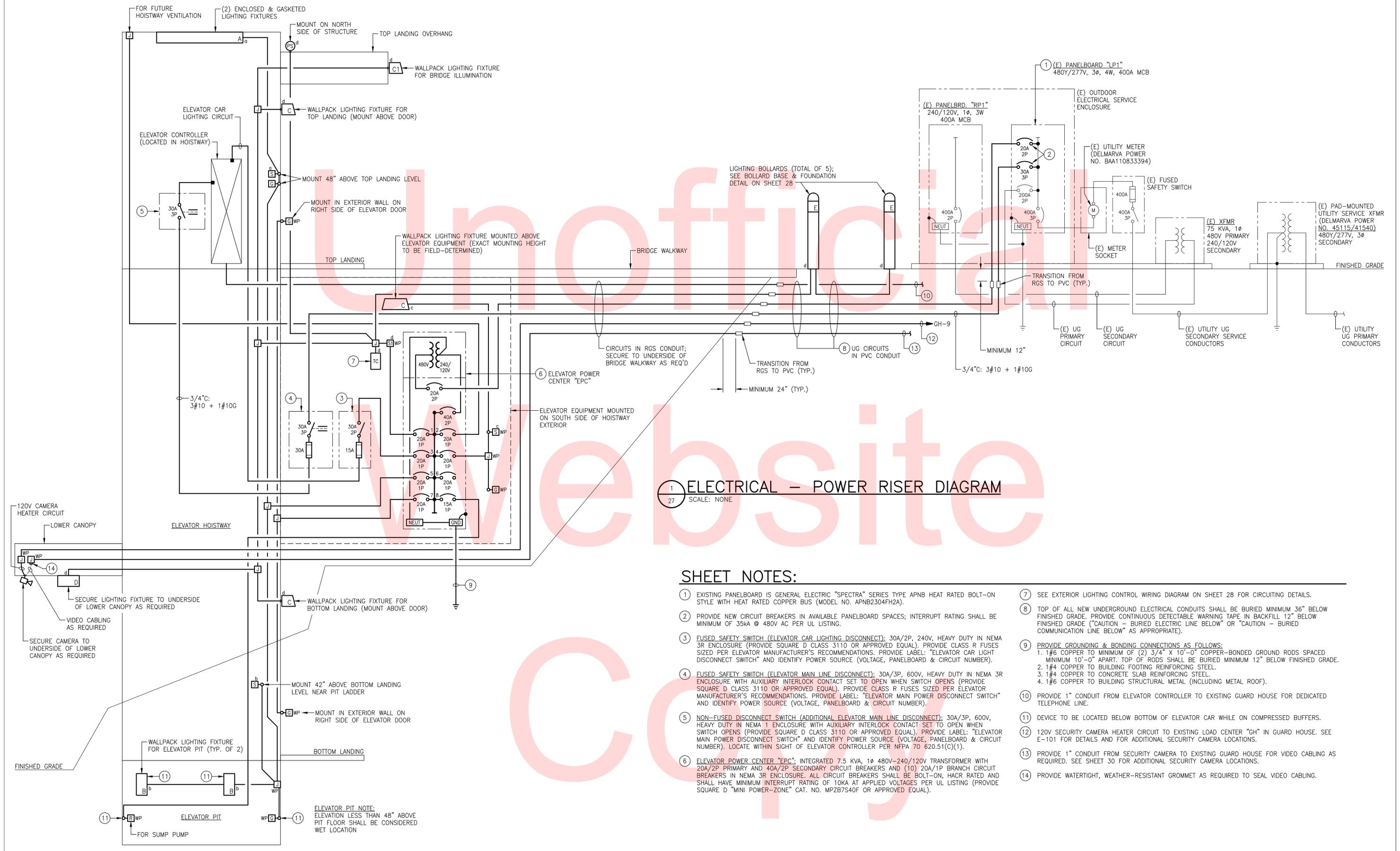
SCALE AS NOTED

Churchman's Crossing Fairplay
Station Elevator

CONTRACT	BRIDGE NO.	X
2011006.06	DRAWN BY: AHH	
COUNTY	CHECKED BY: JRF	
NEW CASTLE		

ELECTRICAL
LEGEND AND ABBREVIATIONS

SHEET NO.	26
TOTAL SHTS.	31

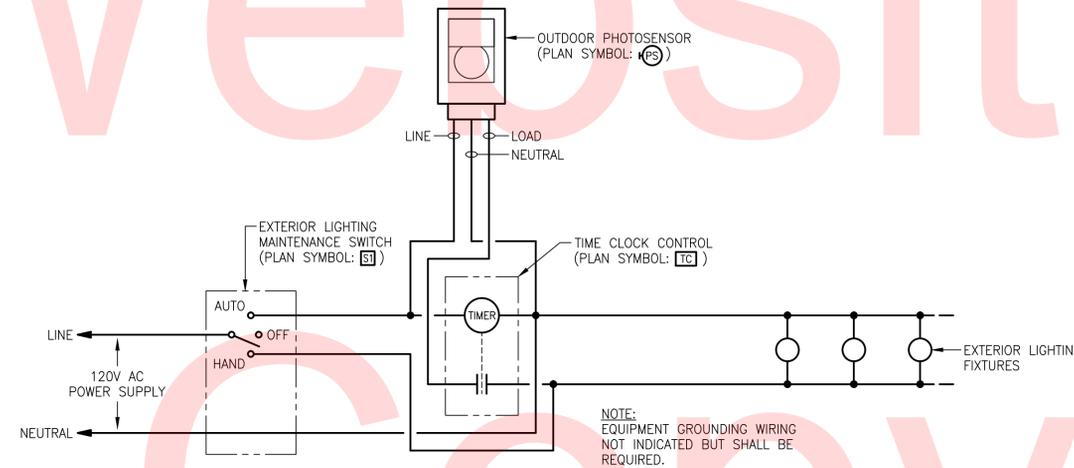


SHEET NOTES:

- 1 EXISTING PANELBOARD IS GENERAL ELECTRIC "SPECTRA" SERIES TYPE APNB HEAT RATED BOLT-ON STYLE WITH HEAT RATED COPPER BUS (MODEL NO. APNB2304FH2A).
- 2 PROVIDE NEW CIRCUIT BREAKERS IN AVAILABLE PANELBOARD SPACES; INTERRUPT RATING SHALL BE MINIMUM OF 35KA @ 480V AC PER UL LISTING.
- 3 FUSED SAFETY SWITCH (ELEVATOR CAR LIGHTING DISCONNECT): 30A/2P, 240V, HEAVY DUTY IN NEMA 3R ENCLOSURE (PROVIDE SQUARE D CLASS 3110 OR APPROVED EQUAL). PROVIDE CLASS R FUSES SIZED PER ELEVATOR MANUFACTURER'S RECOMMENDATIONS. PROVIDE LABEL: "ELEVATOR CAR LIGHT DISCONNECT SWITCH" AND IDENTIFY POWER SOURCE (VOLTAGE, PANELBOARD & CIRCUIT NUMBER).
- 4 FUSED SAFETY SWITCH (ELEVATOR MAIN LINE DISCONNECT): 30A/3P, 600V, HEAVY DUTY IN NEMA 3R ENCLOSURE WITH AUXILIARY INTERLOCK CONTACT SET TO OPEN WHEN SWITCH OPENS (PROVIDE SQUARE D CLASS 3110 OR APPROVED EQUAL). PROVIDE CLASS R FUSES SIZED PER ELEVATOR MANUFACTURER'S RECOMMENDATIONS. PROVIDE LABEL: "ELEVATOR MAIN POWER DISCONNECT SWITCH" AND IDENTIFY POWER SOURCE (VOLTAGE, PANELBOARD & CIRCUIT NUMBER).
- 5 NON-FUSED DISCONNECT SWITCH (ADDITIONAL ELEVATOR MAIN LINE DISCONNECT): 30A/3P, 600V, HEAVY DUTY IN NEMA 1 ENCLOSURE WITH AUXILIARY INTERLOCK CONTACT SET TO OPEN WHEN SWITCH OPENS (PROVIDE SQUARE D CLASS 3110 OR APPROVED EQUAL). PROVIDE LABEL: "ELEVATOR MAIN POWER DISCONNECT SWITCH" AND IDENTIFY POWER SOURCE (VOLTAGE, PANELBOARD & CIRCUIT NUMBER). LOCATE WITHIN SIGHT OF ELEVATOR CONTROLLER PER NFPA 70 620.51(C)(1).
- 6 ELEVATOR POWER CENTER "EPC": INTEGRATED 7.5 KVA, 1Ø 480V-240/120V TRANSFORMER WITH 20A/2P PRIMARY AND 40A/2P SECONDARY CIRCUIT BREAKERS AND (10) 20A/1P BRANCH CIRCUIT BREAKERS IN NEMA 3R ENCLOSURE. ALL CIRCUIT BREAKERS SHALL BE BOLT-ON, HACR RATED AND SHALL HAVE MINIMUM INTERRUPT RATING OF 10KA AT APPLIED VOLTAGES PER UL LISTING (PROVIDE SQUARE D "MINI POWER-ZONE" CAT. NO. MPZB7S40F OR APPROVED EQUAL).
- 7 SEE EXTERIOR LIGHTING CONTROL WIRING DIAGRAM ON SHEET 28 FOR CIRCUITING DETAILS.
- 8 TOP OF ALL NEW UNDERGROUND ELECTRICAL CONDUITS SHALL BE BURIED MINIMUM 36" BELOW FINISHED GRADE. PROVIDE CONTINUOUS DETECTABLE WARNING TAPE IN BACKFILL 12" BELOW FINISHED GRADE ("CAUTION - BURIED ELECTRIC LINE BELOW" OR "CAUTION - BURIED COMMUNICATION LINE BELOW" AS APPROPRIATE).
- 9 PROVIDE GROUNDING & BONDING CONNECTIONS AS FOLLOWS:
1. 1#6 COPPER TO MINIMUM OF (2) 3/4" X 10'-0" COPPER-BONDED GROUND RODS SPACED MINIMUM 10'-0" APART. TOP OF RODS SHALL BE BURIED MINIMUM 12" BELOW FINISHED GRADE.
2. 1#4 COPPER TO BUILDING FOOTING REINFORCING STEEL.
3. 1#4 COPPER TO CONCRETE SLAB REINFORCING STEEL.
4. 1#6 COPPER TO BUILDING STRUCTURAL METAL (INCLUDING METAL ROOF).
- 10 PROVIDE 1" CONDUIT FROM ELEVATOR CONTROLLER TO EXISTING GUARD HOUSE FOR DEDICATED TELEPHONE LINE.
- 11 DEVICE TO BE LOCATED BELOW BOTTOM OF ELEVATOR CAR WHILE ON COMPRESSED BUFFERS.
- 12 120V SECURITY CAMERA HEATER CIRCUIT TO EXISTING LOAD CENTER "GH" IN GUARD HOUSE. SEE E-101 FOR DETAILS AND FOR ADDITIONAL SECURITY CAMERA LOCATIONS.
- 13 PROVIDE 1" CONDUIT FROM SECURITY CAMERA TO EXISTING GUARD HOUSE FOR VIDEO CABLING AS REQUIRED. SEE SHEET 30 FOR ADDITIONAL SECURITY CAMERA LOCATIONS.
- 14 PROVIDE WATERTIGHT, WEATHER-RESISTANT GROMMET AS REQUIRED TO SEAL VIDEO CABLING.

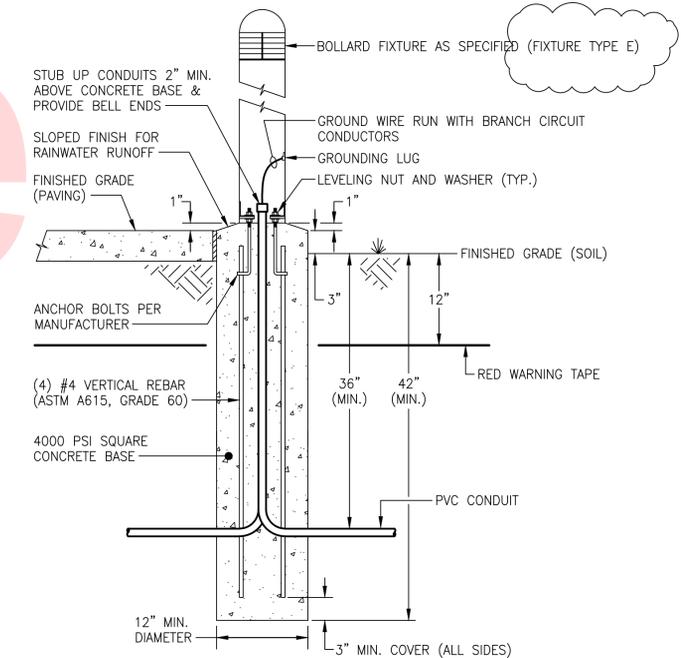
LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	MANUFACTURER MODEL NO.	LAMPS		BALLASTS		INPUT VOLTS	INPUT WATTS	INPUT VA	DESCRIPTION
		QTY.	TYPE	QTY.	TYPE				
A	COLUMBIA LUN4-232-EU-SSL (OR APPROVED EQUAL BY DAY-BRITE OR LITHONIA)	3	32 WATT T8 LINEAR FLUORESCENT 3500K	1	ELECTRONIC LINEAR FLUORESCENT INSTANT START <10% THD .88 BALLAST FACTOR	120	85	85	4' SURFACE-MOUNTED ENCLOSED & GASKETED INDUSTRIAL FLUORESCENT LUMINAIRE WITH 3-LAMP CROSS SECTION, FIBERGLASS HOUSING, ACRYLIC DIFFUSER, STAINLESS STEEL LATCHES AND WET LOCATION LISTING.
B	HUBBELL NRG-304B (OR APPROVED EQUAL BY DAY-BRITE OR LITHONIA)	1	42 WATT PL-T COMPACT FLUORESCENT 3500K	1	ELECTRONIC COMPACT FLUORESCENT 26/32/42 WATT <10% THD .98 BALLAST FACTOR	120	46	46	11" TALL x 7" WIDE x 5-1/2" DEEP WALLPACK LUMINAIRE WITH CAST ALUMINUM BACK HOUSING, FULL POLYCARBONATE FRONT (BRONZE FINISH) AND WET LOCATION LISTING.
C	HUBBELL TRP-42F8-WT-BZ (OR APPROVED EQUAL BY GARDCO OR LITHONIA)	1	42 WATT PL-T COMPACT FLUORESCENT 3500K	1	ELECTRONIC COMPACT FLUORESCENT 26/32/42 WATT <10% THD .98 BALLAST FACTOR	120	46	46	7-1/4" TALL x 16-1/2" WIDE x 9-1/2" DEEP TRAPEZOIDAL ARCHITECTURAL WALLPACK LUMINAIRE WITH CAST ALUMINUM HOUSING & DOOR, TEMPERED IMPACT-RESISTANT CLEAR GLASS LENS, WET LOCATION LISTING AND FULL-CUTOFF WIDE-THROW OPTICS. FINISH SHALL BE AS DIRECTED BY ARCHITECT.
C1	HUBBELL TRP-42F8-FW-BZ (OR APPROVED EQUAL BY GARDCO OR LITHONIA)	1	42 WATT PL-T COMPACT FLUORESCENT 3500K	1	ELECTRONIC COMPACT FLUORESCENT 26/32/42 WATT <10% THD .98 BALLAST FACTOR	120	46	46	SAME AS TYPE "C" EXCEPT WITH FULL-CUTOFF FORWARD-THROW OPTICS.
D	HUBBELL S12-84F (OR APPROVED EQUAL BY DAY-BRITE OR LITHONIA)	2	42 WATT PL-T COMPACT FLUORESCENT 3500K	1	ELECTRONIC COMPACT FLUORESCENT 26/32/42 WATT <10% THD .98 BALLAST FACTOR	120	93	94	12" x 12" x 5" DEEP SQUARE LUMINAIRE WITH CAST ALUMINUM HOUSING, VANDAL-RESISTANT PRISMATIC POLYCARBONATE LENS AND WET LOCATION LISTING.
E	KIM VRB1/70PMH120 (OR APPROVED EQUAL BY LITHONIA OR GARDCO)	1	42 WATT PL-T COMPACT FLUORESCENT 3500K	1	ELECTRONIC COMPACT FLUORESCENT 26/32/42 WATT <10% THD .98 BALLAST FACTOR	120	46	46	8" ROUND VANDAL-RESISTANT BOLLARD LUMINAIRE WITH 42" OVERALL HEIGHT, ALUMINUM SHAFT, DOMED DIE-CAST ALUMINUM TOP CAP AND HORIZONTAL DIE-CAST ALUMINUM LOUVER BLADES FOR FULL CUTOFF 360° DISTRIBUTION. FINISH SHALL BE AS DIRECTED BY ARCHITECT.



**EXTERIOR LIGHTING CONTROL WIRING DIAGRAM
(PHOTO ON - TIME CLOCK OFF CONTROL)**

1
28 SCALE: NONE



BOLLARD BASE & FOUNDATION DETAIL

2
28 SCALE: NONE



DELAWARE
DEPARTMENT OF
TRANSPORTATION

ADDENDUMS / REVISIONS		
1	01/25/2013	90% SUBMISSION
2	12/15/2014	PS&E SUBMISSION
3	11/16/15	CONSTRUCTION PLANS

SCALE AS NOTED

Churchman's Crossing Fairplay
Station Elevator

CONTRACT	BRIDGE NO.	X
2011006.06	DRAWN BY:	AHH
COUNTY	CHECKED BY:	JRF
NEW CASTLE		

ELECTRICAL
DETAILS AND SCHEDULES

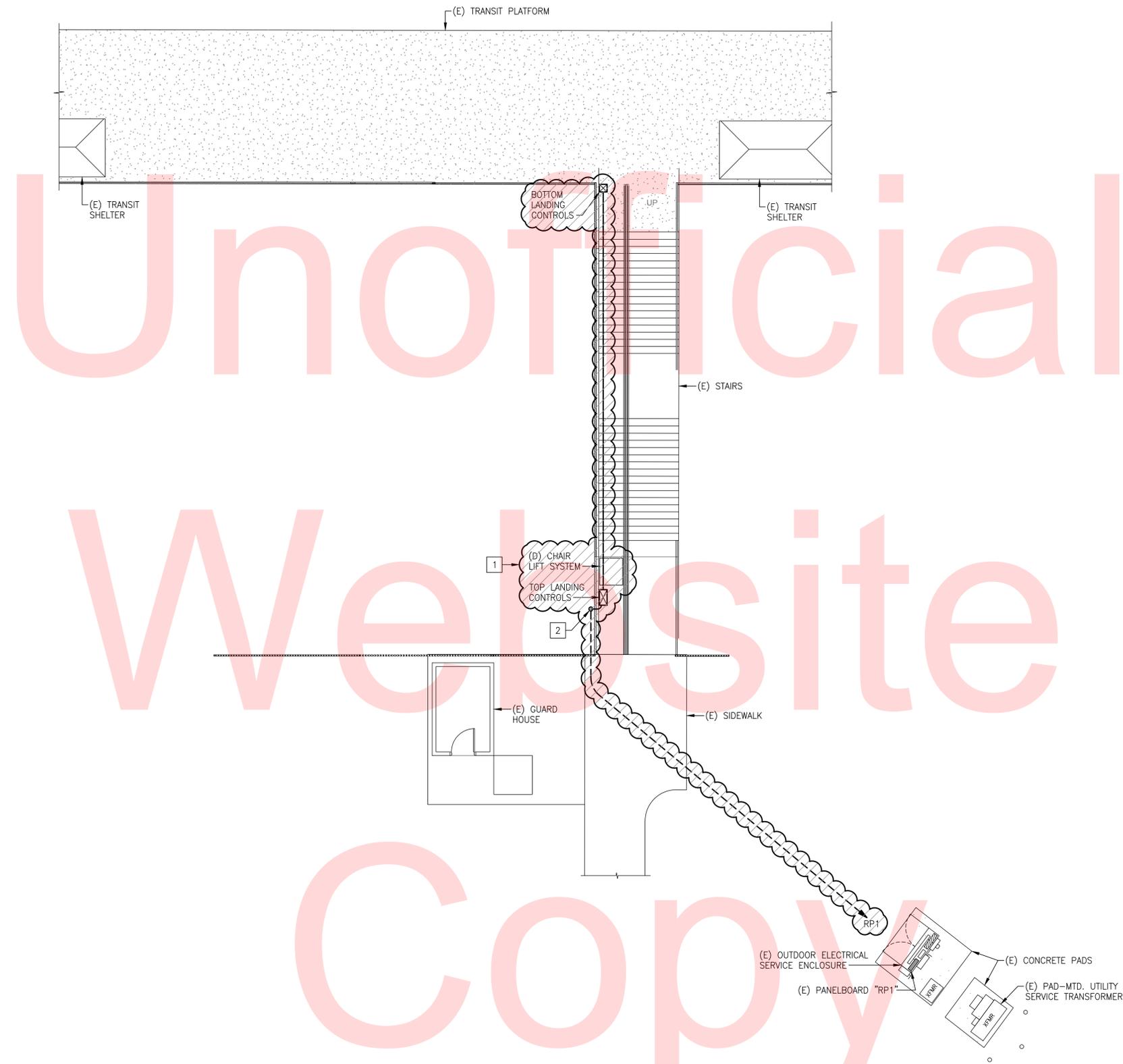
SHEET NO.	28
TOTAL SHTS.	31

GENERAL NOTES:

1. SEE SHEET 26 FOR ELECTRICAL LEGEND AND ABBREVIATIONS.
2. ELECTRICAL DEMOLITION IS BASED ON EXISTING INFORMATION OBTAINED FROM FIELD SURVEYS AND EXISTING DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD-VERIFICATION OF EXISTING CONDITIONS PRIOR TO BEGINNING WORK.

SHEET NOTES:

- 1 PERFORM ALL REQUIRED ELECTRICAL DEMOLITION ASSOCIATED WITH REMOVAL OF EXISTING CHAIR LIFT SYSTEM.
- 2 REMOVE ALL EXISTING WIRING IN UNDERGROUND CONDUIT FROM CHAIR LIFT CONTROLLER BACK TO POWER SUPPLY SOURCE. CUT END OF EXISTING CONDUIT DOWN TO 12" BELOW FINISHED GRADE AND ABANDON IN PLACE.



ELECTRICAL - SITE PLAN - DEMOLITION
 SCALE: 1/8" = 1'-0"



DELAWARE
DEPARTMENT OF
TRANSPORTATION

ADDENDUMS / REVISIONS		
1	01/25/2013	90% SUBMISSION
2	12/15/2014	PS&E SUBMISSION
3	11/16/15	CONSTRUCTION PLANS

SCALE AS NOTED

Churchman's Crossing Fairplay
Station Elevator

CONTRACT	BRIDGE NO.	X
2011006.06	DRAWN BY:	AHH
COUNTY	CHECKED BY:	JRF
NEW CASTLE		

ELECTRICAL PLANS
DEMOLITION

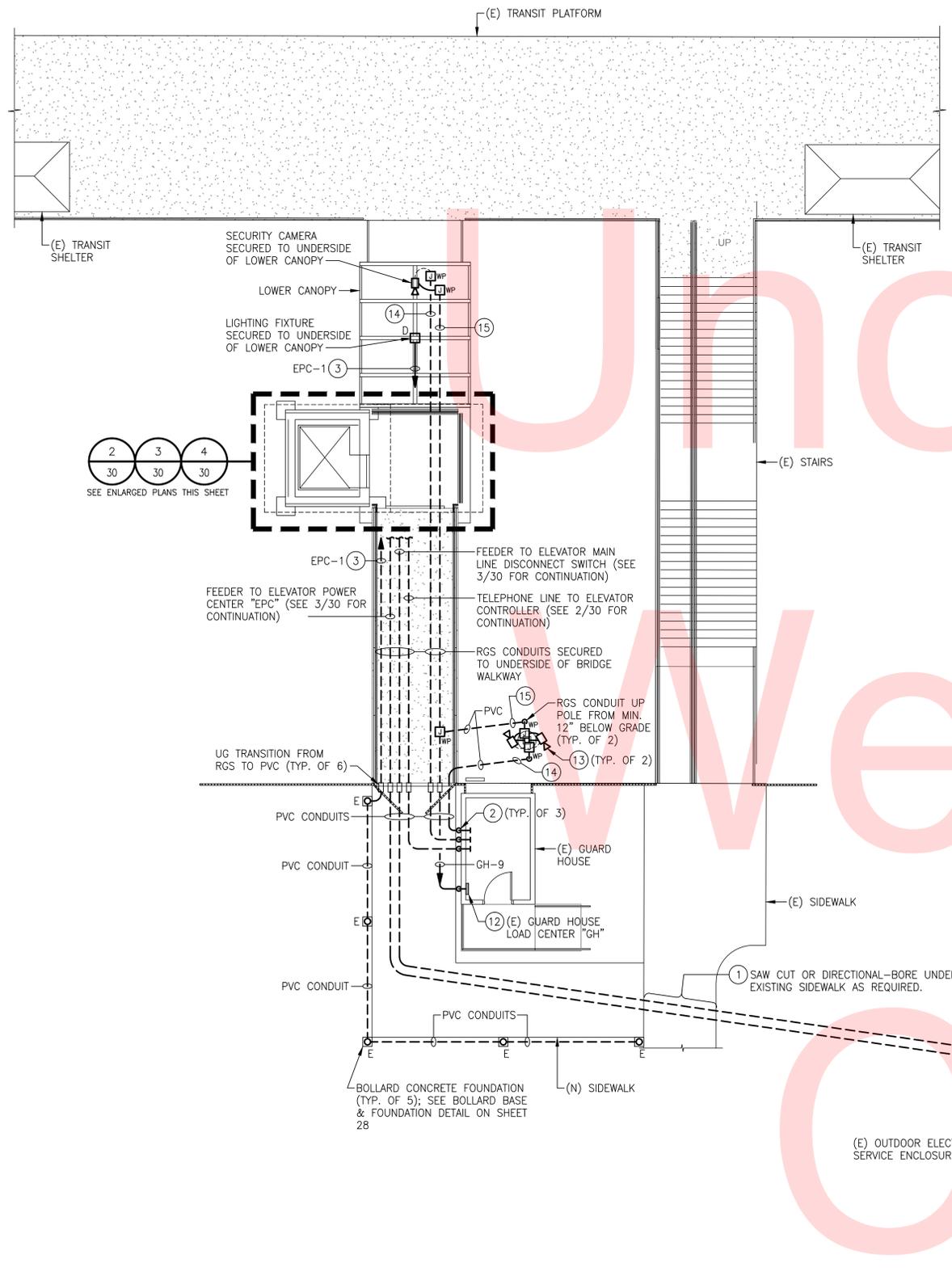
SHEET NO.	29
TOTAL SHTS.	31

GENERAL NOTES:

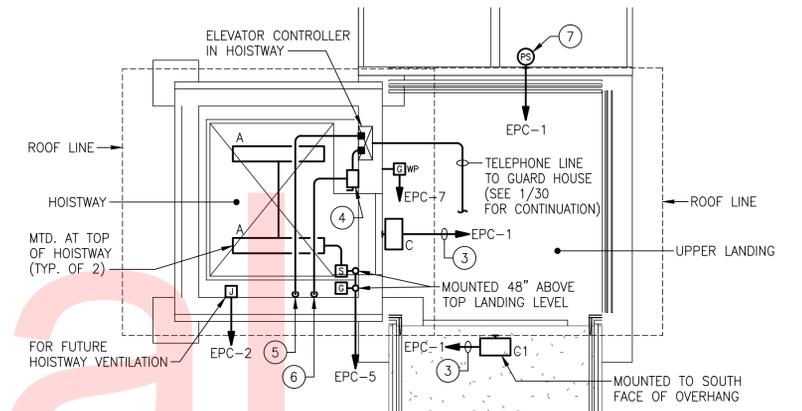
- SEE SHEET 26 FOR ELECTRICAL LEGEND AND ABBREVIATIONS.
- SEE SHEET 27 FOR ELECTRICAL POWER RISER DIAGRAM AND CIRCUITING DETAILS.
- SEE SHEET 28 FOR LIGHTING FIXTURE SCHEDULE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION OF EARTH, BACKFILLING AND RESTORATION OF DISTURBED AREAS AS REQUIRED FOR INSTALLATION OF UNDERGROUND CONDUIT.

SHEET NOTES:

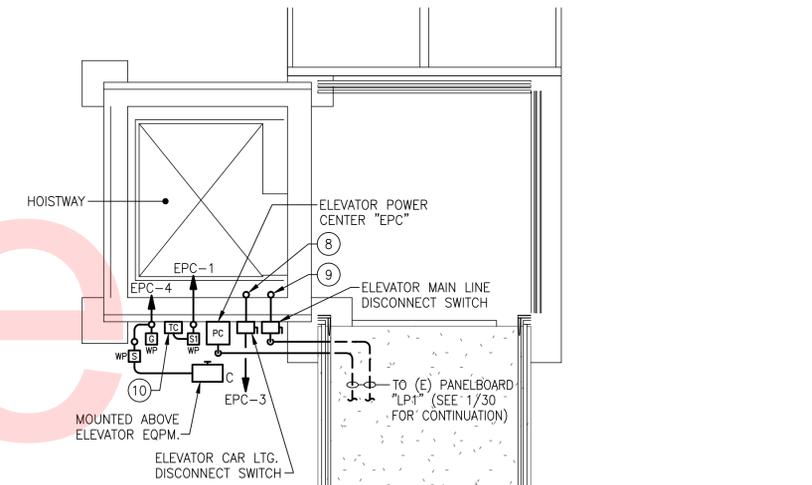
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAWCUTTING AND RESTORATION OF EXISTING SIDEWALK AS REQUIRED.
- RGS CONDUIT DOWN TO MIN. 12" BELOW GRADE. STUB CONDUIT 6" INTO EXISTING GUARD SHACK VIA LB FITTING; FIELD-COORDINATE EXACT STUB-IN LOCATION.
- VIA PHOTO ON - TIME CLOCK OFF CONTROLS (SEE SHEET 27 AND SHEET 28 FOR CIRCUITING DETAILS).
- ADDITIONAL ELEVATOR MAIN LINE DISCONNECT SWITCH LOCATED WITHIN SIGHT OF ELEVATOR CONTROLLER.
- ELEVATOR CAR LIGHTING CIRCUIT DOWN TO CAR LIGHTING DISCONNECT SWITCH (SEE 3/30 FOR CONTINUATION).
- DOWN TO ELEVATOR MAIN LINE DISCONNECT SWITCH (SEE 3/30 FOR CONTINUATION).
- PHOTOCONTROL FOR PHOTO ON - TIME CLOCK OFF CONTROL OF EXTERIOR LIGHTING FIXTURES (SEE SHEET 27 AND SHEET 28 FOR CIRCUITING DETAILS). EXACT MOUNTING LOCATION TO BE FIELD-DETERMINED PER MANUFACTURER'S RECOMMENDATIONS.
- UP TO CAR LIGHTING CONNECTION IN ELEVATOR CONTROLLER (SEE 2/30 FOR CONTINUATION).
- UP TO ADDITIONAL MAIN LINE DISCONNECT SWITCH BY ELEVATOR CONTROLLER (SEE 2/30 FOR CONTINUATION).
- TIME CLOCK FOR PHOTO ON - TIME CLOCK OFF CONTROL OF EXTERIOR LIGHTING FIXTURES (SEE SHEET 27 AND SHEET 28 FOR CIRCUITING DETAILS).
- EXACT LOCATION OF SUMP PUMP AND RECEPTACLE TO BE FIELD-COORDINATED.
- EXISTING GUARD HOUSE LOAD CENTER "GH" IS SQUARE D TYPE "QO" CATALOG NO. QOC12US, 240/120V, 1Ø, 3W WITH 100A MAIN CIRCUIT BREAKER, (8) ACTIVE CIRCUIT BREAKERS AND (4) BLANK SPACES. PROVIDE NEW 20A/1P CIRCUIT BREAKER IN AVAILABLE SPACE FOR SECURITY CAMERA HEATER CIRCUIT GH-9. UL INTERRUPTING RATING OF NEW BREAKER SHALL MATCH OR EXCEED THAT OF EXISTING BREAKERS IN PANEL.
- MOUNT NEW SECURITY CAMERA ON EXISTING POLE. COORDINATE AIMING WITH OWNER.
- 1" CONDUIT FOR SECURITY CAMERA VIDEO CABLING AS REQUIRED.
- 120V SECURITY CAMERA HEATER CIRCUIT (GH-9).



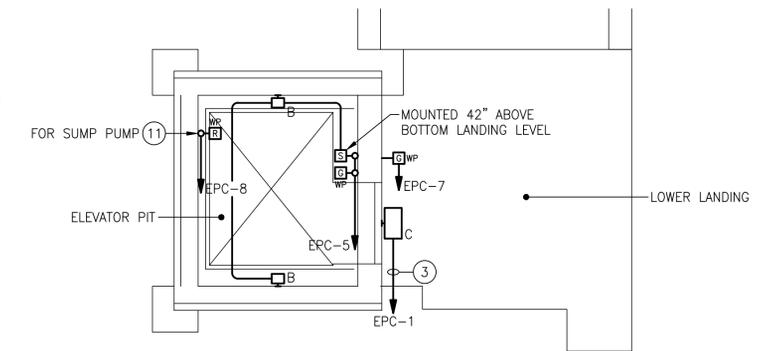
1 ELECTRICAL - SITE PLAN - NEW WORK
SCALE: 1/8" = 1'-0"



2 ELEVATOR PLAN - UPPER LANDING LEVEL
SCALE: 1/4" = 1'-0"



3 ELEVATOR PLAN - EQUIPMENT SPACE LEVEL
SCALE: 1/4" = 1'-0"



4 ELEVATOR PLAN - LOWER LANDING/PIT LEVEL
SCALE: 1/4" = 1'-0"



DELAWARE
DEPARTMENT OF
TRANSPORTATION

ADDENDUMS / REVISIONS		
1	01/25/2013	90% SUBMISSION
2	12/15/2014	PS&E SUBMISSION
3	11/16/15	CONSTRUCTION PLANS

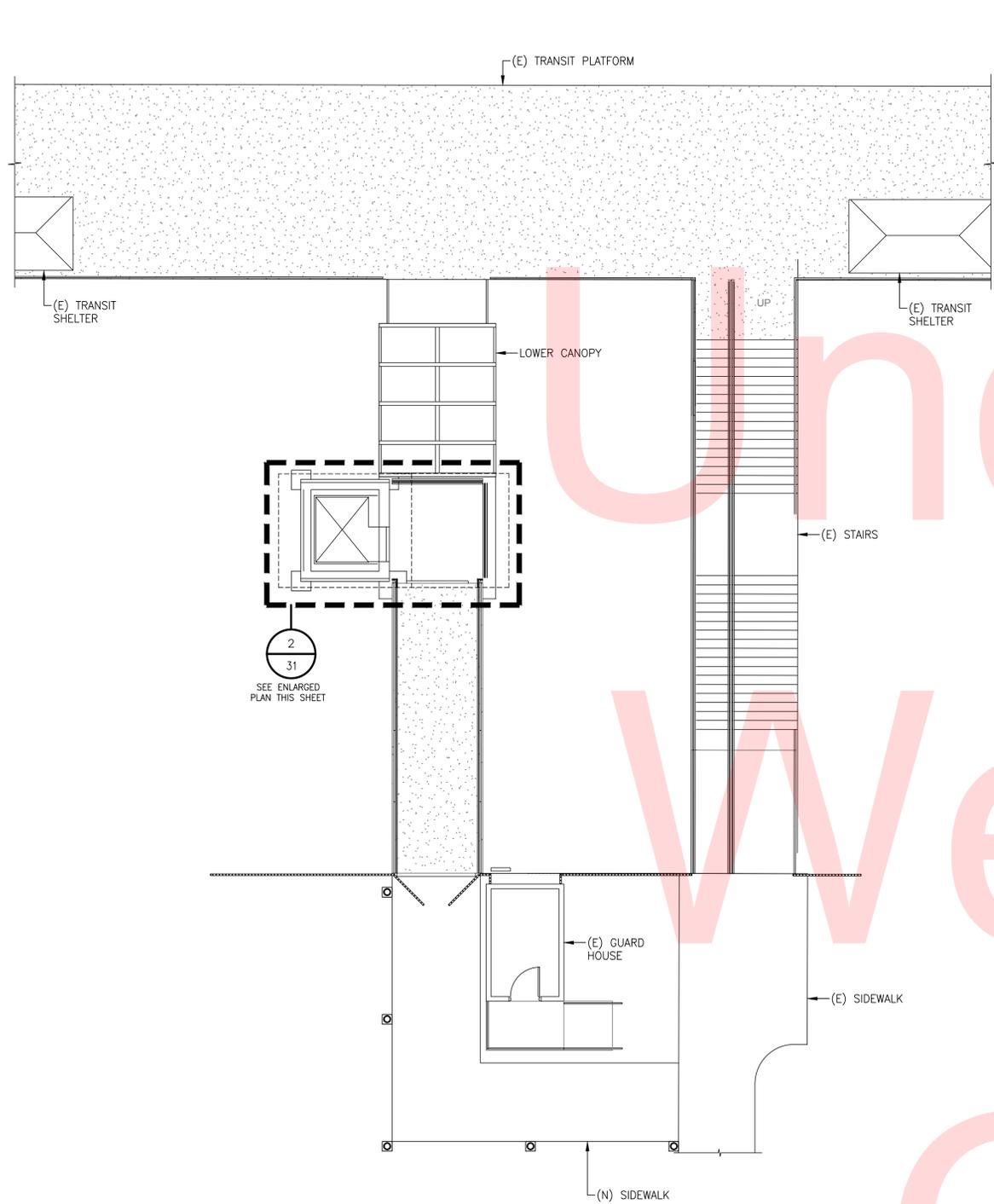
SCALE AS NOTED

Churchman's Crossing Fairplay
Station Elevator

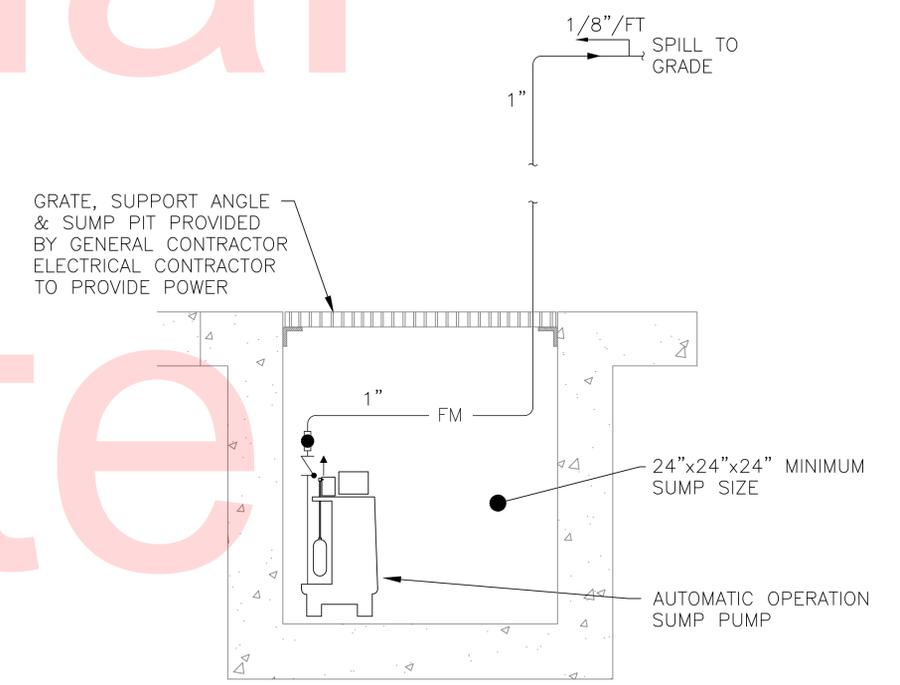
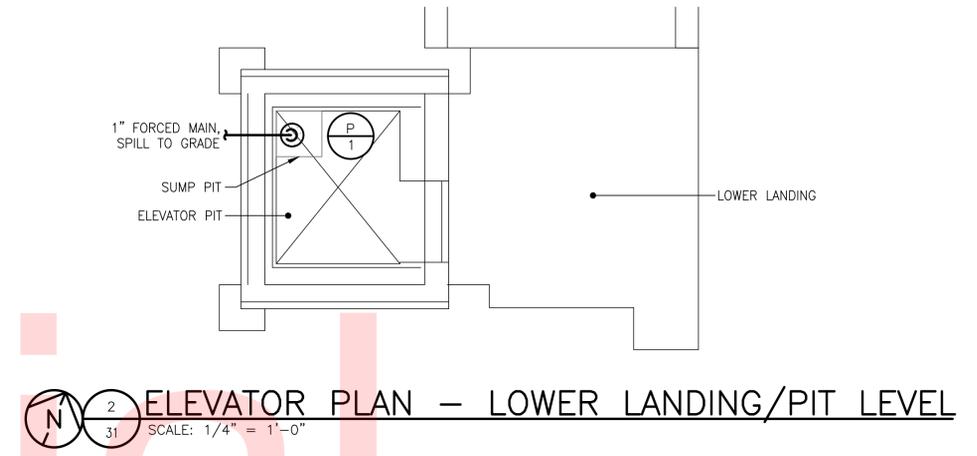
CONTRACT	BRIDGE NO.	X
2011006.06	DRAWN BY:	AHH
COUNTY	CHECKED BY:	JRF
NEW CASTLE		

ELECTRICAL PLANS
NEW WORK

SHEET NO.	30
TOTAL SHTS.	31



2
31
SEE ENLARGED PLAN THIS SHEET



3
31
SUMP PUMP DETAIL
 SCALE: NONE

SUMP PUMP SCHEDULE										
UNIT NO.	TYPE	MANUFACTURER	MODEL	LOCATION	FLOW (GPM)	TDH	MOTOR H.P.	RPM	ELECTRICAL V/PH/Hz	REMARKS
P 1	SUMP	LITTLE GIANT	6EN-CIA-SFS	ELEVATOR PIT	50	22'	1/3	1750	120/1/60	THERMAL OVERLOAD PROTECTION

* OR APPROVED EQUAL

1
31
PLUMBING - SITE PLAN - NEW WORK
 SCALE: 1/8" = 1'-0"