	Project				Job Ref.		
	Estimated Quantities – CUY-480-04.46				J20200855.000		
	Section				Sheet no./rev.		
1100 Superior Avenue - Suite 300	Final Tracings				1		
Cleveland, Ohio 44114	Calc. by	Date	Chk'd by	Date	App'd by	Date	
	JDH	9-21-2022	MJD	9-26-2022	MJD	12-14-2022	

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

- Include parapets, fence, and any other appurtenances to complete work as described, etc.

	Project				Job Ref.	
	Est	imated Quantiti	es – CUY-480-0	4.46	J20200	855.000
	Section				Sheet no./rev.	
	Final Tracings				2	
Cleveland, Ohio 44114	Calc. by	Date	Chk'd by	Date	App'd by	Date
	JDH	9-21-2022	MJD	9-26-2022	MJD	12-14-2022

ITEM 509 - EPOXY COATED REINFORCING STEEL

From plan sheet (Reinforcing Schedule) quantities:

Superstructure (Parapet) Total (lbs);

T_{SUPER} = 11536

TOTAL WEIGHT OF REINFORCING STEEL (LB); T = T_{SUPER} = <u>11,536.000</u>

	Project				Job Ref.		
	Estimated Quantities – CUY-480-04.46				Estimated Quantities – CUY-480-04.46 J20200855.000		
	Section				Sheet no./rev.		
	Final Tracings					3	
Cleveland, Ohio 44114	Calc. by	Date	Chk'd by	Date	App'd by	Date	
	JDH	9-21-2022	MJD	9-26-2022	MJD	12-14-2022	

ITEM 509 - REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN

For use in variable thickness and full-depth areas of deck overlay.

1. At south end: 2 areas located near joint - 20 SF

2. Aspahlt patched areas near saouth end: (4'x4') + (2.5'x2.5') + (3'x3') = 32 SF

3. Areas across remainder/deck: 120 SF

Assume 5 LBS/SF for reinforcement replacement – Total = 172 SF

Deck Total (lbs); 172 SF x 5 LBS/SF

T_{DECK} = 860 (say 900 LBS)

TOTAL WEIGHT OF REINFORCING STEEL (LB); T = T_{DECK} = <u>900.000</u>

	Project				Job Ref.		
	Estimated Quantities – CUY-480-04.46				Quantities - CUY-480-04.46 J20200855.000		
Oshern Engineering	Section				Sheet no./rev.		
USDOTT Engineering	Final Tracings				4		
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	JDH	9-21-2022	MJD	9-26-2022	MJD	12-14-2022	

ITEM 511 – CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET), AS PER PLAN

*Item includes concrete parapets atop wingwalls.

Length of parapets on bridge (ft);	L _{BR} = 259.26
Length of parapets on wingwalls (ft);	L _{WW} = 73.65 (total)
Height of parapet (ft);	h _{ped} = 2.667

Width of parapet (ft); $w_{ped} = 1.0$

TOTAL VOLUME OF PARAPET CONCRETE (CU YD);

 $T_{PAR} = ceiling(((2 \times L_{BR} + (L_{WW})) \times h_{ped} \times w_{ped}) / 27, 1) = \underline{59.00}$

Tekla	Project							
Tedds	stimated Quantit	ties – CUY-480	J20200855.000					
Ochorn Engineering	Section		Sheet no./rev.					
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Cleveland, Ohio 44114	Calc. by	Date	Chk'd by	Date	App'd by	Date		
	JDH	9-21-2022	MJD	9-26-2022	MJD	12-14-2022		
ITEM 512 – SEALING OF CONCR	ETE SURFACI	ES (EPOXY-URE						
			<u> </u>					
Parapet on Bridge								
Sealing perimeter parapet (ft);	Sealing perimeter parapet (ft);		P _{rail} = 3.5 + 1 + 3.5 = 8.000					
*Includes 2" lip on outside fascia								
Sealing area – on bridge (SF);		A_{BR_rails} = (2 ×	$P_{rail} \times L_{BR}$) = 41	48.160				
Parapet on Wingwalls								
Sealing perimeter WW parapets (ft)	;	P _{rail ww} = 3.5 + 1 + 3.5 = 8.000						
*Includes 2" lip on outside fascia								
Sealing area – at wingwalls (SF);		$A_{WW_{rails}} = (P_{rail_{ww}} \times L_{WW}) = 120.000$						
TOTAL Area at parapata (SV):) (0, 1) - 47	4 000			
TOTAL Area at parapets (SY);		I _{ww_rails} = Cellir	IG((A _{ww_rails} + A _E	BR_rails) / 9, 1) = 47	1.000			
TOTAL QUANTITY OF SEALING (SY);	T ₅₁₂ = T _{ww_rails}	= <u>471.000</u>					

	Project				Job Ref.	
	Estimated Quantities – CUY-480-04.46				J20200855.000	
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	JDH	9-21-2022	MJD	9-26-2022	MJD	12-14-2022

ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN

Interior crossframe (L 3x3x5/16) (lbs/ft);	$W_{INT} = 6.10$
Length/complete interior replaced (ft);	$L_T = 26.50$
Length/lower ∟interior replaced (ft);	$L_L = 8.50$
Length/cross ∟interior replaced (ft);	$L_C = 8.83$
Number toal interior replaced;	N _T = 8
Number lower ∟ interior replaced;	N _L = 11
Number cross ∟ interior replaced;	N _C = 9
Length of interiors (ft);	$L_{\text{INT}} = (N_{\text{T}} \times L_{\text{T}}) + (N_{\text{L}} \times L_{\text{L}}) + (N_{\text{C}} \times L_{\text{C}}) = \textbf{384.970}$

TOTAL WEIGHT OF STRUCTURAL STEEL (lbs); W_{ST} = ceiling($W_{INT} \times L_{INT}$, 1) = <u>2349.000</u>

Job Ref.		
J20200855.000		
heet no./rev.		
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.pp'd by	Date	
MJD	12-14-2022	
ol h	o Ref. J202008 eet no./rev. p'd by MJD	

ITEM 516 - BEARING DEVICE, ROCKER

FWD ABUTMENT (EA);	E _{FA} = 0.00
REAR ABUTMENT (EA);	E _{RA} = 1.00

TOTAL NUMBER OF ROCKERS (EA); $R_{REPL} = ceiling(E_{FA} + E_{RA}, 1) = 1.00$

	Project				Job Ref.		
	Estimated Quantities – CUY-480-04.46				ties – CUY-480-04.46 J20200855.000		
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	JDH	9-21-2022	MJD	9-26-2022	MJD	12-14-2022	

ITEM 516 - REFURBISH BEARING DEVICE, AS PER PLAN

FWD ABUTMENT (EA);	E _{FA} = 5
REAR ABUTMENT (EA);	E _{RA} = 4
PIER 1 (EA);	E _{P1} = 0
PIER 2 (EA);	E _{P2} = 0
PIER 3 (EA);	E _{P3} = 0

TOTAL NUMBER OF ROCKERS REFURBISHED (EA); R_{REF} = ceiling(E_{FA} + E_{RA} + E_{P1} + E_{P2} + E_{P3}, 1) = <u>9.00</u>

	Project	Project				Job Ref.	
	Est	Estimated Quantities – CUY-480-04.46				J20200855.000	
	Section				Sheet no./rev.		
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Cleveland, Ohio 44114	Calc. by	Date	Chk'd by	Date	App'd by	Date	
	JDH	9-21-2022	MJD	9-26-2022	MJD	12-14-2022	

ITEM 516 - JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN

	Project				Job Ref.	
	Est	imated Quantitie	es – CUY-480-0-	4.46	J20200	855.000
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Cleveland, Ohio 44114	Calc. by	Date	Chk'd by	Date	App'd by	Date
	JDH	9-21-2022	MJD	9-26-2022	MJD	12-14-2022

ITEM 519 – PATCHING CONCRETE STRUCTURE	E, AS PER PLAN							
Include walks, curbs, approach slabs and portions of backwalls								
Per BDM C405.2.1 – add 25% to all quantities for fi	nal.							
Length of curb repairs (ft); Width of curb (ft);	L _{curb} = 2.25 + 3 + 105 + 105 + 5 + 2.25 = 222.500 W _{curb} = 0.5							
	L _{curb} × W _{curb} = 112.00 x 1.25 = 140							
Area of walk repairs (SF);	A _{walk} = 4+4+2+4 = 14.000 x 1.25 = 18							
Area of approach slab repairs (SF);	A _{appr} = 4+4+2+4 = 85.000 x 1.25 = 107							
TOTAL CONCRETE PATCHING (SF);	$P_{CONC} = ceiling((L_{curb} \times W_{curb}) + A_{appr} + A_{walk}, 1) = \underline{265.000}$							

	Project				Job Ref.	
	Est	imated Quantiti	es – CUY-480-0	4.46	J20200	855.000
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ITEM 530 - SPECIAL STRUCTURE, MISC.: BRIDGE CLEANING

	Project				Job Ref.		
	Est	imated Quantiti	es – CUY-480-0	4.46	J20200	855.000	
Ochorn Engineering	Section				Sheet no./rev.		
	Final Tracings				12		
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	JDH	9-21-2022	MJD	9-26-2022	MJD	12-14-2022	

ITEM 607 - VANDAL PROTECTION FENCE, 6' STRAIGHT COATED FABRIC

Length of parapets on bridge (ft);

L_{VPF} = 294.4

TOTAL VANDAL PROTECTION FENCE (LF); T_{VPF} = ceiling ((2 × L_{VPF}), 5) = 590.000

	Project				Job Ref.	
	Est	imated Quantiti	es – CUY-480-0	4.46	J20200	855.000
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	JDH	9-21-2022	MJD	9-26-2022	MJD	12-14-2022

ITEM 848 - SURFACE PREPARATION USING HYDRODEMOLITION, AS PER PLAN

For ODOT SS848, utilize SDC with 13/4" removal

Removal area – across deck (SF);	A _{Deck} = (259.26' x 28') = 7259.28	

TOTAL Sq Yds of deck removal (SY);

T_{Deck} = ceiling((A_{Deck}) / 9, 1) = **807.00**

TOTAL QUANTITY OF SURFACE PREP (SY); $T_{512} = T_{ww_rails} = 807.00$

	Project		Job Ref.			
	Est	imated Quantiti	es – CUY-480-0	4.46	J20200	855.000
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Cleveland, Ohio 44114	Calc. by	Date	Chk'd by	Date	App'd by	Date
	JDH	9-21-2022	MJD	9-26-2022	MJD	12-14-2022

ITEM 848 - TEST SLAB

	Project				Job Ref.	
	Est	imated Quantiti	es – CUY-480-0	4.46	J20200855.000	
	Section		Sheet no./rev.			
1100 Superior Avenue - Suite 300		Final	Tracings			15
Cleveland, Ohio 44114	Calc. by	Date	Chk'd by	Date	App'd by	Date
	JDH	9-21-2022	MJD	9-26-2022	MJD	12-14-2022

ITEM 848 – HAND CHIPPING

For ODOT SS848, estimate variable thickness area/deck = 732 SFAnd,732 / 7280 SF (total deck) = 0.1 or 10% of deck area

Per SS848, 0.1(deck are in SY) requires chippingRemoval area – across deck (SY); $A_{Deck} = (0.1 \times 807 \text{ SY}) = 81.00 \text{ (say 85 SY)}$

TOTAL Sq Yds of hand chipping (SY);

T_{Deck} = ceiling((A_{Deck}) / 9, 1) = **85.00**

TOTAL QUANTITY OF HAND CHIPPING (SY); T₈₄₈ = T_{Deck} = <u>85.00</u>

Tokla	Project				Job Ref.	
	Est	imated Quantiti	es – CUY-480-0	4.46	J20200	855.000
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	JDH	9-21-2022	MJD	9-26-2022	MJD	12-14-2022

ITEM 848 - SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION (1.75" THICK)

For ODOT SS848, utilize SDC with $1\frac{3}{4}$ " removal and replacement -

Removal area – across deck (SF);	A _{Deck} = (259.26' x 28') = 7259.28
TOTAL Sq Yds of deck overlay (SY);	T _{Deck} = ceiling((A _{Deck}) / 9, 1) = 807.00

TOTAL QUANTITY OF SDC OVERLAY (SY); $T_{848} = T_{Deck} = \underline{807.00}$

	Project				Job Ref.	
	Est	imated Quantitio	es – CUY-480-0	4.46	J20200	855.000
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	JDH	9-21-2022	MJD	9-26-2022	MJD	12-14-2022

ITEM 848 - SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY

Per ODOT SS848, assume 75% of deck patching areas will require variable thickness.

Removal area – across deck (SF); $A_{Deck} = (732 \text{ SF x } 0.75) =$ **549.00**Assume some of larger patches (asphalt) will be up to 4" to 4½" deep.Utilize 2" average depth for repairs of variable depth.

TOTAL Volume of deck variable thick overlay (CF);VDeck = 549' x 0.167' = 91.7 CFUsing ODOT's comments (Stage 2) and BDM, Table 403-3,Double the amount – obtain 184 CF

TOTAL VOLUME OF VAR. THICK SDC (CU YD);

 $V_{SDC} = ceiling((V_{deck}) / 27, 1) = 10.00$

Use higher amount based on years that deck will sit through winter and variable temperature rise/fall. Note that much of these areas (from previous experience and nature of asphalt patches) will expose the top mat of rebar. Hence, contractor will most likely have replacement of steel and require additional hand chipping to expose bottom of rebar.





	Project				Job Ref.	
	Est	imated Quantiti	es – CUY-480-0	4.46	J20200	855.000
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	JDH	9-21-2022	MJD	9-26-2022	MJD	12-14-2022

ITEM 848 – FULL DEPTH REPAIR

Per ODOT SS848, provide quantity of full-depth deck patching areas.

- 2020 inspection shows 40 SF of cracks, spalls and delams on underside;
- During our site visit, the underside was in very good condition;
- Note that asphalt patched areas "may" provide full-depth holes once ready for contract.

Areas are less than 1% of deck

TOTAL Volume of deck full-depth (CF);

V_{Deck} = 40 SF x 0.7083' = 28.33 CF

TOTAL VOLUME OF FULL-DEPTH (CU YD);

 $V_{SDC} = ceiling((V_{deck}) / 27, 1) = 2.00$

	Project				Job Ref.	
	Est	imated Quantiti	es – CUY-480-0-	4.46	J20200	855.000
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UNDER ROADWAY QUANTITIES:

ITEM 606 - MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1

Place on each corner

TOTAL NUMBER OF BTA'S (EA); $R_{BTA} = ceiling(1) = 4.00$

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE T

Place on each corner

TOTAL NUMBER OF ANCHOR ASSEMLIES (EA); $R_{BTA} = ceiling(1) = 4.00$

	Project				Job Ref.	
	Est	timated Quantiti	es – CUY-480-0-	4.46	J20200	855.000
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Cleveland, Ohio 44114	Calc. by	Date	Chk'd by	Date	App'd by	Date
	JDH	9-21-2022	MJD	9-26-2022	MJD	12-14-2022

UNDER LIGHTING QUANTITIES:

ITEM 625 - REMOVE AND REERECT EXISTING LIGHT POLE, AS PER PLAN

For use at each existing light pole ON BRIDGE.

2 LIGHTS BEING REMOVED AND REERECTED – EAST ONLY

TOTAL NUMBER LIGHTS (EA); $R_L = \text{ceiling}(2, 1) = \underline{2.00}$

		Project				Job Ref.			
		Estimated Quantities – CUY-480-04.46 J20200855.000							
	Osborn Engineering	Section				Sheet no./rev.			
			Final	Tracings		21			
	Cleveland, Ohio 44114	Calc. by	Date	Chk'd by	Date	App'd by	Date		
		JDH	9-21-2022	MJD	9-26-2022	MJD	12-14-2022		
Ì					-		•		
	ITEM 625 – STRUCTURE JUNCTIC	<u>IN BOX</u>							
For use at each reerected light pole.									
	2 LIGHTS BEING REMOVED AND	REERECTED							

TOTAL NUMBER JUNCTION BOXES (EA); $R_L = \text{ceiling}(2, 1) = \underline{2.00}$

ITEM 625 - STRUCTURE GROUNDING SYSTEM

1 EACH - PER BDM

TOTAL GROUNDING SYSTEM (EA); $R_L = ceiling(2, 1) = \underline{1.00}$

/ Tekl a	Project			04.40	Job Ref.	0055 000
Tedds			$e_{5} = C_{01} + 400$	-04.40	J2020	00000.000
Osborn Engineering	Section	- : 1	- ·		Sneet no./rev.	00
1100 Superior Avenue - Suite 300		Final	Tracings			22
Cleveland, Ohio 44114	Calc. by	Date	Chk'd by	Date	App'd by	Date
	JDH	9-21-2022	MJD	9-26-2022	MJD	12-14-20
ITEM 625 - CONDUIT, 2", 725.05	51, AS PER PLA	<u>AN</u>				
The existing 2" conduit is housed i	in the sidewall s	lab below the par	apet and shall	remain.		
Item shall include a contingency q	uantity as requir	red to complete ite	em, mostly for	tie-ins at junction	boxes and lig	ht poles.
EAST PARAPET = 2 poles x 20 l WEST PARAPET = 0 LF	∟F (10' on eithe	er side) = 40 LF				
TOTAL = 40 LF						
TOTAL LENGTH CONDUIT (LF);	RL	= ceiling(TOTAL	, 1) = <u>40.00</u>			
ITEM 625 – CONNECTION, FUSE Used in base of poles to for currer	ED PULL APAR	t <mark>T</mark> uctors.				
EAST PARAPET = 2 poles = 2 E WEST PARAPET = 0	A					
TOTAL = 2 EA						
TOTAL FUSED CONN (EA);	R _L = cei	iling(TOTAL, 1) =	2.00			
ITEM 625 - CONNECTION, UNFL	JSED PULL AP	ART				
Used in base of poles to for groun	ding conductors					
EAST PARAPET = 2 poles = 2 E WEST PARAPET = 0	A					
TOTAL = 2 EA						
TOTAL UNFUSED CONN (EA);	R _L =	ceiling(TOTAL,	1) = <u>2.00</u>			
ITEM 625 - CONNECTION, FUSE	ED PULL APAR	<u>T</u>				
Used in ground box.						
EAST PARAPET = 2 poles = 2 E WEST PARAPET = 0	A					
EAST PARAPET = 2 poles = 2 E WEST PARAPET = 0 TOTAL = 2 EA	A					

Image: Constraint of the form of the	TechdsEstimated Quantities - CUY-480-04.46J20200855.000Obtom Engineering 1100 Superior Avenue - Suite 300SectionFinal Tracings23Cite: by JDHDateCite's by JDHDateApril by 9-26-2022MJDTEM 625 - NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE Current carrying conductors in the feeder – from pull box to pul box.Pull Boxes:TOTAL 825 - NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE Current carrying conductors in the feeder – from pull box to pul box.Pull Boxes:TOTAL 825 - NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE Current carrying conductors in the feeder – from pull box to pul box.Pull Boxes:TOTAL NO. 4 AWG (LF);RL = ceiling(TOTAL, 1) = 331.00TOTAL NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE Grend conductor – from pull box to pul box.Pull Boxes: STA 20+75 (N) STA 17+44 (S)RL = ceiling(TOTAL, 1) = 331.00TOTAL NO. 6 AWG (LF);RL = ceiling(TOTAL, 1) = 331.00TTEM 625 - NO. 10 AWG POLE AND BRACKET Cable that goes from junction box and up pole – taken from existing plans.Stations from existing plans: STA 18+24 (RT)84 LF PROVIDED A LF PROVIDEDTOTAL = 84 + 84 = 168TOTAL NO. 10 AWG (LF);TOTAL = 84 + 84 = 168TOTAL NO. 10 AWG (LF);RL = ceiling(TOTAL, 1) = 158.00		Project				Job Ref.	
Section Sheet no./rev. Obsom Engineering 1100 Superior Avenue - Sulte 300 Citive Jule 200 Citit State 200 <td colspan="</td> <td>Section Section Cell by Date Applying 23 Cell Date Jack Jack</td> <td></td> <td>Es</td> <td>timated Quantit</td> <td>ies – CUY-480</td> <td>-04.46</td> <td>J2020</td> <td>0855.000</td>	Section Cell by Date Applying 23 Cell Date Jack		Es	timated Quantit	ies – CUY-480	-04.46	J2020	0855.000
USborn Engineering 1100 Superior Avenue - Suite 300 Cleveland, Ohio 44114 Final Tracings 23 Calc. by Date Chk'd by Date App'd by Date 12-14. ITEM 625 – NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE Current carrying conductors in the feeder – from pull box to pul box. Pull Boxes: STA 20+75 (N) STA 17+44 (S) TOTAL = 2075 – 1744 = 331.00 TOTAL NO. 4 AWG (LF); R _L = ceilling(TOTAL, 1) = <u>331.00</u> ITEM 625 – NO. 6 AWG 2400 VOLT DISTRIBUTION CABLE Grond conductor – from pull box to pul box. Pull Boxes: STA 20+75 (N) STA 20+75 (N) STA 17+44 (S) TOTAL NO. 6 AWG 2400 VOLT DISTRIBUTION CABLE Grond conductor – from pull box to pul box. Pull Boxes: STA 20+75 (N) STA 20+75 (N) STA 17+44 (S) TOTAL = 2075 – 1744 = 331.00 TOTAL = 2075 – 1744 = 331.00 TOTAL NO. 6 AWG (LF); R _L = ceilling(TOTAL, 1) = <u>331.00</u> TOTAL NO. 6 AWG (LF); R _L = ceilling(TOTAL, 1) = <u>331.00</u>	Final Tracings231100 Superior AvenuesSuite 300 Cireveland, Ohio 44114Date JDHPate 9-21-2022App'd by MJDDate 12-14-2TEEM 625 - NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE Current carrying conductors in the feeder from pull box to pul box.Pull Boxes: 	ledds	Section				Sheet no./rev.	
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	Project				Job Ref.	
	Est	imated Quantiti	es – CUY-480-0	4.46	J20200	855.000
Oshorn Engineering	Section				Sheet no./rev.	
1100 Superior Avenue - Suite 300		Final	Tracings		:	24
Cleveland, Ohio 44114	Calc. by	Date	Chk'd by	Date	App'd by	Date
	JDH	9-21-2022	MJD	9-26-2022	MJD	12-14-2022

ITEM 625 - PULL BOX CLEANED

The pull box where the disconect and reconnect occurs must be cleaned.

1 LOCATION

TOTAL NUMBER PULL BOXES CLEANED (EA); R_L = ceiling(2, 1) = <u>1.00</u>

ITEM 625 – MAINTAIN EXISTING LIGHTING

LUMP SUM

ITEM 625 - DISCONNECT CIRCUIT

Disconnect from existing circuit.

1 LOCATION

TOTAL NUMBER DISCONNECTIONS (EA); $R_L = ceiling(2, 1) = \underline{1.00}$