TOWN OF YORKTOWN WESTCHESTER COUNTY, NEW YORK

ADDENDUM NO. 3 TO CONTRACT DOCUMENTS



PIN 8761.66: REPLACEMENT OF THE HILL BOULEVARD BRIDGE OVER BARGER BROOK TRIBUTARY

PIN 8761.71: REPLACEMENT OF THE VETERANS ROAD CULVERT OVER HALLOCKS MILL BROOK

WSP USA, Inc. 555 Pleasantville Road, North Building, Suite 201 Briarcliff Manor, NY 10510 Tel No.: 914.747.1120

May 12, 2020

CAMCE No. 1893D

WARNING - IT IS A VIOLATION OF NEW YORK EDUCATION LAW SECTION 7209.2 FOR ANY PERSON UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATION LAW SECTION 7209.2

TOWN OF YORKTOWN

WESTCHESTER COUNTY, NEW YORK

ADDENDUM No. 3

TO

CONTRACT DOCUMENTS

PIN 8761.66: Replacement of the Hill Boulevard Bridge over Barger Brook Tributary

PIN 8761.71: Replacement of the Veterans Road Culvert over Hallocks Mill Brook

To all Perspective Bidders on Town of Yorktown, Westchester County, New York, PINs 8761.66 and 8761.71 for Town of Yorktown, Replacement of the Hill Boulevard Bridge and Veterans Road Culvert Project, the following changes are hereby made part of the Contract Documents, must be attached to the Contract Documents and must be acknowledged by replying via email to the Town Clerk.

Modifications/Additions to the Contract Documents:

Notice to Bidders

Please be advised that bids will be received by the Town Clerk of the Town of Yorktown, Westchester County, New York, at the Town Hall 363 Underhill Avenue, Yorktown Heights, NY 10598, until

Thursday June 18, 2020 at 2:00 PM,

Due to the State of Emergency caused by the Coronavirus pandemic, the bid opening will not be open to the public. Instead, the bid opening will be recorded in compliance with Governor Cuomo's Executive Order 202.11.

Responses to pre-bid questions are as follows:

Q1:	On drawing GNN-1 (sheet 4), Water Supply Note 14 – Referring to Town of Yorktown to exercise the
	existing isolation valves to shut down water mains for replacement work.

1a) If isolation valves fail and flow is manageable, contractor is required to dewater during installation. Will contractor be paid for the dewatering as a field change payment? 1b) If isolation valves fail and flow is not manageable, contractor is required to install line stops or insertion valves to facilitate installation of a new valve. Will contractor be paid for this work as a field change payment? A1: 1a) In the case of existing isolation valve failure, the contractor shall install insertion valves in lieu of the proposed valves at both Veterans Road and Hill Blvd. There will be no dewatering of manageable flow option. On Contract Plan Sheet 4, strike the 2nd sentence from Water Supply Note 14. 1b) Isolation valve inadequacy is not anticipated and would be an unexpected field condition addressed by the construction inspection staff. In the event the isolation valves fail, the work should proceed according to NYSDOT Specification Section 697 FIELD CHANGE PAYMENT and Section 104-02 of the NYSDOT Standard Specifications. Q2: On drawing GNN-2 (sheet 5), Work Zone Traffic Control Note 15 – Referring to nighttime construction being prohibited in this contract. 2a) Typical construction for sewer system tie-in is completed during overnight shift(s) due to low peak flows and public demand. Please confirm all 10" tie-in work for Town of Yorktown (sewer) at PIN 8761.66 - Replacement of the Hill Boulevard Bridge will be during regular daytime hours, including setting up temporary bypass system. 2b) Similarly to sewer work, typical construction for force water main tie-in is completed during overnight shift(s) due to low demand. Please confirm all tie-in work for Town of Yorktown (water) at PIN 8761.66 - Replacement of the Hill Boulevard Bridge and PIN 8761.71 - Replacement of the Veterans Road Culvert will be during regular daytime hours. 2a and 2b) On Contract Plan Sheet 5 (GNN-2), revise WORK ZONE TRAFFIC CONTROL Note 15 as A2: follows, "NIGHTTIME CONSTRUCTION IS PROHIBITED IN THIS CONTRACT, WITH THE EXCEPTION OF THE FOLLOWING OPERATIONS: (1) SEWER FORCE MAIN TIE-IN CONNECTIONS, (2) WATER MAIN TIE-IN-CONNECTIONS. 2b) The gravity sewer main (Town of Yorktown owned) tie-in can be done under bypass and at any time given the following procedure. On Contract Plan Sheet 24 (HB-19), add NOTE 9 as follows: "THE CONTRACTOR SHALL LEAVE 3 FT OF THE EXISTING GRAVITY SEWER MAIN REMAINING ON THE DOWNSTREAM SIDE OF MH SS1 AND THE UPSTREAM SIDE OF MH SS2. WITH THE EXISTING PIPE STUBS REMAINING IN PLACE AND THE OUTLET OF MH SS1 AND INLET OF MH SS2 PLUGGED (INSIDE THE MANHOLES), THE CONTRACTOR WILL HAVE DRY CONDITIONS TO PERFORM THE TIE-IN." O3: On drawing HB-18 (sheet 23) & ECD (sheet 52) - Referring to erosion and sediment controls, 3a) On drawing HB-18+D28, callout for temporary stabilized construction entrance and suggested laydown area is paid under which bid item? Please confirm this relates to the detail for anti-tracking apron on drawing ECD. 3b) On drawing HB-18, Soil Erosion & Sediment Control Notes, note 1 indicates that contractor should install soil erosion and sediment control measures per NYSDOT Standard Sheets. Is this note referring to soil erosion and sediment control measures such as: seeding & mulching temporary (209.1003), drainage structure inlet protection (209.1703), rolled erosion control product CL # Type XX (209.180X), construction entrance (209.22). If so, what bid item will these measures be paid under?

A3: 3a) The temporary stabilized construction entrance and suggested laydown area is schematic in in location but assumed to be necessary for construction operations. Construction entrance/exits from staging areas and other locations selected by the contractor or necessitated by contractor operations at his/her discretion should be constructed as per the anti-tracking apron shown on drawing ECD and adhere to permit conditions, but no direct payment will be made for those installations. Payment shall be included in the prices bid for the various items in the contract. 3b) Note 1 on drawing HB-18 is referring specifically to silt fence (209.17). Other temporary soil erosion and sediment control measures based on Sections 107-08, 107-11, and 107-12 of the NYSDOT Standard Specifications and the permit conditions that may be necessary due to Contractor operations shall be included in the prices bid for the various items in the contract. Q4: On drawings HB-15 & HB-16 (sheets 20 & 21), there seems to be conflict between the section details of the wing wall footing reinforcement. See section A-A on drawing HB-15 & section L-L on drawing HB-16. Please clarify whether the concrete footing stirrups should be #4 epoxy rebar per HB-15 or #3 epoxy rebar per HB-16. The concrete footing strips shall contain #4 epoxy coated rebar. A4: On drawing VR-9 (sheet 37), NOTE (at top of page) refers to elevation +387 as the bottom of footing Q5: elevation for the adjacent bridge. It states that excavation limits should not extend below the bottom of footing without proper excavation protection or support of excavation (SOE). It also states that the information was obtained through observation of record plans on property 37.15-1-70 (now or formally known as, Yorktown Indoor Tennis Club, Inc.). 5a) Please provide bidders the town record plans for the bridge located on the aforementioned property. 5b) See Interim Steel Sheeting Notes, Note 6 - see table below for minimum embedment lengths below the bottom of excavation. The Interim Steel Sheeting (Item 552.15) table shows 33-ft min. embedment length, which is assumed to be below bottom of footing elev. +387. Bottom of excavation suggests to be somewhere around +381. Please confirm the bid quantity for item 552.15 to be 120 sf. A5: 5a) Record plans of the subject bridge are attached. 5b) Replace Bid Sheet 11 contained in the proposal book with attached Bid Sheet 11A1. On Contract Plan Sheet 3, revise the quantity of item 552.15 INTERIM STEEL SHEETING in the Veterans Road table to be 1810 SF. Note that for consistency, all bid sheets have been reissued via this addendum. See Special Note 6 - Coordination with the Utility Schedule - Utility adjustment and/or relocations 06: required by the various Utility owners in connection with PIN 8761.71 - Replacement of the Veterans Road Culvert. It states that Verizon Communications, CSC Holdings, NYSEG, and Crown Castle International will each require two (2) calendar weeks for their work, respectively. Will the utility adjustment and/or relocation work by the aforementioned companies be concurrent or consecutive to each other? NYSEG will remain on the pole during construction, becoming involved only during crane operations A6: when power needs to be cut. Crown Castle must relocate first as the topmost communication line on the poles. CSC (Altice) will follow, moving their lines up the pole. Verizon's operation is independent and can be performed at any time.

Q7:	Is power available at each of the three (3) intersections on drawings HB-2 & VR-2 (sheet 7 & 30) for the temporary traffic signal disconnect box and modem (3 locations)?
A7:	Power will be available at each of the three intersection locations via the existing traffic signal. Contractor shall coordinate with NYSDOT and the electric service provider (NYSEG or Con Edison).
Q8:	On drawing VR-8 (sheet 36), section thru stone gutter callout for light stone fill, item 620.03. Bidder cannot locate this bid item in the bid proposal. Please indicate where bidder should carry costs for stone gutter - light stone fill.
A8:	Replace Bid Sheet 10 contained in the proposal book with attached Bid Sheet 10A1. On Contract Plan Sheet 3, add item 620.03 LIGHT STONE FILLING in the Veterans Road table with quantity 6 CY. Note that for consistency, all bid sheets have been reissued via this addendum.
Q9:	On drawing VR-7 (sheet 35), will any record plans be made available via addendum for bidders to review for the removal of existing concrete apron (approximate thickness?) and wingwall (approximate depth?) for item 202.19 at PIN 8761.71 Replacement of Veterans Rd Culvert? Please confirm the bid quantity for item 202.19 to be one (1) cy.
A9:	There are no record plans available for this structure. The volume calculation for item 202.19, which is substructure to be removed outside the expected limits of structural excavation, was based on field measurements. Replace Bid Sheet 15 contained in the proposal book with attached Bid Sheet 15A1. On Contract Plan Sheet 3, revise the quantity of item 202.19 REMOVAL OF SUBSTRUCTURES in the Veterans Road table to 9 CY. Note that the majority of the culvert will be removed under item 206.01 - Structural Excavation. Note that for consistency, all bid sheets have been reissued via this addendum.
Q10:	On drawings HB-9 & HB-10 (sheets 14-15), referring to callout in center of page showing limits of select structural fill and crushed material (typ.) and dimension below showing 3'-0" (typ.).
	10a) Are these dimensions / limits for select structural fill supposed to be 3'-0"?
	10b) Also, referencing section E1-E1 on Sheet 15, a dimension of 5'-0" is used to show the dimension from the outside of the invert slab to the outside limit of select structural fill. Please clarify which dimension should be used for calculating select structural fill if measuring from the outside of the invert slab to the neat line for embankment / suitable structure excavated material?
A10:	10a) The limit of structural fill is 3'-0" beyond the edge of the edge of the invert slab. Crushed stone shall be extended 2'-0" beyond the edge of the invert slab.
	10b) The 3'-0" dimension from the edge of invert slab should be used for calculating structural fill. On Contract Plan Sheet 15 (HB-10) change the dimension 5'-0" showing the width of structural fill to a dimension of 3'-0".
Q11:	On drawing HB-7 (sheet 12), please see callout for relocate hydrant (item 663.31). On drawing HB-19 (sheet 24), callout for same hydrant is proposed hydrant (item 663.1301). Please clarify.
A11:	The hydrant shall be removed (item 663.42 and 663.43) and replaced (items 663.0106, 663.2001, 663.1006, and 663.1301), as appearing in the estimate of quantities and bid sheets.
	On Contract Plan Sheet 12, revise the relocate hydrant callout to read, "REMOVE AND REPLACE EXISTING HYDRANT, SEE SHEET 24 FOR PAYMENT ITEMS."

	On Contract Plan Sheet 24, revise the proposed gate valve callout to read, "PROPOSED 6" GATE VALVE AND VALVE BOX, ITEM 663.1006."
Q12:	On drawings HB-4 & HB-10 (sheets 9 & 15), referring to bottom & top elevation of invert slab at PIN 8761.66 - Replacement of the Hill Boulevard Bridge. Drawing HB-4, Existing & Proposed Profile - shows the approximate elevation of +411 for top of invert & +408 for bottom of invert slab. Drawing HB-10, Excavation Sections E1-E1, shows the approximate elevations for the same invert slab as +415 & +412, accordingly. Also, drawing HB-10, Excavation Section E2-E2, shows the approximate elevations for the same invert slab (differnt view) as +415.5 & 414, accordingly.
	12a.) Please confirm the thickness of the invert slab is 3'0".
	12b.) Please confirm the required bottom elevation of new culvert top slab (roof) is +425. 03.
A12:	12a) The thickness of the invert slab is 3'-0".
	12b) The bottom elevation of the new culvert top slab at 425.03+/-, with a frame rise of 10'-0".
Q13:	On drawing HB-19 (sheet 24), referring to callout for, "CONCRETE ENCASEMENT, SEE NOTE 8, ITEM 555.09."
	13a.) Note 8 refers to concrete encasement of water main within 10 feet of the sanitary sewer main and to see drawing HB-21 (sheet 26) for encasement details. Bidder cannot locate detail for concrete encasement of water main on drawing HB-21. Please provide detail.
	13b.) Item 555.09 - Concrete for Structures, Class HP is typically used for cast-in-place structural walls. Please confirm item 555.09 should be used for all concrete encasement for items 663.0106 & 663.0112, 6" & 12" Ductile Iron Cement Lined Water Pipe within 10-feet of sanitary sewer line.
A13:	13a) Revise the second sentence in Note 8 on Contract Plan Sheet 24 to read, "SEE DWG WMD-2 FOR ENCASEMENT DETAILS." Replace Contract Plan Sheet 54 (Dwg WMD-2) with attached sheet 54A1, on which the circumstances and details for water main encasement near sewer facilities have been added.
	13b) Class A concrete may be used in lieu of Class HP concrete, however it shall be paid for under the Class HP concrete item.
Q14:	On drawing WMD-1 (sheet 53), referring to tables for the various thrust restraint / thrust block dimensions.
	14a.) Note 9 refers to the standard conditions used to determine the thrust block dimensioning. Please confirm bidders should use the same standard conditions to calculate the required thrust block dimensions (i.e. safety factor of 1.5, depth of cover of 5'-0", water system test pressure of 200 psi, soil bearing capacity of 14 psi, and soil unit weight of 90 lb/cf). If not, please indicate what conditions bidder should use to calculate the thrust block dimensions.
	14b.) The table for minimum restrained length of pipe (ft-in) Lr, does not included 12 NPS. Please indicate the minimum restrained length of pipe for both horizontal and vertical thrust restraint details.
	14c.) On drawing WMD-2 (sheet 54), referring to concrete anchor detail. Note 2 refers to excavation, placing of concrete, and other incidental expenses to construct concrete anchors (vertical bend thrust blocks) to be included in the unit price bid for concrete masonry (class b). Measurement and payment under this item shall be limited to those dimensions as shown on the detail. Bidder cannot locate the

	length or width of concrete anchor in detail to develop quantities. Bidder cannot locate indicated bid item. Please indicate dimensions and bid item to carry all costs for thrust blocks.
A14:	14a) The contractor shall use the thrust block dimensions as provided in the thrust block dimension tables on dwg. No. WMD-1, if field conditions differ any changes will be addressed in the field with approval of the engineer.
	14b) Please see NYS DOT standard sheets 663-02 and 663-03.
	14c) Payment for all thrust blocks shall be included as part of the bid price for the water main, fittings and appurtenances, as per the basis of payment section of the NYSDOT Standard Specifications (General 663-5.01). The contractor shall utilize the dimensions on standard sheet 663-03 to develop pricing.
Q15:	Are there liquidated damages on this project?
A15:	Liquidated Damages are as described within the sections "Completion Date" and "Failure to Complete Work on Time", Sections 108-2 and 108-03 of the NYSDOT Standard Specifications, respectively. Based on the anticipated construction value of this project, liquidated damages are expected to be \$2,000 per calendar day.
Q16:	Is the project tax exempt?
A16:	Yes, this project is tax exempt.
Q17:	Is there retainage on the project?
A17:	The Town will hold no retainage from the Prime Contractor, nor is the Prime Contractor allowed to hold retainage from subcontractors, as per Section 109-07 of the NYSDOT Standard Specifications.
Q18:	Will the contract time to complete the project start after the utility companies have relocated their utilities?
A18:	Relocations of water and sewer mains are included in the contract and are to be performed by the Contractor, not outside utility companies. Therefore, the contract time to complete the project starts upon notice to proceed.

END OF ADDENDUM NO. 3

WSP USA, Inc. 555 Pleasantville Road, North Building, Suite 201 Briarcliff Manor, NY 10510 Tel No.: 914.747.1120

Dated: May 12, 2020

PIN 8761.66 - REPLACEMENT OF HILL BOULEVARD BRIDGE OVER BARGER BROOK TRIBUTARY (BIN 2265539) PIN 8761.71 - REPLACEMENT OF VETERANS ROAD CULVERT OVER HALLOCKS MILL BROOK

TOWN OF YORKTOWN, WESTCHESTER COUNTY, NY

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201.06	CLEARING AND GRUBBING	1	LS	/LS	/LS		\$
202.19	REMOVAL OF SUBSTRUCTURES	9	CY	/CY	/CY	/CY	\$
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	790	CY	/CY	/CY	/CY	\$
203.03	EMBANKMENT IN PLACE	890	CY	/CY	/CY	/CY	\$
203.21	SELECT STRUCTURE FILL	1430	CY	/CY	/CY		\$
203.25	SAND BACKFILL	15	CY	/CY	/CY		\$
205.0402	LABORATORY ANALYSIS FOR HAZARDOUS WASTE RCRA TOXICITY CHARACTERISTIC	2	EA	/EA	/EA		\$
205.0403	LABORATORY ANALYSIS FOR IGNITIBILITY	2	EA	/EA	/EA	/EA	\$
205.0406	LABORATORY ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS (GASOLINE RANGE ORGANICS)	2	EA		/EA		\$
205.0407	LABORATORY ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS (DIESEL RANGE ORGANICS)	2	EA		/EA		\$
206.01	STRUCTURE EXCAVATION	3560	CY	/CY	/CY	/CY	\$
206.05	TEST PIT EXCAVATION	2	EA		/EA		\$

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206.0201	TRENCH AND CULVERT EXCAVATION	300	CY	/CY	/CY		\$
207.20	GEOTEXTILE BEDDING	610	SY	/SY	/SY	/SY	\$
207.26	PREFABRICATED COMPOSITE STRUCTURAL DRAIN	252	SY		/SY	/SY	\$
209.13	SILT FENCE - TEMPORARY	200	LF	/LF	_/LF		\$
304.11000008	SUBBASE COURSE (MODIFIED)	637	CY		/CY		\$
402.128103	12.5 F1 TOP COURSE HMA, 80 SERIES COMPACTION	152	TON		/TON		s
402.198903	19 F9 BINDER COURSE HMA, 80 SERIES COMPACTION	244	TON		/TON		
402.378903	37.5 F9 BASE COURSE HMA, 80 SERIES COMPACTION	487	TON		/TON		\$
407.0103	STRAIGHT TACK COAT	120	GAL		/GAL	/GAL	\$
552.15	INTERIM STEEL SHEETING	1810	SF	/SF	/\$F	/SF	\$
552.17	SHIELDS AND SHORING	600	SF	/SF	/SF	/SF	\$

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553.030001	TEMPORARY WATERWAY DIVERSION STRUCTURE	1	EA		/EA		\$
553.030002	TEMPORARY WATERWAY DIVERSION STRUCTURE	1	EA		/EA		\$
555.08	FOOTING CONCRETE, CLASS HP	350	CY				\$
555.09	CONCRETE FOR STRUCTURES, CLASS HP	5	CY	/CY	/CY		\$
556.0202	EPOXY-COATED BAR REINFORCEMENT FOR STRUCTURES	32100	LB	/LB	/LB		\$
562.0101	REINFORCED CONCRETE SPAN UNITS	270	SY	/SY		/SY	\$
562.03	WINGWALL WITH FOOTING	184	SY		/SY		\$
564.0501	STRUCTURAL STEEL, TYPE 1	1	LS		/LS		\$
568.51	STEEL BRIDGE RAIL (FOUR RAIL)	116	LF		/LF		\$
568.70	TRANSITION BRIDGE RAILING	256	LF	/LF	/LF		\$
595.50000018	SHEET APPLIED WATERPROOFING MEMBRANE	104	SF	/SF	/SF	/SF	\$
603.6003	REINFORCED CONCRETE PIPE CLASS III, 18 INCH DIAMETER	60	Ŀ	/LF	/LF		\$

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603.6005	REINFORCED CONCRETE PIPE CLASS III, 24 INCH DIAMETER	65	LF	/LF	/LF		\$
603.7305	REINFORCED CONCRETE PIPE END SECTIONS, 24 INCH DIAMETER	1	EA		/EA		\$
603.63180915	PRECAST CONCRETE BOX CULVERT (FILL HEIGHT LESS THAN 24 IN) 18 FOOT SPAN, 9 FOOT RISE	55	LF	/LF	/LF	/LF	s
603.77	CONCRETE COLLARS	1	EA	/EA			\$_
603.99010008	TRASH RACK	1	EA	/EA	/EA		\$
604.4060	ROUND PRECAST CONCRETE MANHOLE TYPE 60	8	LF	/LF	/LF	/LF	\$
606.120101	BOX BEAM END PIECE	8	EA	/EA	/EA		\$
606.71	REMOVING AND DISPOSING CORRUGATED BEAM GUIDE RAILING	280	LF	/LF	/LF		\$
608.020102	HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS, AND VEGETATION CONTROL STRIPS	34	TON		/TON		e
609.0101	STONE CURB (TYPE A)	30	LF				\$
609.0901	OPTIONAL CURB (PRECAST TYPE PVF150 OR CAST- IN-PLACE TYPE VF1 50 OR GRANITE TYPE C)	542	LF		/LF		\$_

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609.2201	UNPAINTED HOT MIX ASPHALT CURB (MOUNTABLE)	330	LF	/LF	/LF		\$
610.1402	TOPSOIL - ROADSIDE	122	CY		/CY		\$_
610.1601	TURF ESTABLISHMENT - ROADSIDE	935	SY	/SY	/SY	/SY	\$
614.060202	TREE REMOVAL OVER 6 INCHES TO 12 INCHES DIAMETER BREAST HEIGHT - STUMPS CUT FLUSH	7	EA		/EA		\$
614.060302	TREE REMOVAL OVER 12 INCHES TO 18 INCHES DIAMETER BREAST HEIGHT - STUMPS CUT FLUSH	2	EA	/EA	/EA	/EA	\$
614.060402	TREE REMOVAL OVER 18 INCHES TO 24 INCHES DIAMETER BREAST HEIGHT - STUMPS CUT FLUSH	4	EA	/EA	/EA	/EA	\$
615.01010108	MATERIAL FOR STREAM BED ESTABLISHMENT	76	CY	/CY	/CY		\$
619.01	BASIC WORK ZONE TRAFFIC CONTROL	1	LS	/LS	/LS		\$
619.04	TYPE III CONSTRUCTION BARRICADE	14	EA	/EA	/EA		\$_
619.110511	PORTABLE, VARIABLE MESSAGE SIGN (PVMS) STANDARD SIZE - FULL MATRIX (LED) NO OPTIONAL EQUIPMENT SPEC, NO CELLULAR COM REQ	6	EA		/EA		\$
619.1701	TEMPORARY CONCRETE BARRIER (UNPINNED)	214	LF		/LF		\$

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620.03	STONE FILLING (LIGHT)	6	CY	/CY	/CY	/CY	\$
620.04	STONE FILLING (MEDIUM)	170	CY		/CY		\$
623.12	CRUSHED STONE (IN PLACE MEASURE)	170	CY		/CY		\$
625.01	SURVEY OPERATIONS	1	LS	/LS	/LS		\$
627.50140008	CUTTING PAVEMENT	280	LF	/LF	/LF		\$
637.11	ENGINEERS FIELD OFFICE - TYPE 1	7	MNTH	/MNTH	/MNTH	/MNTH	\$
647.41	REMOVE AND STORE SIGN PANEL, SIGN ASSEMBLY SIZE I (UNDER 30 SQUARE FEET)	1	EA	/EA	/EA		\$
650.1010	TRENCHLESS INSTALLATION OF CASING PIPE UNDER HIGHWAY WITH A DIAMETER LESS THAN OR EQUAL TO 24" (10" DIAMETER)	115	LF		/LF		s
650.1012	TRENCHLESS INSTALLATION OF CASING PIPE UNDER HIGHWAY WITH A DIAMETER LESS THAN OR EQUAL TO 24" (12" DIAMETER)	115	LF	/LF	/LF	/LF	\$
655.1202	MANHOLE FRAME AND COVER	1	EA	/EA	/EA	/EA	\$
660.21100008	FURNISH & INSTALL STEEL CASING 10"	50	LF	/LF	/LF		\$
660.21120008	FURNISH & INSTALL STEEL CASING 12"	50	LF	/LF	/LF		\$
660.21160008	FURNISH & INSTALL STEEL CASING 16 NPS (OUTSIDE DIA)	35	LF	/LF	/LF		\$
660.70000004	MAINTENANCE OF SANITARY SEWER FLOWS	1	LS		/LS	/LS	\$

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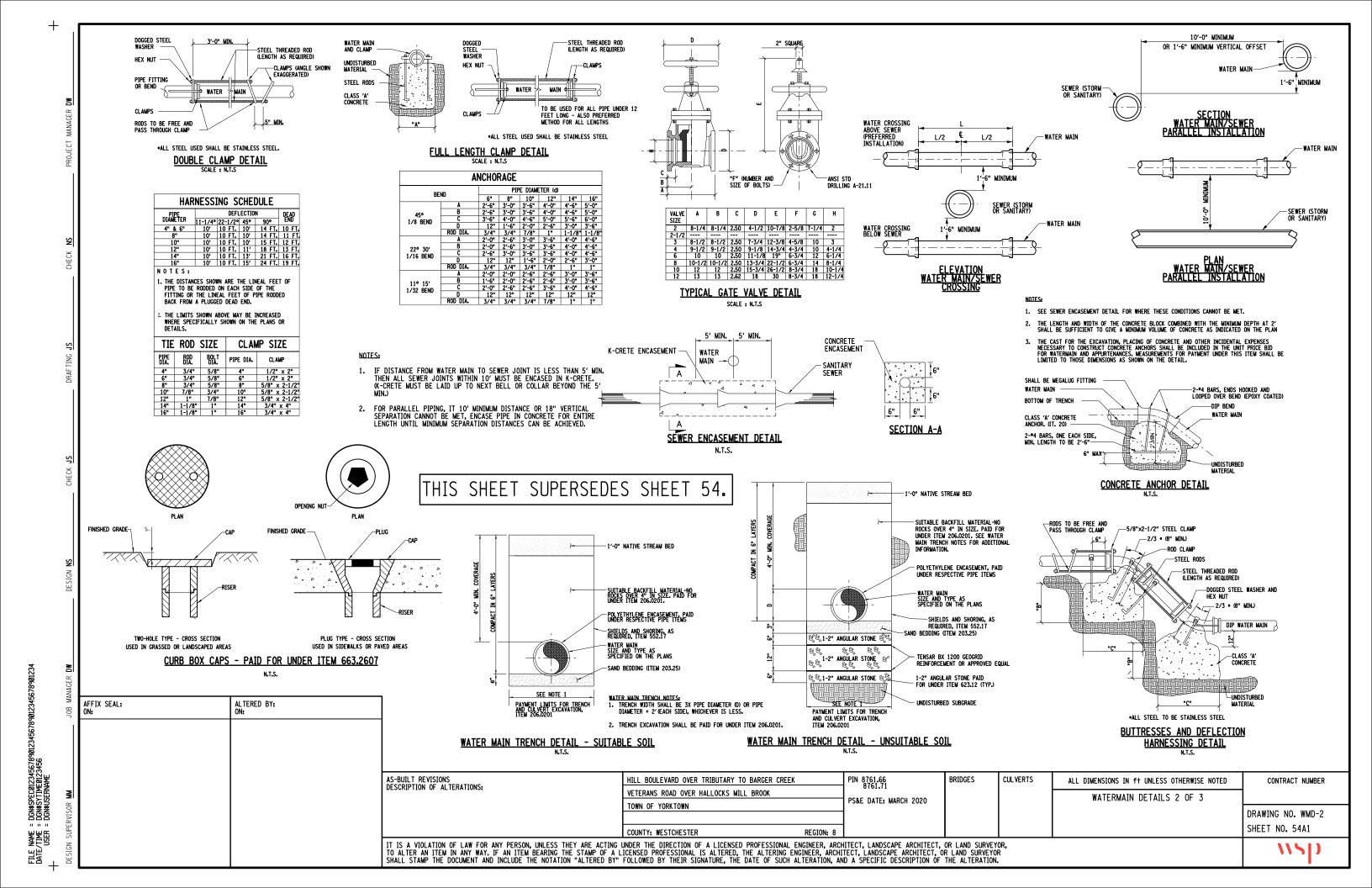
Item No.	Item Description	Est. Qty.	Unit	Unit Price (In Words)	Unit Price (In Numbers)	Total Price (In Words) (Est. Quantity x Unit Price)	Total Price (In Numbers) (Est. Quantity x Unit Price)
663.0106	6" DUCTILE IRON CEMENT LINED WATER PIPE	6	FT	/FT	/FT		\$
663.0112	12" DUCTILE IRON CEMENT LINED WATER PIPE	260	FT	/FT	/FT		\$
663.1006	6" RESILIENT WEDGE GATE VALVE & VALVE BOX	1	EA	/EA	/EA	/EA	\$
663.1212	12" DOUBLE DISK GATE VALVE & VALVE BOX	4	EA	/EA	/EA	/EA	\$
663.1301	HYDRANT	1	EA	/EA	/EA	/EA	\$
663.2001	IRON WATER MAIN FITTINGS (3" - 8")	19.2	LB	/LB	/LB	/LB	\$
663.2002	IRON WATER MAIN FITTINGS (10" - 16")	2496	LB	/LB	/LB	/LB	\$
663.42	REMOVE AND DISPOSE OF EXISTING WATER VALVE & VALVE BOX	1	EA		/EA		\$
663.43	REMOVE AND DISPOSE OF EXISTING HYDRANT	1	EA	/EA	/EA	/EA	\$
664.01060004	DUCTILE IRON SEWER PIPE & FITTINGS, 6"	130	LF	/LF	/LF	/LF	\$
664.01080004	DUCTILE IRON SEWER PIPE & FITTINGS, 8"	130	LF		/LF		\$

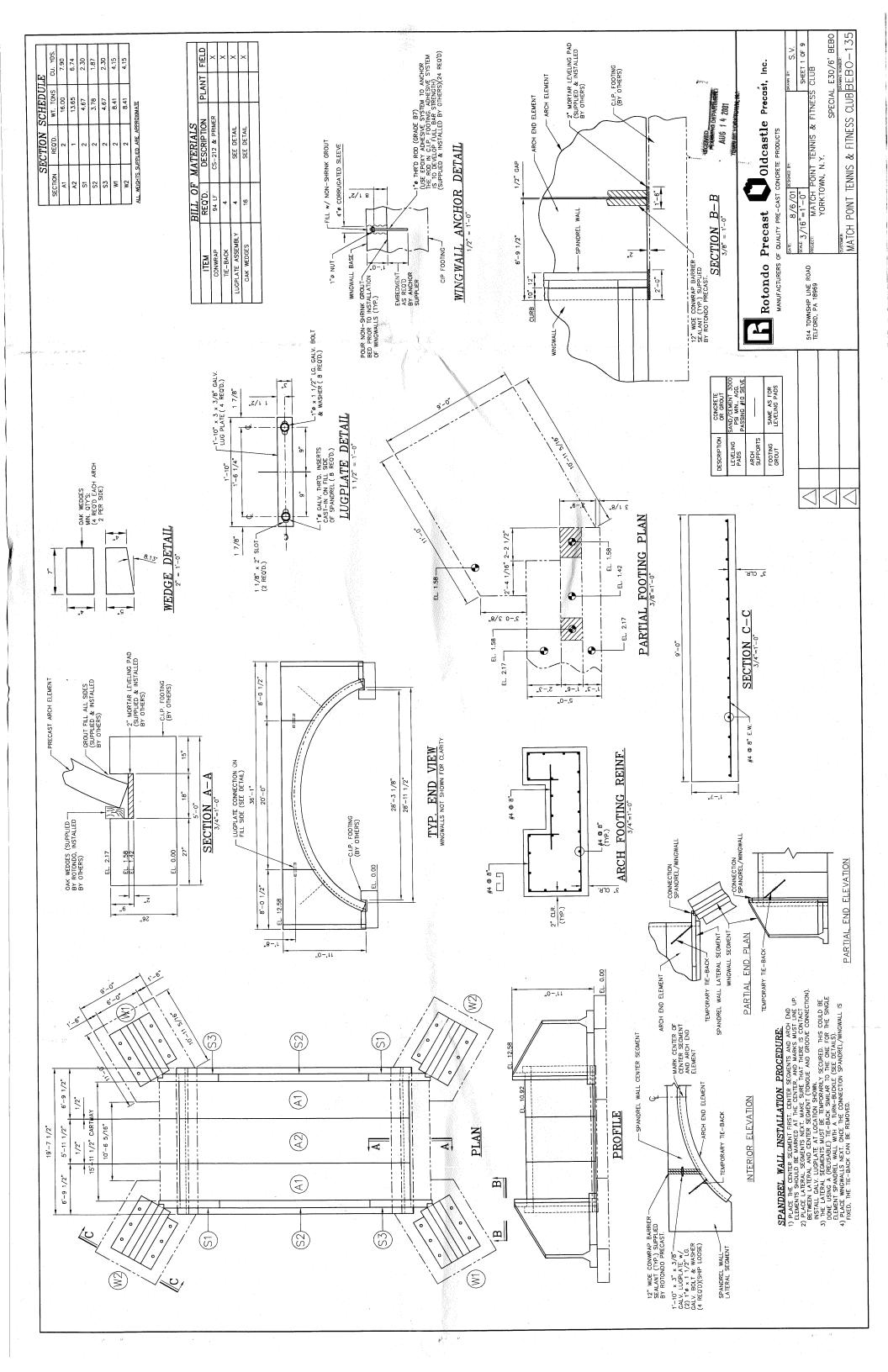
PIN 8761.66 - REPLACEMENT OF HILL BOULEVARD BRIDGE OVER BARGER BROOK TRIBUTARY (BIN 2265539) PIN 8761.71 - REPLACEMENT OF VETERANS ROAD CULVERT OVER HALLOCKS MILL BROOK

TOWN OF YORKTOWN, WESTCHESTER COUNTY, NY

Item No.	Item Description	Est. Qty.	Unit	Unit Price (In Words)	Unit Price (In Numbers)	Total Price (In Words) (Est. Quantity x Unit Price)	Total Price (In Numbers) (Est. Quantity x Unit Price)
664.01100004	DUCTILE IRON SEWER PIPE & FITTINGS, 10"	175	LF	/LF	/LF		\$
664.05160003	BRIDGE MOUNTING OF SEWER PIPE, 16"	42	LF	/LF	/LF	/LF	\$
664.40480006	PRECAST SANITARY SEWER MANHOLE (48" DIA)	18	LF	/LF	/LF	/LF	\$
680.94010003	WATERTIGHT DISCONNECT BOX - NEMA 4X	3	EA	/EA	/EA	/EA	\$
683.08020104	3G/4G LTE GATEWAY MODEM WITH ANTENNA	3	EA	/EA	/EA	/EA	\$
685.11	WHITE EPOXY REFLECTORIZED PAVEMENT STRIPES - 20 MILS	181	LF	/LF	/LF	/LF	\$
685.12	YELLOW EPOXY REFLECTORIZED PAVEMENT STRIPES - 20 MILS	300	LF	/LF	/LF	/LF	\$
697.03	FIELD CHANGE PAYMENT	120500	DC	ONE DOLLAR	\$1.00 /DC	\$120,500.00 /DC	\$120,500.00
698.04	ASPHALT PRICE ADJUSTMENT	1110	DC	ONE DOLLAR	\$1.00 /DC	\$1,110.00 /DC	\$1,110.00
698.05	FUEL PRICE ADJUSTMENT	1250	DC	ONE DOLLAR	\$1.00/DC	\$1,250.00 /DC	\$1,250.00
699.040001	MOBILIZATION (4%)	1	LS	/LS	/LS	/LS	\$

TOTAL PRICE IN NUMBERS \$	
TOTAL PRICE IN WORDS \$	





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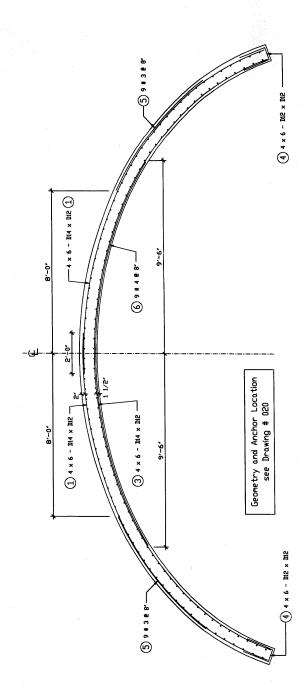
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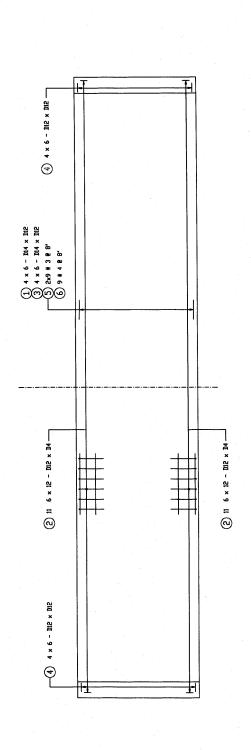
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 J. Bernini
 Version 04
 Varning. This document contains proprietary information and intellectual property and may not be used without the express, written consent of its owner, REBO of America. Reinforcing Steel: Deformed Bars AASHTO M31, Grade 60 Welded Wire Fabric AASHTO M55, Grade 65 AASHTO Class A 5,000 psi compressive strength (28 days) Inner surfaces 1 1/2' Outer surfaces 2' (against fill) FACE ANCHOR - 4 TON T-BAR ANCHOR X 6 1/4" LG. GEOMETRY AND ANCHOR LOCATION BEBO of America Inc. Post Office Box 11351 Montpowery Alabama 36111 USA Telephone: (334) 281 8547 Telefax: (334) 288 7909 STANDARD TYPE E30/0 Finish all edges with 3/4' bevel Weight of Anch Element: 27,290 lbs EDGE ANCHOR - 4 TON ERECTION ANCHOR w/ V-BAR & SHEAR BAR GENERAL NOTES ARCH ELEMENT BEBO SYSTEM Concrete Coveri Concrete 2,-11 1\5, 9 7/16" 14'-5 3/4" face anchor 9'-0 PLAN VIEW ELEVATION 30'-6 3/8" 30'-6 3/8" 9,-0, 14'-5 3/4' -face anchor

"9−,8

PLAN VIEW



ELEVATION



		1014	1: 3 1/4.	D14	DIE 6 1/2 3/4
FABRI0	Length	19, 5,	3, 0,	35, 9,	3, 0,
WIRE	Width	5, 8,	3, 0,	8 ,	છે લો
WELDED WIRE FABRIC	Style	4 × 6 - D14 × D12	6 x 12 - D12 x D4	4 × 6 - 114 × 112	4 × 6 - DI2 × DI2
	Mark Sheets	a	75	-	N.
	Mark		۵		4

REINFORCING STEEL SCHEDULE			
STEE	Type	str	str
VFORCING	Length	7'- 0'	20,- 0,
REI	9	18	6
	Mark Size	#3	#
	Mark	Ω.	9

NOTE: SELECT APPROPRIATE SPACERS (NOT INDICATED ON DRAVING)

GENERAL NOTES

AASHTO Class A 5,000 psi compressive strength (28 days) Concrete

Reinforcing Steel: Deformed Bars AASHTO M31, Grade 60 Velded Wire Fabric AASHTO M55, Grade 65

Concrete Cover: Inner surfaces 11/2'
Duter surfaces 2' (against fill)
Finish all edges with 3/4' bevel
Veight of Arch Element: 27,290 lbs

At the option of the precast manufacturer, substitution of welded whe may be permitted which provides equal to, or larger, areas of steel.

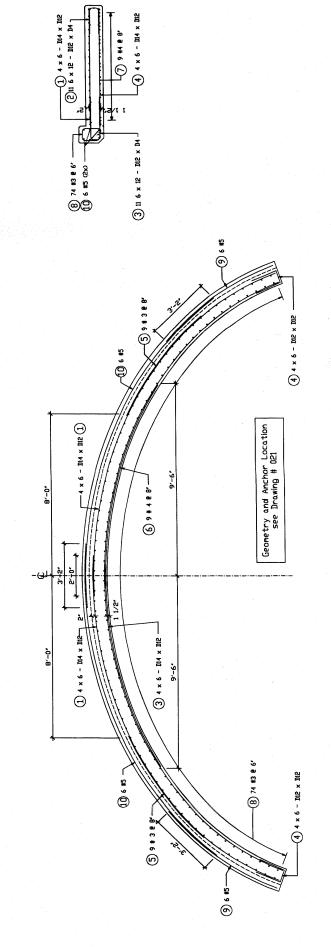
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BEBO of America Inc. Post Office Box 11351 Montgomery Alabama 36111 USA Telephone: (334) 281 8547 Telefax: (334) 288 7909

BEBO SYSTEM

STANDARD TY ARCH ELEME

ARCH ELEMENT REINFURCEMENT Size File #
<1 0/ 1 10 10 E1



5 1/e 1 3 1/4 5 1/2' 1, E 3/4. , D14 , D14 , D12 REINFORCING STEEL SCHEDULE WELDED WIRE FABRIC 3,0, Length 19' 6' 3,0, 4,8 35, 8, Vieth bent Type 568, 588 568 bent 300, 360, £. bent 6 × 12 - D12 × D4 6 × 12 - D12 × D4 4 × 6 - D14 × D12 ,9 ,9 4 x 6 - D14 x D12 4 x 6 - DI2 x DI2 6'- 0 20'- 0' 3'4 1/4" 17, 3, Length Style å 댔 ᄗ Mark Sheets Size 11 11 £ ณ ¥ # ¥ ď ო 8 2 a

B-B

SECTION

PLAN VIEW

NOTE: SELECT APPROPRIATE SPACERS (NOT INDICATED ON DRAWING)

GENERAL NOTES

Concrete: AASHTO Class A 5,000 psi compressive strength (28 days)

Reinforcing Steel: Deformed Bars AASHTO M31, Grade 60 Welded Wire Fabric AASHTO M55, Grade 65

Concrete Cover: Inner surfaces 11/2'
Duter surfaces 2' (against fill)
Finish all edges with 3/4' bevel
Weight of Arch End Element: 32,000 lbs

At the option of the precast norminaturer, substitution of veided whe may be permitted with provides equal to, or larger, areas of steel.

Varings The accurent contains proprietary information and intellectual property and may not be used without the express, written consent of its owner, REBI of America



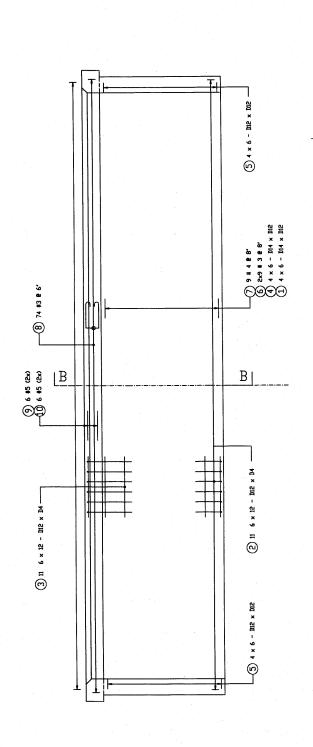
| Telefaxe (334) 288 7909 | BEB|| SYSTEM

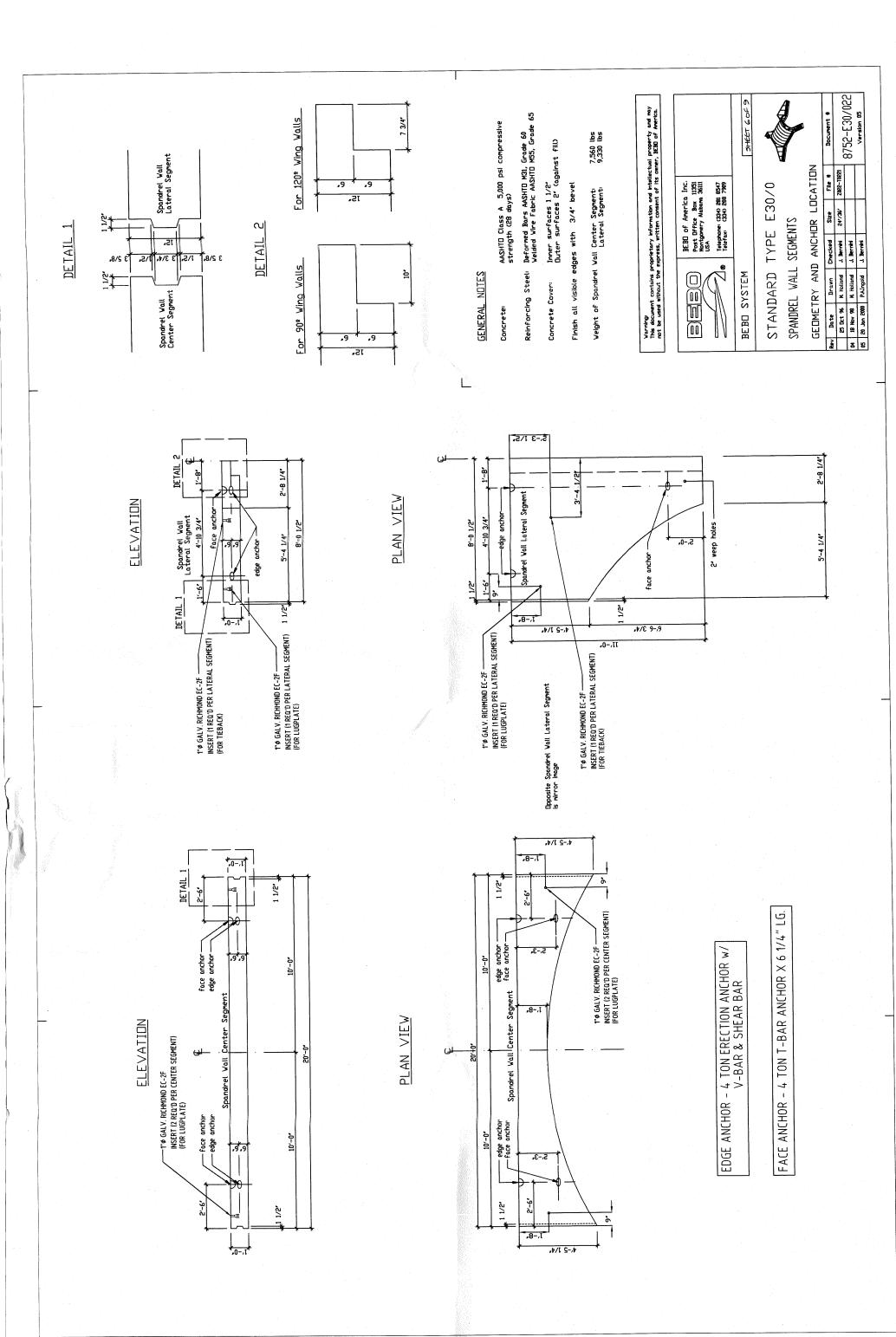
STANDARD TYPE E30/0 ARCH END ELEMENT

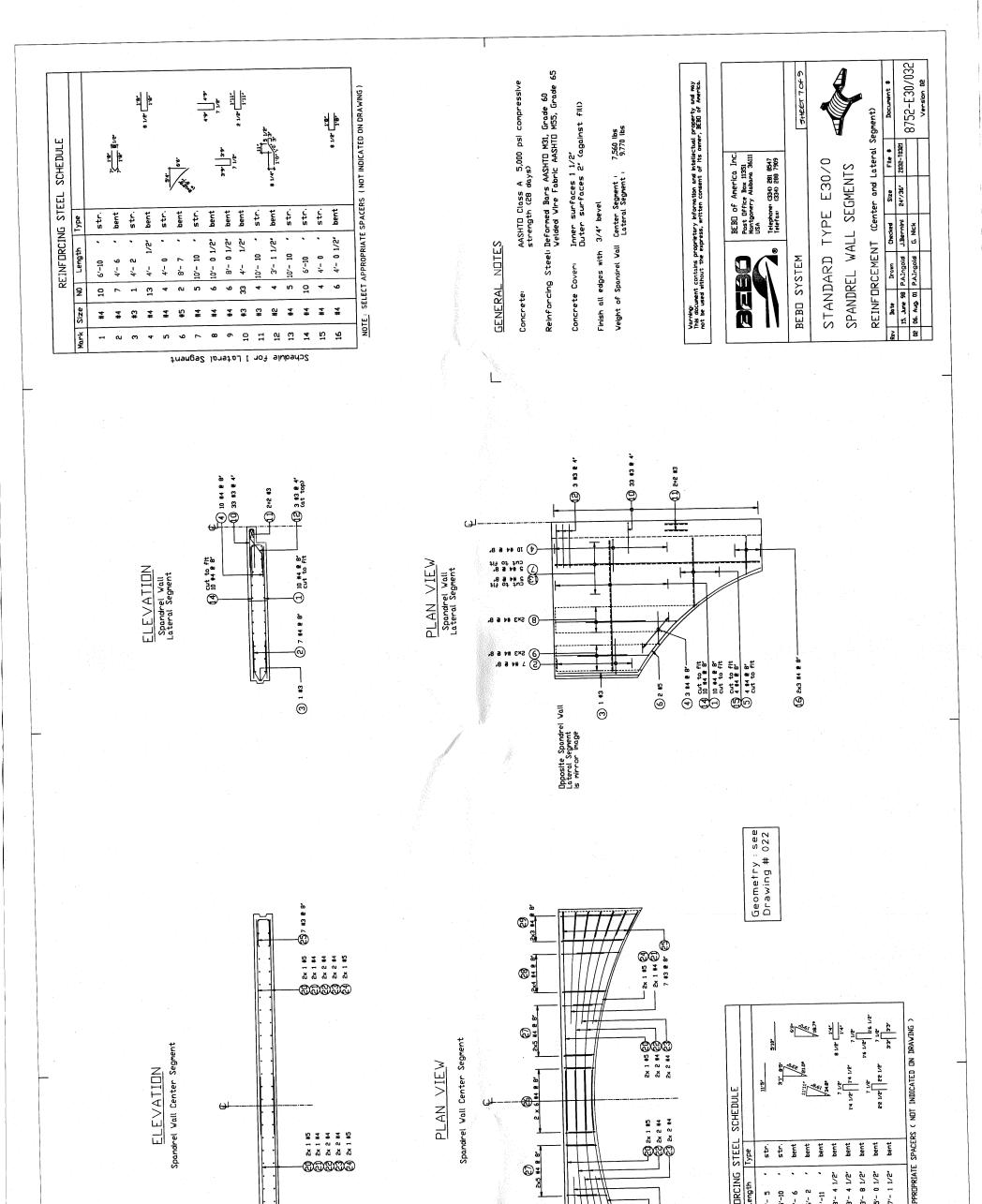
CLEMENT

| REINFORCEMENT | Size | File # | Document #

ELEVATION







REINFORCING S

2×4 #4 8 8°

3'- 4 1/2' 3'- 4 1/2' 3'- 8 1/2' 5'- 0 1/2' 7'- 1 1/2'

6'- 2 11'-11

Schedule for Center Segment

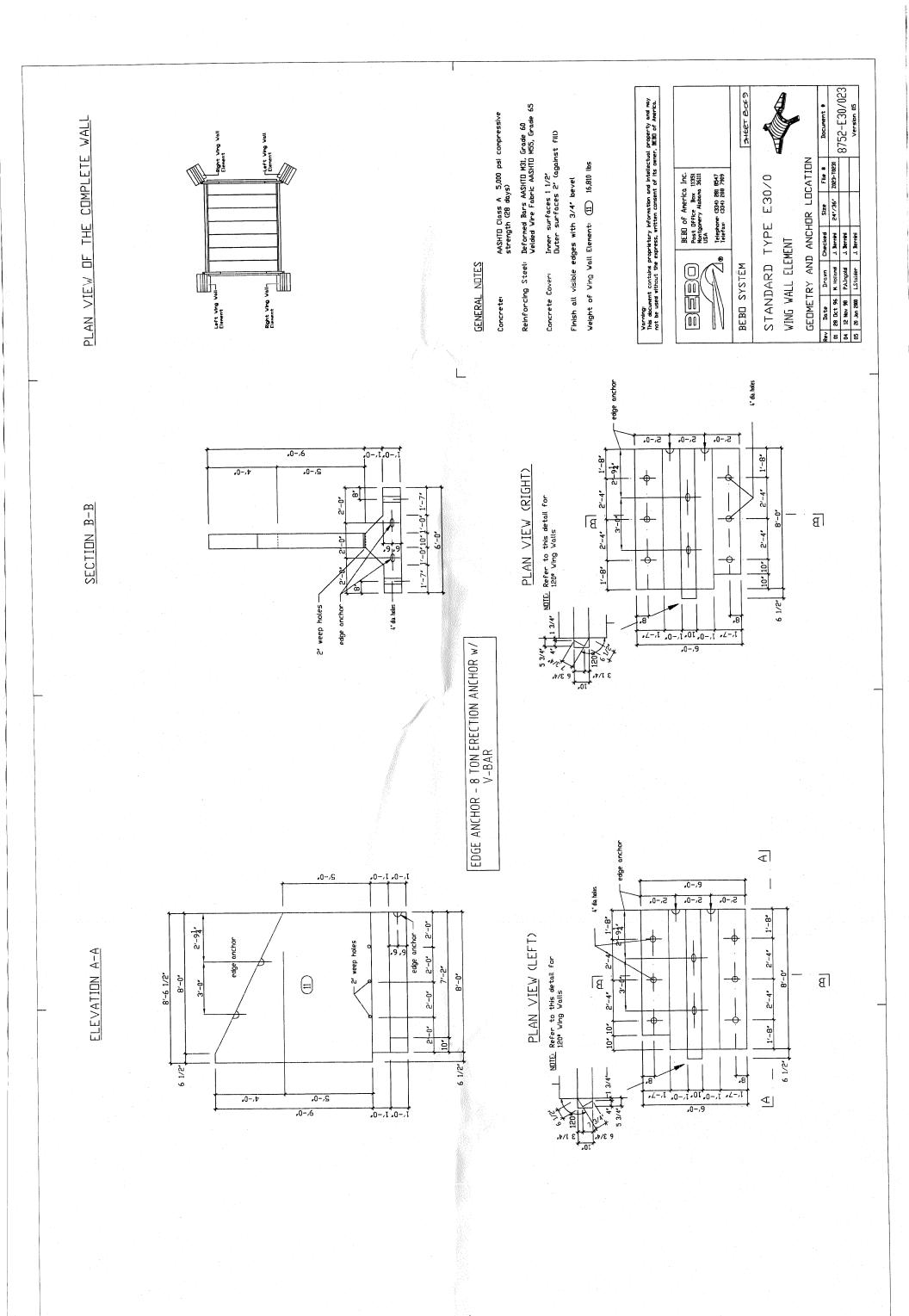
5′-10

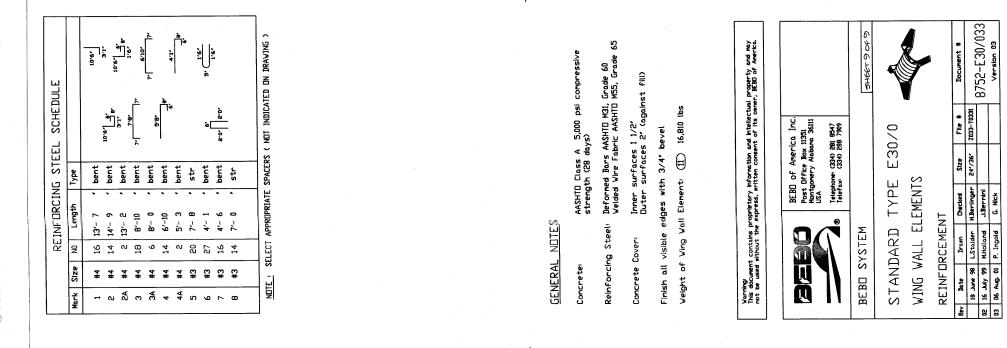
APPRIPRIATE

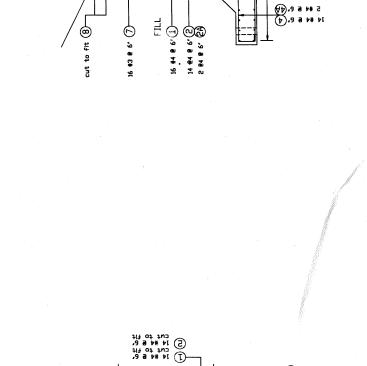
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7 #3 @ 8'

(0)







Cut to fit 66.

2 5× 10 #3 5 e.

SECTION B-B

ELEVATION A-A

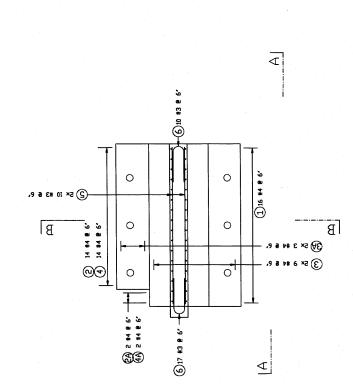
2×3 #4 6 6'3A

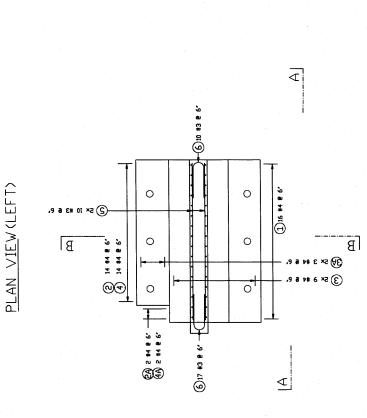
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DETAIL (NOSE)