

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

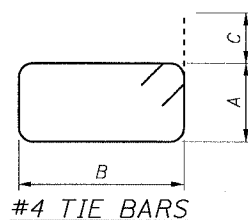
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2021-922PT.1-AC	COOK	460	354
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

62693

High Mast Light Tower Identification Number	Frontage Road or Street or C / D Road / Retaining Wall Structure Number	Street or Road Baseline Station - Centerline of Drilled Shaft Note 5	Drilled Shaft Diameter (Inches)	T / Pedestal = T / Parapet Elevation (Feet)	B / Pedestal = T / Drilled Shaft Elevation (Feet)	B / Drilled Shaft Elevation (Feet) Note 7	Soil Boring Reference	Pedestal Size (Feet - Inches)	Reinforcement Bars - Note 1.				Quantities - Note 2.				
									Mark	Number	Size	Length (Feet - Inches) Note 8	Drilled Shaft in Soil, 48 Inch Diameter (Foot) Note 11	Concrete Superstructure (Cu. Yds.)	Concrete Structures (Cu. Yds.)	Reinforcement Bars (Pound) Notes 1 and 9	
7TEF1	S. Wentworth Ave. S.N. 016 - W887, W965	129+84.56 (12.51' Lt) Fluted Parapet	48	21.69	3.50	-17.00	RER-11	5' - 0" x 4' - 3"	CV101	16	10	26' - 3"	20.50	2.2	12.1	2,135	
									CS101	1	4	20' - 6"					2,727 (E)
									PV101(E)	30	10	17' - 8"					
									PT101(E)	32	4	14' - 7"					
									PT201(E)	16	4	12' - 7"					
CV102	16	10	30' - 3"	24.50	2.3	9.7	2,465										
CS102	1	4	24' - 6"					2,350 (E)									
PV102(E)	30	10	14' - 6"														
PT102(E)	34	4	14' - 9"														
PT201(E)	17	4	12' - 7"														
7TEF3	S. Wentworth Ave. S.N. 016 - W886	121+77.50 (8.71' Lt) Fluted Parapet	48	23.00	-1.50	-22.00	RER-1 HML-141		5' - 0" x 4' - 3"	CV103	16	10	26' - 3"	20.50	2.2	17.1	2,135
								CS103		1	4	20' - 6"	3,795 (E)				
								PV103(E)		30	10	23' - 12"					
								PT103(E)		50	4	14' - 7"					
								PT201(E)		25	4	12' - 7"					
7TAB2	S. Wells Street S.N. 016 - W964	529+51.34 (20.84' RT) Fluted Parapet	48	22.10	1.00	-16.00	RWE-5 STB-14	5' - 0" x 4' - 3"	CV104	16	10	22' - 9"		17.00	2.2	14.4	1,845
									CS104	1	4	17' - 0"	3,243 (E)				
									PV104(E)	30	10	20' - 7"					
									PT104(E)	42	4	14' - 7"					
									PT201(E)	21	4	12' - 7"					
7TAB3	S. Wells Street S.N. 016 - W903	524+92.69 (6.71' RT) Fluted Parapet	48	21.69	4.00	-16.00	RWEb-9	5' - 0" x 4' - 3"	CV105	16	10	25' - 9"		20.00	2.2	11.7	2,093
									CS105	1	4	20' - 0"	2,690 (E)				
									PV105(E)	30	10	17' - 2"					
									PT105(E)	34	4	14' - 7"					
									PT201(E)	17	4	12' - 7"					
7SCD2	S. Wells Street Fluted Knee Wall	513+00.00 (6.69' RT) Fluted Parapet	48	17.27	13.27	-3.23	HML-132	4' - 0" x 4' - 6"	CV106	16	10	22' - 3"		16.50	2.7		1,700
									CS106	1	4	16' - 6"	117 (E)				
									PV106(E)	12	6	3' - 6"					
									PT103(E)	5	4	16' - 3"					

BILL OF MATERIAL		
	UNIT	QUANTITY
DRILLED SHAFT IN SOIL, 48 INCH (Note 11)	FOOT	119
CONCRETE SUPERSTRUCTURE	CU. YD.	11.1
CONCRETE STRUCTURES	CU. YD.	67.7
REINFORCEMENT BARS	POUND	12,370
REINFORCEMENT BARS, EPOXY COATED	POUND	14,920
RUSTICATION FINISH	SQ. FT.	53

REINFORCEMENT BAR BENDING DETAILS							
BAR	TYPE	SIZE	A	B	C	D	SHAPE
PT101(E)	TIE	#4	3'-3"	3'-8"	4 1/2"	-	
PT102(E)	TIE	#4	3'-3"	3'-9"	4 1/2"	-	
PT103(E)	TIE	#4	4'-1"	3'-8"	4 1/2"	-	
PT201(E)	TIE	#4	4'-6"	1'-5"	4 1/2"	-	



NOTES:

- Reinforcement Bars With Suffix (E) After Each Bar Callout Are Epoxy Coated.
- Quantities for Structure Excavation, Protective Coat, Geocomposite Wall Drain, Pipe Underdrain, 6" Granular Backfill, And Chain Link Fence, Special And Chain Link Gate Assembly, Special Are Included In The Bill Of Material For Individual Retaining Walls.
- See Sheets LTF2, LTF3, LTF4 And LTF5 For Details Of High Mast Light Tower - Retaining Wall Foundation, 7TEF1, 7TEF3, 7TAB2 And 7TAB3.
- See Sheets LTF6, LTF7 And LTF8 For Details Of High Mast Light Tower - Retaining Wall Foundation, 7TEF2. See Sheets LTF9, LTF10 And LTF11 For Details Of High Mast Light Tower - Knee Wall Foundation, 7SCD2.
- () Indicates Offset From S. Wentworth Ave. Or S. Wells St. Baselines To Center Of Drilled Shaft At Station Indicated.
- Bottom Of Temporary Steel Casing Shall Extend Two Feet (2'-0") Into Clay. The Contractor Shall Extend Temporary Casing Into Sufficiently Stable Soils To Prevent Caving Of Soils Into The Excavation. It Shall Be The Contractor's Responsibility To Prevent Caving Or Movement Of The Surrounding Soils And To Provide A Dry And Clean Shaft For Inspection And Placement Of Reinforcement And Concrete. When Casing Is To Be Removed During Concrete Placement, The Contractor Shall Exercise Extra Care To Prevent Any Earth From Coming In From The Sides And Mixing With The Concrete Or Reducing The Diameter Of The Drilled Shaft And To Ensure That The Concrete Will Be Pressed Tightly Against The Earth. Extreme Care Shall Be Used To Pull The Casing In A Truly Vertical Direction In Order To Prevent Any Movement Of The Reinforcement Steel And To Prevent Any Soil Materials Coming In From The Side Of The Shaft And Mixing With The Concrete.
- B/Drilled Shaft Elevations Shall Not Be Raised Or Lowered More Than 1'-0" Unless Approved By The Engineer.
- CS Bar Length Is Height Of Spiral.
- Weight Includes Four (4) #5 Spacer Bars For Each Spiral.
- Furnishing And Installing Backer Rod And Non-Staining Sealant Is Included With The Cost Of Concrete Superstructures.
- In Constructing The Drilled Shafts, The Contractor May Encounter Pavements, Fill, Foundations, Abandoned Utilities, Boulders And Other Obstructions. No Separate Payment Will Be Made For Removal Of Any Such Obstructions And The Cost For Removing Any Such Obstructions Shall Be Included In The Contract Unit Price For Drilled Shafts.
- For Anchor Rod Assembly, Ground Rod, And Raceway/Conduits, Location And Details See High Mast Light Tower Foundation Details In Roadway Lighting Plans. Costs Of Anchor Rod Assembly, Ground Rods, And Raceway/Conduits Shall Be Incidental To The Cost Per Foot For Drilled Shaft In Soil, 48 Inch Diameter, Furnishing And Placing. The Contractor Shall Spread 4 Raceways To Allow For A 1/2" Min. Spacing Between Them For A Full Concrete Embedment.
- Epoxy-coating Must Be Removed From Reinforcement Bars, Epoxy Coated Prior to Exothermic Welding The Grounding System. After Exothermic Welding Of Grounding System Connections To Epoxy-coated Reinforcement Bars All Damaged Areas Of Epoxy-coating Shall Be Repaired As Described In Article 508.05 Of The Standard Specifications.



REVISIONS	
NAME	DATE

SHEET LTF1 of 11
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
PEDESTAL AND DRILLED SHAFT SCHEDULE
WEST 63RD STREET TO WEST 59TH STREET
HIGH MAST LIGHT TOWER FOUNDATIONS
COOK COUNTY

SCALE: None
DATE: October 29, 2004
DRAWN BY: CD
CHECKED BY: ML

10/22/2004 08:30:00 PM