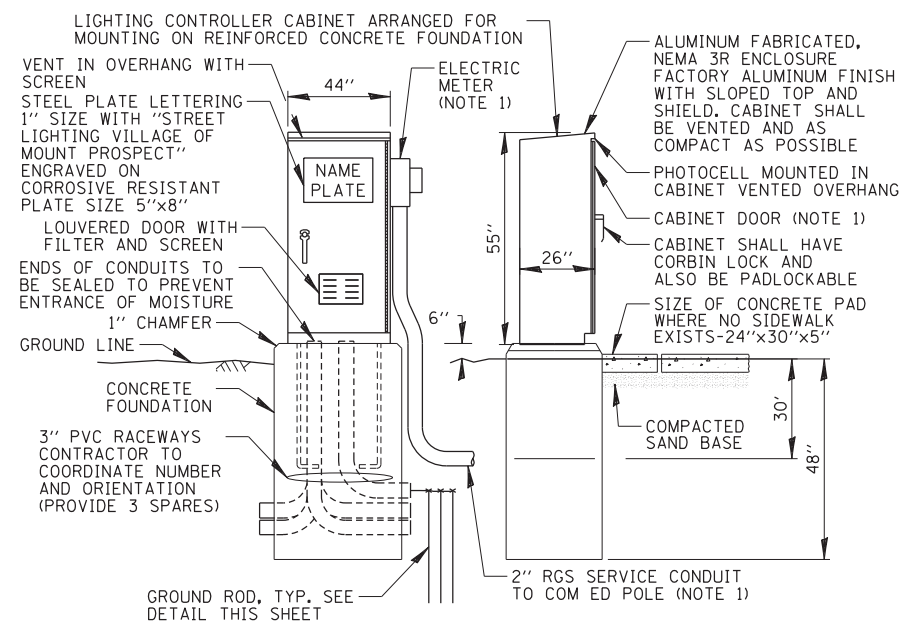


ITEM	SPECIFICATION
① MAIN CIRCUIT BREAKER (NOTE 2)	100 AMPERE, 2P, 240V RATING, 10KAIC, THERMAL MAGNETIC MOLDED CASE
② PHOTOCCELL	120V, MTD. ON CABINET, DELAY TYPE, SPST-NC
③ GROUND & NEUTRAL BUS	COPPER NEUTRAL BUS- MINIMUM 20 SPARE TERMINATIONS (#1/0-#10), & COPPER GROUND BUS - MINIMUM 12 SPARE TERMINATIONS (#1/0-#10). BUSSES SHALL BE HORIZONTAL LOCATED 4" FROM BASE OF CABINET
④ AUXILIARY RELAYS	(3) -30 AMPERE, 120 V OPERATED DPDT 60 HZ COIL, 2 NO & 2 NC CONTACTS PLUG-IN TYPE, PANEL MOUNTED
⑤ CABINET RECEPTACLE AND BOX	COMMERCIAL GRADE GFCI 20A/120V, MOUNTED IN A WEATHERPROOF DIE CAST ALUMINUM SINGLE GANG BOX WITH WEATHERPROOF FLAPPER TYPE COVER
⑥ CABINET LIGHT	5 WATT LED STRIP LIGHT, 60K HOUR RATING, 65K COLOR TEMPERATURE, DOOR SWITCH CONTROLLED, FASTENED TO TOP OF CABINET
⑦ LIGHTING CONTACTORS	(3) 30 AMPERE, 8 POLE, 120 VOLT COIL, MECH HELD, OPEN TYPE
⑧ LIGHTING PANELBOARD LP-1	120/240V-1Ø-100A MAIN LUG ONLY, 30 SPACE, 10KAIC, INTERIOR DEADFRONT ONLY WITHOUT ENCLOSURE, BOLT ON BREAKERS (SEE PANELBOARD SCHEDULE)
⑨ POWER DISTRIBUTION BLOCK	600 VOLT, INSULATED, SIZE AS REQUIRED
⑩ SERVICE CABLES	3-600V (XLP-TYPE USE) NO. 2 AWG
⑪ LAMPHOLDER/RECEPTACLE WIRE	600V MTW NO. 12, MARKED WITH BRADY MARKERS
⑫ CONTROL/PHOTOCCELL WIRE	600V MTW NO. 12, MARKED WITH BRADY MARKERS
⑬ SURGE ARRESTOR	36 K AMPERE RATING PER PHASE
⑭ BACKBOARD	1/2" THICK, SOLID PHENOLIC LAMINATE
⑮ DOOR SWITCH	20 AMPERE, 120 VOLT, MTD IN DOOR, SNAP ACTION TYPE, PLUNGER SWITCH
⑯ HAND-AUTO-OFF SWITCHES	(3) 20A, 3 POS. SELECTOR TYPE, MTD IN 3-GANG DIE CAST ALUM. BOX
⑰ PHOTOCCELL TERMINAL BLOCK	3 TERMINAL, SCREW TYPE, #14-#10 WIRE SIZE RANGE, REMOTE PHOTOCCELL
⑱ TERMINAL BLOCKS	30 AMPERE, 240V, 30 CKTS, #12-#1/0 AWG, INSULATED, CKTS LABELED, BLOCKS INSTALLED HORIZONTAL LOCATED 10" FROM BASE OF CABINET

- NOTES: 1. THE LIGHTING CONTROLLER TOGETHER WITH ALL OF ITS COMPONENTS SHALL BE UL LISTED AS AN "ENCLOSED INDUSTRIAL CONTROL PANEL" UNDER UL508A.
2. THE MAIN CIRCUIT BREAKER SHALL BE LABELED "SERVICE DISCONNECT".
3. ALL SWITCHES AND CONTROLS SHALL BE IDENTIFIED USING TWO COLOR ENGRAVED NAMEPLATES.
4. THE PANEL MANUFACTURER SHALL LABEL THE CABINET WITH THE APPROPRIATE ARC FLASH WARNING AND PERSONNEL PROTECTION EQUIPMENT REQUIRED FOR SERVICING.
5. ALL EXPOSED BUS BARS SHALL BE INSULATED.
6. ALL WIRING SHALL BE COPPER.

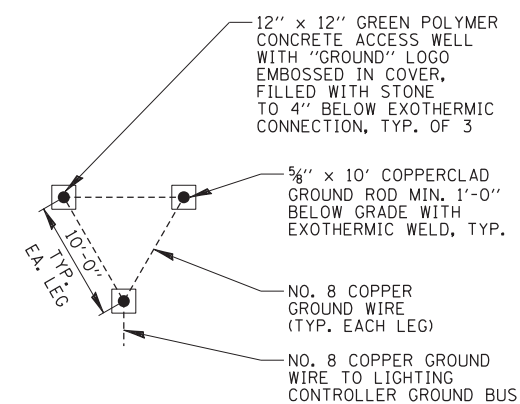
PROPOSED LIGHTING CONTROLLER COMPONENT SCHEDULE



- NOTES: 1. SEE DETAIL THIS SHEET FOR CABINET METER FITTING & DOOR ORIENTATION.

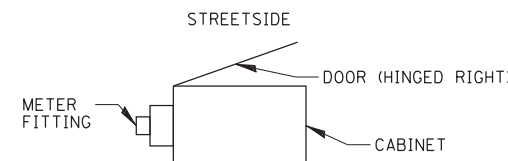
PROPOSED LIGHTING CONTROLLER CABINET AND FOUNDATION

N.T.S.



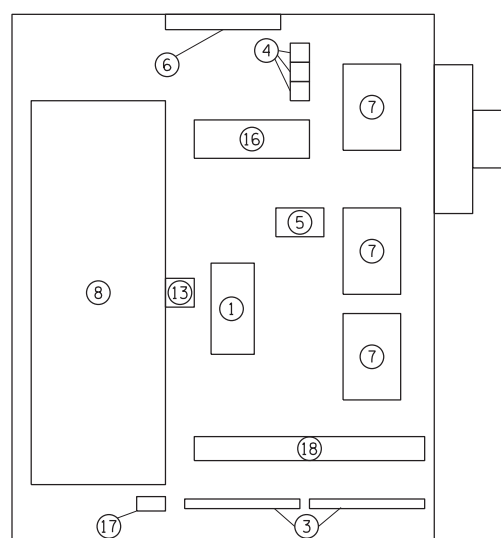
GROUND FIELD DETAIL (TYP.)

N.T.S.



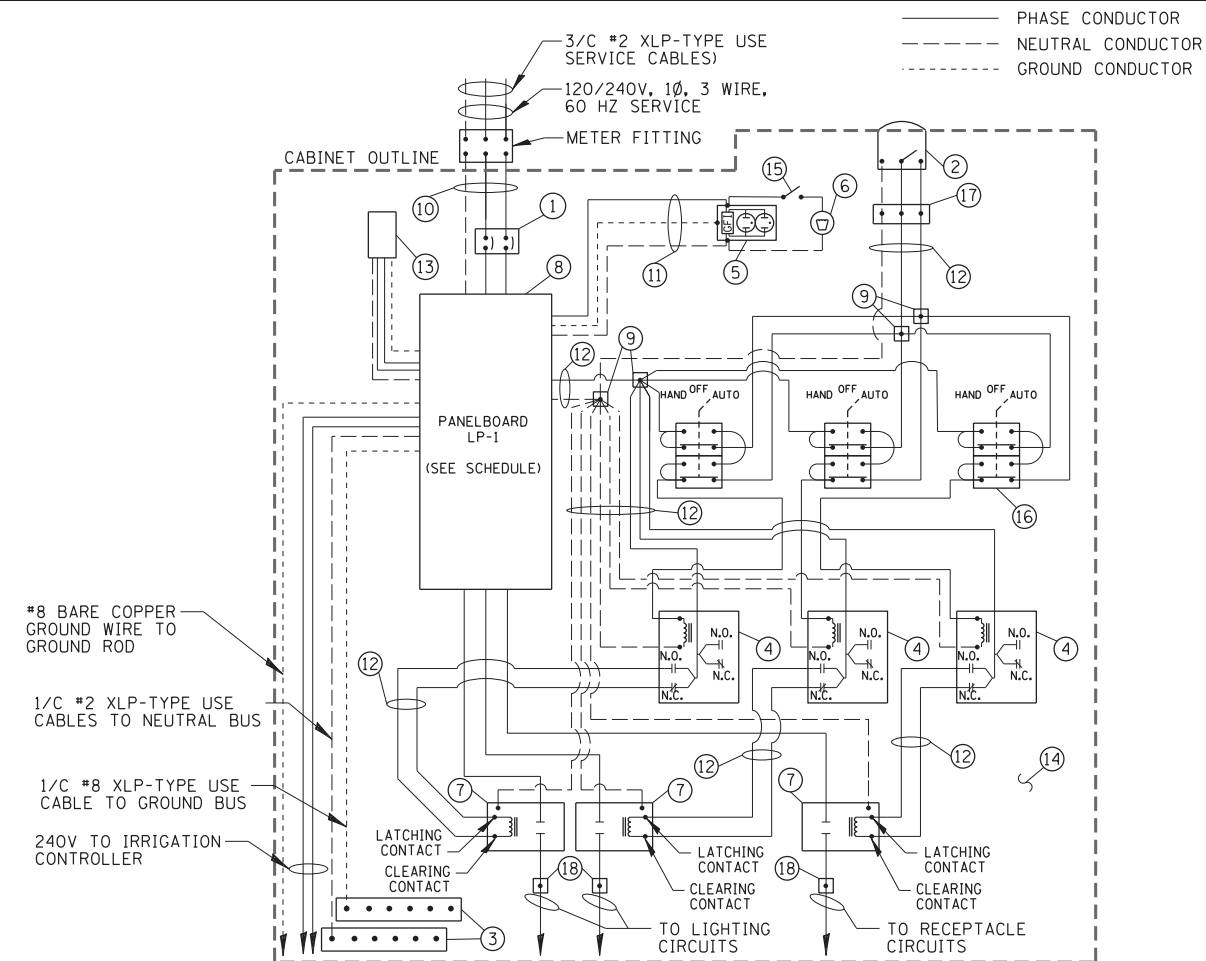
PROPOSED CABINET METER FITTING & DOOR ORIENTATION

N.T.S.



PROPOSED CABINET EQUIPMENT LAYOUT

N.T.S.



PROPOSED LIGHTING CONTROLLER WIRING DIAGRAM

N.T.S.

PANELBOARD SCHEDULE LP-1											
FED FROM: MAIN BREAKER						TOT. 'A' PHASE: 7625 VA					
VOLTAGE: 120/240V, 1 PH, 3W						TOT. 'B' PHASE: 7545 VA					
BUS SIZE: 100A-COPPER						MAINS: MAIN LUG ONLY					
SPACES: 30						TOTAL 'A' + 'B': 15170 VA					
SHORT CKT RATING: 10KAIC						TOTAL AMPS: 63.2 A					
BONDING JUMPER: YES						MOUNTING: SURFACE					
WIRE COLORS	CKT #	CB/ POLES	DESCRIPTION	A PH VA	B PH VA	A PH VA	B PH VA	DESCRIPTION	CB/ POLES	CKT #	WIRE COLORS
B	1	20A-2P	NW RAND LIGHTING (A)	1080		1080		NW RAND LIGHTING (B)	20A-2P	2	R
B	3				1080		1080			4	R
B	5	20A-2P	SE RAND LIGHTING (C)	540		540		SE RAND LIGHTING (D)	20A-2P	6	R
B	7				540		540			8	R
B	9	20A-2P	CENTRAL LIGHTING (E)	450		450		CENTRAL LIGHTING (F)	20A-2P	10	R
B	11				450		450			12	R
B	13	20A-2P	FLOOD LIGHTS	285		0		SPARE	20A-2P	14	BL
B	15				285		0			16	OR
BL	17	20A-2P	NW RAND RECPT (G)	1440		720		NW RAND RECPTS (I)	20A-2P	18	BL
OR	19				1440		720			20	OR
BL	21	20A-2P	CENTRAL RECPT (K)	600		0		SPARE	20A-2P	22	BL
OR	23				720		0			24	OR
B	25	20A-2P	SURGE ARESTOR	50		100		IRRIGATION CONTROLLER	20A-2P	26	R
B	27				50		100			28	R
B	29	20A-1P	CABINET LIGHT/RECPT.	180		20		CONTROLS	20A-1P	30	R
SUBTOTALS:				4625	4565	3000	2980				

- NOTES: 1. ALL CIRCUIT BREAKERS SHALL BE BOLT ON TYPE
2. BRANCH CIRCUIT WIRING COLORS: (B) BLACK, (R) RED, (BL) BLUE, (OR) ORANGE, (W) WHITE & (G) GREEN

PROPOSED PANELBOARD LP-1 SCHEDULE

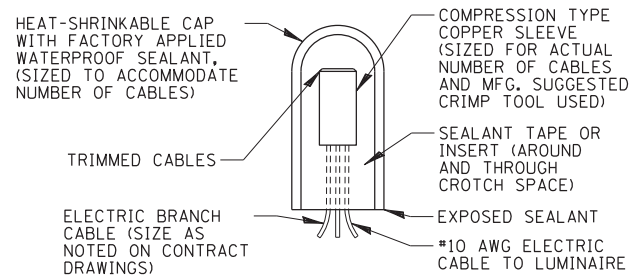
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	PLOT DATE = 3/10/2022	DATE 3/10/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAND RD. - CENTRAL RD. - MOUNT PROSPECT RD. IMPROVEMENTS
LIGHTING DETAILS (1 OF 10)

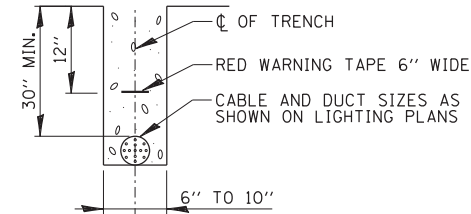
SCALE: N.T.S. SHEET 1 OF 10 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	17-00166-00-CH	COOK	264	205
CONTRACT NO. 61H44			ILLINOIS FED. AID PROJECT	

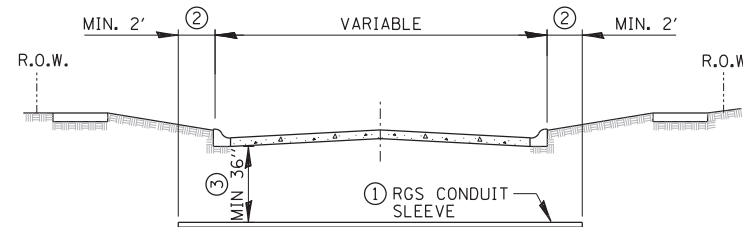


SPlicing ELECTRIC CABLE

N.T.S.



TRENCH CROSS SECTION

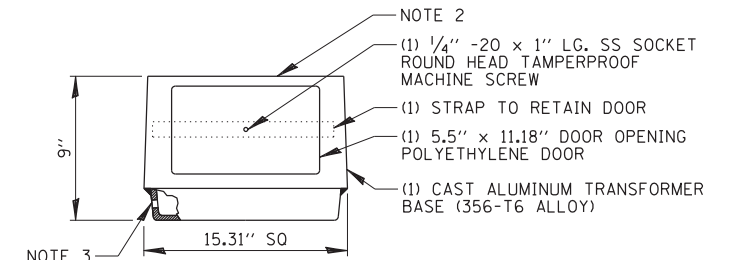


ROADWAY CROSSING

- ① SLEEVE SHALL BE HEAVY WALL RIGID GALVANIZED STEEL (RGS) CONDUIT.
- ② SLEEVE SHALL EXTEND A MINIMUM OF 2 FT. BEYOND BACK OF CURB.
- ③ SLEEVE SHALL BE A MINIMUM OF 36" BELOW ROADWAY OR CURB BOTTOM.

ELECTRIC CONDUIT INSTALLATION

N.T.S.

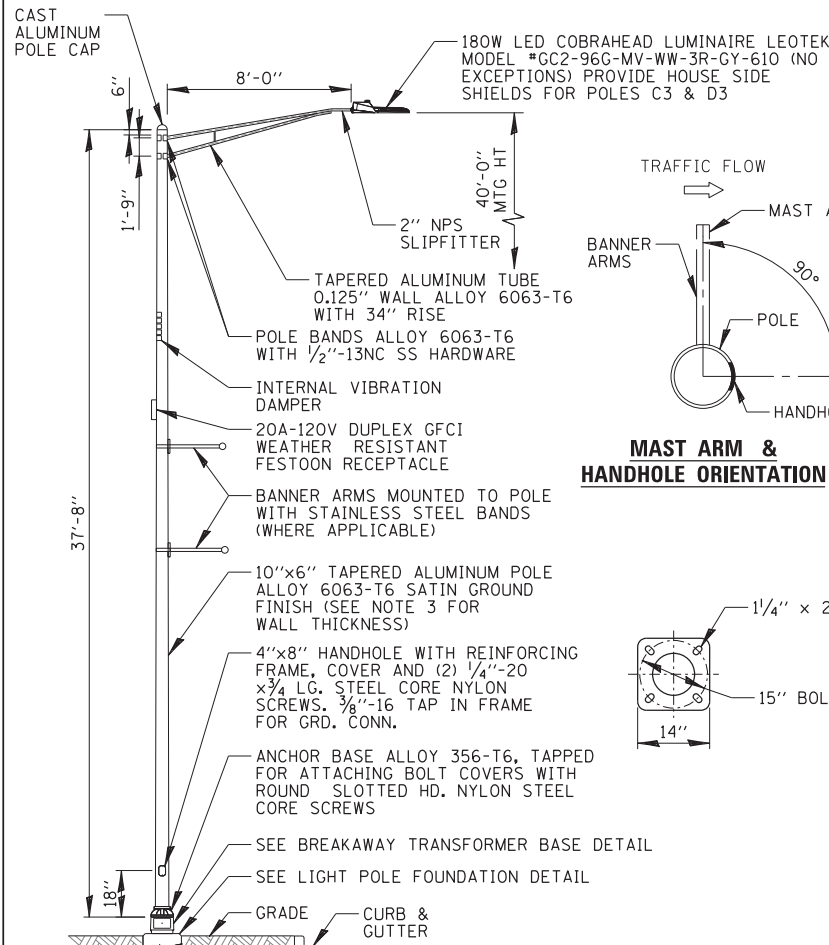


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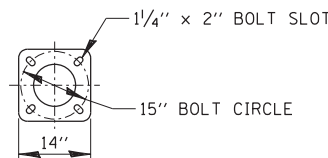
1. BEFORE INSTALLATION OF BREAKAWAY BASE, USER SHOULD CONSULT WITH AUTHORIZED DISTRIBUTOR REGARDING USERS PROPOSED APPLICATION, LOAD REQUIREMENTS AND INSTALLATION METHODS. FAILURES CAN RESULT FROM USERS MISAPPLICATION OR IMPROPER INSTALLATION. TO APPROACH OPTIMUM STATIC LOADS, USE THE LARGEST POSSIBLE BOLT CIRCLES. SHIMS SHALL NOT BE ALLOWED.
2. TOP BOLT CIRCLE SHALL BE 14.5" MIN. AND 15" MAX. BOTTOM BOLT CIRCLE SHALL BE 14.5" MIN. AND 16.25" MAX.
3. DRILLED AND TAPPED 1/2"-13 UNC HOLE FOR GROUND CONNECTOR.
4. PAID FOR UNDER "BREAKAWAY DEVICE, TRANSFORMER BASE, 15" BOLT CIRCLE".

BREAKAWAY TRANSFORMER BASE

N.T.S.



MAST ARM & HANDHOLE ORIENTATION

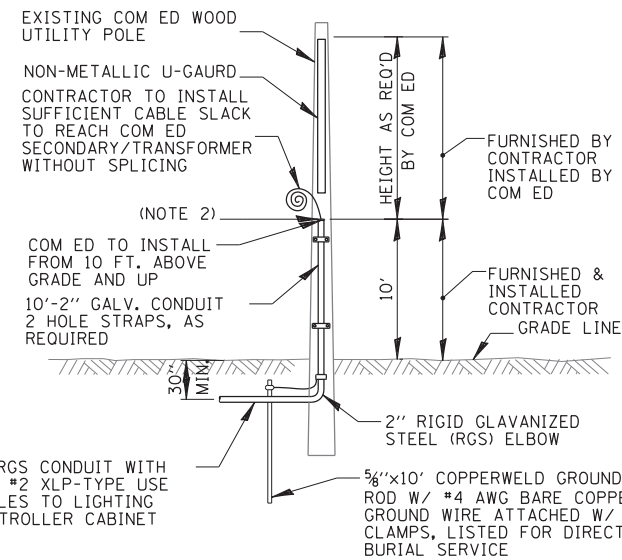


NOTES:

1. LIGHT POLES SHALL MEET WIND LOADING & VIBRATION REQUIREMENTS ACCORDING TO THE LATEST AASHTO STANDARDS AND ARTICLE 1069.01 IN STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. POLE HANDHOLE SHALL FACE AWAY FROM TRAFFIC.
3. ALL LIGHT POLES EXCEPT "F5" SHALL HAVE 0.250" WALL THICKNESS AND WILL BE PAID FOR UNDER "LIGHT POLE, ALUMINUM, 40 FT. M.H., 8 FT MAST ARM". LIGHT POLE F5 SHALL HAVE 0.319" WALL THICKNESS AND WILL BE PAID FOR UNDER "LIGHT POLE, SPECIAL".
4. LUMINAIRE PAID FOR UNDER "LUMINAIRE, LED, SPECIAL".
5. POLE SHALL BE RATED FOR BANNER ARMS, BANNER ARMS SHALL NOT BE INSTALLED, THEY SHALL BE DELIVERED TO MOUNT PROSPECT PUBLIC WORKS.

LIGHTING UNIT COMPLETE, SPECIAL

N.T.S.



NOTES:

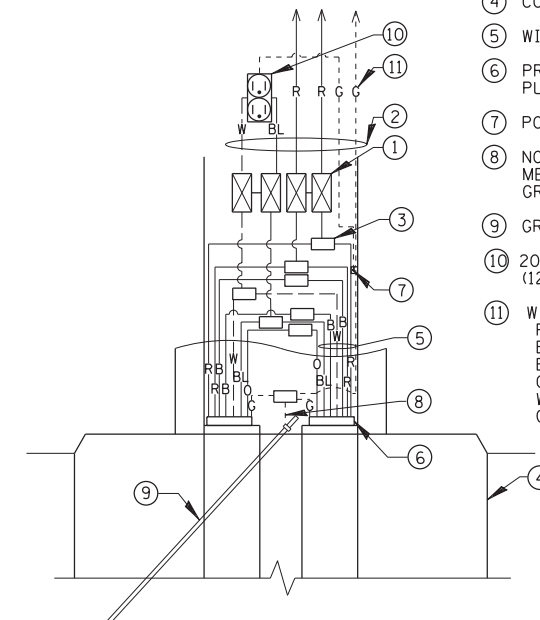
1. ALL WORK SHALL CONFORM TO COM ED'S BOOK OF "INFORMATION AND REQUIREMENTS FOR THE SUPPLY OF ELECTRIC SERVICE."
2. CONTRACTOR SHALL PROVIDE CONDUIT BUSHING AND SEALING COMPOUND AT TOP OF RISER.
3. ALL MATERIAL ABOVE (EXCEPT FOR POLE) SHALL BE INCLUDED IN THE PRICE BID FOR "ELECTRIC SERVICE INSTALLATION". THE HORIZONTAL SERVICE CONDUIT AND WIRING FROM POLE TO CONTROLLER SHALL BE PAID FOR SEPARATELY.

COM ED OVERHEAD CONNECTION POLE

N.T.S.



TO 240V ROADWAY LUMINAIRE



- ① 5A FUSE FOR LUMINAIRE AND 2A FUSE FOR FESTOON RECEPTACLE (NEUTRAL SHALL BE NON-FUSED) 2-POLE BREAKAWAY FUSE HOLDER & INSULATING BOOTS
- ② #10 XLP-TYPE USE POLE WIRES COLOR TO MATCH BRANCH WIRING
- ③ MULTIPLE COMPRESSION FITTINGS (SPlice), TYP.
- ④ CONCRETE FOUNDATION
- ⑤ WIRES AS SHOWN ON PLANS
- ⑥ PROPOSED LIGHTING DUCT PULLED THROUGH PVC RACEWAY
- ⑦ POLE GROUND LUG
- ⑧ NO. 6 GROUND WIRE MECHANICALLY CLAMPED TO GROUND ROD
- ⑨ GROUND ROD
- ⑩ 20A-120V GFCI "WR" RECEPTACLE (120W MAX LOAD)
- ⑪ WIRE COLOR
R=RED
B=BLACK
BL=BLUE
O=ORANGE
W=WHITE
G=GREEN

POLE HANDHOLE WIRING DIAGRAM

N.T.S.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

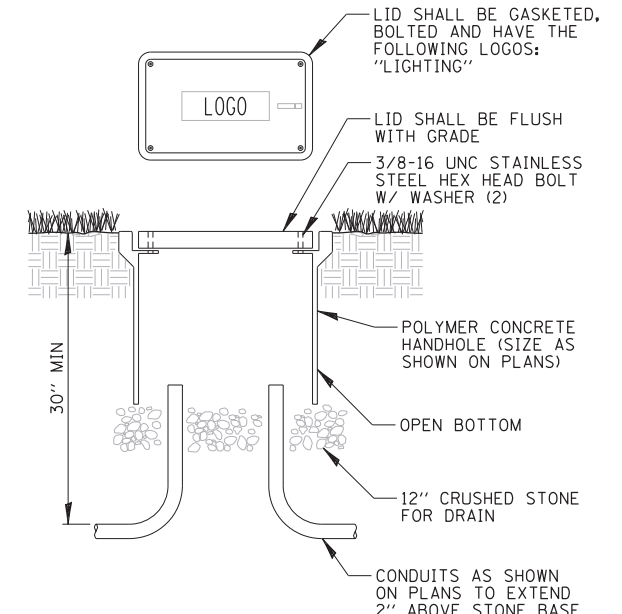
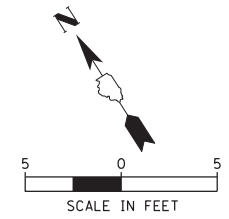
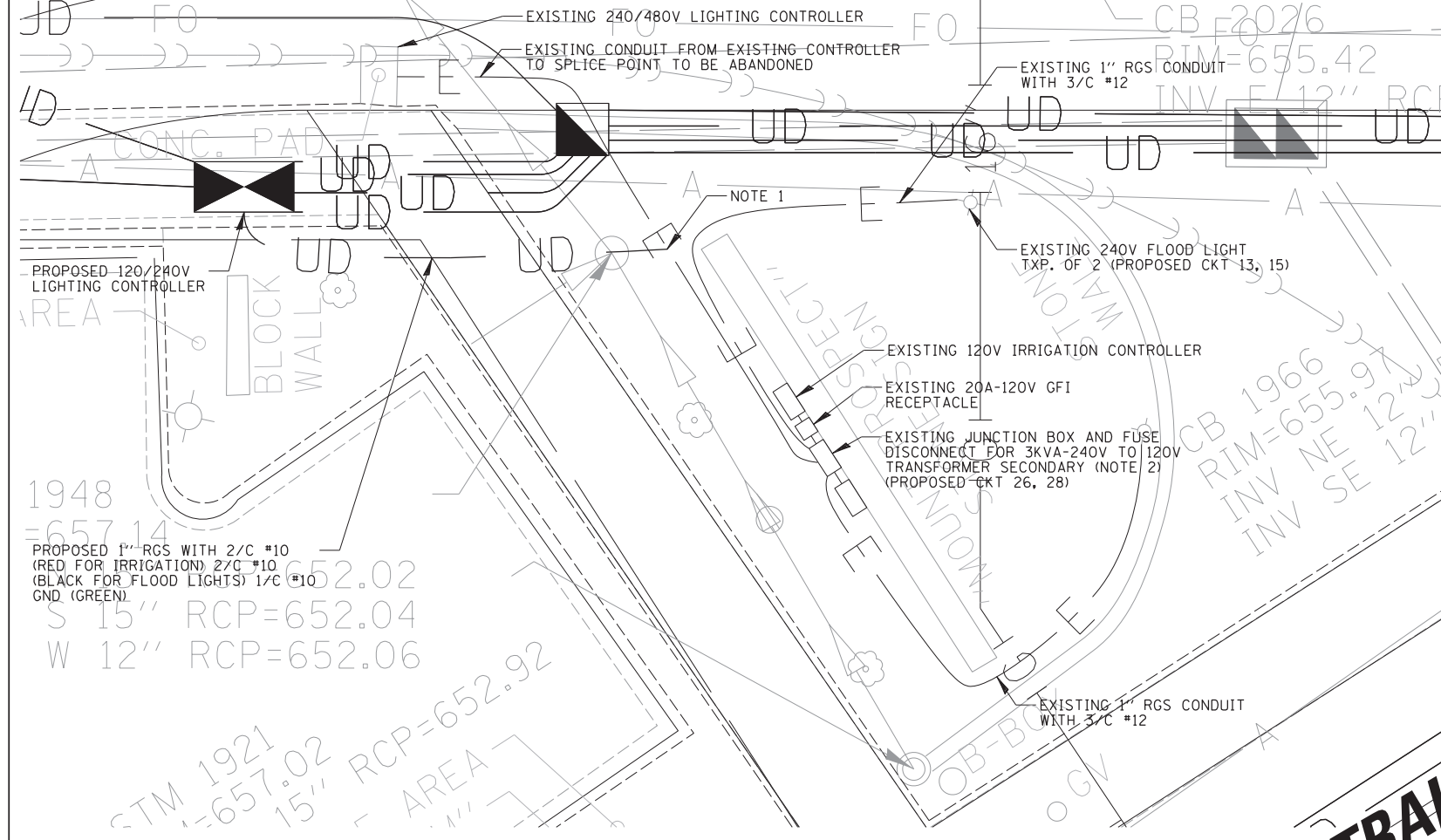
RAND RD. - CENTRAL RD. - MOUNT PROSPECT RD. IMPROVEMENTS
LIGHTING DETAILS (2 OF 10)

SCALE: N.T.S. SHEET 2 OF 10 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	17-00166-00-CH	COOK	264	206
CONTRACT NO. 61H44			ILLINOIS FED. AID PROJECT	

P=649.45
 RCP=644.30
 :650.44

RAND ROAD



- NOTES:
- INTERCEPT EXISTING CONDUIT AND REMOVE EXISTING 2/C #10, 2/C #12 & 1/C #10 GND WIRES FROM CONDUIT. ATTACH TO PROPOSED CONDUIT WITH RATED COUPLER. RECONNECT EXISTING IRRIGATION AND FLOOD LIGHTS TO SAME CIRCUITS AS EXISTING.
 - PHASE TAPE EXISTING WHITE WIRES IN JUNCTION BOX TO REPRESENT PHASE WIRES. TAPE SHALL MATCH CORRESPONDING PHASE COLOR.
 - ALL WORK SHOWN ON THIS PAGE SHALL BE PAID FOR UNDER "MISCELLANEOUS ELECTRICAL WORK".

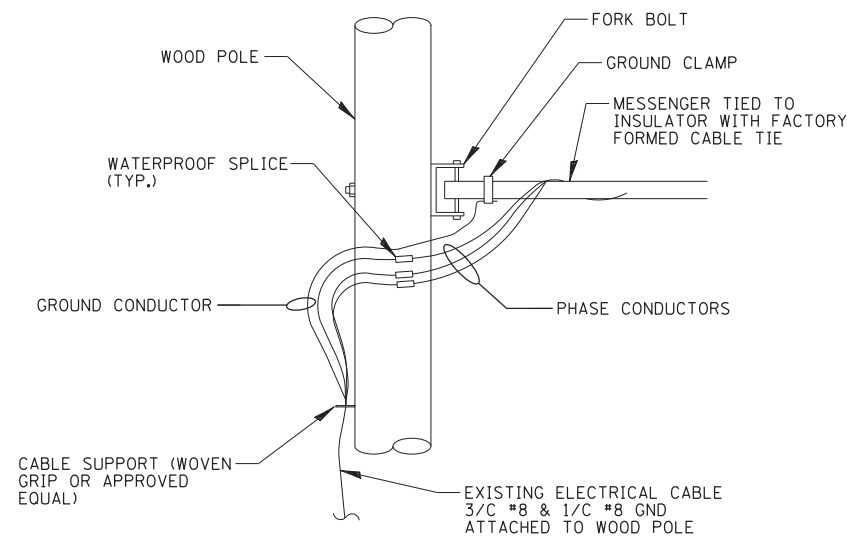
- NOTES:
- NO SPLICING ALLOWED IN HANDHOLE.
 - POLYMER CONCRETE HANDHOLE AND LID SHALL BE GREY.
 - BOX & LID SHALL MEET/EXCEED ANSI TIER 15 LOADING REQUIREMENTS, AND BE TESTED IN ACCORDANCE WITH THE LATEST EDITION OF THE ANSI/SCTE 77 "SPECIFICATION FOR UNDERGROUND ENCLOSURE INTEGRITY", AND THE PROVISIONS OF PARAGRAPHS 5.2.3 AND 5.2.4 OF WESTERN UNDERGROUND COMMITTEE GUIDE 3.6.

FLOOD LIGHTING /IRRIGATION CONTROLLER WIRING PLAN

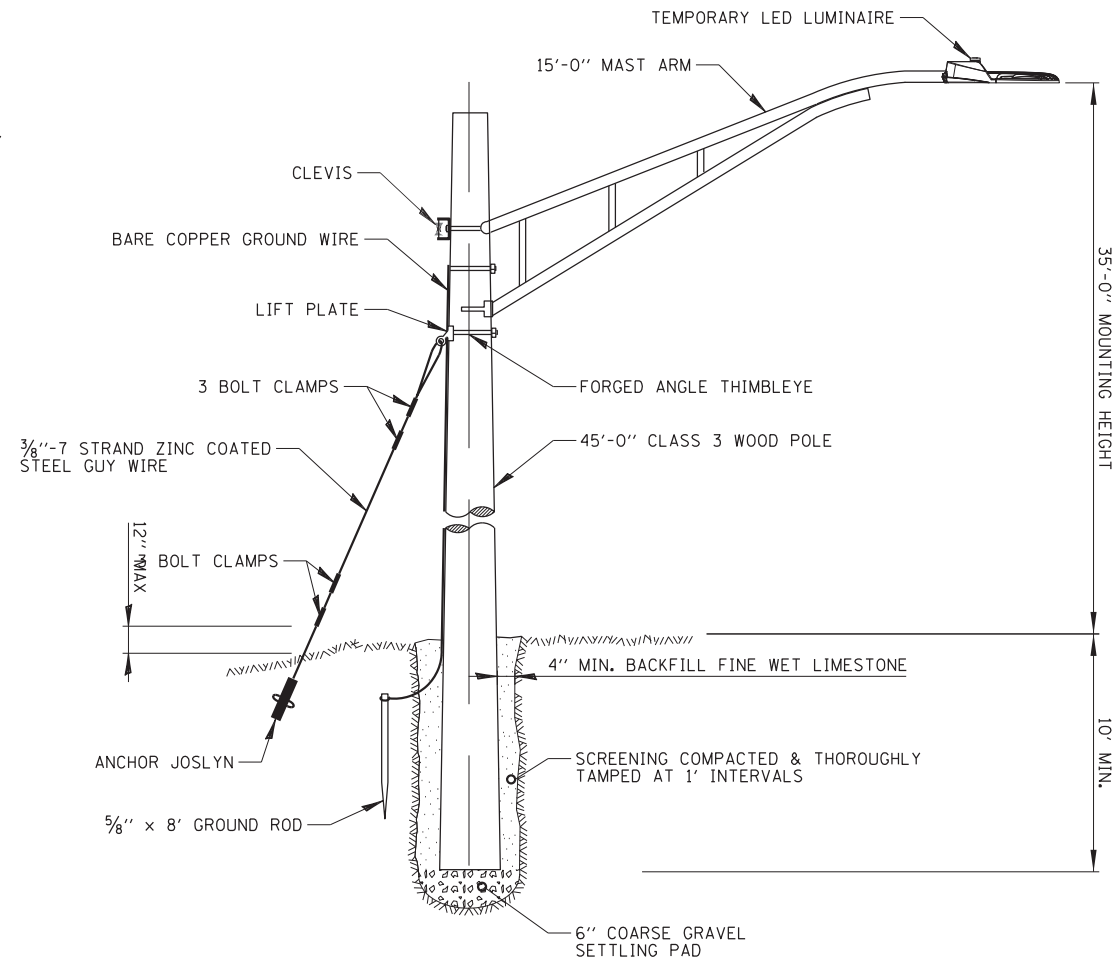
POLYMER CONCRETE HANDHOLE

N.T.S.

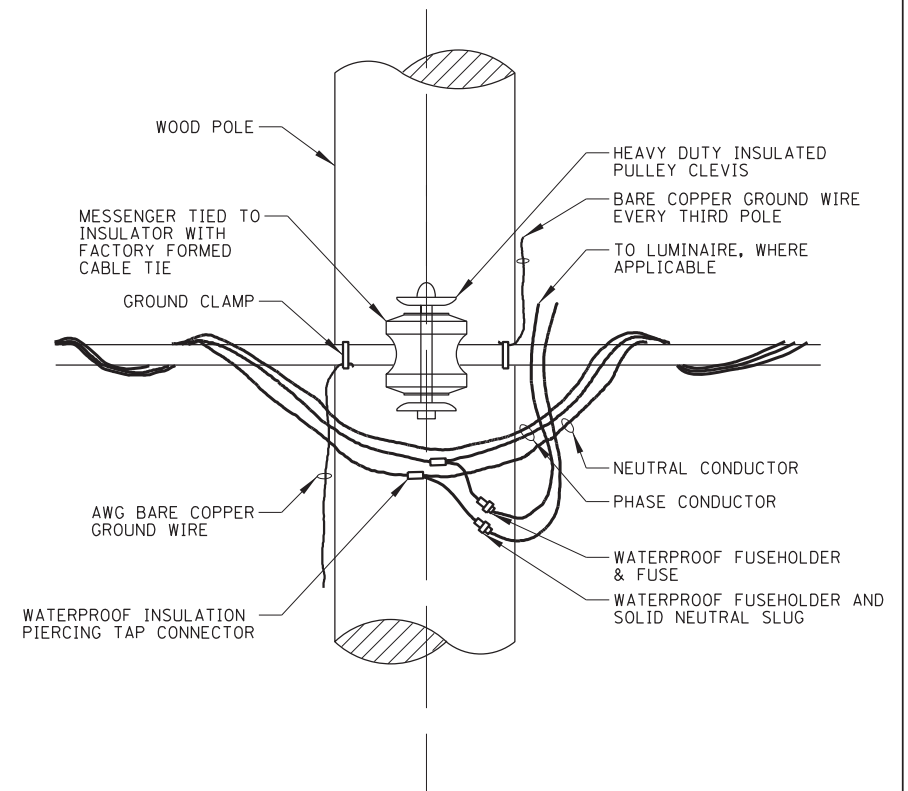
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				SCALE: N.T.S.		SHEET 3 OF 10 SHEETS		STA. TO STA.				



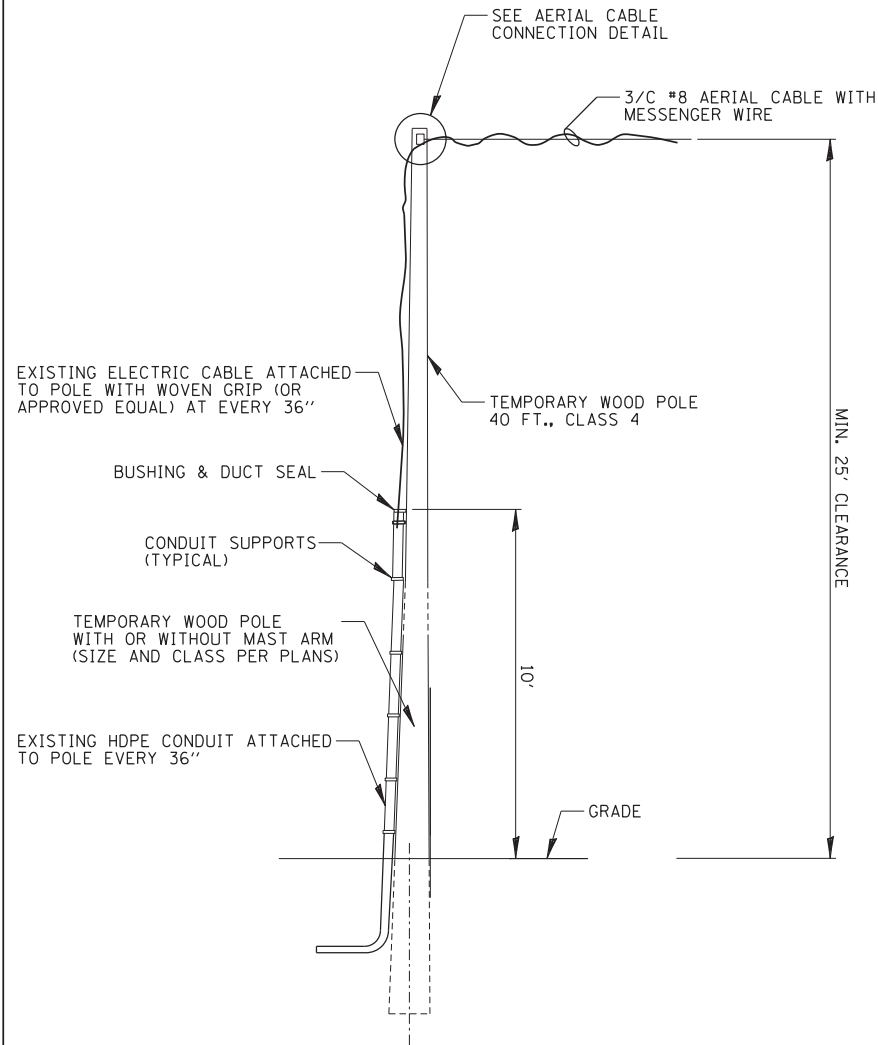
AERIAL CABLE CONNECTION DETAIL
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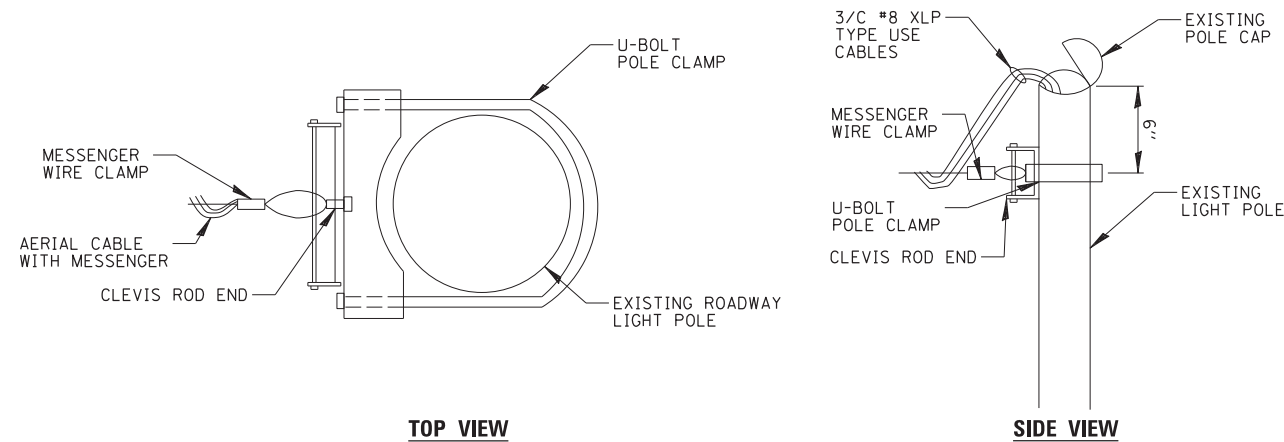
TEMPORARY LIGHT POLE DETAIL
N.T.S.



TEMPORARY LIGHT POLE ATTACHMENT DETAIL
N.T.S.



WOOD POLE WIRING CONNECTION DETAIL
N.T.S.



TOP VIEW

SIDE VIEW

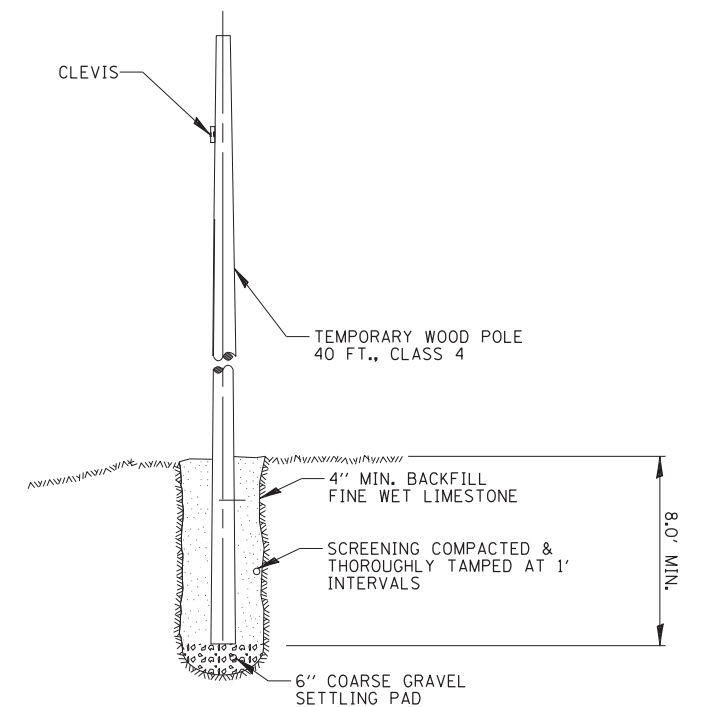
NOTES:

1. USE THIS DETAIL FOR TEMPORARY AERIAL CABLE CONNECTION TO EXISTING ALUMINUM POLE.

EXISTING POLE AERIAL CABLE ATTACHMENT
N.T.S.

NOTES:

1. UNDER DIRECTION OF THE ENGINEER THE CONTRACTOR SHALL INSTALL TEMPORARY WOOD POLES WITH AERIAL CABLES IN AREAS WHERE DAMAGE TO THE EXISTING LIGHTING CONDUIT / CABLES FROM DIRECTIONAL BORING IS UNAVOIDABLE.
2. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
3. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.



TEMPORARY WOOD POLE DETAIL
N.T.S.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAND RD. - CENTRAL RD. - MOUNT PROSPECT RD. IMPROVEMENTS
LIGHTING DETAILS (4 OF 10)

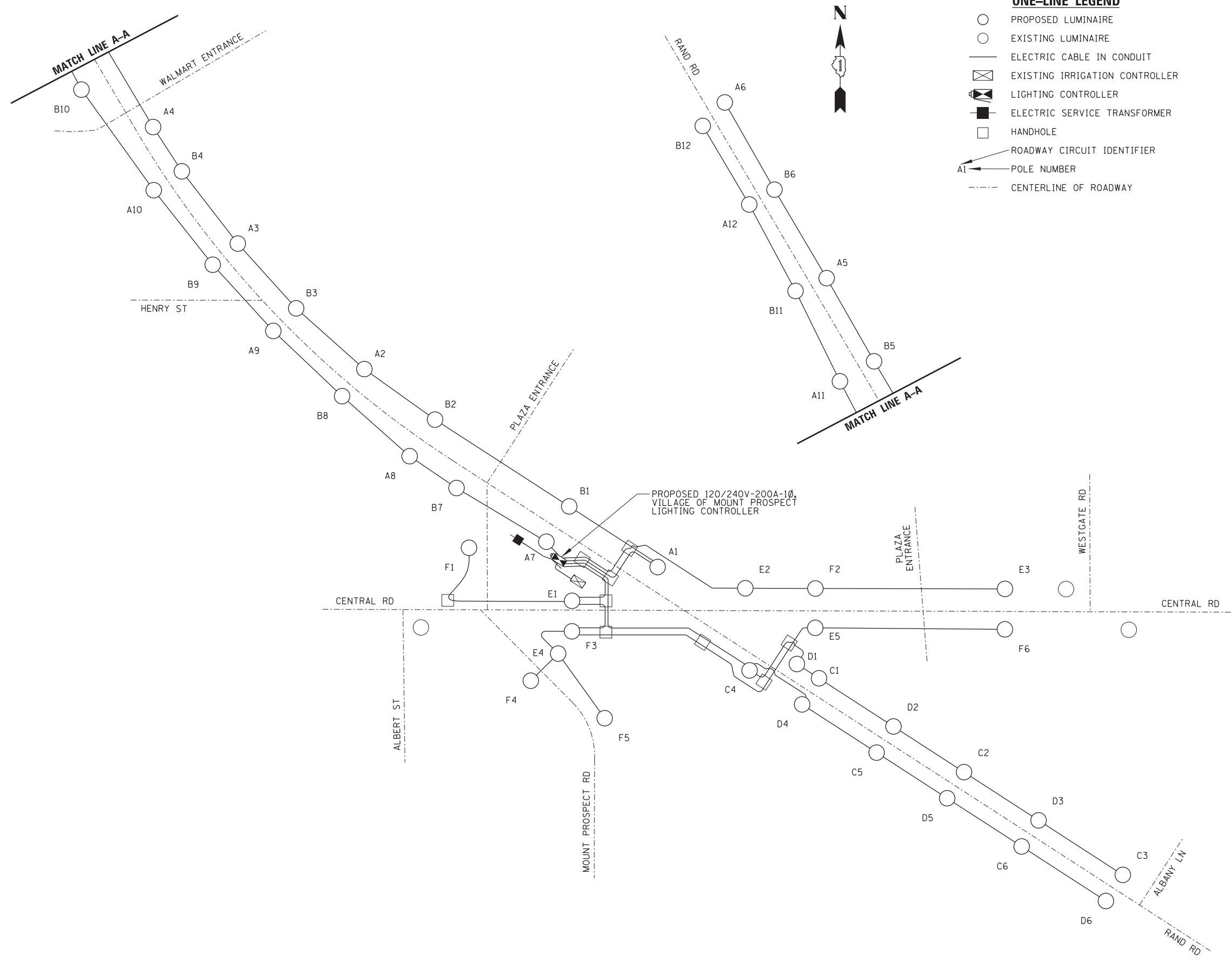
SCALE: N.T.S. SHEET 4 OF 10 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	17-00166-00-CH	COOK	264	208
CONTRACT NO. 61H44			ILLINOIS FED. AID PROJECT	

LIGHT POLE IDENTIFIER	LUMINAIRE CKT	FESTOON CKT	LOCATION	
			STATION	OFFSET
A1	A	G	250+10	4.0' F. O. C.
A2	A	G	242+90	3.0' F. O. C.
A3	A	G	239+00	4.0' F. O. C.
A4	A	G	236+10	6.0' F. O. C.
A5	A	G	231+13	5.0' F. O. C.
A6	A	G	226+78	3.0' F. O. C.
A7	A	G	248+60	4.0' F. O. C.
A8	A	G	244+80	3.0' F. O. C.
A9	A	G	240+90	3.0' F. O. C.
A10	A	G	237+00	3.0' F. O. C.
A11	A	G	233+18	3.0' F. O. C.
A12	A	G	228+93	3.0' F. O. C.
B1	B	H	248+60	8.0' F. O. C.
B2	B	H	244+80	6.0' F. O. C.
B3	B	H	240+90	3.0' F. O. C.
B4	B	H	237+00	6.0' F. O. C.
B5	B	H	233+18	3.0' F. O. C.
B6	B	H	228+93	3.0' F. O. C.
B7	B	H	246+00	3.0' F. O. C.
B8	B	H	242+90	3.0' F. O. C.
B9	B	H	239+00	3.0' F. O. C.
B10	B	H	234+38	7.7' F. O. C.
B11	B	H	231+03	3.0' F. O. C.
B12	B	H	226+98	3.0' F. O. C.
C1	C	I	254+73	6.0' F. O. C.
C2	C	I	258+43	6.8' F. O. C.
C3	C	I	262+47	3.0' F. O. C.
C4	C	I	253+71	4.0' F. O. C.
C5	C	I	256+63	3.5' F. O. C.
C6	C	I	260+33	3.0' F. O. C.
D1	D	J	253+82	7.9' F. O. C.
D2	D	J	256+63	6.0' F. O. C.
D3	D	J	260+33	6.0' F. O. C.
D4	D	J	254+73	3.0' F. O. C.
D5	D	J	258+43	5.0' F. O. C.
D6	D	J	262+47	3.0' F. O. C.
E1	E	K	168+60	3.0' F. O. C.
E2	E	K	172+31	3.0' F. O. C.
E3	E	K	177+87	5.0' F. O. C.
E4	E	K	29+16	6.0' F. O. C.
E5	E	K	173+81	3.0' F. O. C.
F1	F	L	51+33	8.0' F. O. C.
F2	F	L	173+81	3.0' F. O. C.
F3	F	L	168+60	3.0' F. O. C.
F4	F	L	29+16	6.0' F. O. C.
F5	F	L	27+51	6.0' F. O. C.
F6	F	L	177+87	6.0' F. O. C.

F.O.C. - FACE OF CURB

LUMINAIRE AND POLE SCHEDULE



LIGHTING ONE-LINE DIAGRAM

N.T.S.

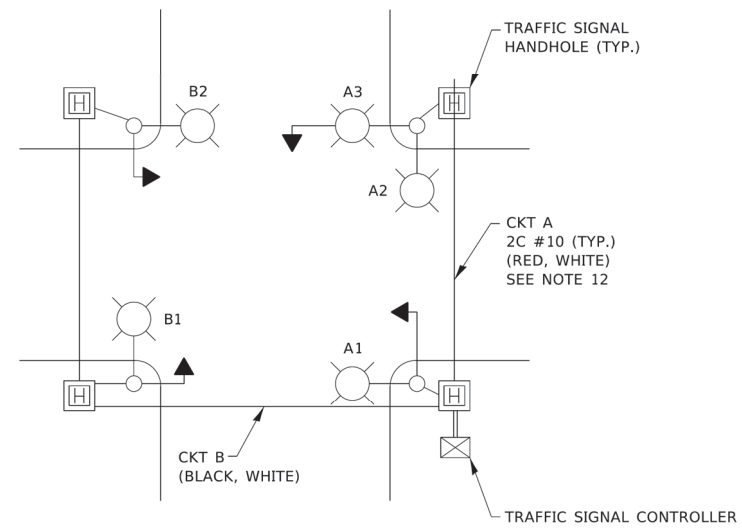
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	PLOT DATE = 3/10/2022	DATE 3/10/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

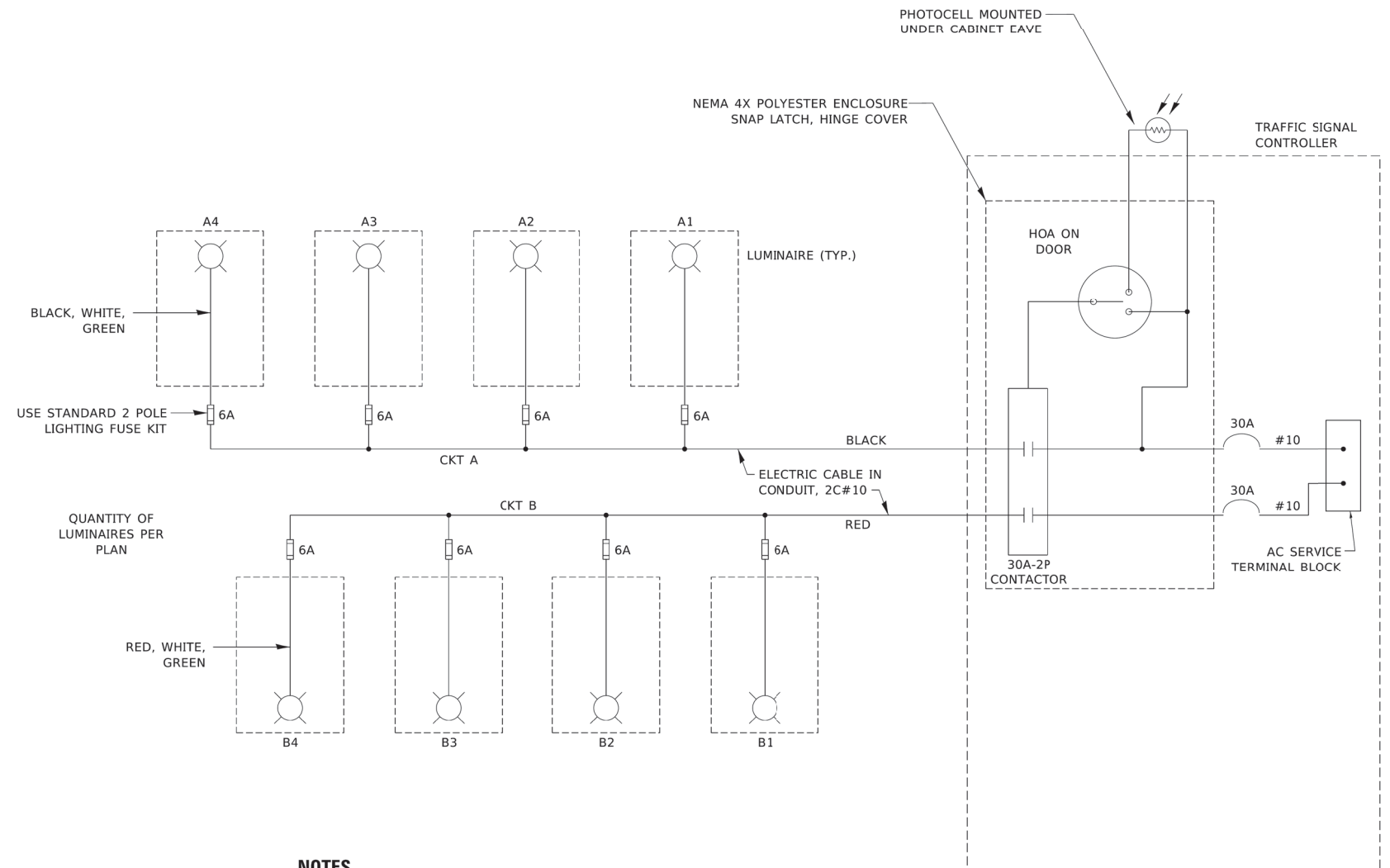
RAND RD.- CENTRAL RD.- MOUNT PROSPECT RD. IMPROVEMENTS
LIGHTING DETAILS (5 OF 10)

SCALE: N.T.S. SHEET 5 OF 10 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	17-00166-00-CH	COOK	264	209
CONTRACT NO. 61H44			ILLINOIS FED. AID PROJECT	

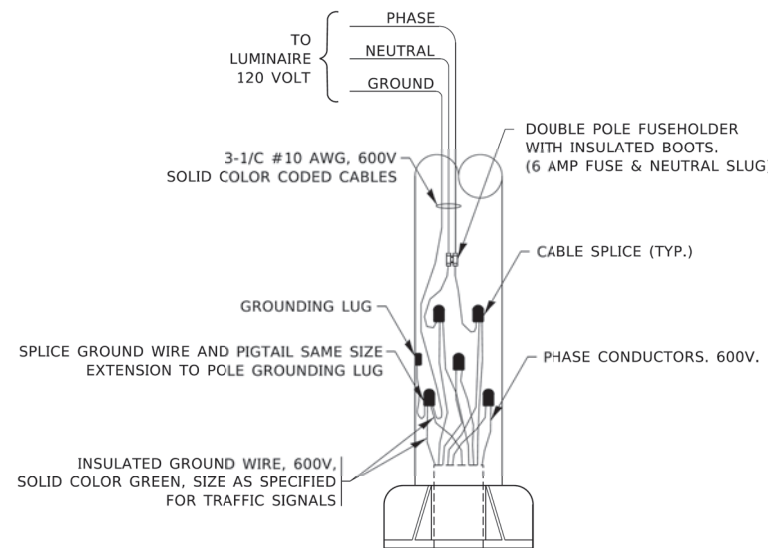


TYPICAL LIGHTING CIRCUIT
(NOT TO SCALE)



NOTES

1. 4 LUMINAIRES PER CIRCUIT, MAXIMUM.
2. TWO #10 (XLP-TYPE USE) CABLES TO BE USED FOR LIGHTING CIRCUITS.
3. ROUTE LIGHTING CIRCUITS IN TRAFFIC SIGNAL CONDUIT SYSTEM.
4. ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY.
5. FOR LIGHTING CIRCUITS, CONNECT TWO CIRCUIT BREAKERS TO AC SERVICE TERMINAL BLOCK.
6. ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED. (UNDERGROUND SPLICING OF LIGHTING CONDUCTORS IS NOT PERMITTED).
7. THE H.O.A. SWITCH SHALL BE LABELED AS "LIGHTING CONTROL" WITH THE POSITIONS "AUTO", "OFF" AND "TEST" WITH ENGRAVED NAME PLATES.
8. LIGHTING CONNECTED TO UPS BYPASS CIRCUIT.
9. COMBINATION LIGHTING MUST BE INSTALLED PRIOR TO SIGNAL TURN ON.
10. LUMINAIRE VOLTAGE SHALL BE 120V
11. POLE WIRING & FUSE KITS ARE INCLUDED IN THE LUMINAIRE PAY ITEM.
12. THE UNDERGROUND EQUIPMENT GROUND WIRE IS SHOWN IN THE TRAFFIC SIGNAL PLANS AND IS INCLUDED IN THE SIGNAL PLANS. IT IS SHARED GROUND BETWEEN SIGNALS AND LIGHTING.



COMBINATION POLE WIRING DETAIL
(NOT TO SCALE)

IDOT STANDARD BE-240
(REVISED 8/3/2021)

FILE NAME =	USER NAME = rhowellindgren	DESIGNED AJD	REVISED -
N:\MOUNTPROSPECT\200015\Mech\LOT_200015_06.sht		DRAWN RJJ	REVISED -
Default	PLOT SCALE = N.T.S.	CHECKED AJD	REVISED -
	PLOT DATE = 3/10/2022	DATE 3/10/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

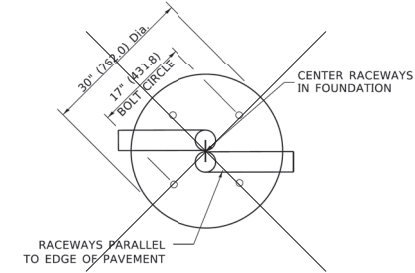
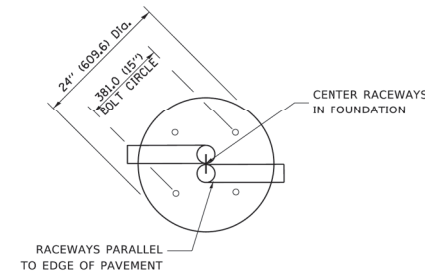
RAND RD. - CENTRAL RD. - MOUNT PROSPECT RD. IMPROVEMENTS
LIGHTING DETAILS (6 OF 10)

SCALE: N.T.S. SHEET 6 OF 10 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	17-00166-00-CH	COOK	264	210
CONTRACT NO. 61H44			ILLINOIS FED. AID PROJECT	

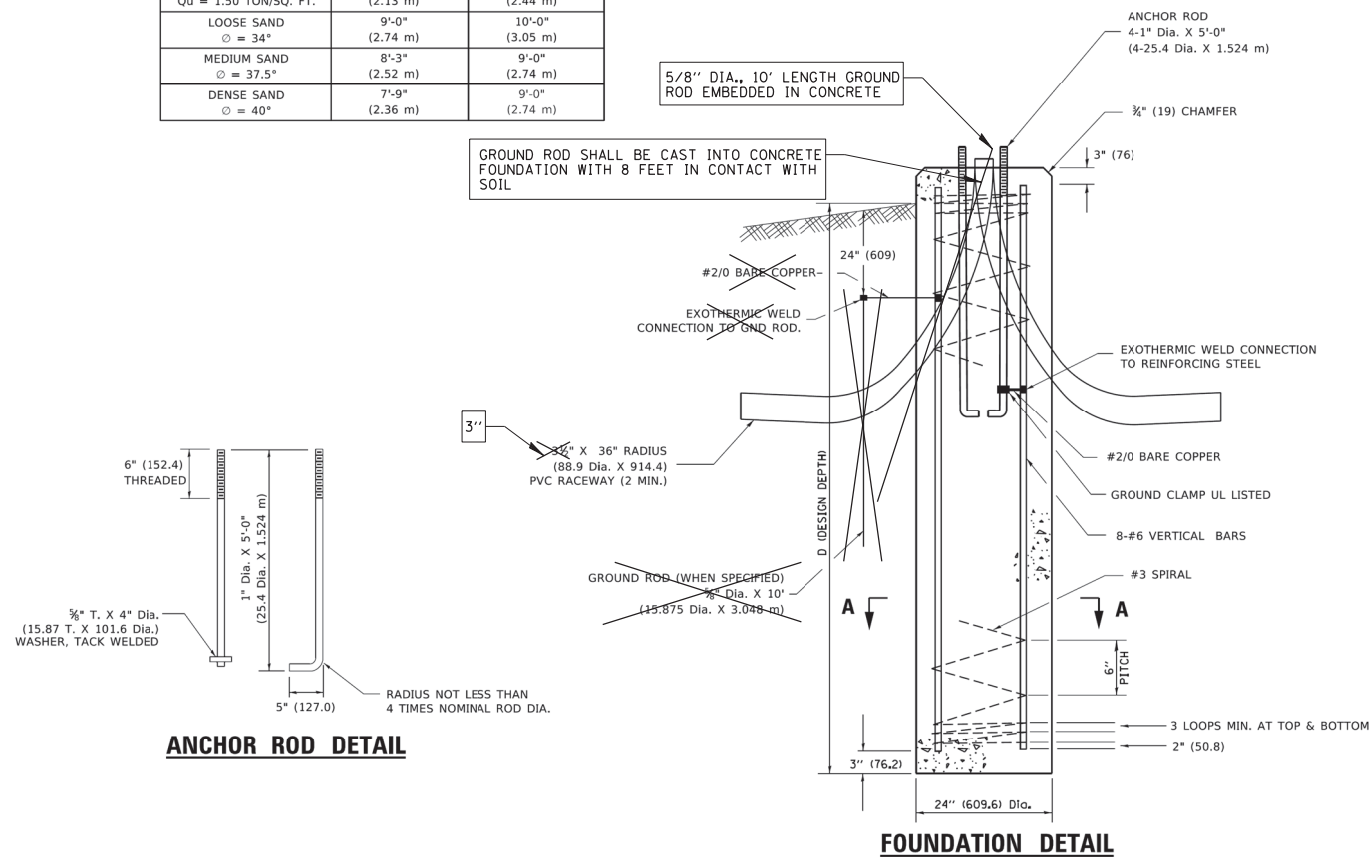
LIGHT POLE FOUNDATION DEPTH TABLE
40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SQ. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY Qu = 0.75 TON/SQ. FT.	9'-6" (2.89 m)	10'-9" (3.23 m)
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-0" (2.13 m)	8'-0" (2.44 m)
LOOSE SAND φ = 34°	9'-0" (2.74 m)	10'-0" (3.05 m)
MEDIUM SAND φ = 37.5°	8'-3" (2.52 m)	9'-0" (2.74 m)
DENSE SAND φ = 40°	7'-9" (2.36 m)	9'-0" (2.74 m)



TOP VIEW

TOP VIEW

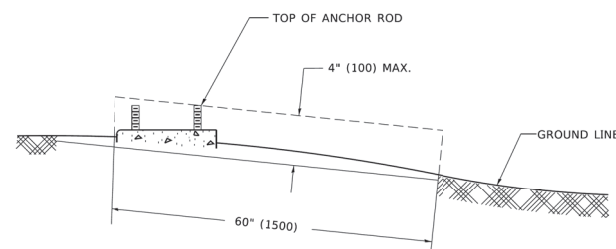


ANCHOR ROD DETAIL

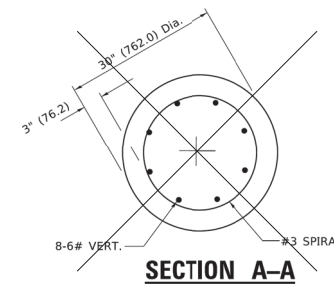
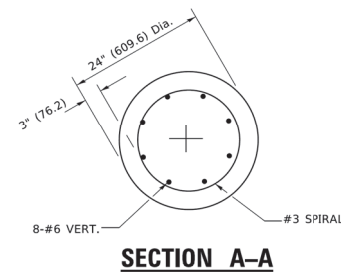
FOUNDATION DETAIL

NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 23#4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.



FOUNDATION EXTENSION DETAIL



PAID FOR UNDER "LIGHT POLE FOUNDATION, 24" DIAMETER".

IDOT STANDARD BE-301
(REVISED 4/22/2002)
MODIFIED FOR THIS PROJECT

LIGHT POLE FOUNDATION

N.T.S.

FILE NAME =	USER NAME = rhowellindgren	DESIGNED AJD	REVISED -
N:\MOUNTPROSPECT\200015\Mech\LOT_200015_07.sht		DRAWN RJJ	REVISED -
Default	PLOT SCALE = N.T.S.	CHECKED AJD	REVISED -
	PLOT DATE = 3/10/2022	DATE 3/10/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAND RD. - CENTRAL RD. - MOUNT PROSPECT RD. IMPROVEMENTS
LIGHTING DETAILS (7 OF 10)

SCALE: N.T.S. SHEET 7 OF 10 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	17-00166-00-CH	COOK	264	211
			CONTRACT NO. 61H44	
ILLINOIS FED. AID PROJECT				

FOUNDATION DESIGN TABLE

TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	13'-0" (3.962 m)	15'-0" (4.572 m)	8-#6X12'-6" (3.810 m)	#3X122' (37.186 m)	8-#6X14'-3" (4.343 m)	#3X141' (42.977 m)
MEDIUM CLAY	9'-6" (2.896 m)	10'-9" (3.277 m)	8-#6X9'-0" (2.743 m)	#3X90' (27.432 m)	8-#6X10'-0" (3.048 m)	#3X100' (30.480 m)
STIFF CLAY	7'-0" (2.134 m)	8'-0" (2.438 m)	8-#6X6'-6" (1.981 m)	#3X66' (20.112 m)	8-#6X7'-6" (2.286 m)	#3X76' (23.165 m)
LOOSE SAND	9'-0" (2.743 m)	10'-0" (3.048 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)	8-#6X9'-6" (2.896 m)	#3X94' (28.651 m)
MEDIUM SAND	8'-3" (2.515 m)	9'-0" (2.743 m)	8-#6X8'-0" (2.438 m)	#3X78' (23.774 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)
DENSE SAND	7'-9" (2.362 m)	9'-0" (2.743 m)	8-#6X7'-6" (2.286 m)	#3X73' (22.250 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)
ROCK OR SOLIDIFIED SLAG	5'-0" (1.524 m)	5'-0" (1.524 m)	NONE	NONE	NONE	NONE

OFFSET SCHEDULE

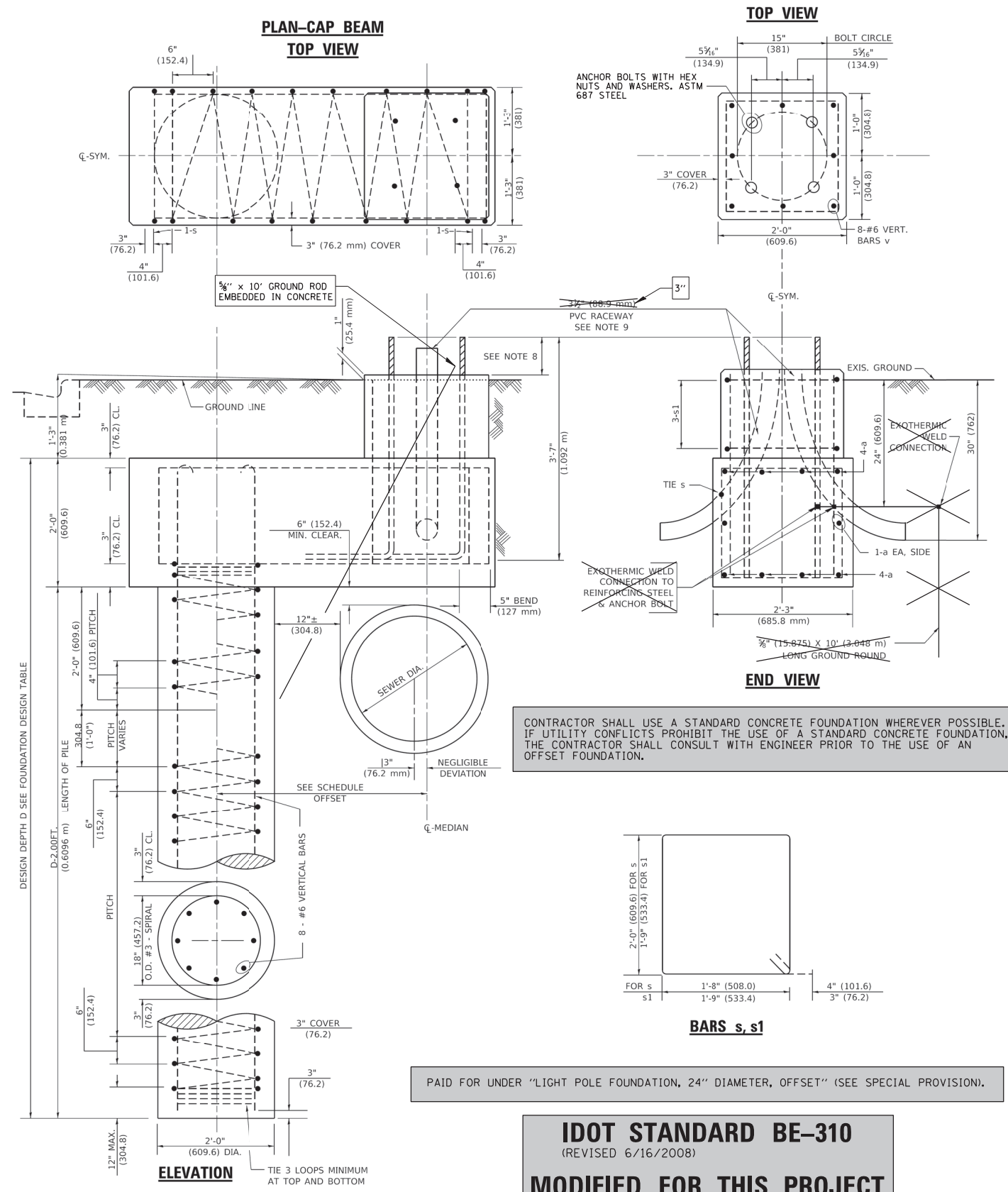
SEWER DIAM. d IN.	PILE OFFSET from C-MED'N FT.	LENGTH of BAR a FT.
UP TO 24"	3'-3"	#6 x 5'-3"
27" (685.8 mm) TO 36" (914.4 mm)	3'-9"	5'-9"
42" (1066.8 mm) TO 48" (1219.2 mm)	4'-6"	6'-6"
54" (1371.6 mm) TO 60" (1524.0 mm)	5'-0"	7'-0"
66" (1676.4 mm) TO 72" (1828.8 mm)	5'-6"	7'-6"

BILL OF MATERIAL

MARK	NO.	SIZE	LENGTH	SHAPE
a	10	6	SEE BELOW	—
s	12	4	8'-0" (2.438 m)	□
s ₁	3	3	7'-6" (2.286 m)	□
v ₁	8	6	2'-9" (0.838 m)	—
v ₂				

NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
- EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" (609.6 mm) OR 30" (762.0 mm) IN DIAMETER.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS. IF LIGHT POLE IS MOUNTED WITHOUT BREAKAWAY DEVICE, ANCHOR BOLTS SHALL PROJECT 23#4" (69.9 mm) ABOVE TOP OF THE FOUNDATION. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENTION WITH ENGINEER.
- RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.
- THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.



LIGHT POLE FOUNDATION OFFSET

N.T.S.

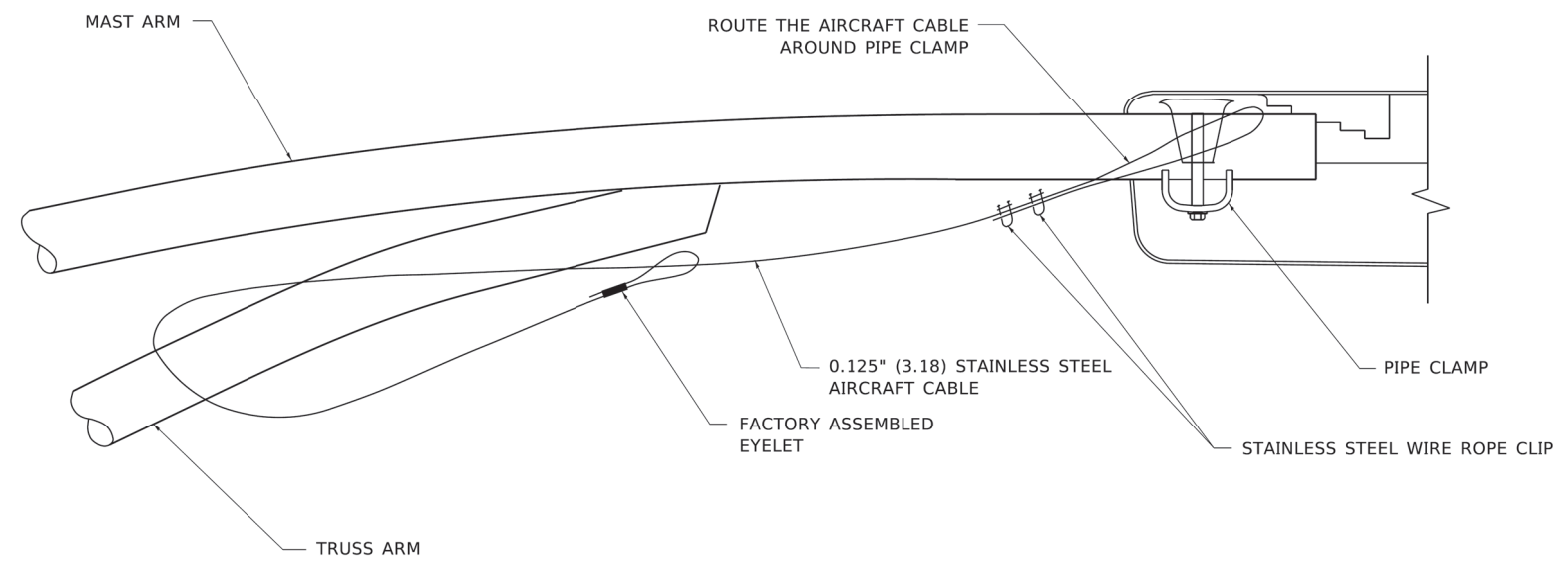
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Default	PLOT SCALE = N.T.S.	CHECKED AJD	REVISED -
	PLOT DATE = 3/10/2022	DATE 3/10/2022	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

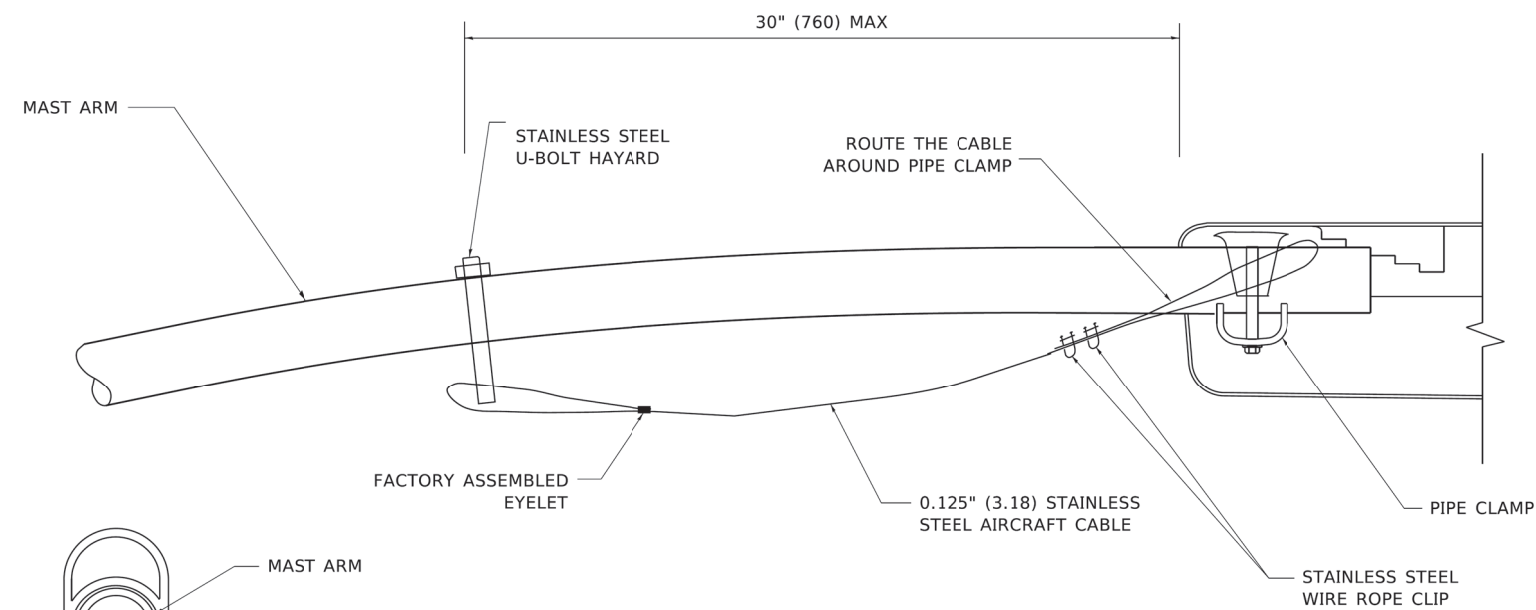
RAND RD. - CENTRAL RD. - MOUNT PROSPECT RD. IMPROVEMENTS
 LIGHTING DETAILS (8 OF 10)

SCALE: N.T.S. SHEET 8 OF 10 SHEETS STA. TO STA.

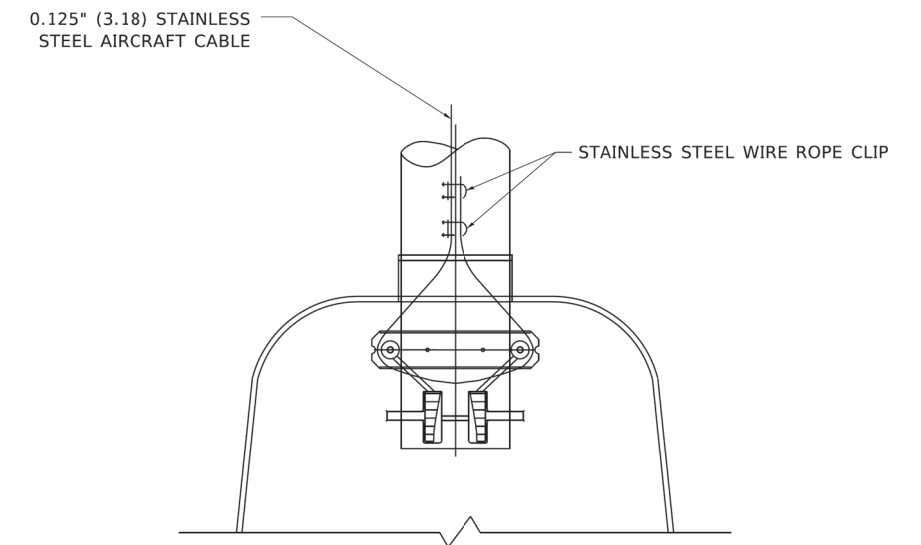
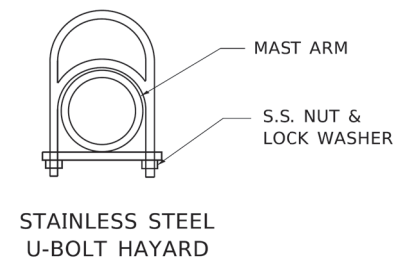
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	17-00166-00-CH	COOK	264	212
CONTRACT NO. 61H44			ILLINOIS FED. AID PROJECT	



SIDE VIEW (TRUSS ARM)
N.T.S.



SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)
N.T.S.



BOTTOM VIEW
N.T.S.

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

IDOT STANDARD BE-701
(REVISED 8/8/2003)

FILE NAME =	USER NAME = rhowellindgren	DESIGNED AJD	REVISED -
N:\MOUNTPROSPECT\200015\Mech\LOT_200015_09.sht	DRAWN RJJ	REVISIONS	REVISED -
Default	PLOT SCALE = N.T.S.	CHECKED AJD	REVISED -
	PLOT DATE = 3/10/2022	DATE 3/10/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAND RD. - CENTRAL RD. - MOUNT PROSPECT RD. IMPROVEMENTS
LIGHTING DETAILS (9 OF 10)

SCALE: N.T.S. SHEET 9 OF 10 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	17-00166-00-CH	COOK	264	213
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H44	



ComEd
An Exelon Company

Service and Meter Application Switch and Load Information Sheet

Please complete a separate sheet for each switch – existing or new:

Project Name: Rand/Central/Mt. Prospect Street Lighting
Site Address: 1020 E. Central Road, Mount Prospec. IL 60056
Switch Name and Location: Lighting Controller located at NW corner of Rand Road and Central Road

Service Voltage (check one):

- 120/240V 1-phase, 3-wire
- 120/240V 3-phase, 4-wire
- 120/208V 3-phase, 4-wire
- Other:
- 4kV 12kV 34kV 3-phase, 3-wire
- 4kV 12kV 3-phase, 4-wire
- 277/480V 3-phase, 4-wire
- 480V 3-phase 3-wire (B-phase Grounded)
- 480V 3-phase 3-wire (Ungrounded – requires ground detection equip.)

Other Items (check all that apply):

- New Construction Sq. Ft.
- Building Addition Sq. Ft.
- Relocating Existing Service Entrance
- Hi-Rise/ Vault Service
- Underground Service
- Overhead Service
- Commercial – No. of units Sq. Ft.
- Residential – No. of units Sq. Ft.

Date of Ground Breaking (est.): _____ Date to Final Grade (est.): _____
Date to Energize: October 2022 Hours of Operation Per Day: 8 12 16 24

Switch Size (amps): 100 (If switchgear is 1,200 Amps or larger, customer must submit drawings for ComEd approval)

Switch Rating (percentage): 80%

Secondary Conductors: 3 (Number) Sets of 1 /C #2 (No. of conductors) (Size) CU or AL (Type)

Total Connected Load Information:

(KW or HP)	Description:	Connected Load:	
		1-phase	3-phase
Lighting:	Lighting	15.2 Kw	
VAC:			
Receptacle:			
Process Heat:			
Water Heat:			
Space Heat:			
Motors*:			
Welders**:			
TOTAL LOAD:		15.2 Kw	

*Motor Load Detail included above:

Description	Quantity	Size (HP)	Efficiency Rating	Phase / Voltage	Nema Code	Starts Per Hr. or Day	Starting Amps	Use

**Welder Detail included above:

Description	Quantity	Size (kVA)	Type	Max. Inst. Demand	P.F. at Peak	Welds Per Minute	Cycles Per Weld	Hours Per Day Use

COMED CONTACT: CHRISTINE LEFTWICH
(847)-508-4073
(christine.leftwich@comed.com)



ComEd
An Exelon Company

Service and Meter Application Project Information Sheet

Project Name: Rand/Central/Mt. Prospect Street Lighting
Site Address: 1020 E. Central Road City: Mount Prospect Zip: 60056

Total Number of Service Entrance Locations (meters/switches) Requested: 1

Legal Name of Entity (Electric Consumer): Village of Mount Prospect
 Corporation Partnership Sole Proprietor Other: Municipality
Tax I.D.: _____ Existing Account Number: 0795078189

Principle(s) to Sign Contracts For Service, Easements, Etc.:

Property Owner: _____ Phone: _____
Building Owner: _____ Phone: _____
Building Manager: Sean Dorsey Phone: (847) 870-5640

Mailing Address For Contracts:

Company: Mount Prospect Public Works Dept. Phone: (847) 870-5640 Fax: _____
Address: 1700W. Central Road City: Mount Prospect Zip: 60056

Mailing Address For Electric Bills:

Company: Village of Mount Prospect Phone: (847) 392-6000 Fax: _____
Address: 50 S. Emerson St. City: Mount Prospect Zip: 60056

Project Contacts:

Consulting Engineer: Anthony DeRicco E-mail: adericco@cbbel.com
Firm Name: Christopher Burke Engineering, Ltd. Phone: (847) 823-0500 Fax: (847) 823-0520
Address: 9575 W. Higgins Road, Suite 600 City: Rosemont Zip: 60018

Electrical Contractor:

Consulting Engineer: _____ E-mail: _____
Firm Name: _____ Phone: _____ Fax: _____
Address: _____ City: _____ Zip: _____

Other:

Consulting Engineer: Rich Jezierny E-mail: rjezierny@cbbel.com
Firm Name: Christopher Burke Engineering, Ltd. Phone: (847) 823-0500 Fax: (847) 823-0520
Address: 9575 W. Higgins Road, Suite 600 City: Rosemont Zip: 60018

The Following Documents May Be Required:

1. Plat of Survey with legal description of property (for easement, if required)
2. Site Plan showing building relative to property lines – mark service entrance location(s)
3. Civil drawings (showing water, sewer, gas, phone, electric, pavement, grading, etc.)
4. Complete electrical drawings and/or load detail sheets

Information Provided By:

Print Name: Rich Jezierny
Signature: _____
Date: May 6, 2021

ELECTRICAL SERVICE APPLICATION FOR INFORMATIONAL PURPOSES ONLY

FILE NAME =	USER NAME = rhowellindgren	DESIGNED AJD	REVISED -
N:\MOUNTPROSPECT\200015\Mech\LOT_200015_10.sht		DRAWN RJJ	REVISED -
Default	PLOT SCALE = N.T.S.	CHECKED AJD	REVISED -
	PLOT DATE = 3/10/2022	DATE 3/10/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAND RD. – CENTRAL RD. – MOUNT PROSPECT RD. IMPROVEMENTS
LIGHTING DETAILS (10 OF 10)

SCALE: N.T.S. SHEET 10 OF 10 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	17-00166-00-CH	COOK	264	214
CONTRACT NO. 61H44				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

1. All work and material shall be done in accordance with the Illinois Department of Transportation (IDOT) "Standard Specifications for Road and Bridge Construction, Section 522", adopted January 1, 2022 and "Supplemental Specifications and Recurring Special Provisions" unless noted otherwise.

CAST-IN-PLACE CONCRETE

2. All exposed concrete edges shall have a 3/4" x 45° chamfer, except where shown otherwise. Chamfer on vertical edges shall be continued a minimum of one foot below finished ground level.

REINFORCEMENT BARS

- 3. Reinforcement bars, including epoxy-coated reinforcement bars, shall conform to the requirements of aashto m-31 (astm a706), grade 60, deformed bars.
- 4. Reinforcement bars designated "(E)" shall be epoxy coated.
- 5. Reinforcement bar bending details shall be in accordance with the latest "Manual of Standard Practice for Detailing Reinforced Concrete Structures", ACI 315.
- 6. Reinforcement bar bending dimensions are out to out.
- 7. Bars noted thus, 3x2-#5 indicates 3 lines of bars with 2 lengths of bars per line.
- 8. Cover from the face of concrete to face of reinforcement bars shall be 3" for surfaces formed against earth and 2" for all other surfaces unless otherwise shown.

CONSTRUCTION

- 9. Prior to commencement of construction, the Contractor shall verify all dimensions and conditions in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work; however, the Contractor shall be paid for the quantity actually furnished at the unit price for the work.
- 10. Standard Specifications, Construction Plans and subsequent details are all to be considered part of this Contract. Incidental items or accessories necessary to complete this work may not be specifically noted but are considered to be a part of this Contract.
- 11. Any information concerning the type and location of underground and other utilities is not guaranteed to be accurate or all inclusive. The Contractor is responsible for making his/her own determinations as to the type and location of the utilities as may be necessary to avoid damage thereto.
- 12. Contractor shall not scale dimensions from the contract plans for construction purposes. Scales shown are for information only.
- 13. No construction joints except those shown on the plans shall be allowed unless approved by the engineer.
- 14. It shall be the Contractor's responsibility to verify the location of all utilities prior to starting construction. Contact J.U.L.I.E., 800-892-0123.
- 15. The soil boring logs represent point information. Presentation of this information in no way implies that subsurface conditions are the same at locations other than the exact location of the boring.
- 16. Whenever any material is deposited into a drainage system or drainage structures, The deposited material shall be removed at the close of each working day. At the conclusion of construction operations, all drainage systems and structures shall be free from dirt and debris deposited during the various construction operations.

INDEX OF STRUCTURAL SHEETS

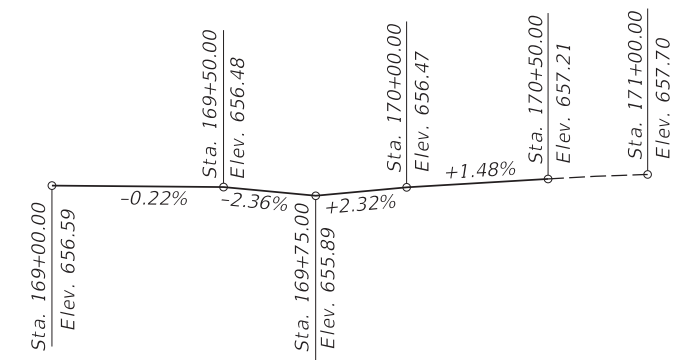
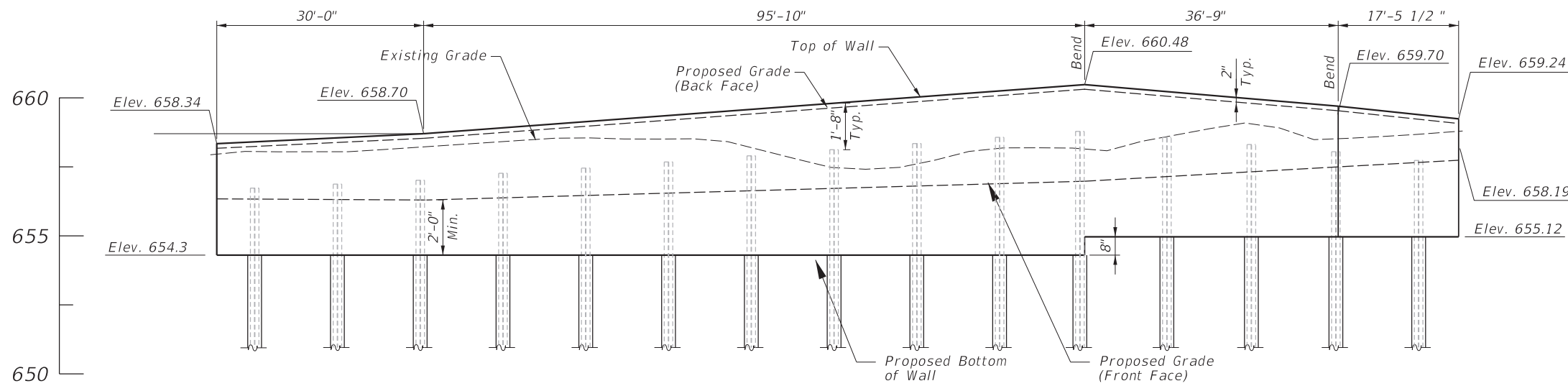
SHEET NO	TITLE
S-1	GENERAL PLAN & ELEVATION
S-2	GENERAL NOTES, INDEX & BOM
S-3	PLAN, ELEVATION, AND DETAIL
S-4	PLAN, ELEVATION, AND DETAIL
S-5	TYPICAL CROSS SECTION & DETAILS
S-6	BORING LOGS

TOTAL BILL OF MATERIAL

PAY ITEM NO.	ITEM	UNIT	TOTAL	RECORD QUANTITY
20900110	Porous Granular Backfill	Cu. Yd.	45	
50200100	Structure Excavation	Cu. Yd.	125	
50300285	Form Liner Textured Surface	Sq. Ft.	900	
50300300	Protective Coat	Sq. Yd.	100	
50500505	Stud Shear Connectors	Each	87	
50800205	Reinforcement Bars, Epoxy Coated	Pound	4150	
52200200	Drilling and Setting Soldier Piles (in Soil)	Cu. Ft.	535	
52200100	Furnishing Soldier Piles (HP Section)	Foot	170	
52200250	Untreated Timber Lagging	Sq. Ft.	650	
52200900	Concrete Structures (Retaining Wall)	Cu. Yd.	33.4	
* 59100100	Geocomposite Wall Drain	Sq. Yd.	70	
60146304	Pipe Underdrains for Structures, 4"	Foot	200	

* Special Provision

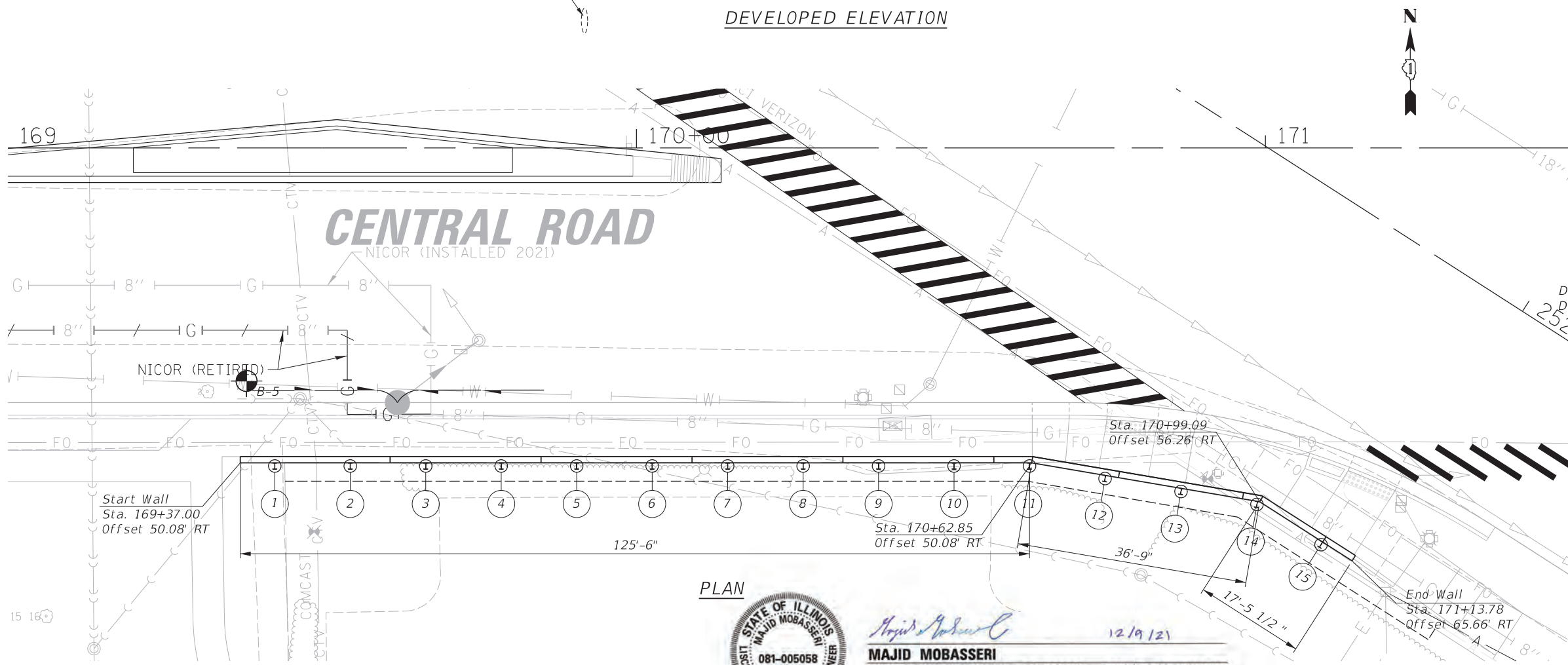
Bench Mark: OSBM 18-1 Northeast Corner of concrete Base for
 Traffic Control Box at the Southeast Corner of Central Road
 and Rand Road. Elev. 657.94
 Existing Structure: None



DEVELOPED ELEVATION

PROFILE GRADE

Exist. 12" San. Sewer



PLAN

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

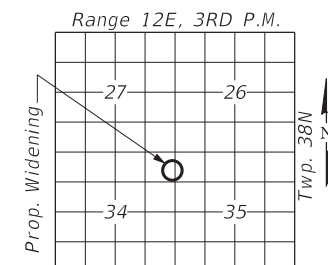
DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (Structural Steel)
 AASHTO M270 Grade 50

SEISMIC DATA

New Construction
 Seismic Design Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (SD1) = 0.105
 Design Spectral Acceleration at 0.2 sec. (SDS) = 0.135
 Soil Class = D



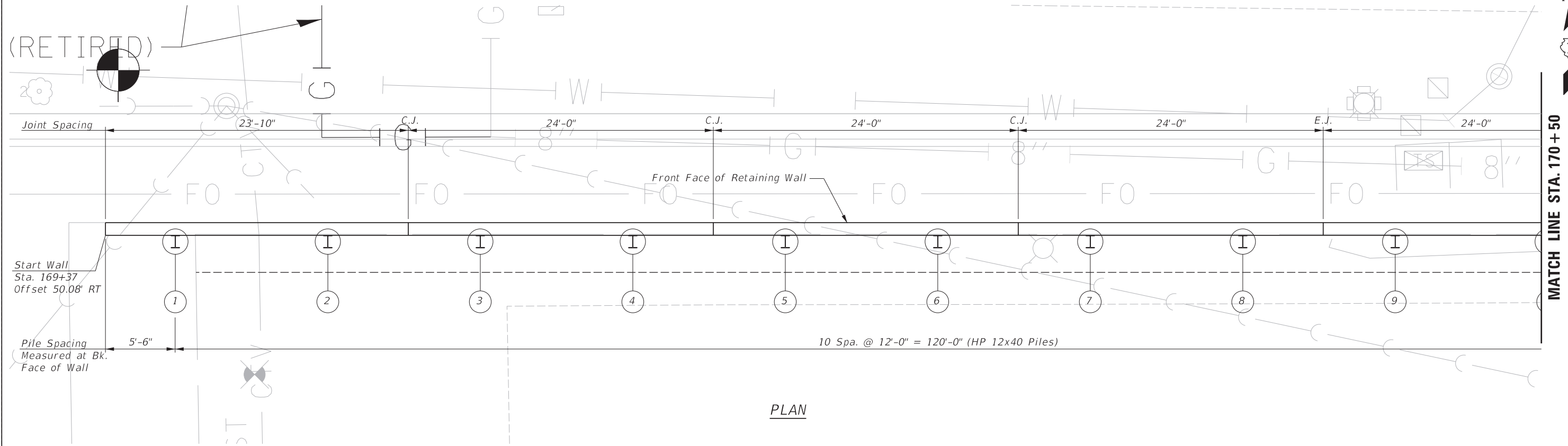
LOCATION SKETCH

GENERAL PLAN AND ELEVATION
 RETAINING WALL ALONG
 CENTRAL ROAD
 COOK COUNTY
 Sta. 169+37.00 TO STA. 171+13.78

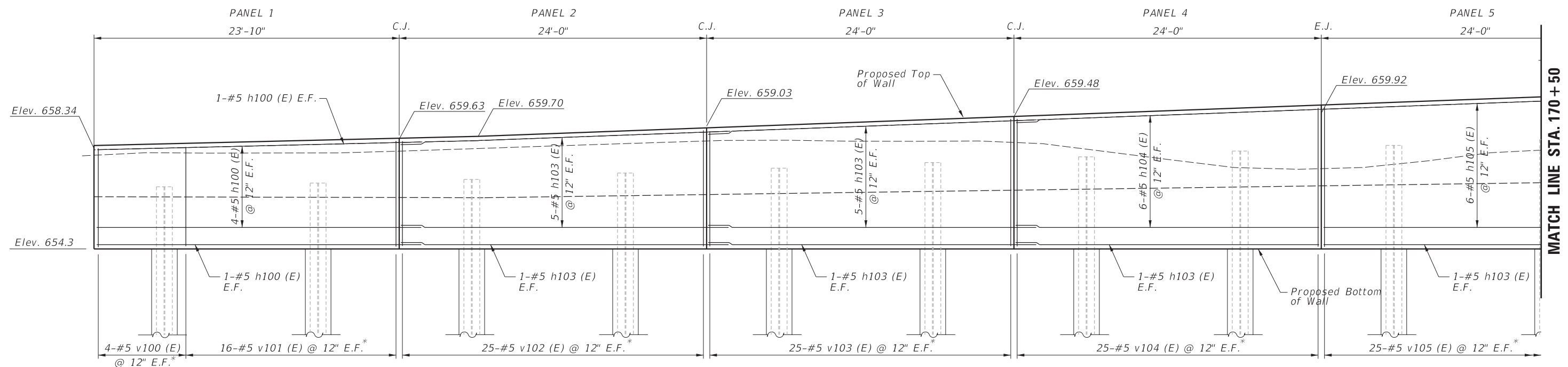


Majid Mobasseri
MAJID MOBASSERI
 ILLINOIS REGISTRATION No. 081-005058 STRUCTURAL ENGINEER
 EXPIRATION DATE: 11/30/22

FILE NAME =	USER NAME = rhowellindgren	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RAND RD. - CENTRAL RD. - MOUNT PROSPECT RD. IMPROVEMENTS GENERAL PLAN AND ELEVATION	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED -			334	17-00166-00-CH	COOK	264	216	
		CHECKED -	REVISED -			CONTRACT NO. 61H44					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



PLAN



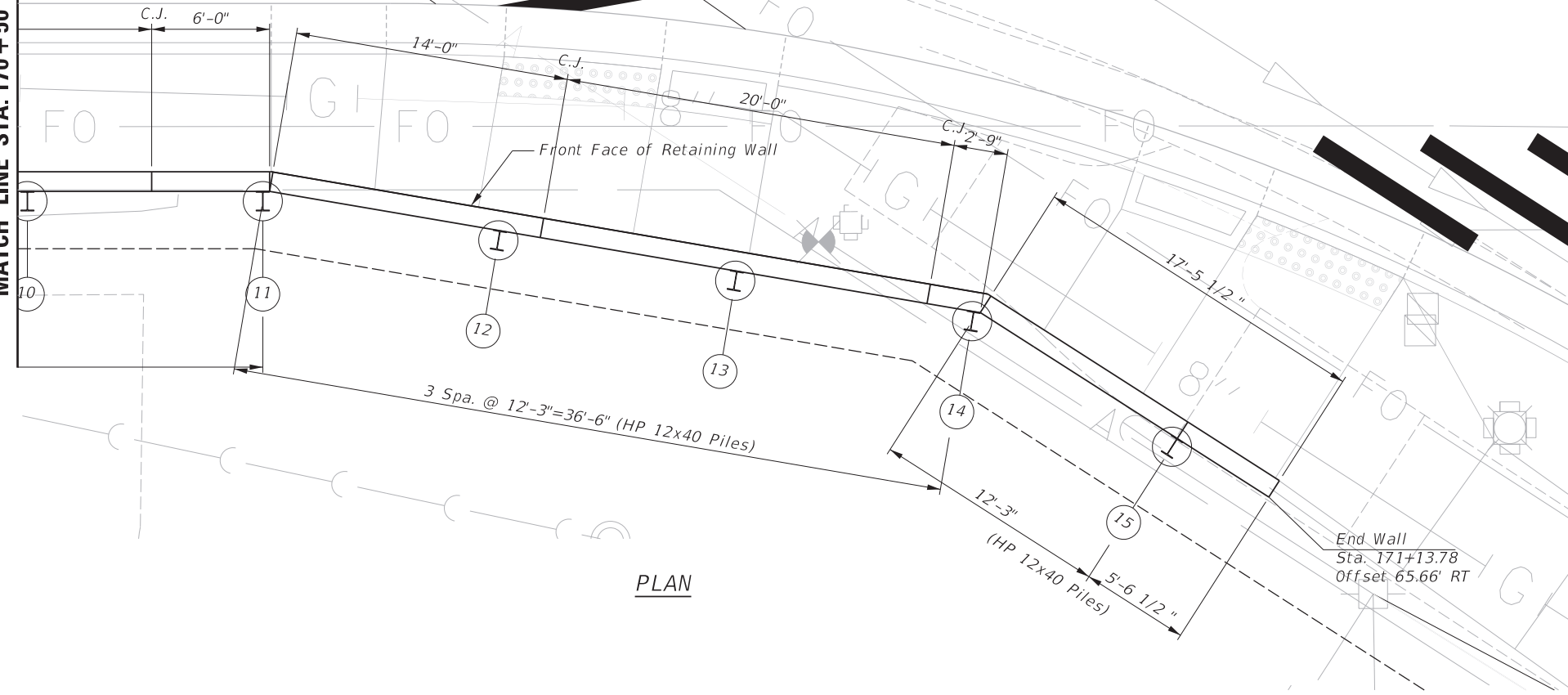
ELEVATION

* Cut Bars to Fit in Field

FILE NAME =	USER NAME = rhowellindgren	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RAND RD.- CENTRAL RD.- MOUNT PROSPECT RD IMPROVEMENTS PLAN, ELEVATION AND DETAILS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\MOUNTPROSPECT\200015\Struct\200015-Wall-Detail-01.sht		DRAWN -	REVISED -					334	17-00166-00-CH	COOK	264	217
Default	PLOT SCALE = 4'	CHECKED -	REVISED -		SCALE: 1:4			SHEET 3 OF 7 SHEETS	STA.	TO STA.	CONTRACT NO. 61H44	
	PLOT DATE = 3/10/2022	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

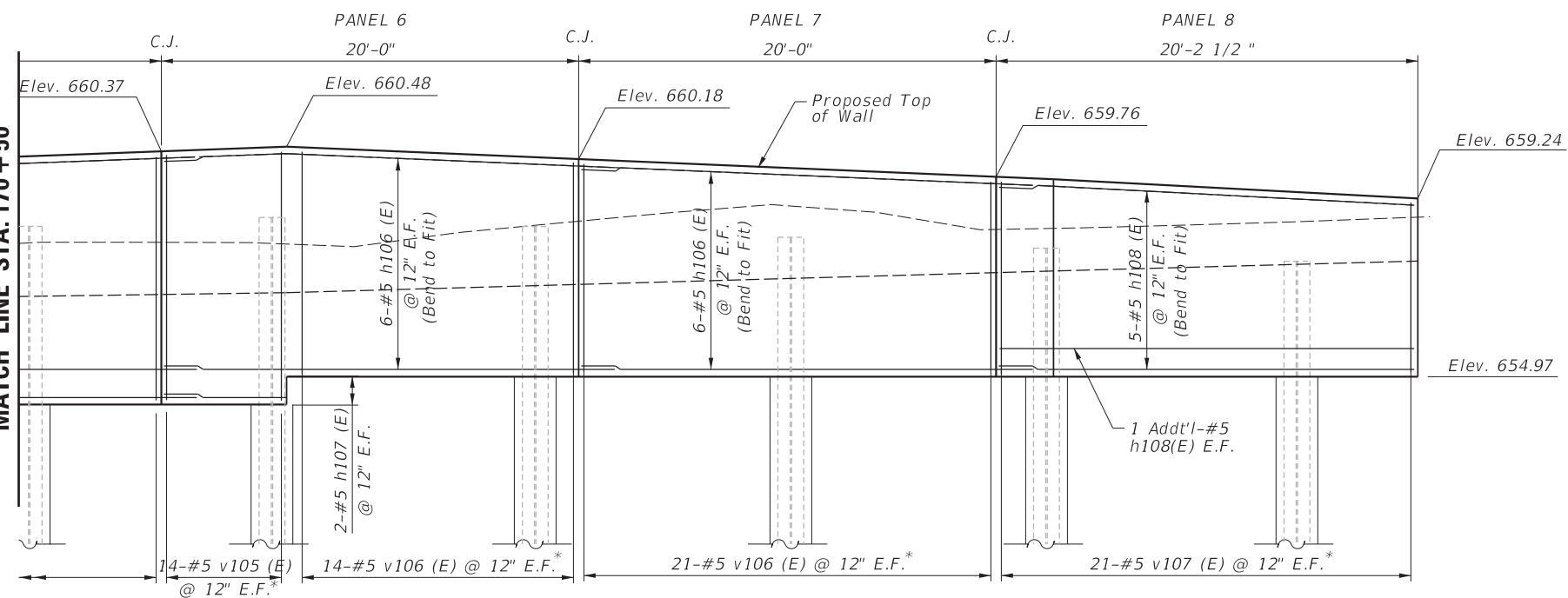


MATCH LINE STA. 170+50



PLAN

MATCH LINE STA. 170+50



ELEVATION

* Cut Bars to Fit in Field

BILL OF MATERIAL

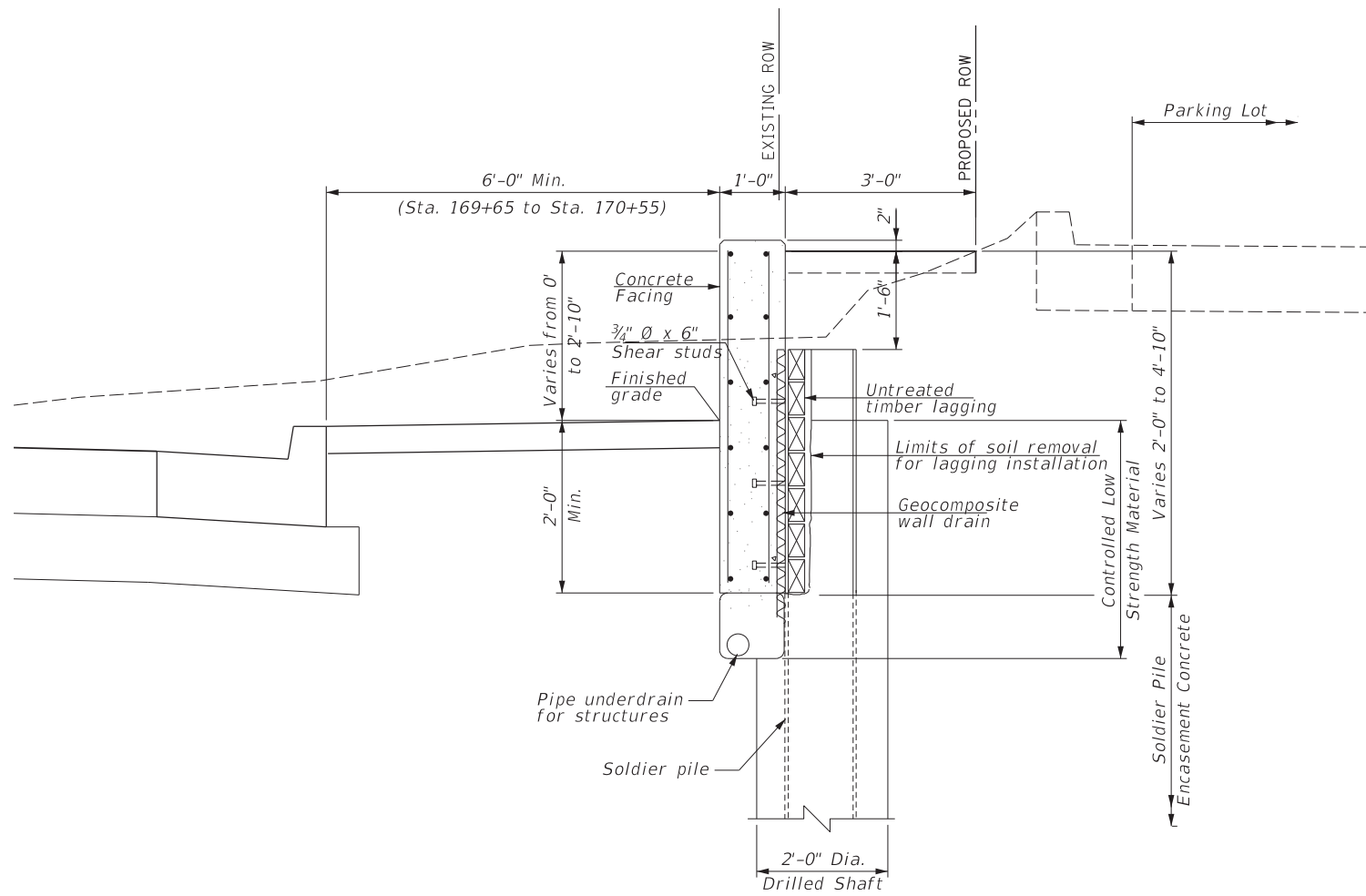
Bar	No.	Size	Length	Shape
h100(E)	6	#5	27'-3"	—
h101(E)	2	#5	23'-8"	—
h102(E)	2	#5	27'-11"	—
h103(E)	24	#5	27'-7"	—
h104(E)	12	#5	23'-10"	—
h105(E)	12	#5	27'-5"	—
h106(E)	20	#5	23'-7"	—
h107(E)	4	#5	5'-10"	—
h108(E)	10	#5	20'-0"	—
v100(E)	8	#5	5'-10"	—
v101(E)	32	#5	4'-1"	—
v102(E)	50	#5	4'-8"	—
v103(E)	50	#5	5'-0"	—
v104(E)	50	#5	5'-2"	—
v105(E)	64	#5	5'-3"	—
v106(E)	70	#5	4'-2"	—
v107(E)	42	#5	7'-7"	—
Reinforcement Bars, Epoxy Coated			Lbs.	4,150
Concrete Structures (Retaining Wall)			Cu. Yds.	33.4

FILE NAME =	USER NAME = rhowellindgren	DESIGNED -	REVISED -
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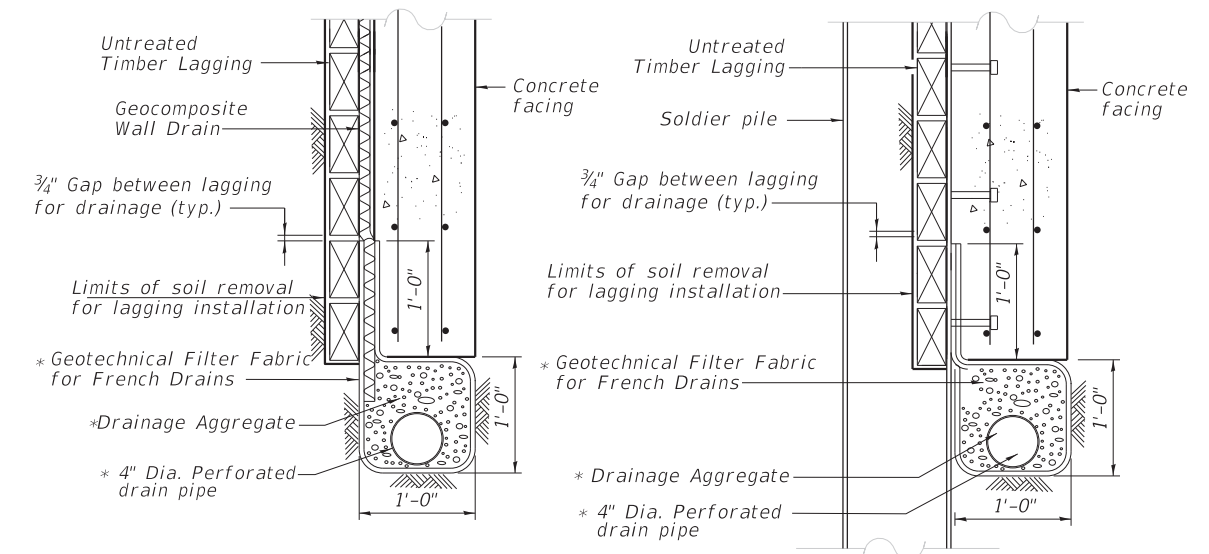
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAND RD.- CENTRAL RD.- MOUNT PROSPECT RD IMPROVEMENTS
PLAN, ELEVATION AND DETAILS
SCALE: 1:4 SHEET 4 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	17-00166-00-CH	COOK	264	218
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H44	



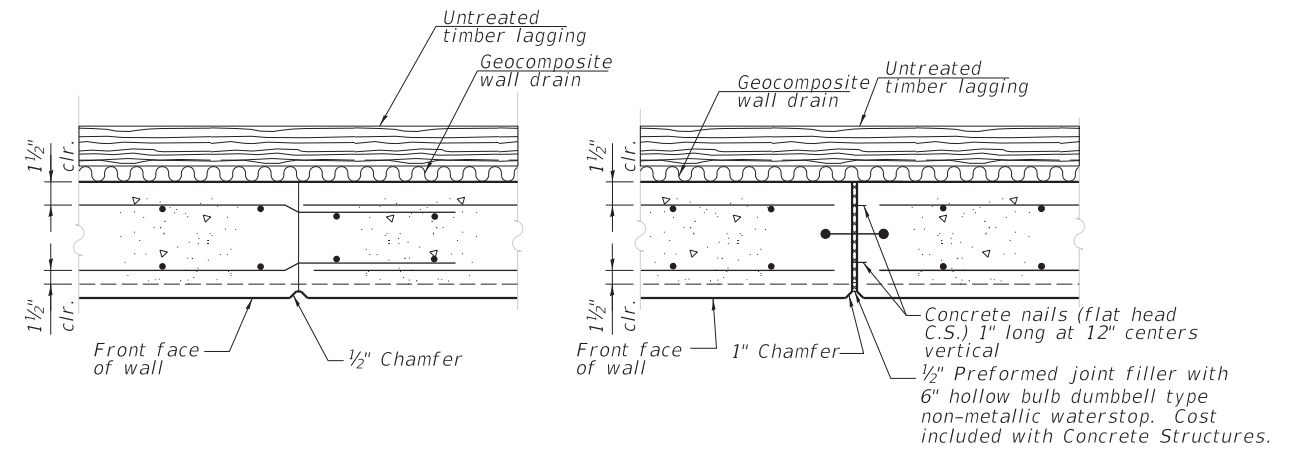
TYPICAL WALL SECTION



PIPE UNDERDRAIN DETAIL
(BETWEEN SOLDIER PILES)

PIPE UNDERDRAIN DETAIL
(AT SOLDIER PILES)

* Included in the cost of Pipe Underdrain for Structures, 4".



CONSTRUCTION JOINT DETAIL

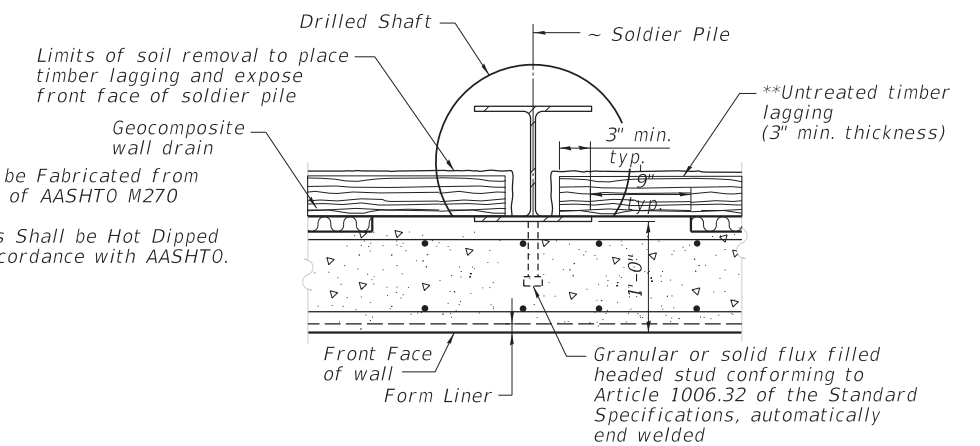
EXPANSION JOINT DETAIL

PILE TABLE

Pile No.	Northing (Y)	Easting (X)	T/Pile	T/Shaft	B/Shaft	T/Pile to T/Shaft	Pile Length (Ft.)
P1	1,966,926.38	1,096,150.03	656.70	654.12	646.12	2.58	10.58
P2	1,966,926.34	1,096,162.03	656.78	654.12	646.12	2.66	10.66
P3	1,966,926.30	1,096,174.02	657.02	654.12	646.12	2.90	10.90
P4	1,966,926.26	1,096,186.02	657.26	654.12	646.12	3.14	11.14
P5	1,966,926.22	1,096,198.02	657.52	654.12	646.12	3.40	11.40
P6	1,966,926.19	1,096,210.02	657.76	654.12	646.12	3.64	11.64
P7	1,966,926.15	1,096,222.02	657.83	654.12	646.12	3.71	11.71
P8	1,966,926.11	1,096,234.02	657.90	654.12	646.12	3.78	11.78
P9	1,966,926.07	1,096,246.02	657.97	654.12	646.12	3.85	11.85
P10	1,966,926.03	1,096,258.02	658.04	654.12	646.12	3.92	11.92
P11	1,966,926.00	1,096,270.02	658.01	654.12	646.12	3.89	11.89
P12	1,966,923.96	1,096,282.03	657.97	655.12	647.12	2.85	10.85
P13	1,966,921.86	1,096,294.09	657.94	655.12	647.12	2.82	10.82
P14	1,966,919.76	1,096,306.16	657.90	655.12	647.12	2.78	10.78
P15	1,966,913.47	1,096,316.12	657.51	655.12	647.12	2.39	10.39

NOTES:

1. Base Plates and Stiffeners Shall be Fabricated from Material Meeting the Requirements of AASHTO M270 Grade 36.
2. Base Plates, Stiffeners and Posts Shall be Hot Dipped Galvanized After Fabrication in Accordance with AASHTO.



SECTION THRU SOLDIER PILE

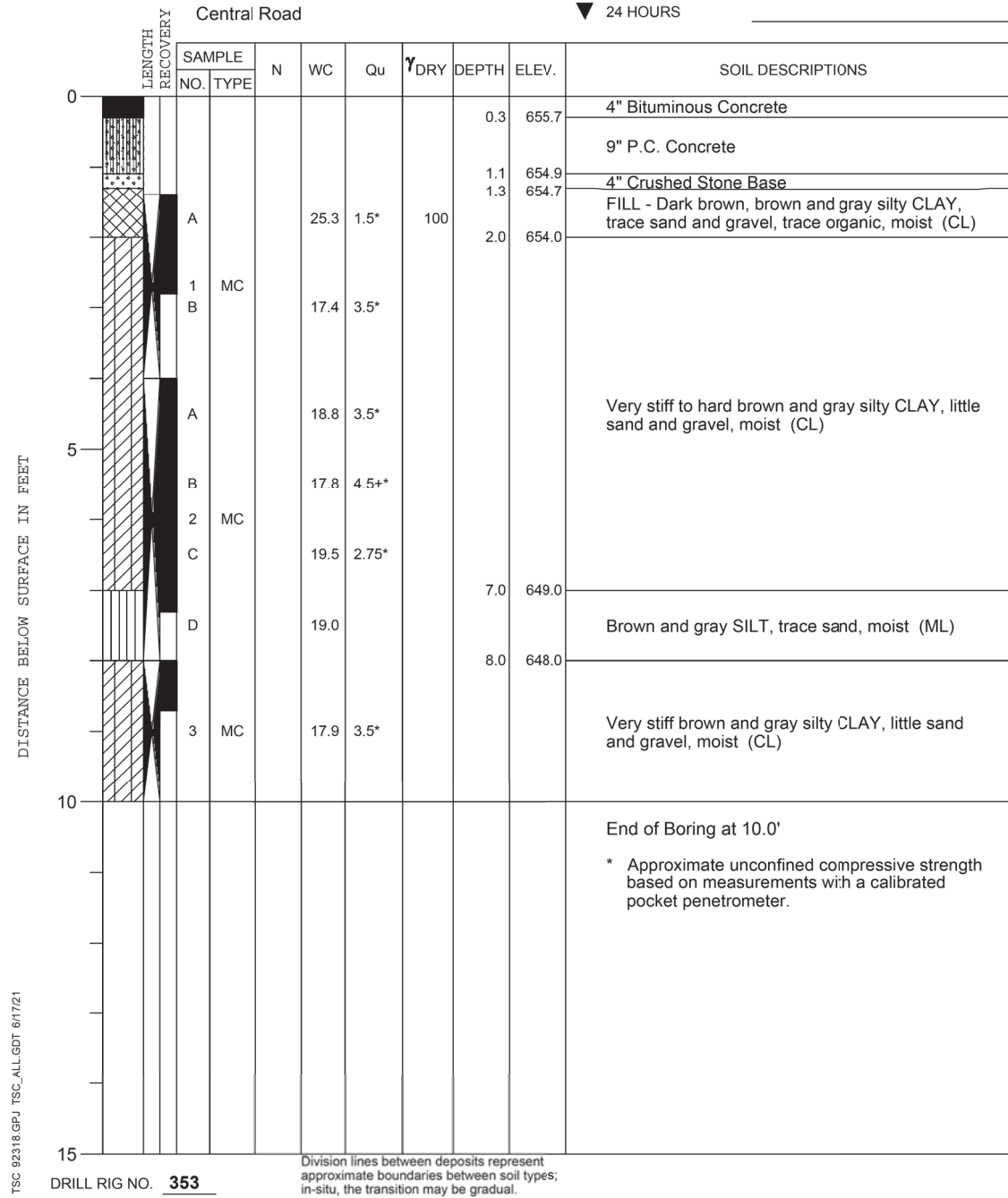
** Any over excavation done as part of the installation of the timber lagging shall be backfilled with FA4 at the Contractor's expense.

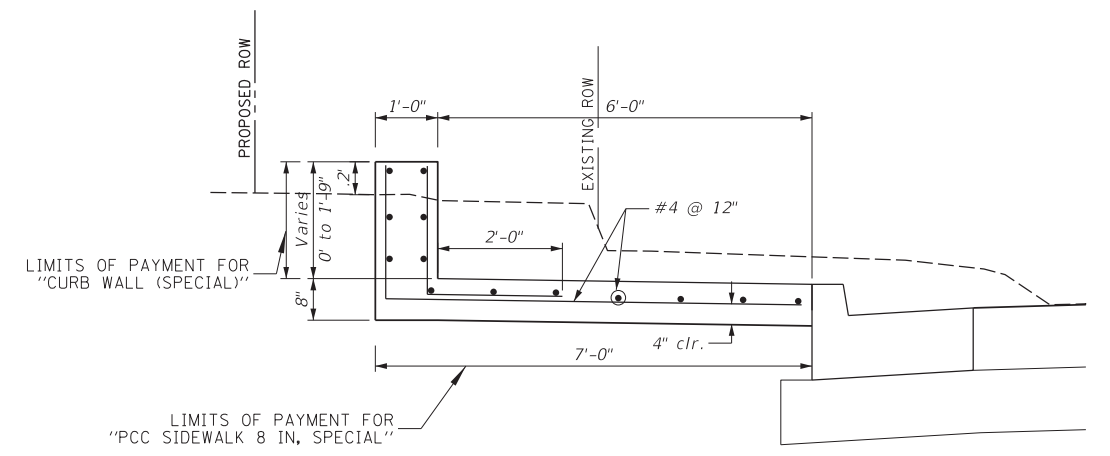
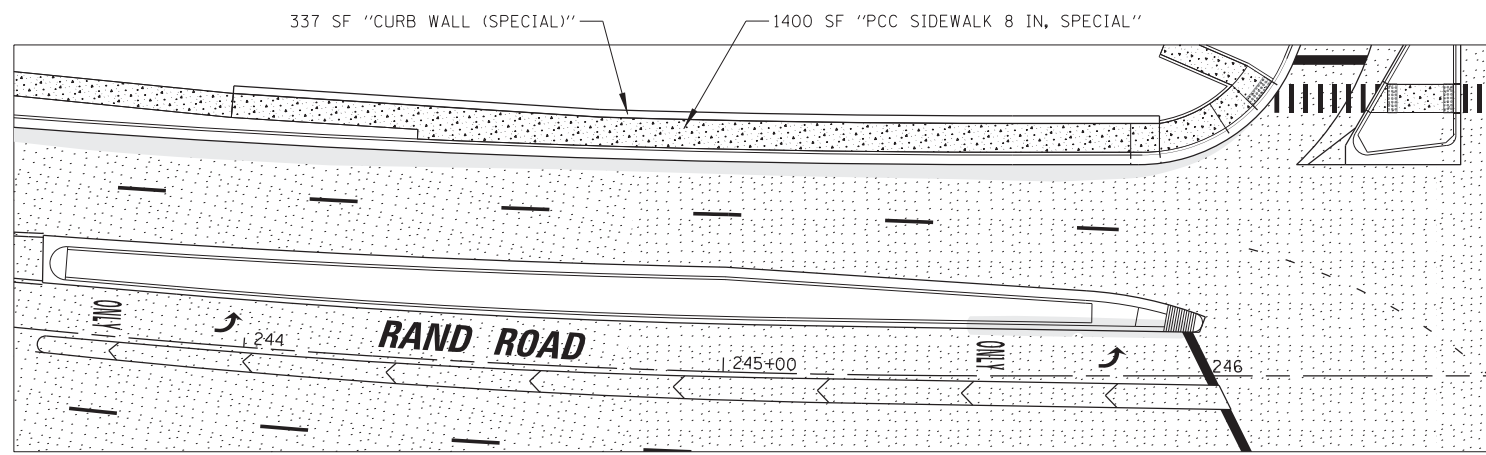
PROJECT **Intersection Improvements, Rand, Central & Mount Prospect Roads, Mount Prospect, IL** 

CLIENT **Christopher B. Burke Engineering, Ltd., Rosemont, IL**

BORING **5** DATE STARTED **5-25-21** DATE COMPLETED **5-25-21** JOB **L-92,318**

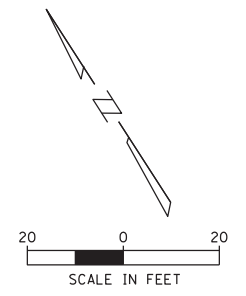
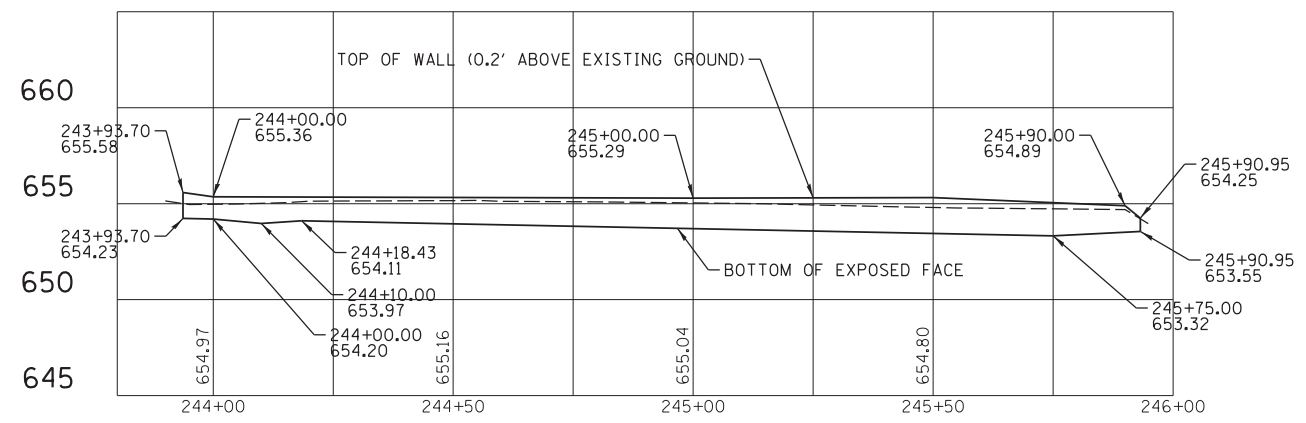
ELEVATIONS		WATER LEVEL OBSERVATIONS	
GROUND SURFACE	656.0	▽ WHILE DRILLING	Dry
END OF BORING	646.0	▽ AT END OF BORING	Dry
		▽ 24 HOURS	

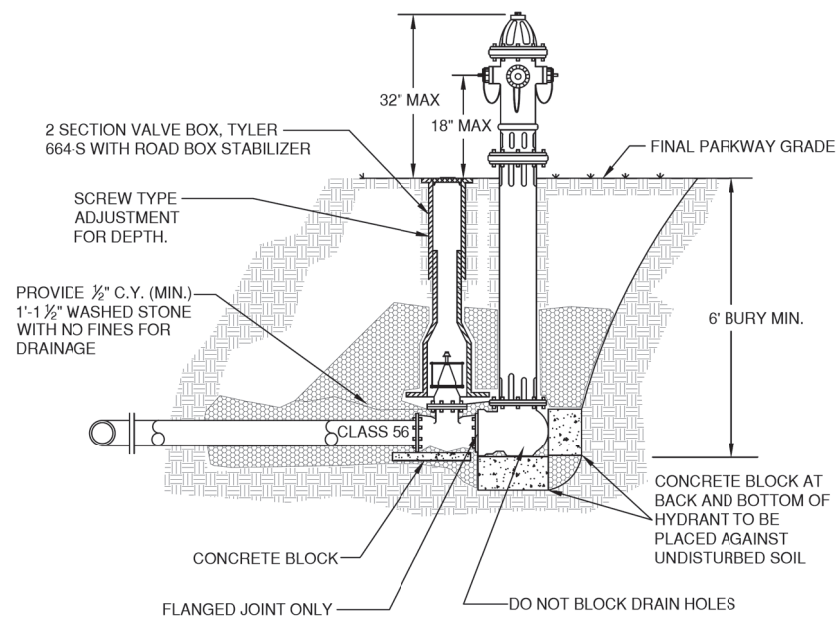




**PCC SIDEWALK 8 IN, SPECIAL
CURB WALL (SPECIAL)**

STA. 243+93.70 TO STA. 245+90.95

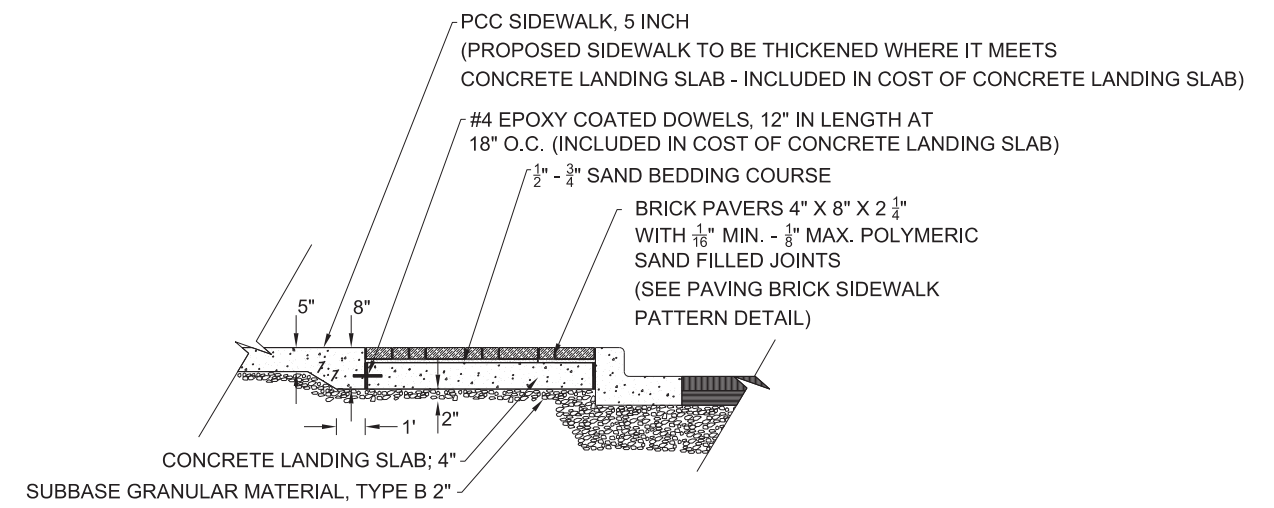




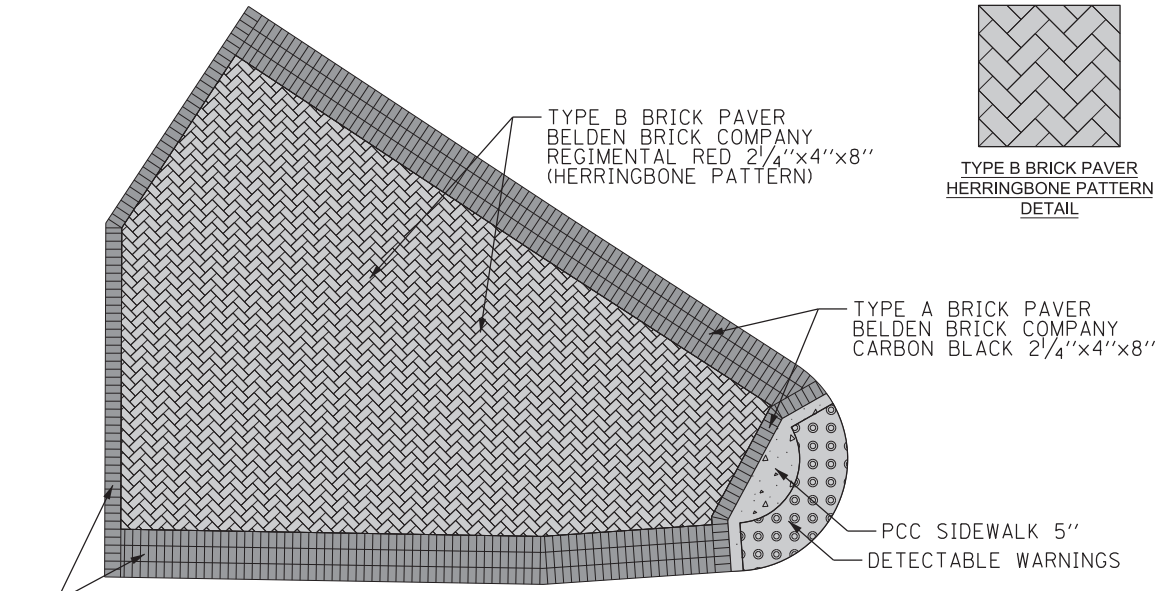
NOTES:

1. ALL HYDRANTS SHALL BE MUELLER SUPER CENTURION 250 A-423 WITH 5 1/2" MAIN VALVE, (2) 2 1/2" HOSE NOZZLE, (1) - 4 1/2" PUMPER NOZZLE ALL NATIONAL STANDARD, 1 1/2" PENTAGON, OPEN LEFT (COUNTER-CLOCKWISE) 6' BURY.
2. PROVIDE 6" N.R.S. RESILIENT WEDGE GATE VALVE AND VALVE BOX WITH "WATER" CAST INTO THE LID, MUELLER A-2360-16 OPEN LEFT.
3. ZINC CAPS WILL BE REQUIRED ON ALL MECHANICAL JOINT FITTINGS.

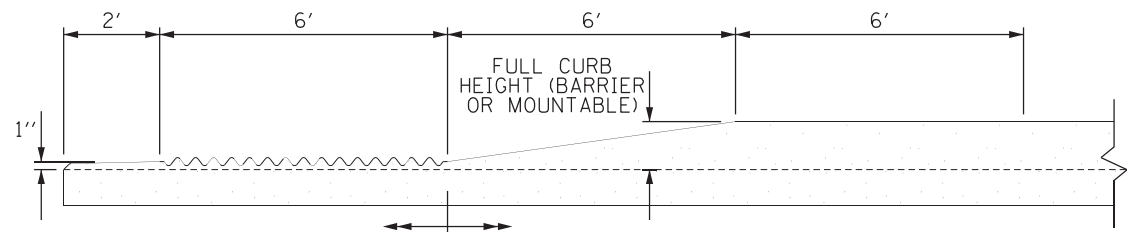
Village of Mount Prospect Public Works Department 1700 W Central Rd	FIRE HYDRANT DETAIL	Scale: None
		Last Revised: 12-2019



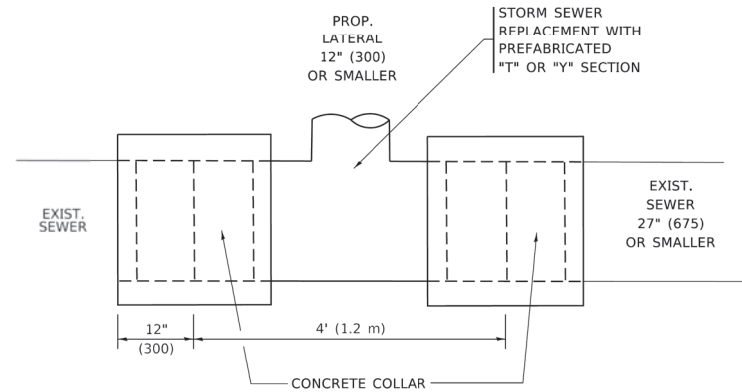
BRICK SIDEWALK DETAIL
NO SCALE



PAVING BRICK SIDEWALK PATTERN DETAIL
NO SCALE

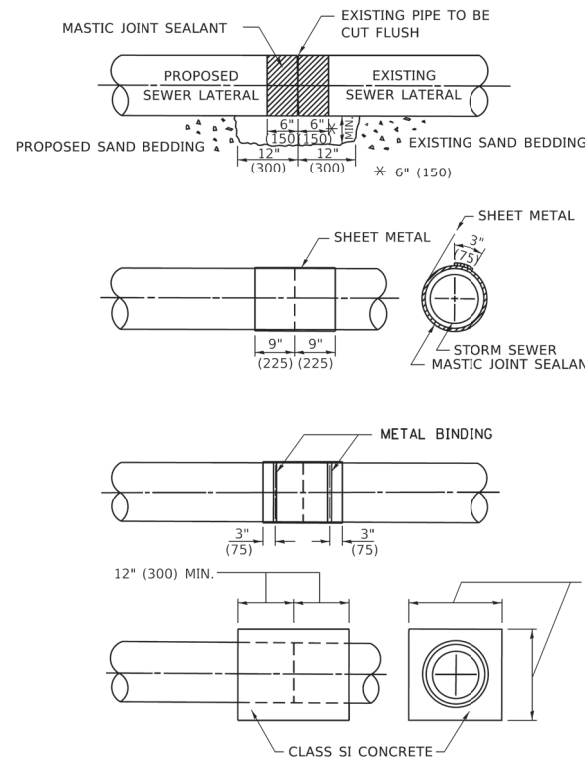


MEDIAN NOSE TRANSITION DETAIL
NO SCALE



DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER



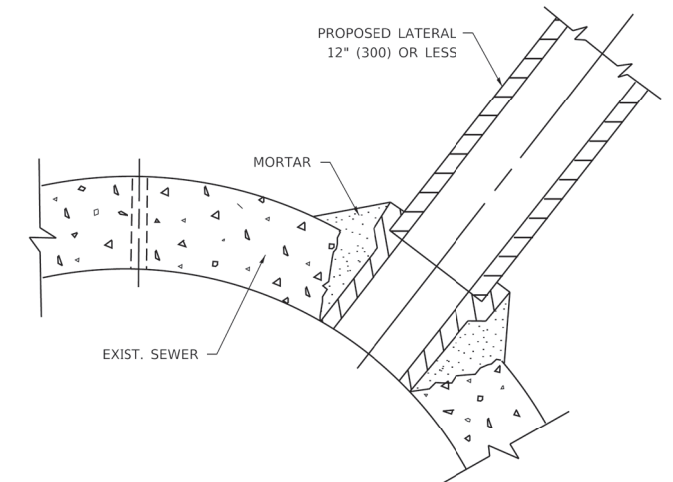
DETAIL "B"

CLASS SI CONCRETE COLLAR

* ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12' x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT COZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

NOTES:

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
 - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
 - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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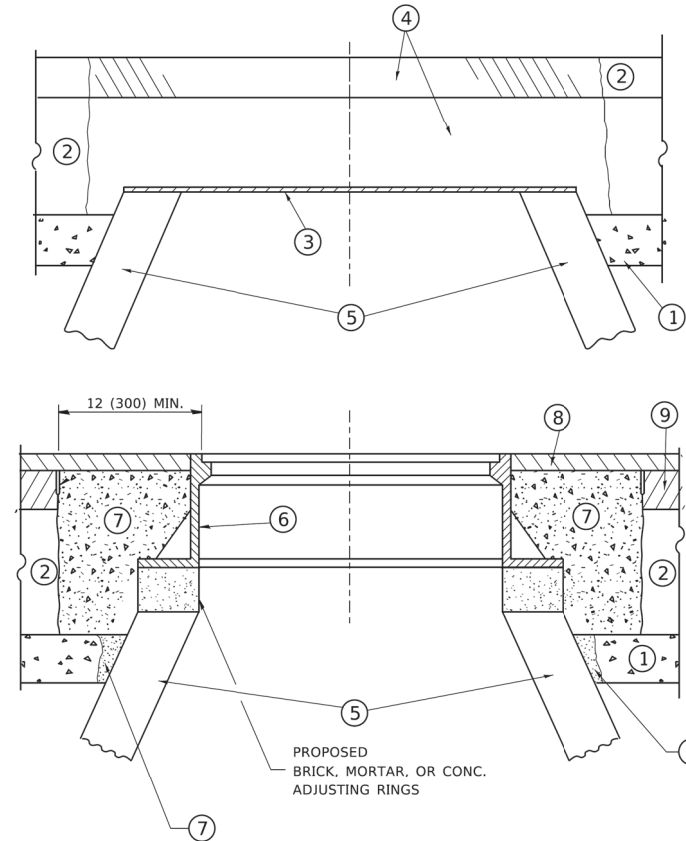
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PLOT DATE = 3/27/2019	DATE - 07-25-90	REVISED - R. SHAH 06-12-96

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAIL OF STORM SEWER
CONNECTION TO EXISTING SEWER**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	17-00166-00-CH	COOK	264	223
BD500-01 (BD-7)			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1½ (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1 * CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT *THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS PP-1 *CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

NOTES

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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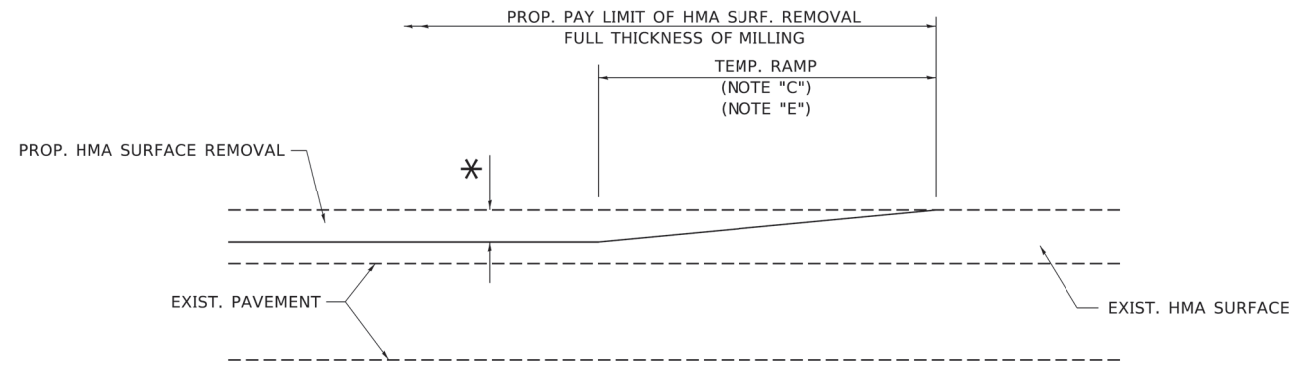
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	DRAWN -	REVISED - R. BORO 01-01-07
PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - R. BORO 03-09-11
PLOT DATE = 3/27/2019	DATE - 10-25-94	REVISED - R. BORO 12-06-11

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

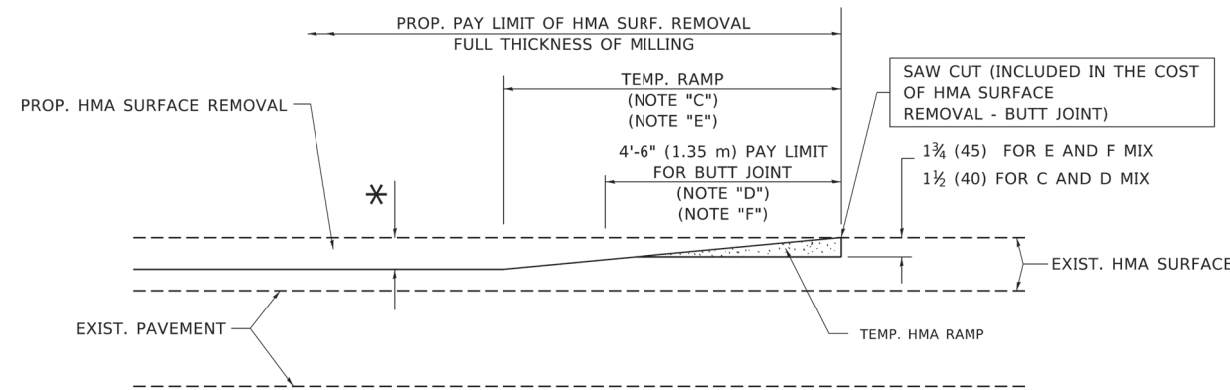
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	17-00166-00-CH	COOK	264	224
BD600-03 (BD-8)		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

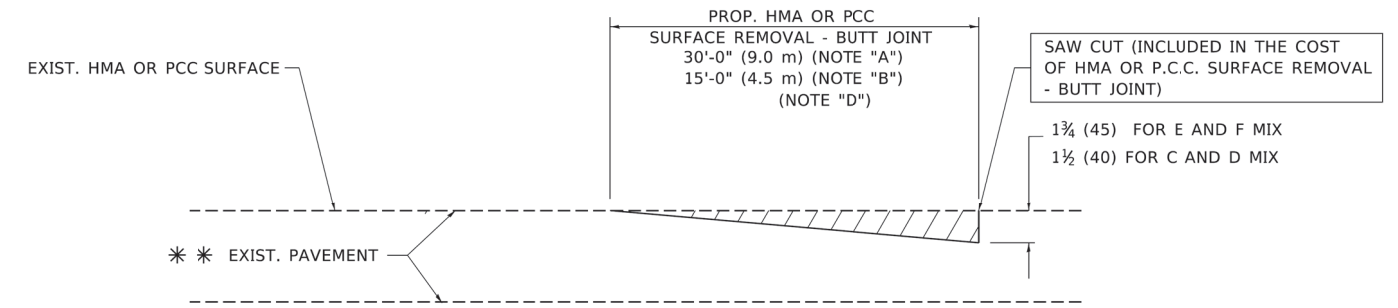


HMA CONSTRUCTED TEMPORARY RAMP

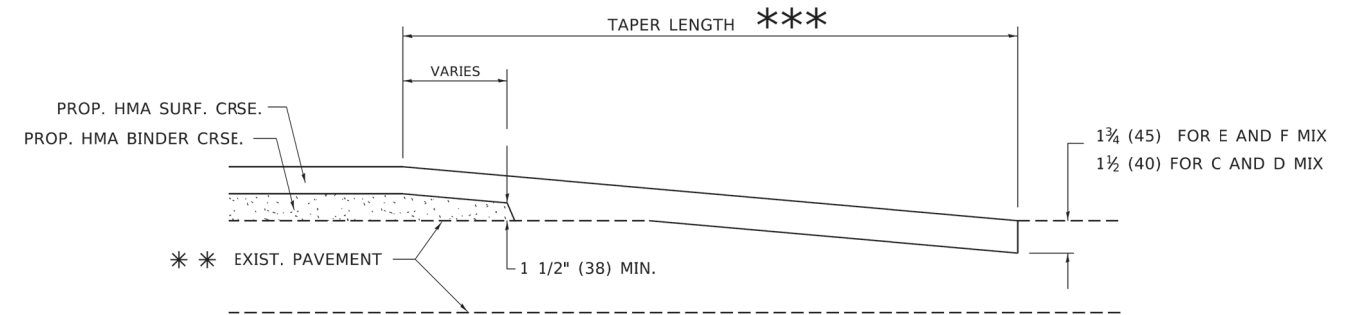
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

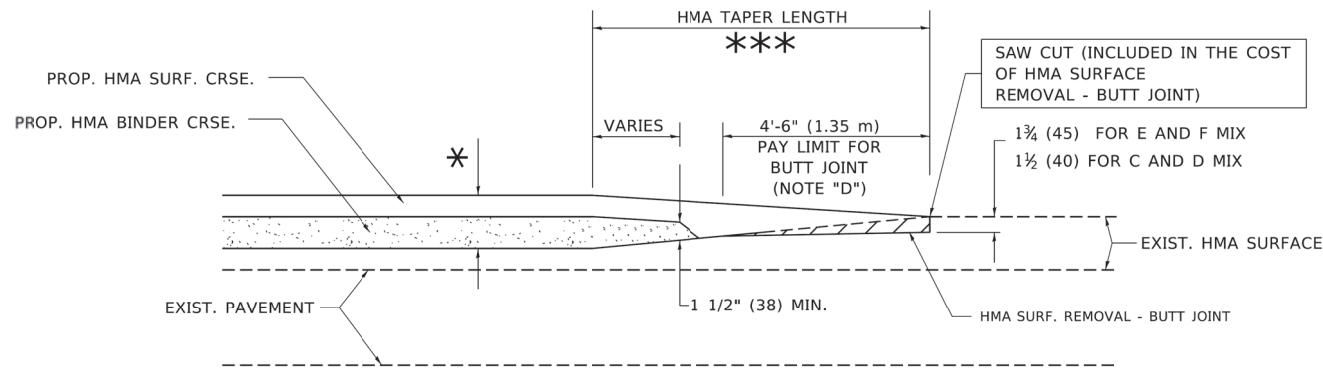
NOTES

- A. MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B. MINOR SIDE ROADS.
- C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F. INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT.
* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- G. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

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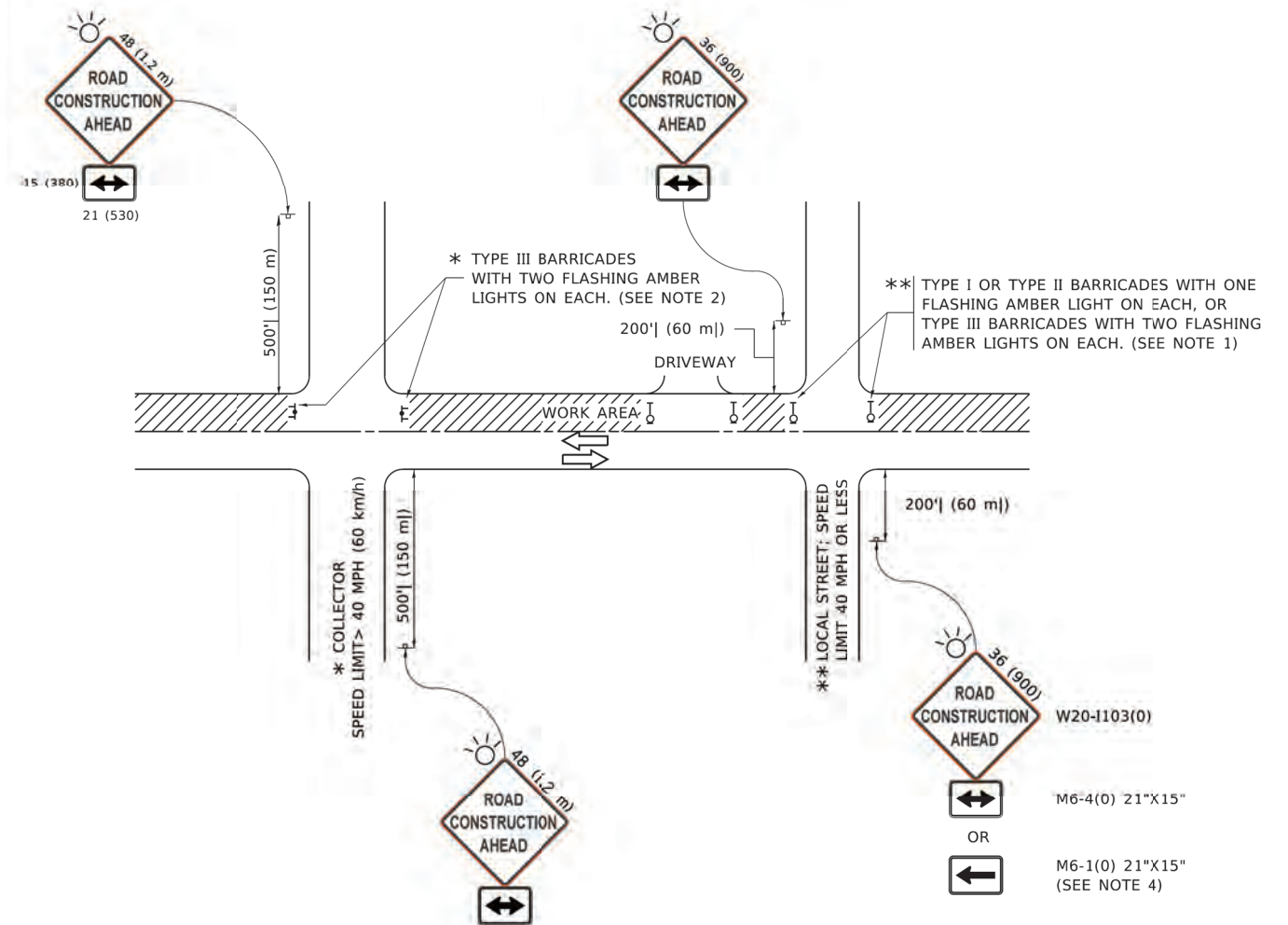
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	DRAWN -	REVISED - A. ABBAS 03-21-97
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PLOT DATE = 3/27/2019	DATE - 06-13-90	REVISED - R.BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	17-00166-00-CH	COOK	264	225
BD400-05 BD32		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

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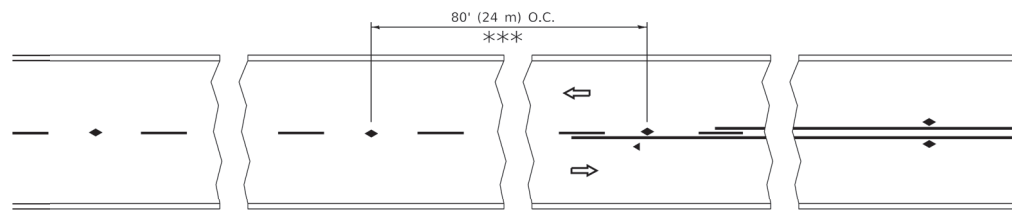
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PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

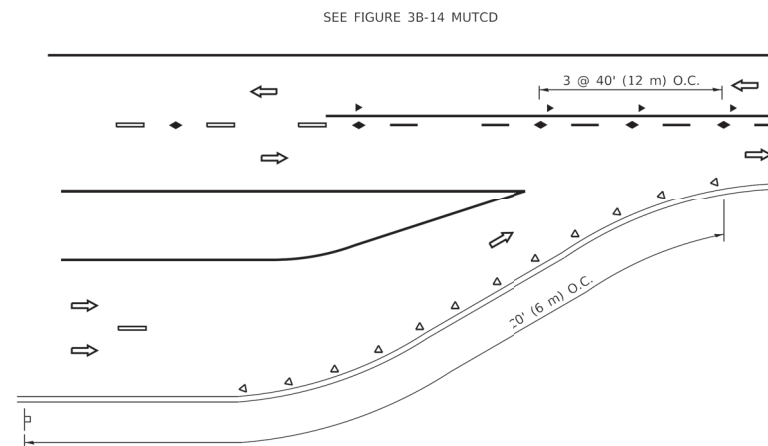
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				

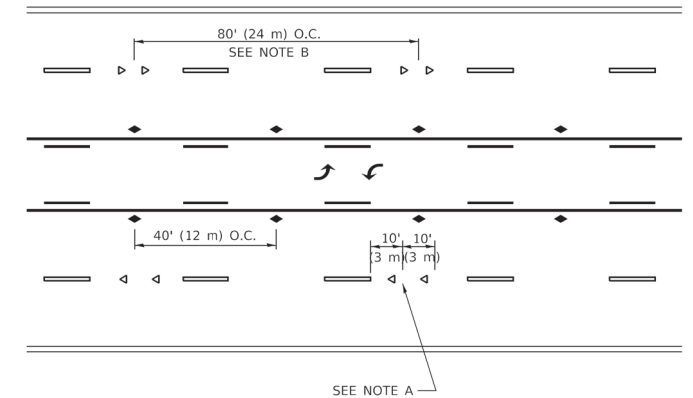


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

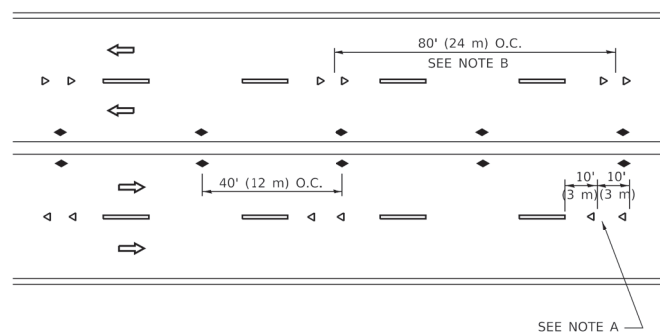
TWO-LANE/TWO-WAY



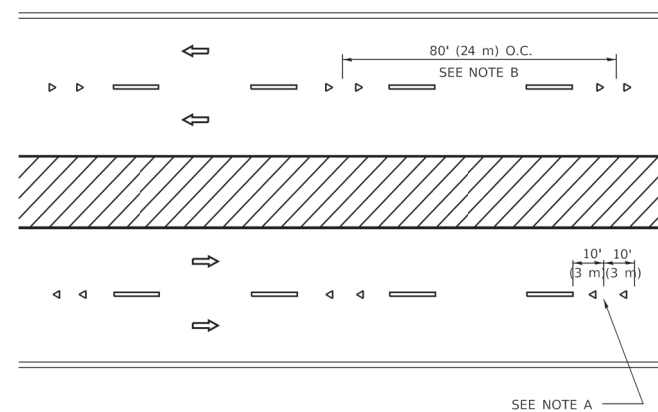
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

SYMBOLS

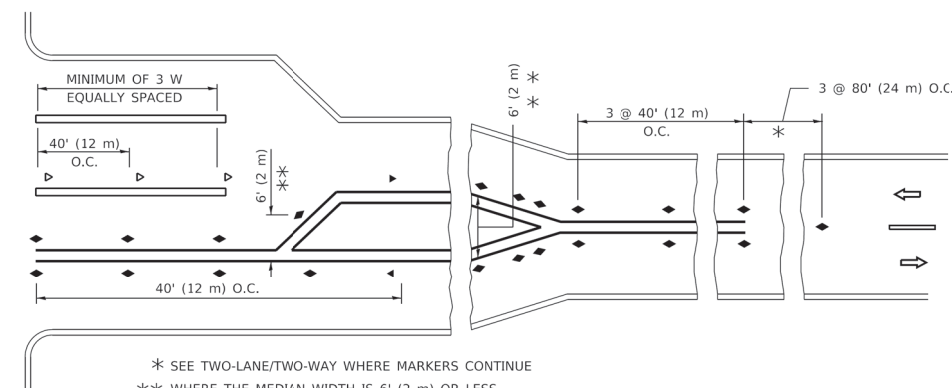
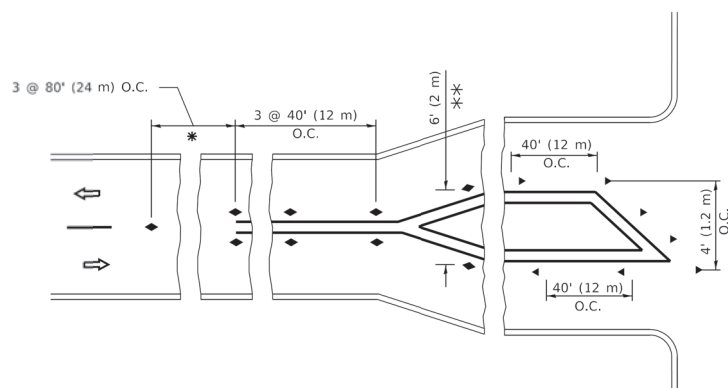
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



TURN LANES

* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

All dimensions are in inches (millimeters) unless otherwise shown.

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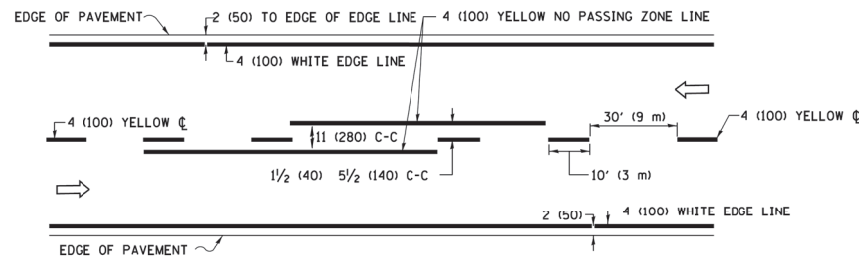
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PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 07-01-13

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

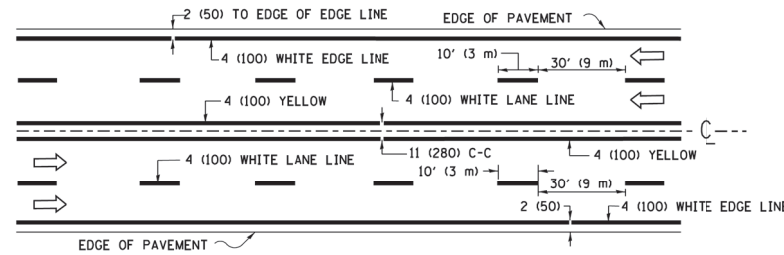
TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

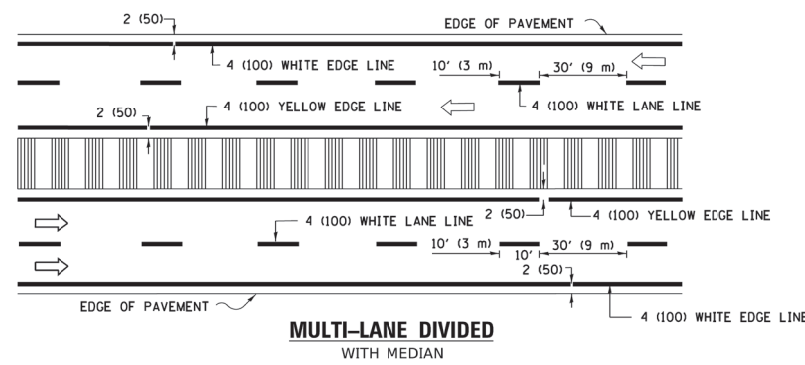
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	17-00166-00-CH	COOK	264	227
TC-11		CONTRACT NO.		
ILLINOIS		FED. AID PROJECT		



2-LANE ROADWAY

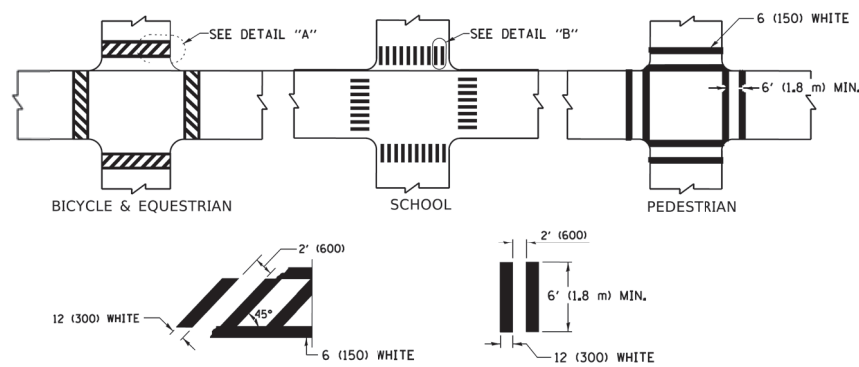


MULTI-LANE UNDIVIDED



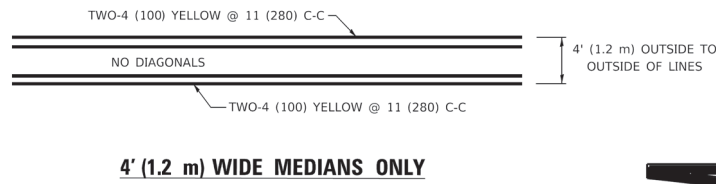
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

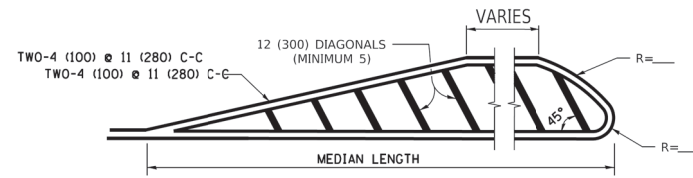


TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

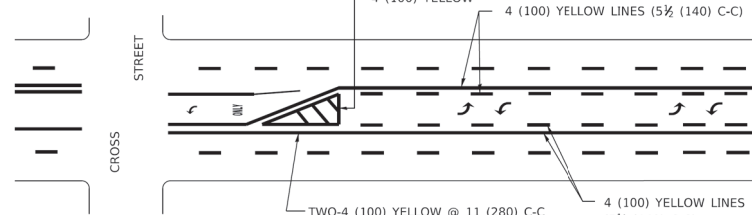


4' (1.2 m) WIDE MEDIANS ONLY



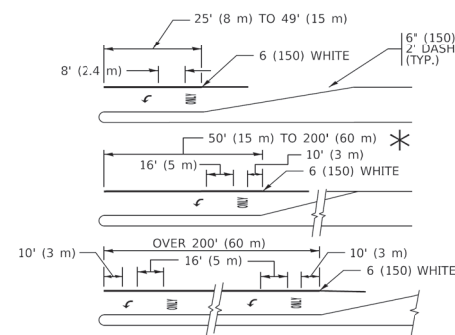
MEDIANS OVER 4' (1.2 m) WIDE

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))



MEDIAN WITH TWO-WAY LEFT TURN LANE

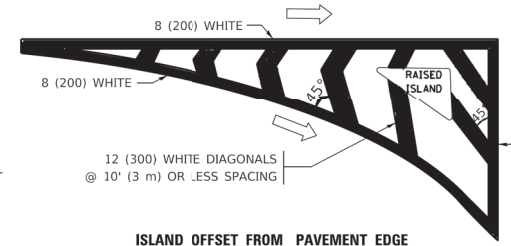
TYPICAL PAINTED MEDIAN MARKING



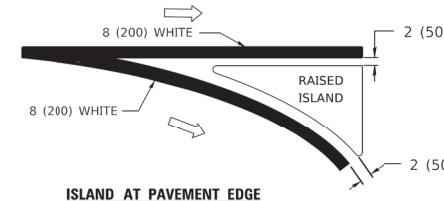
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

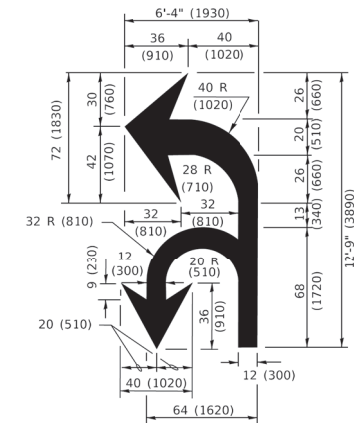


ISLAND OFFSET FROM PAVEMENT EDGE

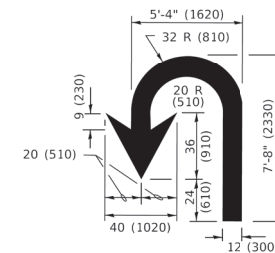


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION
* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE: FULL SIZE LETTERS & SYMBOLS (8" (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8" (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" 15 6" (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS > 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

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PLOT SCALE = 50.0000" / in.	DRAWN -	REVISED - C. JUCIUS 07-01-13
PLOT DATE = 3/4/2019	CHECKED -	REVISED - C. JUCIUS 12-21-15
	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
TYPICAL PAVEMENT MARKINGS**

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTE. 334	SECTION 17-00166-00-CH	COUNTY COOK	TOTAL SHEETS 264	SHEET NO. 228
TC-13		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

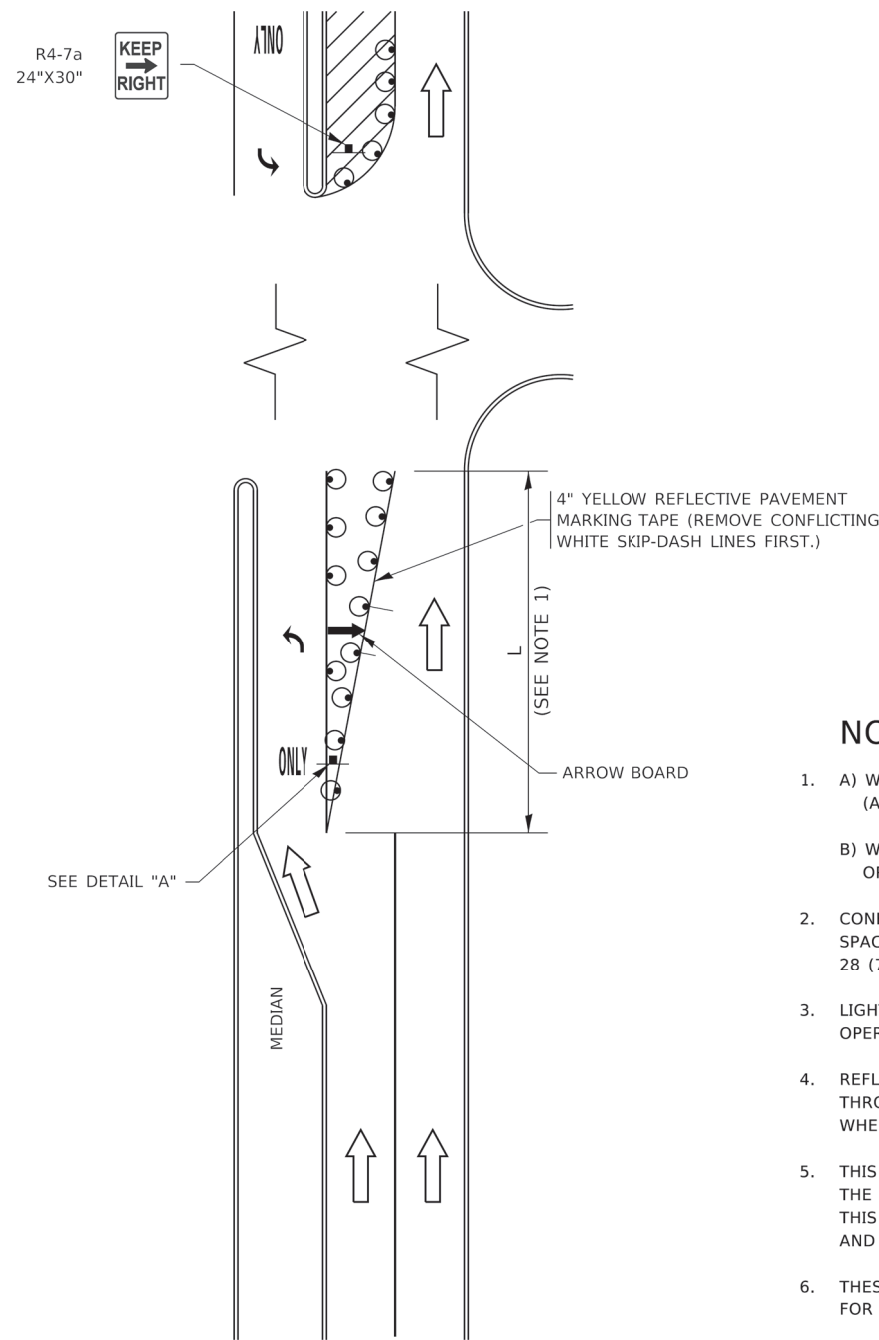


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

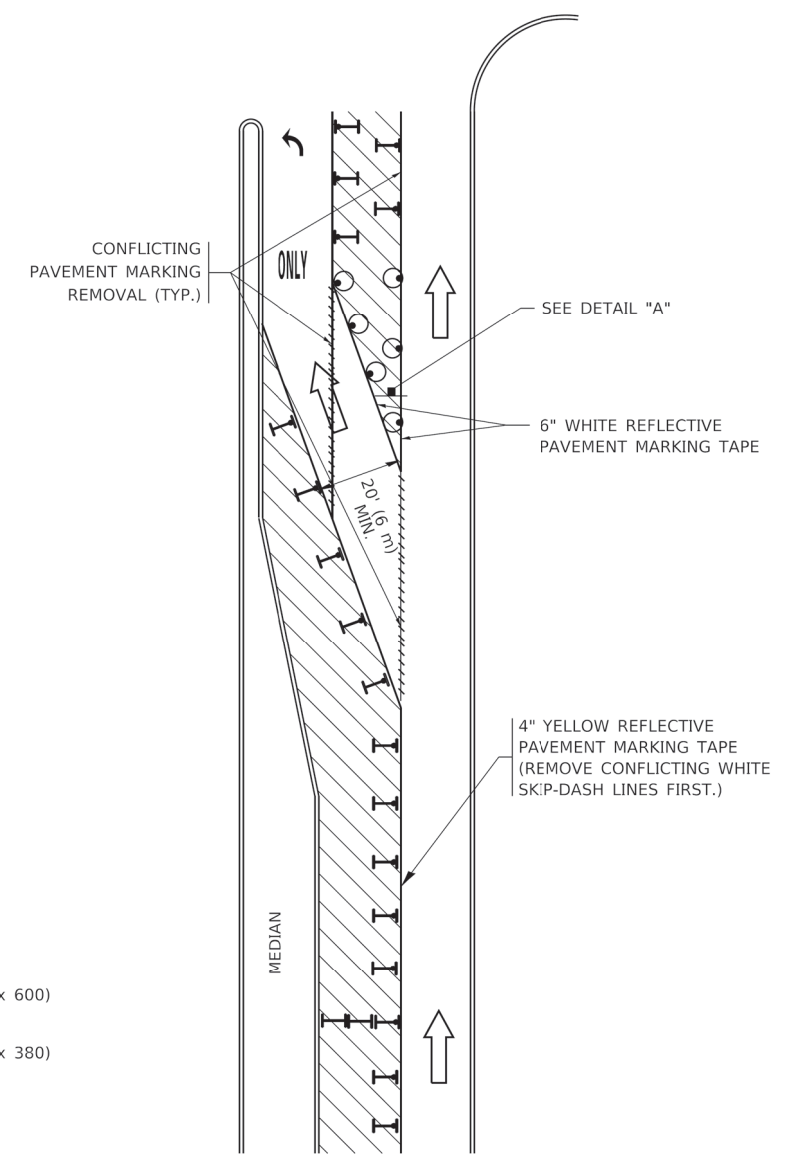
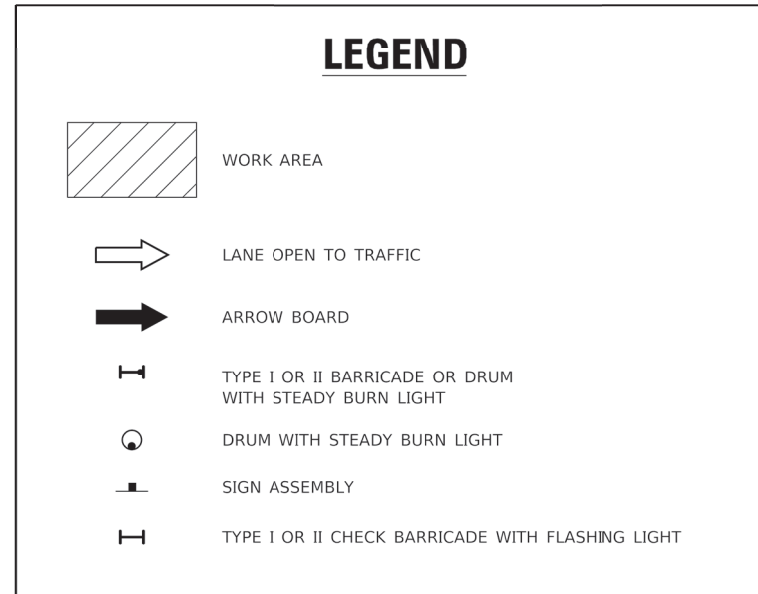
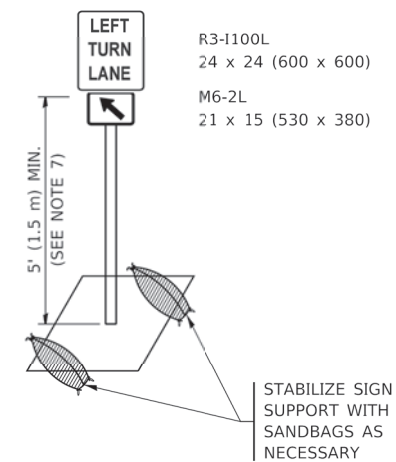


FIGURE 2



NOTES:

1. A) WHEN "L" IS ≤ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



DETAIL A

All dimensions are in inches (millimeters) unless otherwise shown.

MODEL: Default
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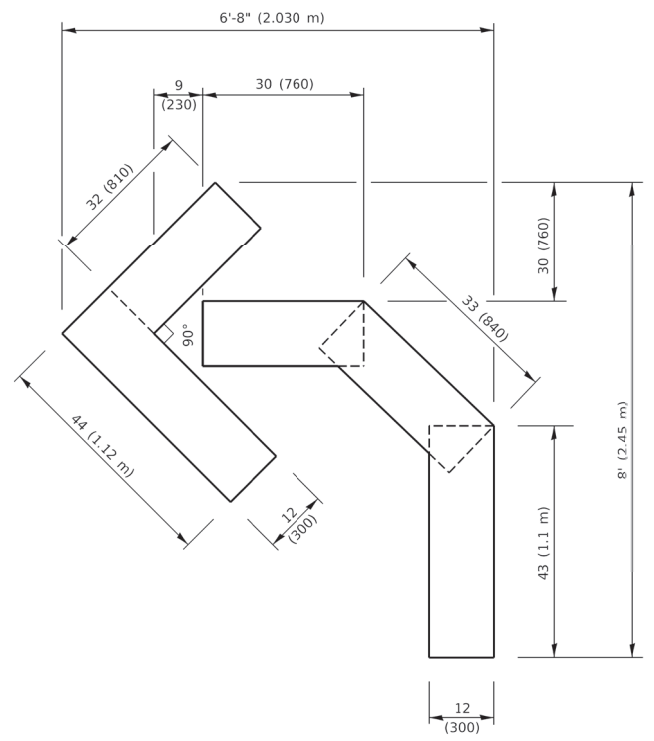
USER NAME = footemj	DESIGNED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 50.0000' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 3/4/2019	DATE - T. RAMMACHER 01-06-00	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)

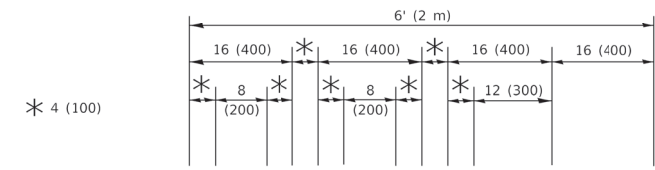
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	17-00166-00-CH	COOK	264	229
TC-14		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				



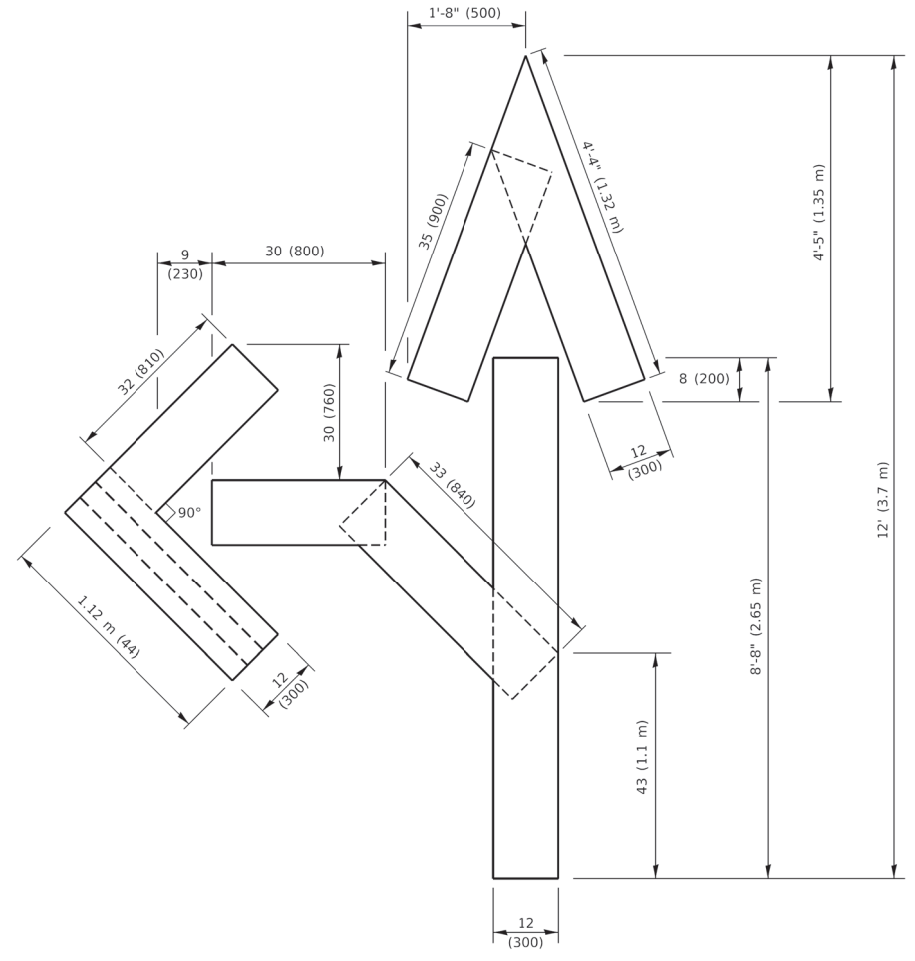
QUANTITY

4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.41 sq. m)



QUANTITY

4 (100) LINE = 64.1 ft. (19.5 m)
21.4 sq. ft. (1.99 sq. m)

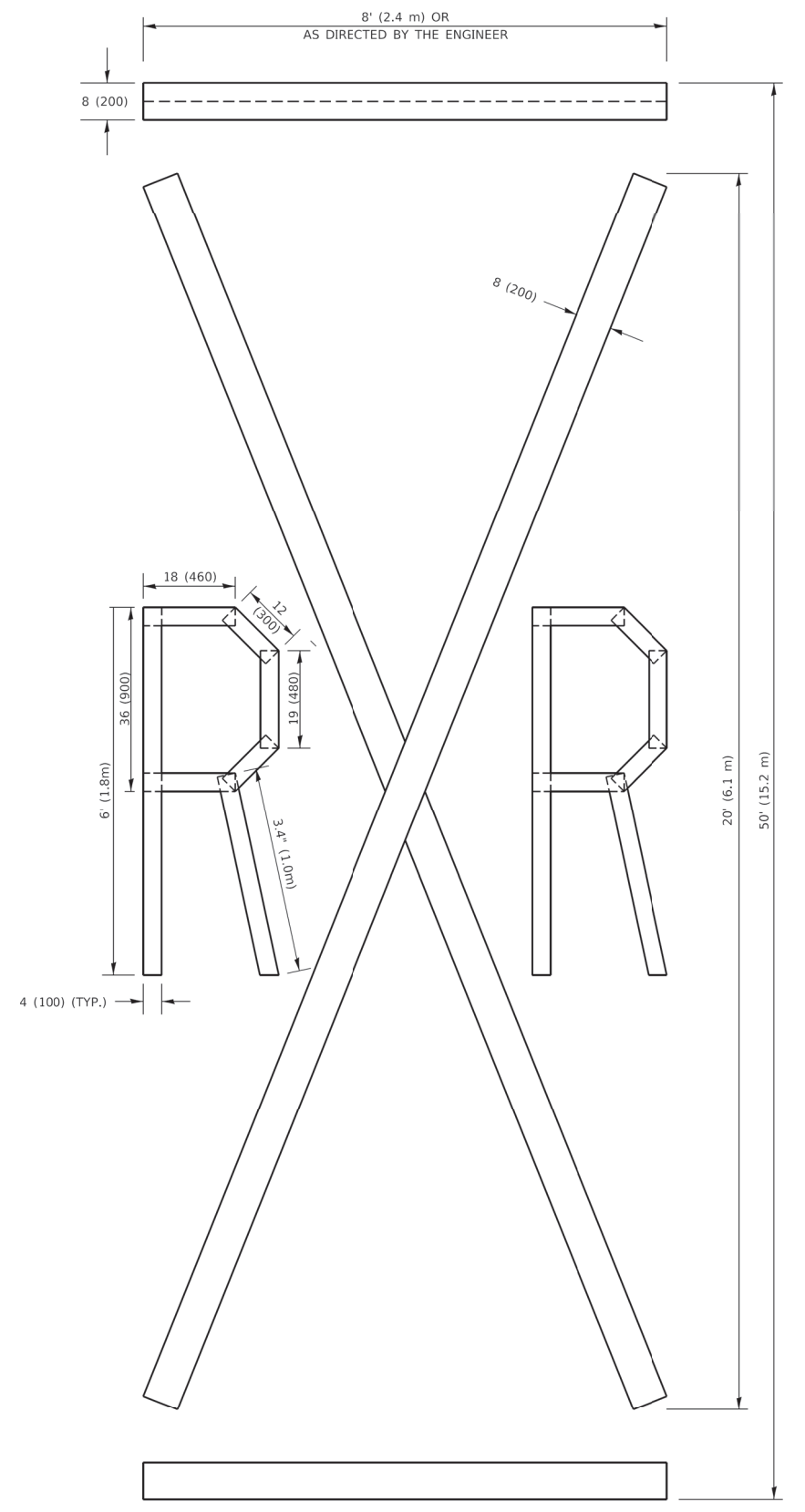


QUANTITY

4 (100) LINE = 82.5 ft. (25.1 m)
27.5 sq. ft. (2.53 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY

4 (100) LINE = 225.9 ft. (68.9 m)
75.3 sq. ft. (6.99 sq. m)

All dimensions are in inches (millimeters) unless otherwise shown.

MODEL: Default
FILE NAME: \\p11108\FEBID\IT\EG.Illinois.gov\PIWDOT\Documents\11DOT_Offices\DI\atfct_1\projects\DI\HS2724\CAD\DWG\CAD\Sheet16.dwg

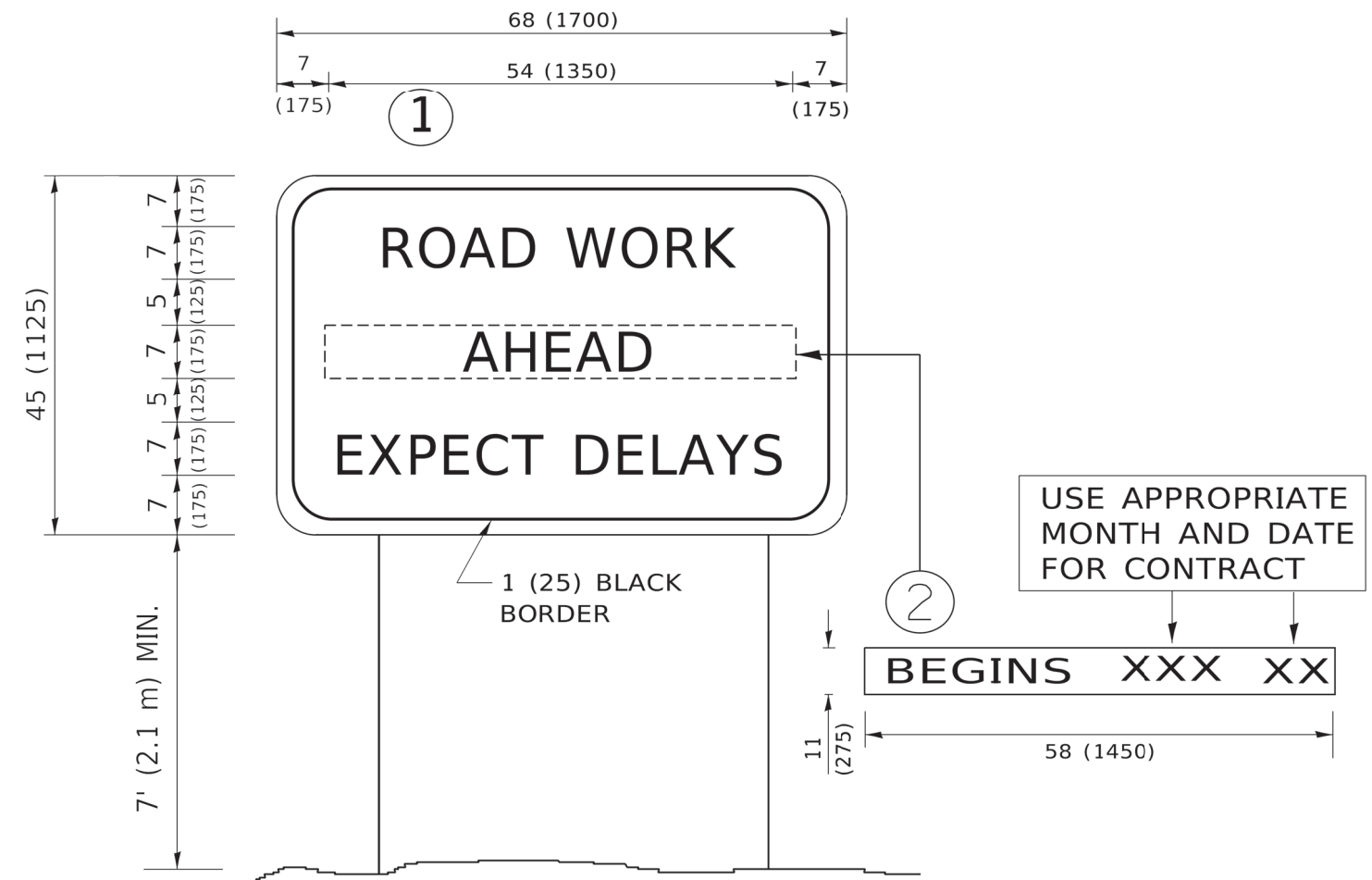
USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-02-98
PLOT SCALE = 50.0068 ' / in.	DRAWN -	REVISED - E. GOMEZ 08-28-00
PLOT DATE = 3/4/2019	CHECKED -	REVISED - E. GOMEZ 08-28-00
	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	17-00166-00-CH	COOK	264	230
TC-16			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

MODEL: Default
FILE NAME: P:\ILLINOIS\BIDDING\Illinois.gov-PWIDOT\Documents\DOT_Offices\District_1\Projects\DH154273\1\CAD\Drawings\CADsheets\TC22.dgn

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	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

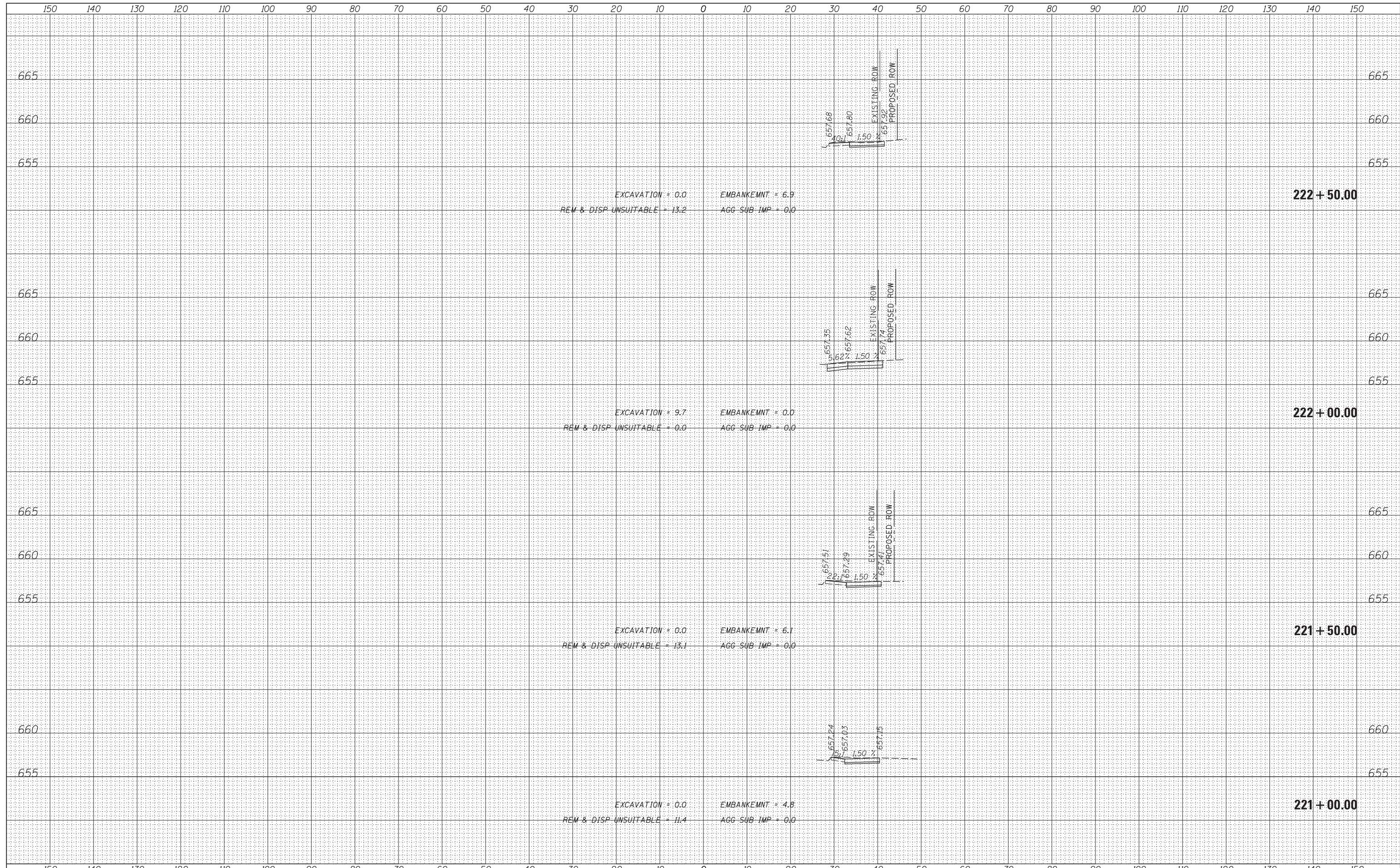
**ARTERIAL ROAD
INFORMATION SIGN**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	17-00166-00-CH	COOK	264	231
TC-22			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

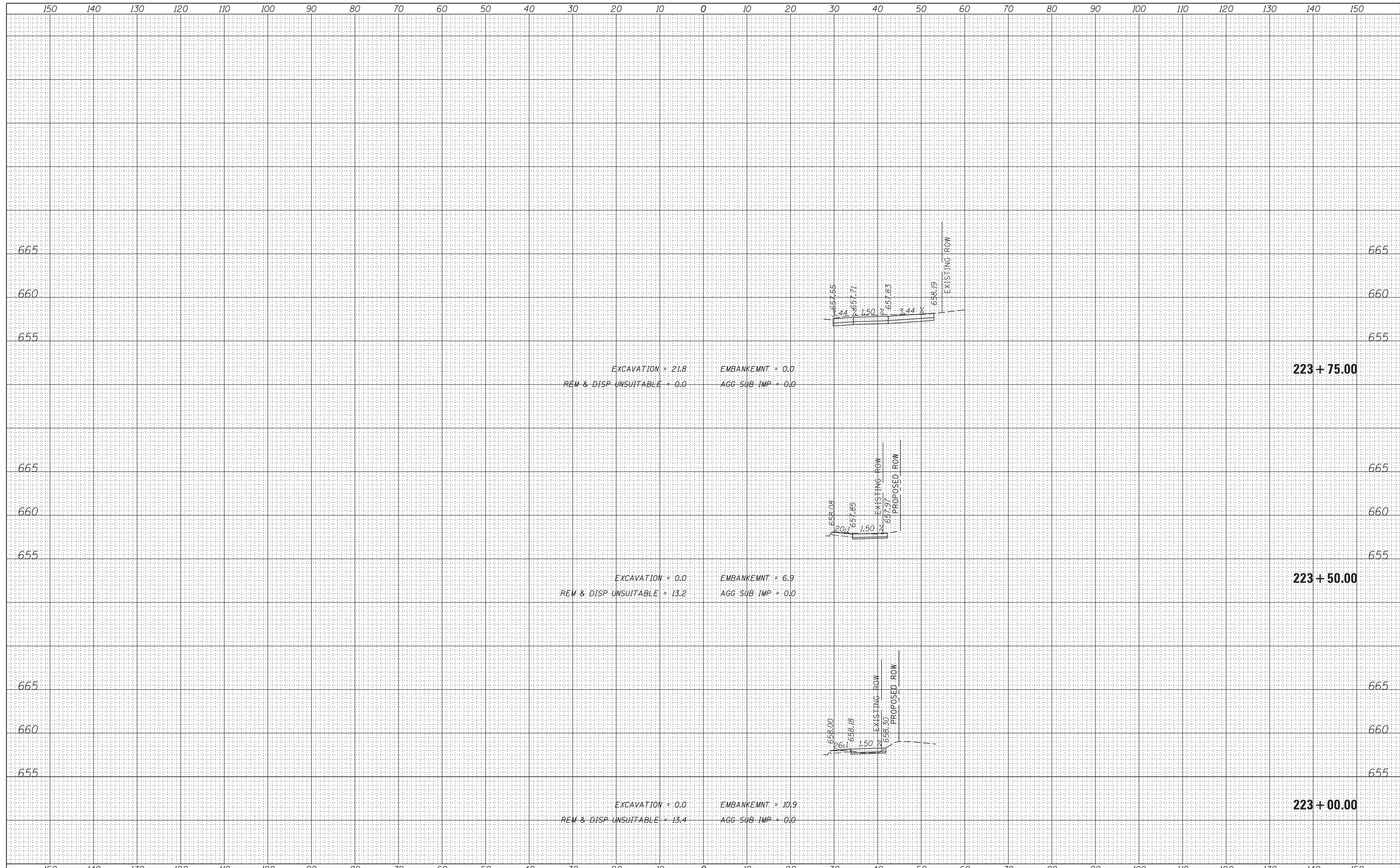
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



FILE NAME =	USER NAME = rhowellindgren	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RAND ROAD CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\MOUNTPROSPECT\200015\Civil\PX5..200015_RAND.SHT	PLOT SCALE = 10'	DRAWN -	REVISED -			334	17-00166-00-CH	COOK	264	232
Default	PLOT DATE = 3/10/2022	CHECKED -	REVISED -			CONTRACT NO. 61H44		ILLINOIS FED. AID PROJECT		
		DATE -	REVISED -			SCALE:	SHEET 1 OF 33 SHEETS	STA. 221+00.00	TO STA. 222+50.00	

DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

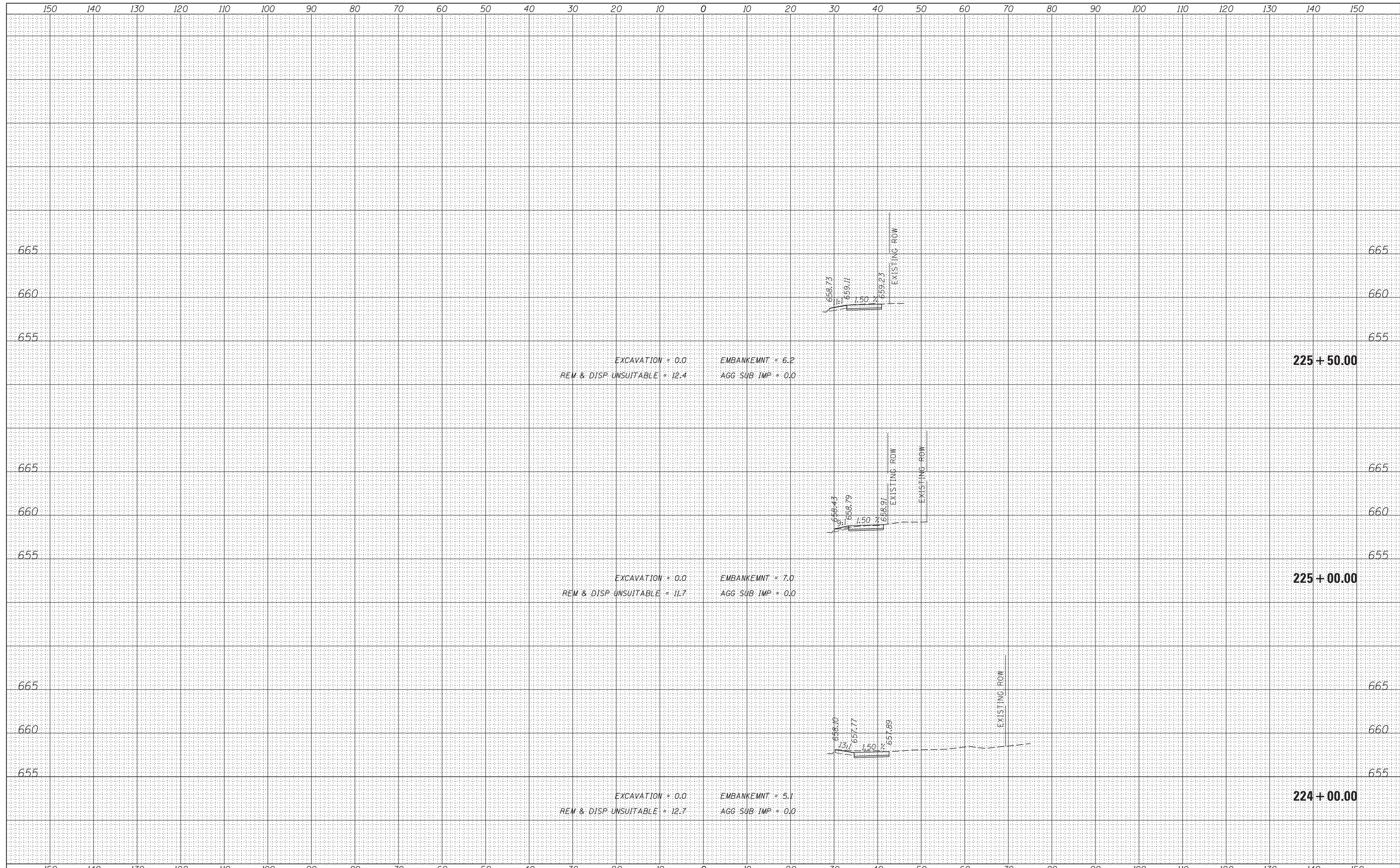
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BY	
ORIGINAL SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME =	USER NAME = rhowellindgren	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RAND ROAD CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
N:\MOUNTPROSPECT\200015\Civil\PX5_200015_RAND.SHT		DRAWN -	REVISED -			334	17-00166-00-CH	COOK	264	233	
Default	PLOT SCALE = 10'	CHECKED -	REVISED -			CONTRACT NO. 61H44		ILLINOIS FED. AID PROJECT			
	PLOT DATE = 3/10/2022	DATE -	REVISED -			SCALE:	SHEET 2 OF 33 SHEETS	STA. 223+00.00 TO STA. 223+75.00			

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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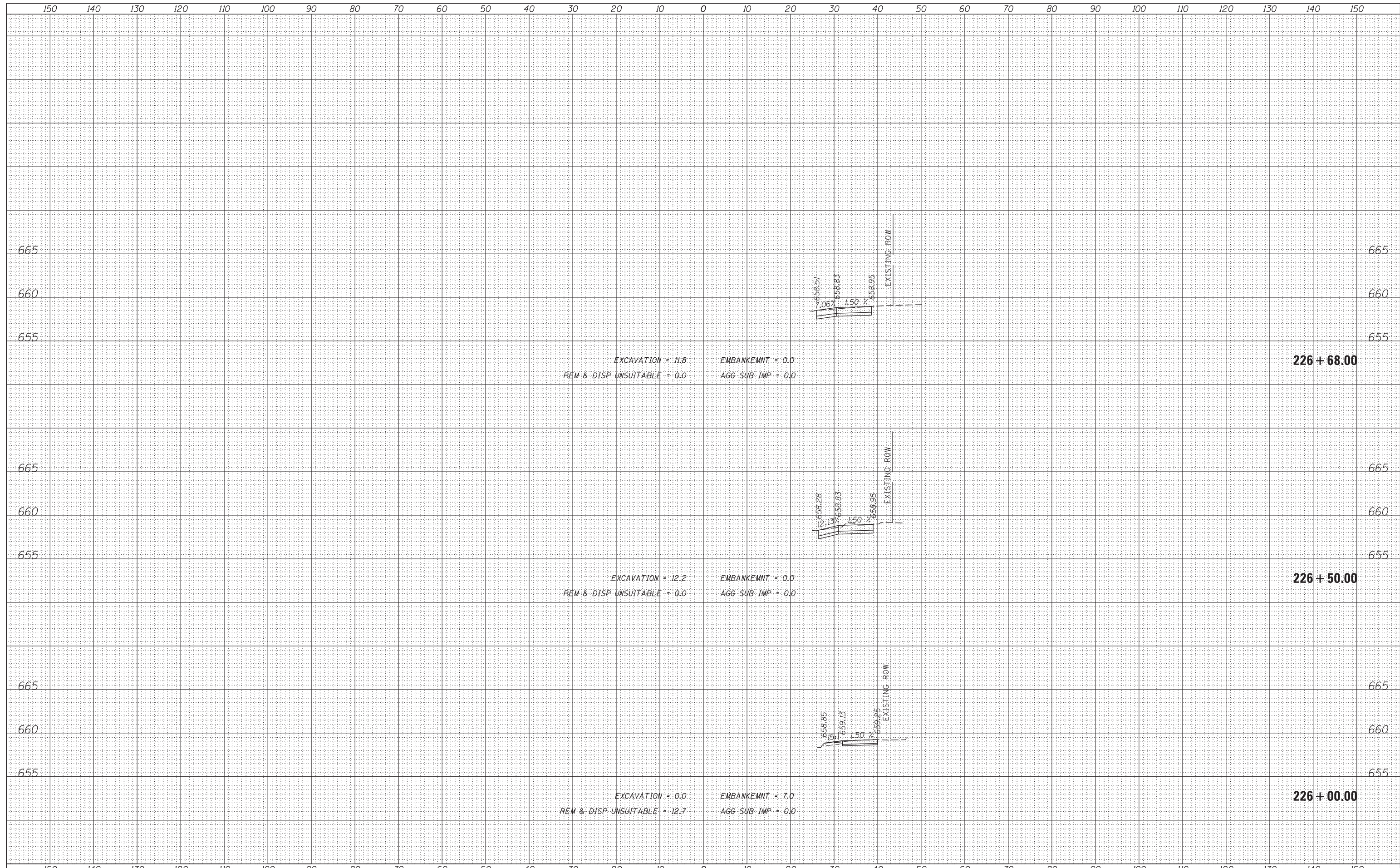
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TEMPLATE	
NOTE BOOK	
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FILE NAME =	USER NAME = rhowellindgren	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RAND ROAD CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\MOUNTPROSPECT\200015\Civil\PX5_200015_RAND.SHT		DRAWN -	REVISED -			334	17-00166-00-CH	COOK	264	234
Default	PLOT SCALE = 10'	CHECKED -	REVISED -			CONTRACT NO. 61H44		ILLINOIS FED. AID PROJECT		
	PLOT DATE = 3/10/2022	DATE -	REVISED -			SCALE:	SHEET 3 OF 33 SHEETS	STA. 224+00.00 TO STA. 225+50.00		

DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
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ORIGINAL SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



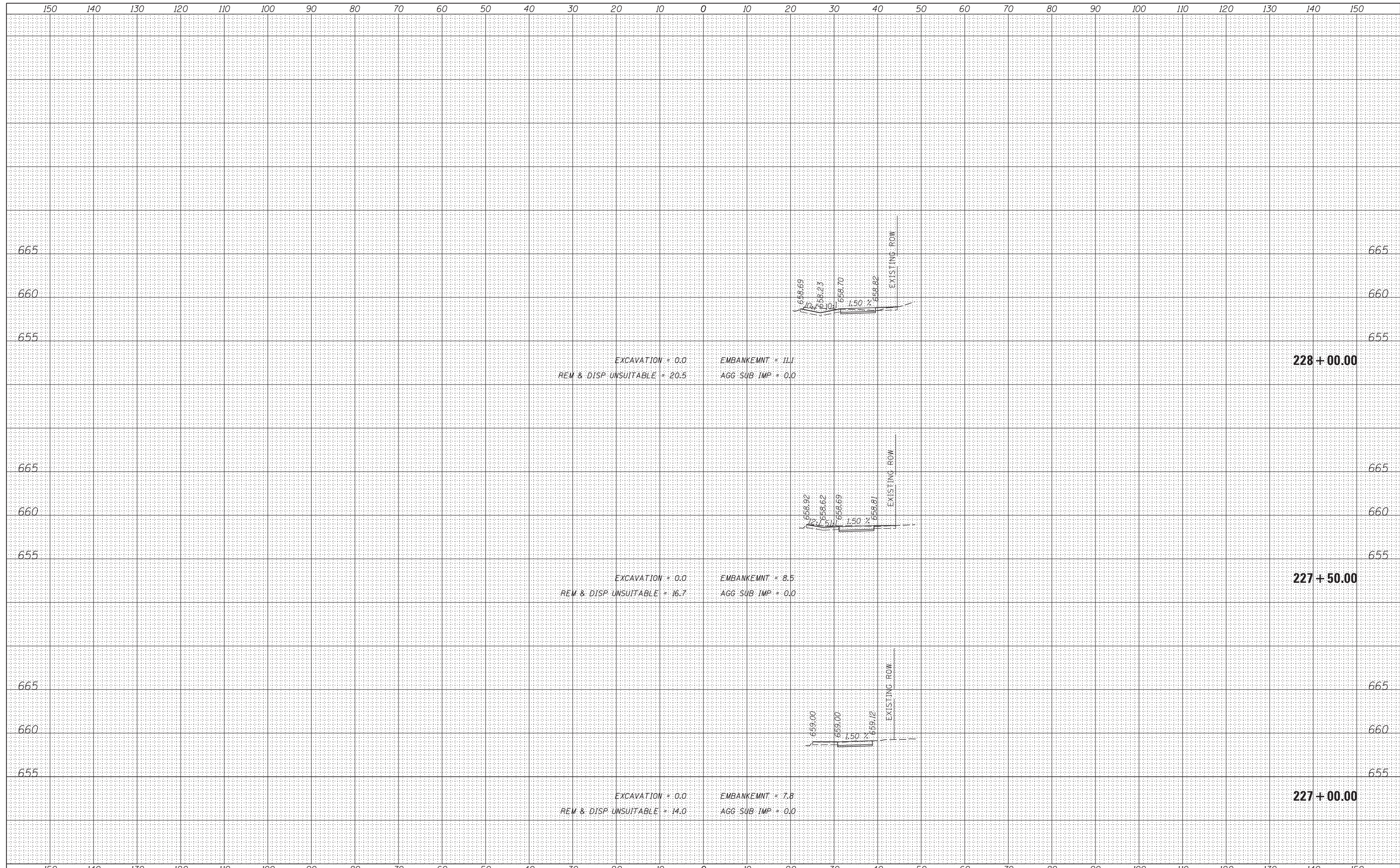
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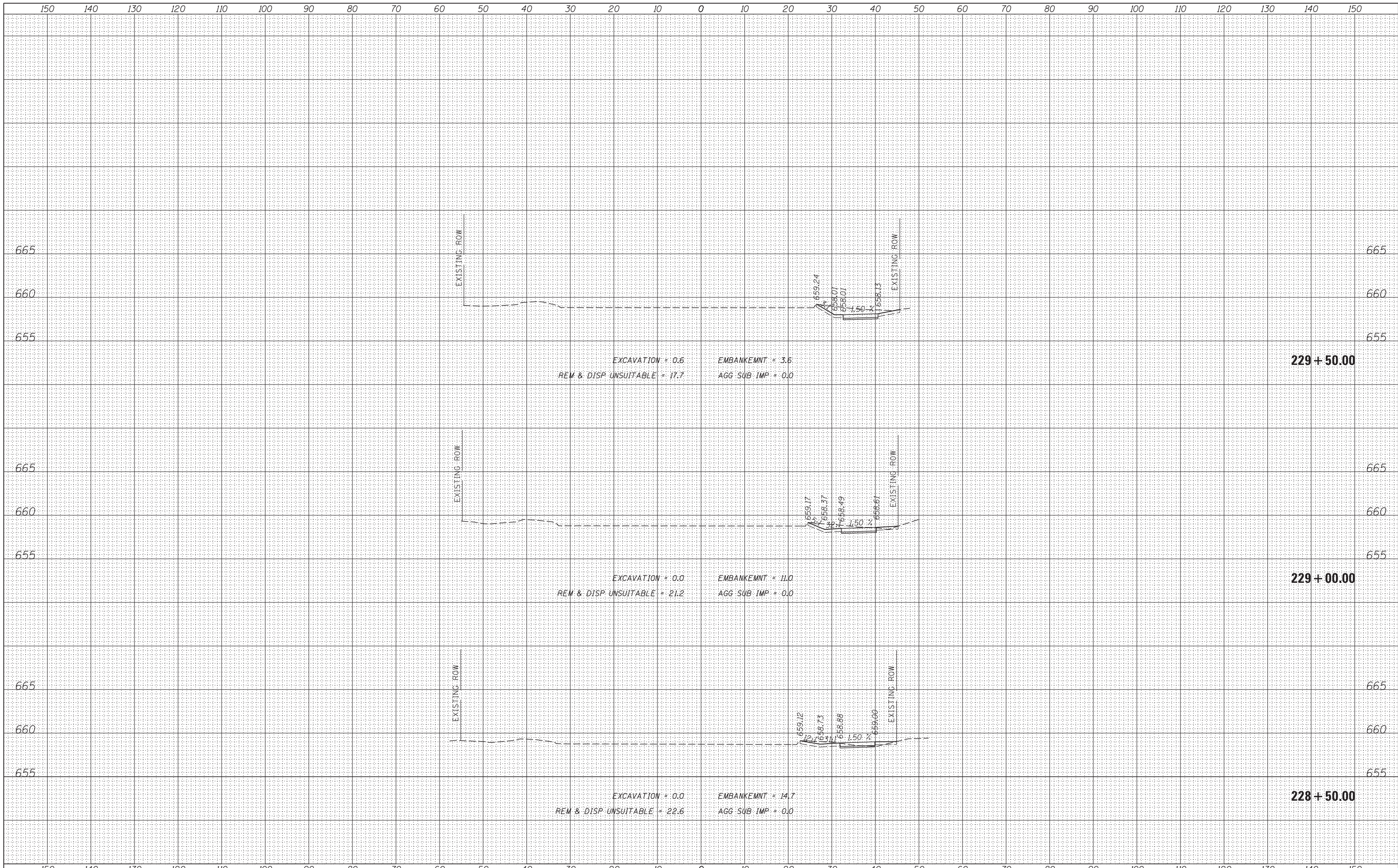
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 REM & DISP UNSUITABLE = 0.0 AGG SUB IMP = 0.0

EXCAVATION = 0.0 EMBANKMENT = 7.0
 REM & DISP UNSUITABLE = 12.7 AGG SUB IMP = 0.0

DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	





BY		DATE
FINAL SURVEY	SURVEYED	
NOTE BOOK NO.	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

BY		DATE
ORIGINAL SURVEY	SURVEYED	
NOTE BOOK NO.	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

EXCAVATION = 0.6
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 AGG SUB IMP = 0.0

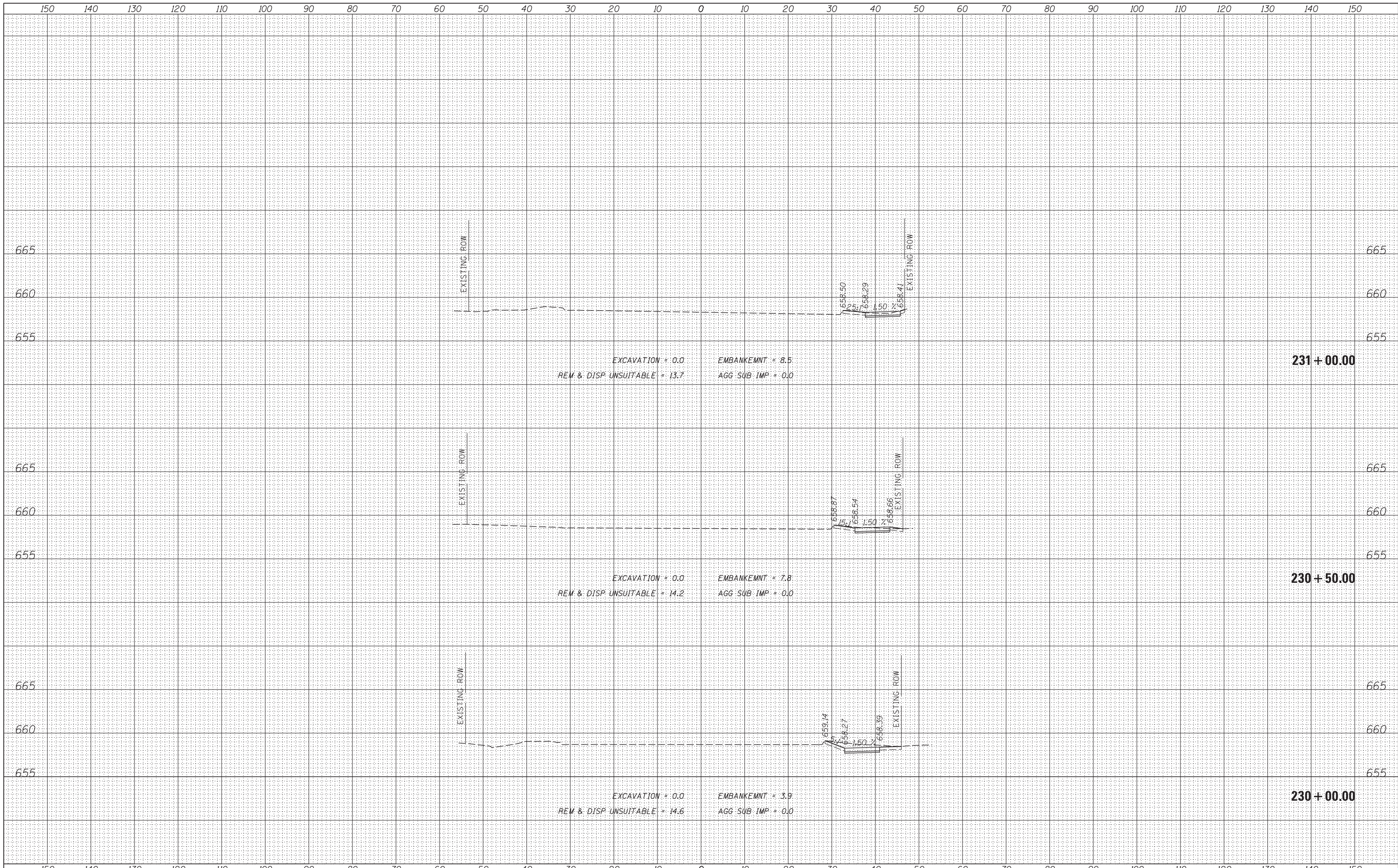
229 + 50.00

EXCAVATION = 0.0
 REM & DISP UNSUITABLE = 21.2
 EMBANKMENT = 11.0
 AGG SUB IMP = 0.0

229 + 00.00

EXCAVATION = 0.0
 REM & DISP UNSUITABLE = 22.6
 EMBANKMENT = 14.7
 AGG SUB IMP = 0.0

228 + 50.00



DATE	
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PLOTTED	
TEMPLATE	
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FINAL SURVEY NOTE BOOK NO.	

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BY	
SURVEYED	
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ORIGINAL SURVEY NOTE BOOK NO.	

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USER NAME = rhowellindgren	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10'	CHECKED -	REVISED -
PLOT DATE = 3/10/2022	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

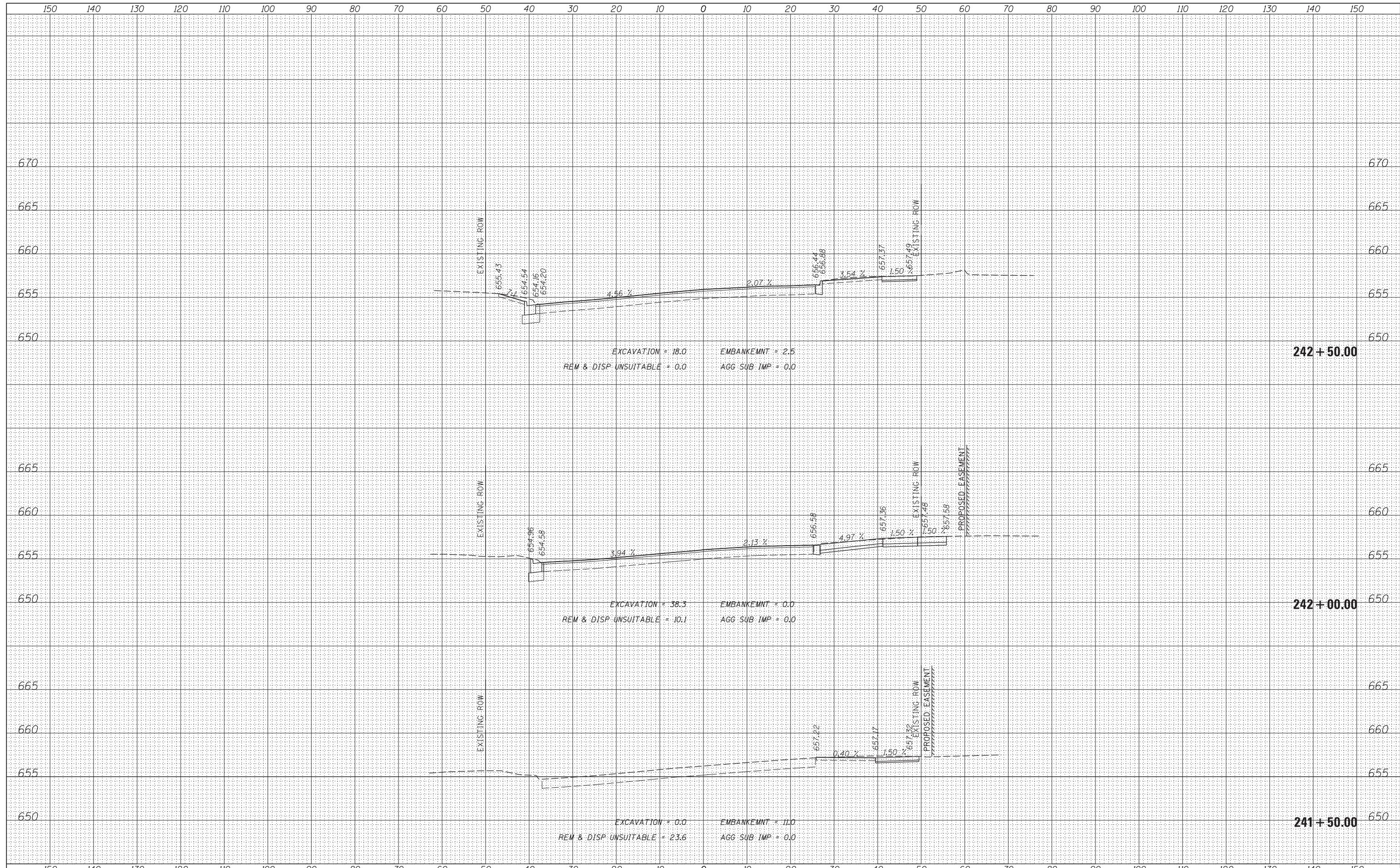
**RAND ROAD
 CROSS SECTIONS**

SCALE: SHEET 7 OF 33 SHEETS STA. 230+00.00 TO STA. 231+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	17-00166-00-CH	COOK	264	238
CONTRACT NO. 61H44				
ILLINOIS FED. AID PROJECT				

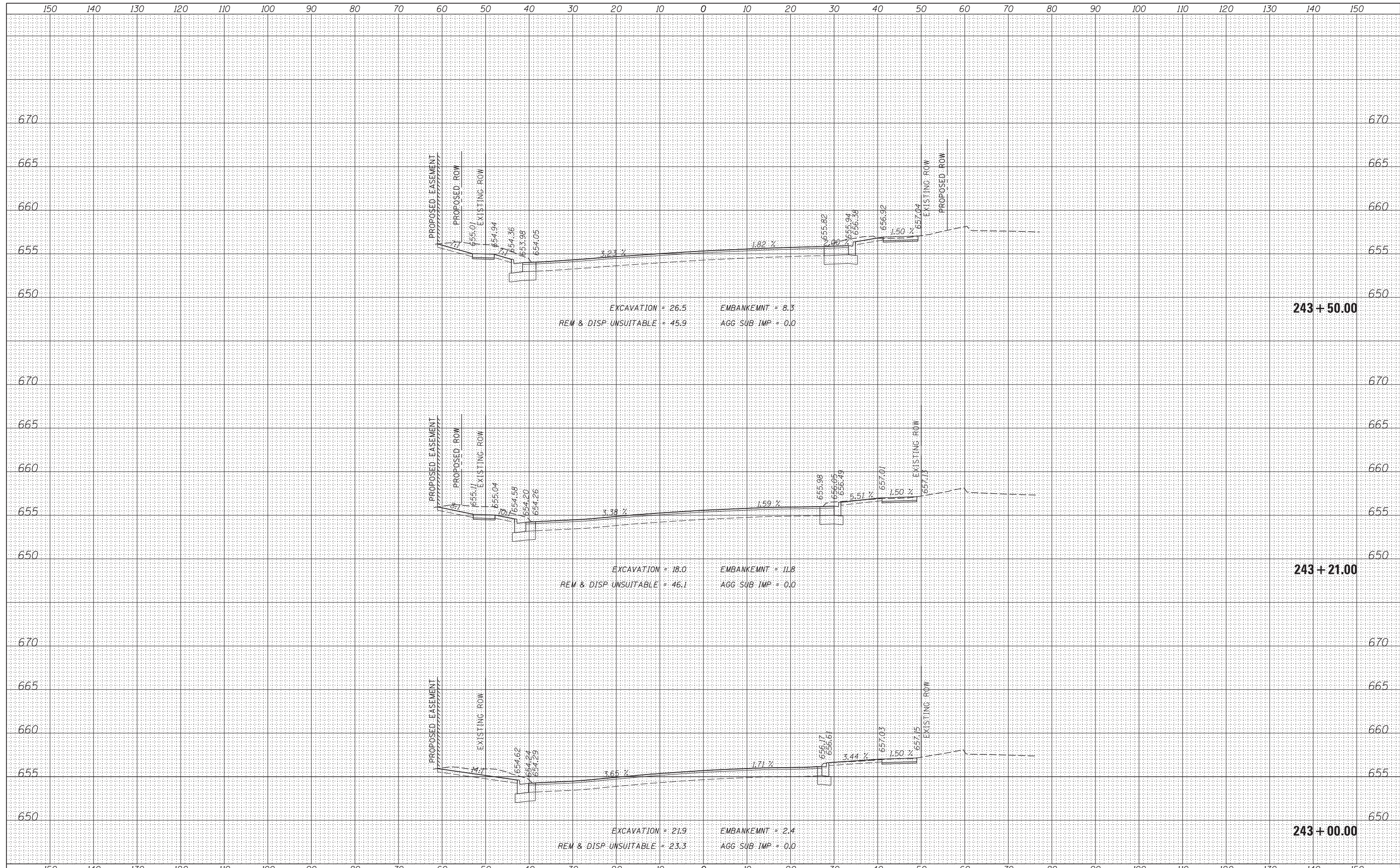
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DATE	
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TEMPLATE	
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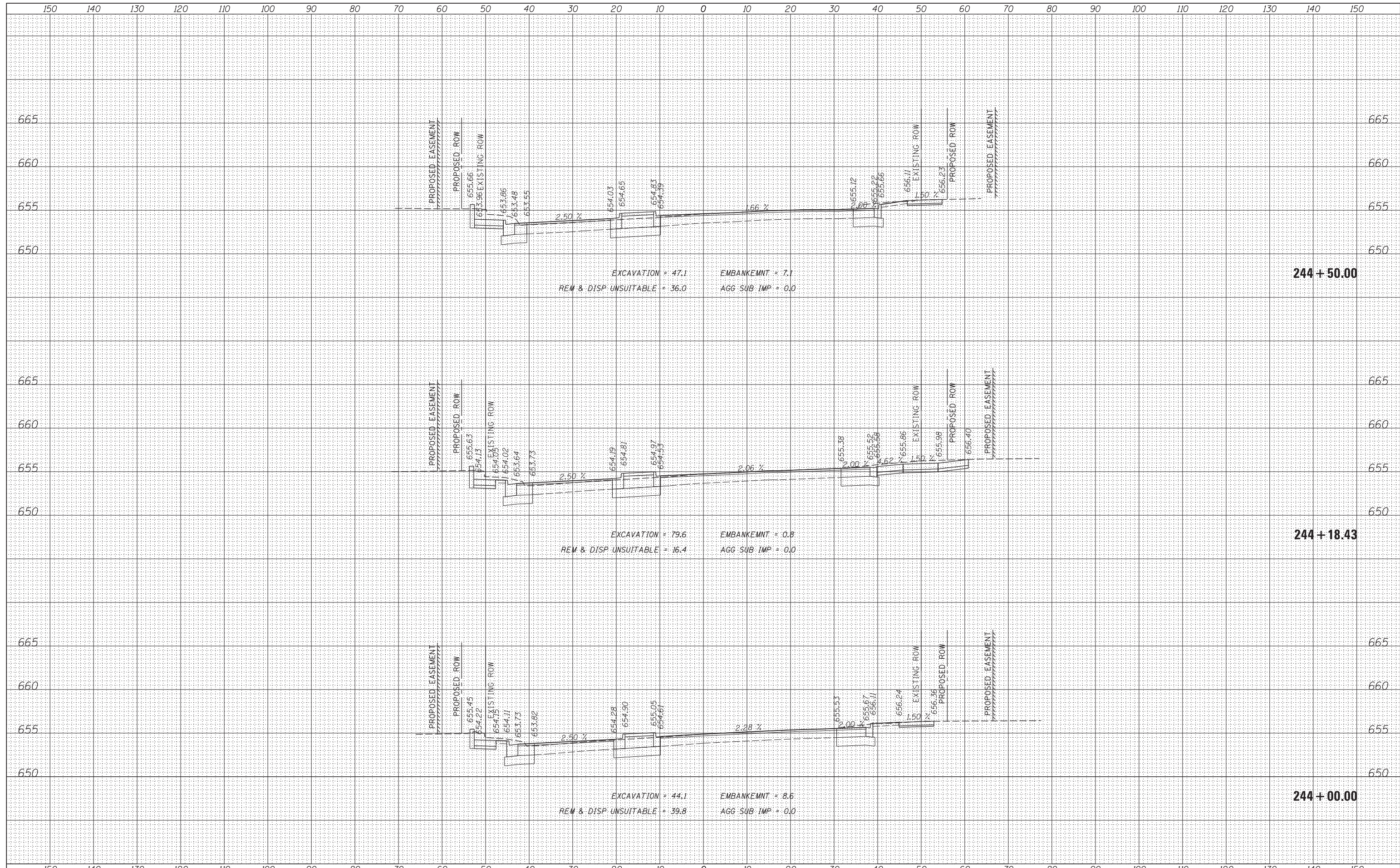
DATE	
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FINISHED SURVEY	
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ORIGINAL SURVEY	
NOTE BOOK	
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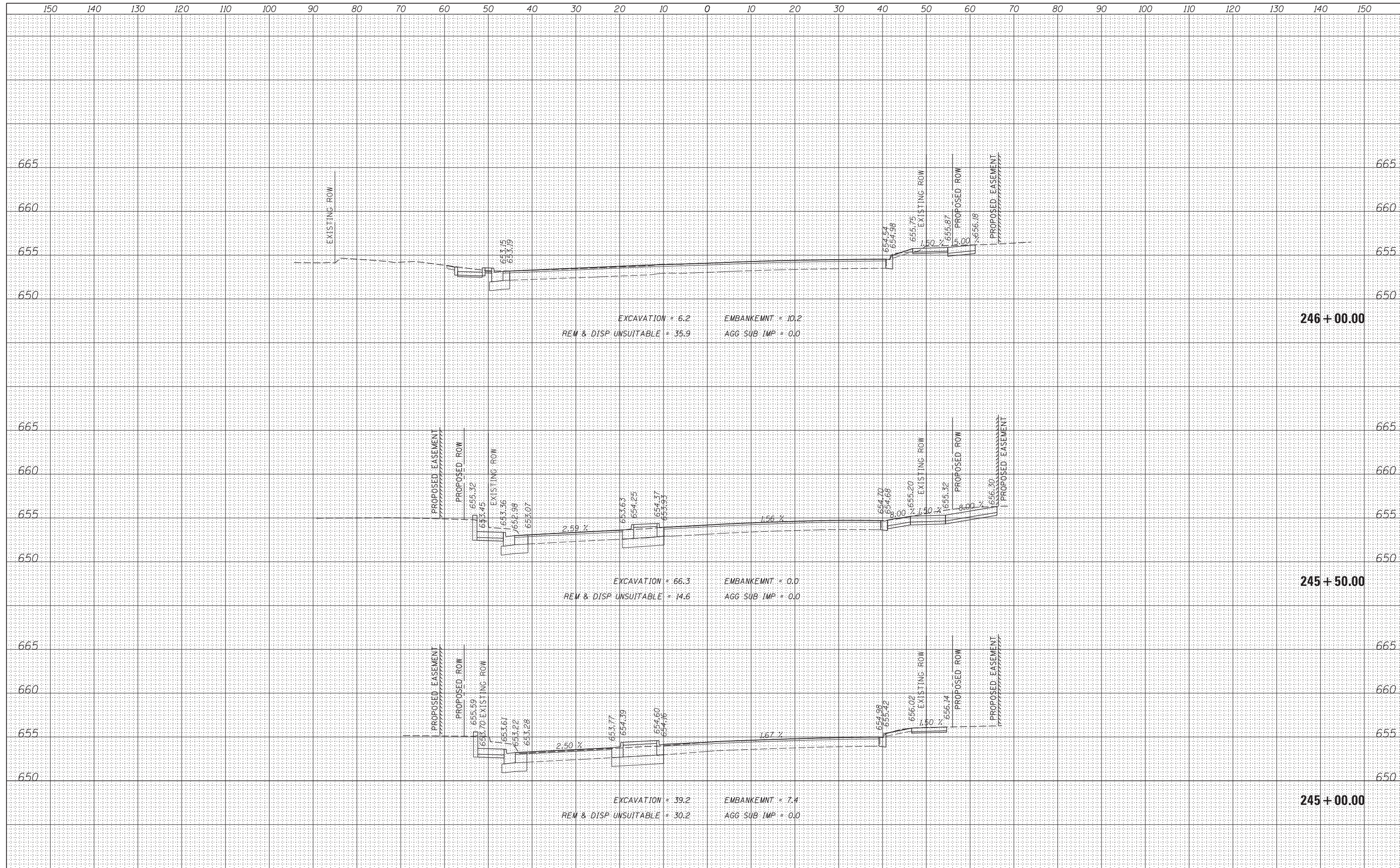
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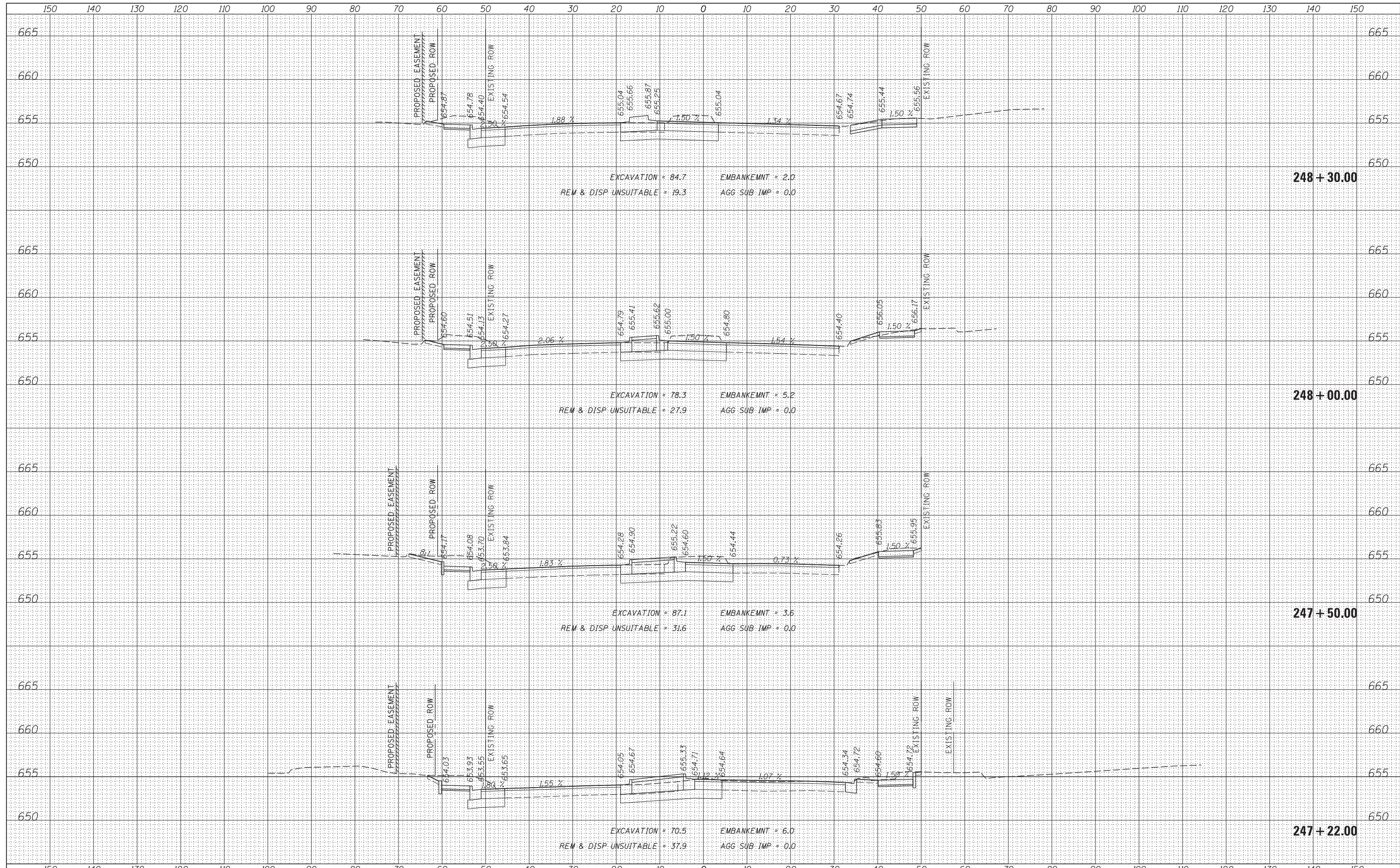
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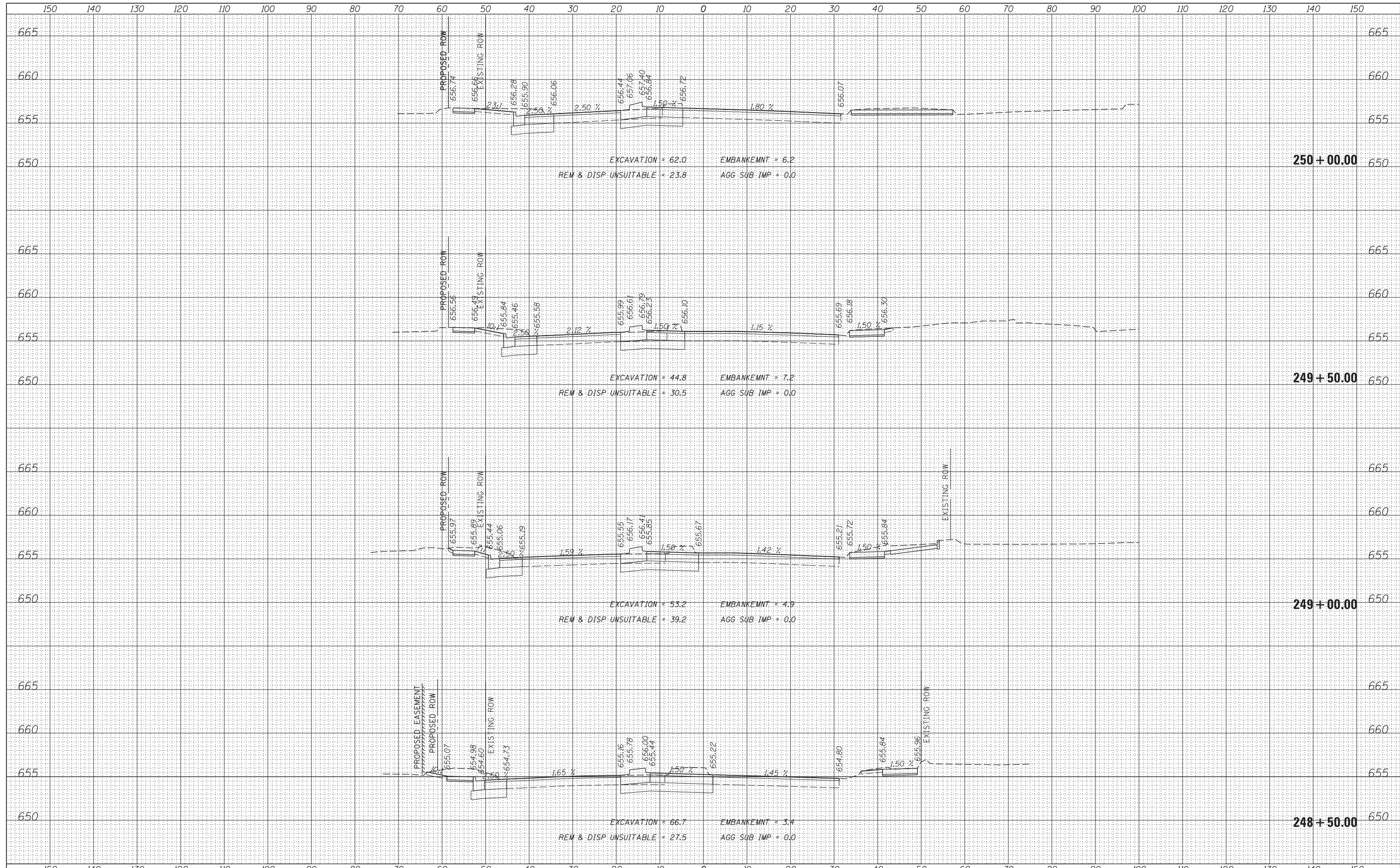
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NOTE BOOK AREAS CHECKED	
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ORIGINAL SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK AREAS CHECKED	
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DATE	BY
FINISHED SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

DATE	BY
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS
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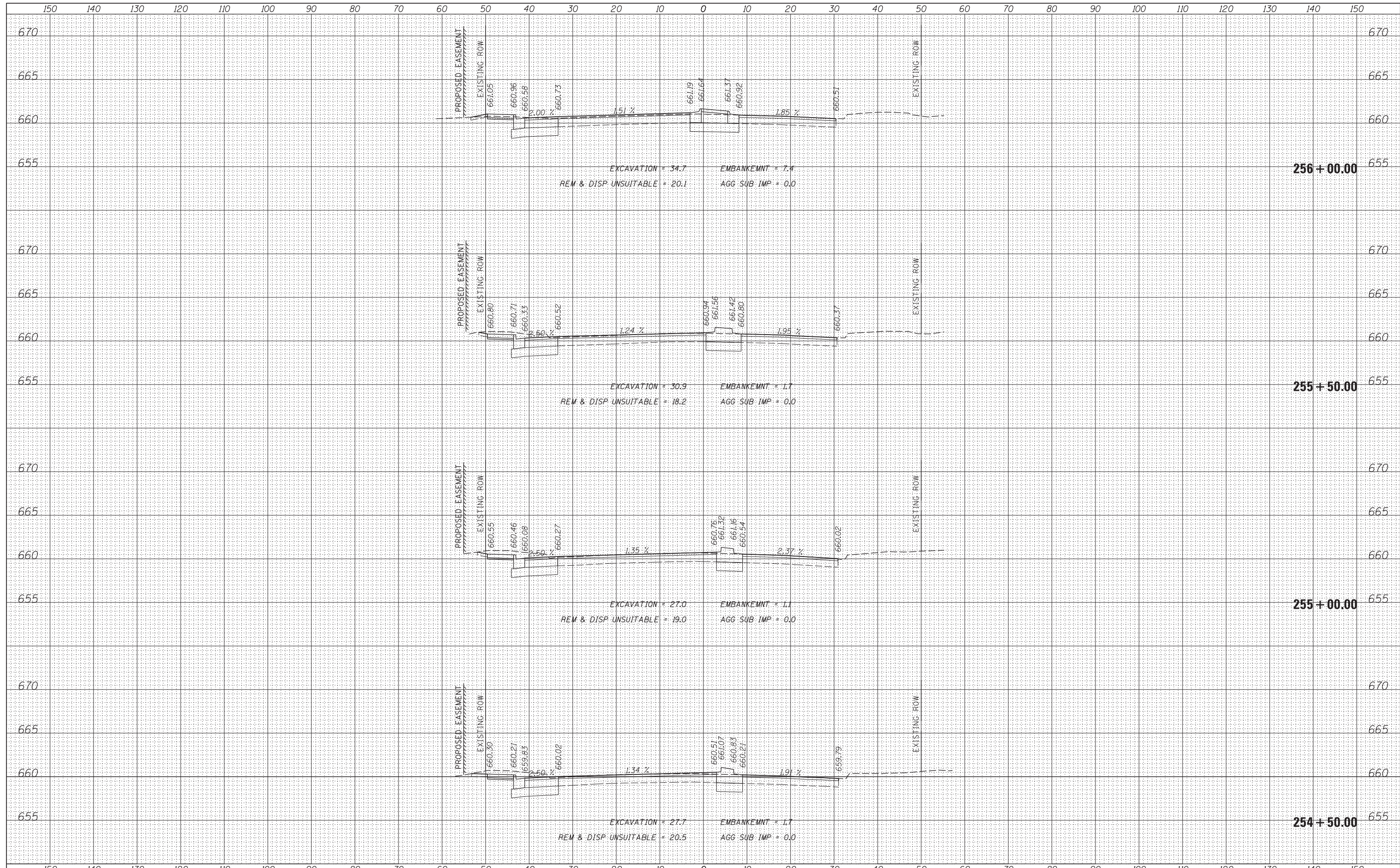


FILE NAME =	USER NAME = rhowellindgren	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RAND ROAD CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\MOUNTPROSPECT\200015\Civil\PX5_200015_RAND.SHT		DRAWN -	REVISED -			334	17-00166-00-CH	COOK	264	245
Default	PLOT SCALE = 10'	CHECKED -	REVISED -			CONTRACT NO. 61H44				
	PLOT DATE = 3/10/2022	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

SCALE: SHEET 14 OF 33 SHEETS STA. 248+50.00 TO STA. 250+00.00

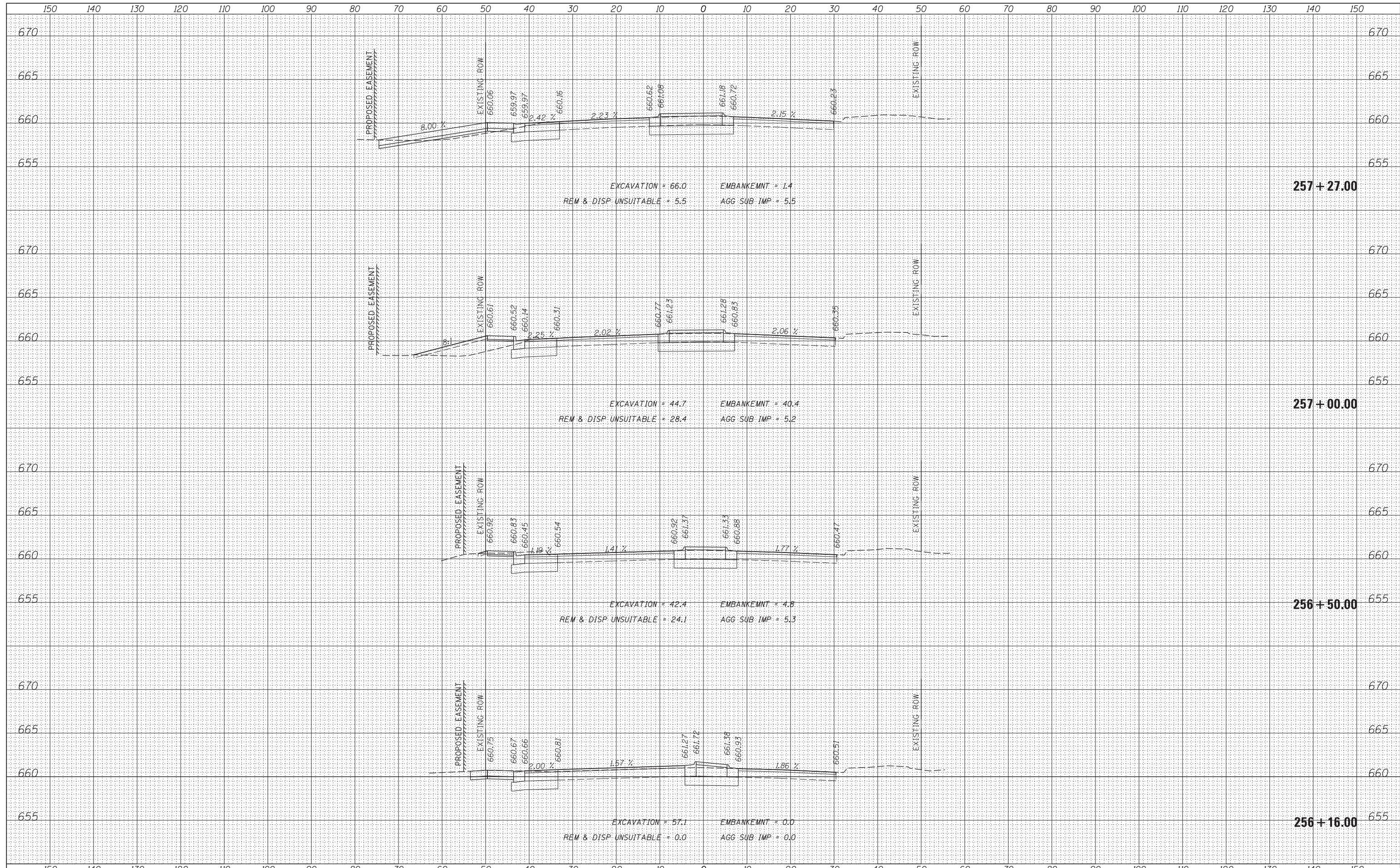
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PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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DATE	
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ORIGINAL SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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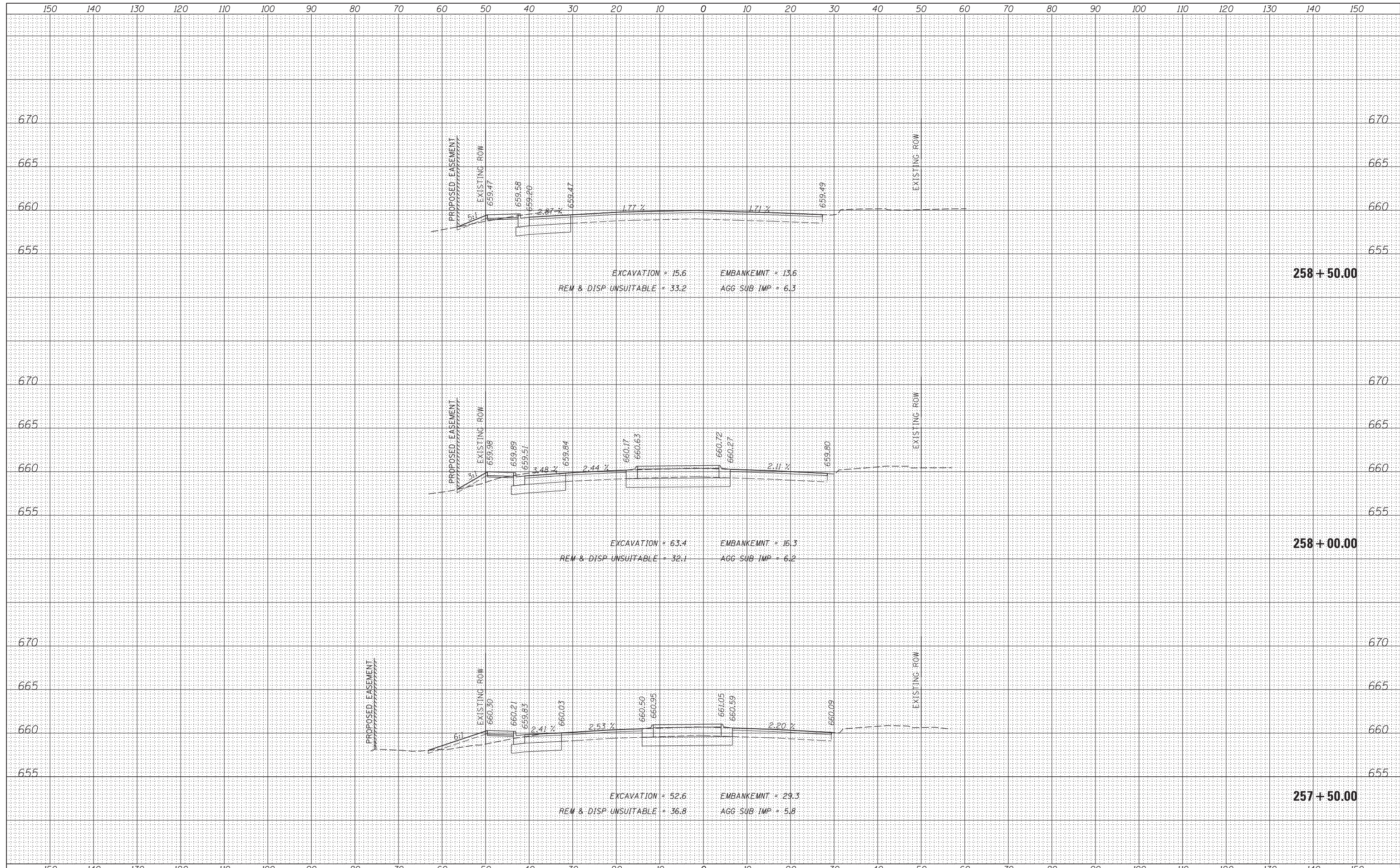
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FINL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



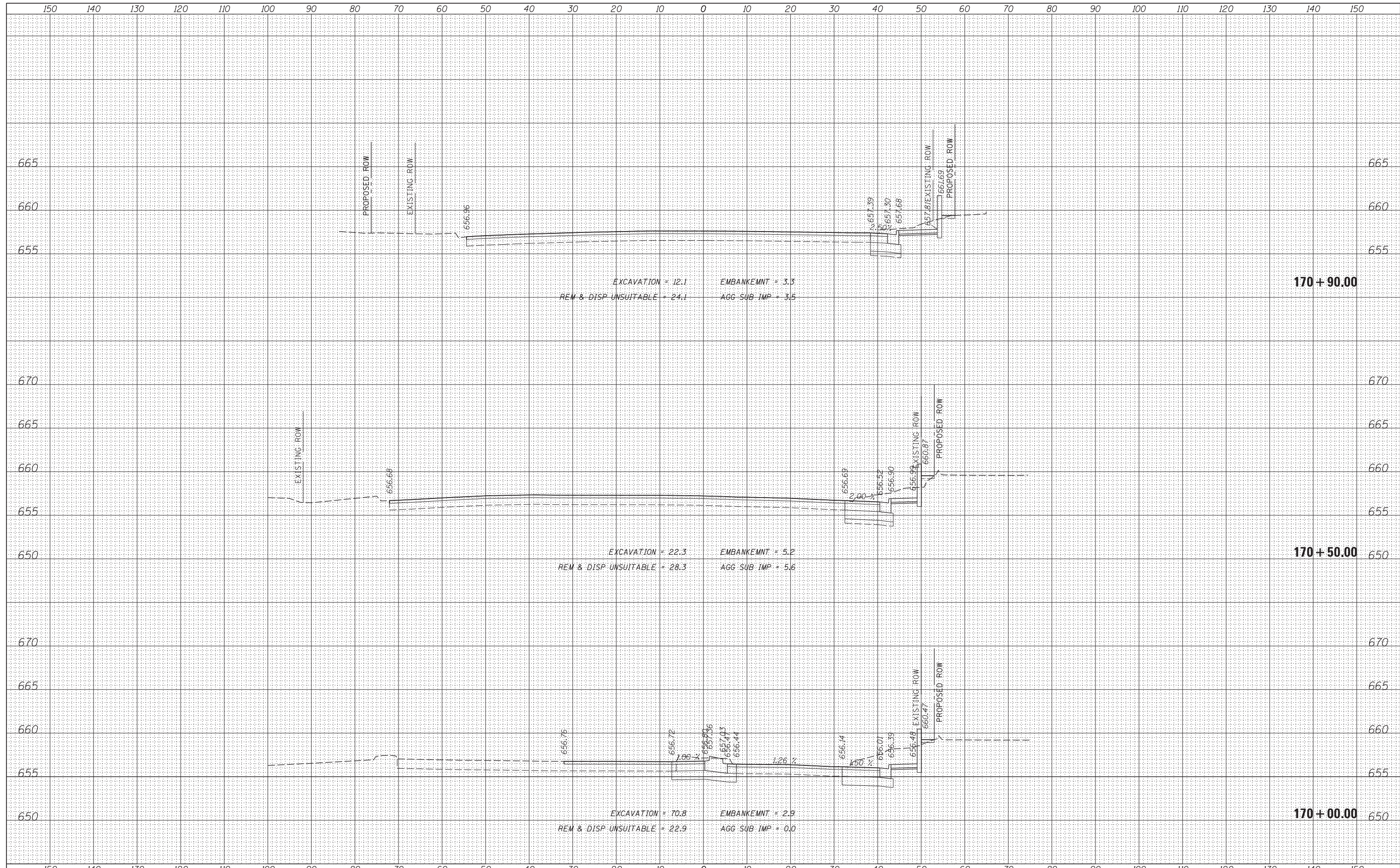
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TEMPLATE	
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DATE	
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SURVEYED	
PLOTTED	
TEMPLATE	
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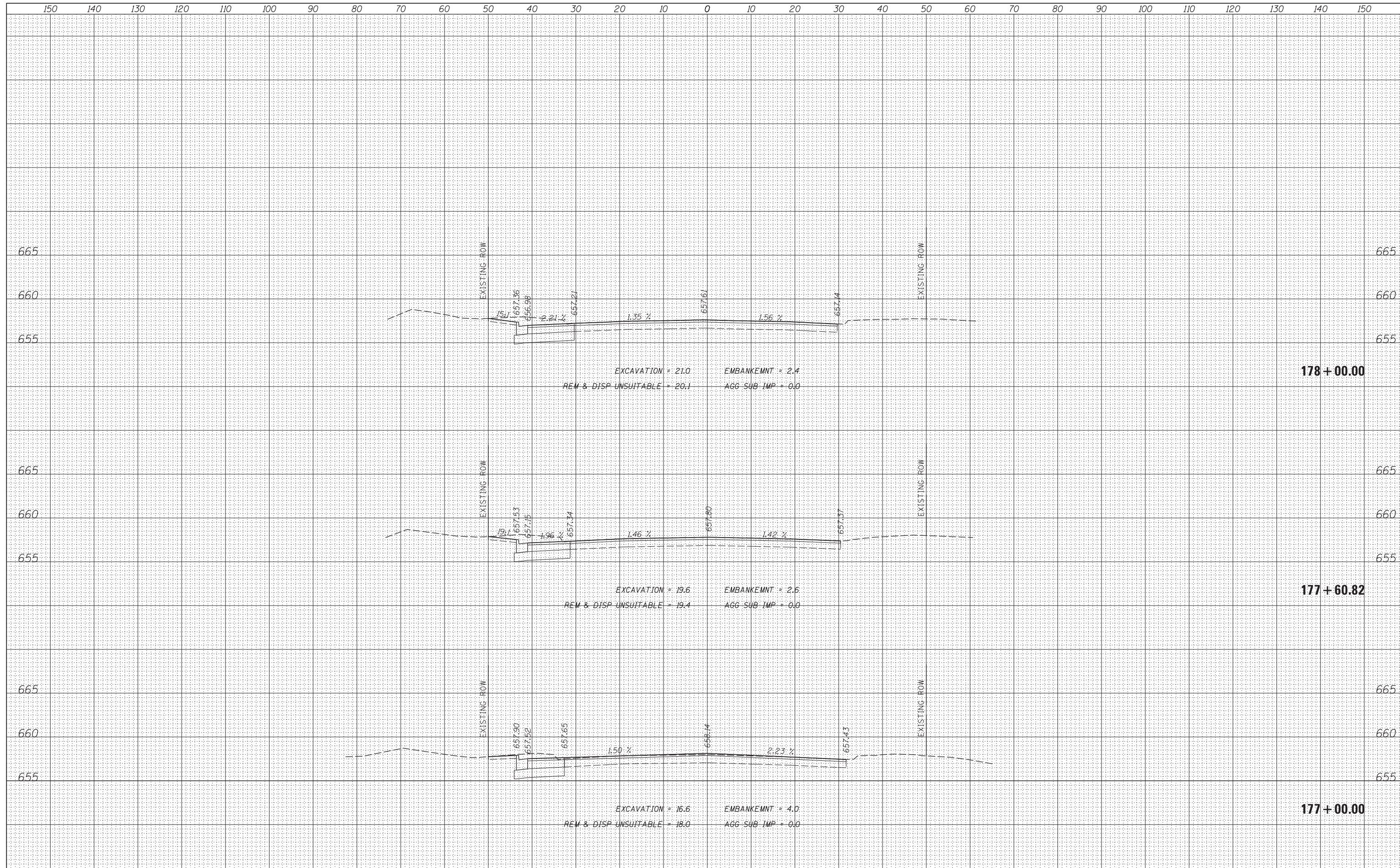
DATE	BY
SURVEYED	
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TEMPLATE	
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DATE	BY
ORIGINAL	
SURVEY	
NOTE BOOK	
AREAS	
CHECKED	
NO.	



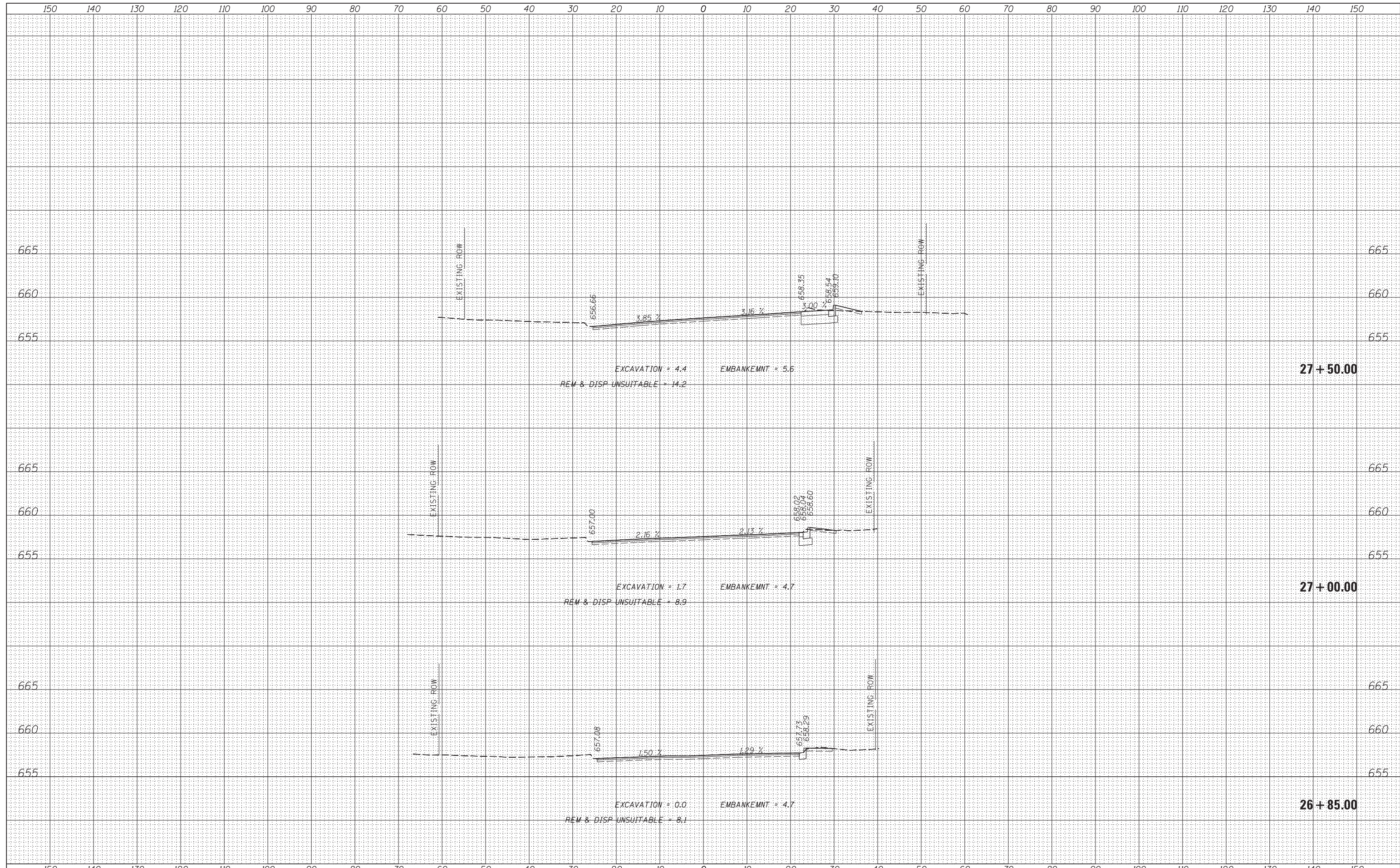
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SURVEYED	
PLOTTED	
TEMPLATE	
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FINL	
SURVEY	
NOTE BOOK	
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DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL	
SURVEY	
NOTE BOOK	
NO.	



DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

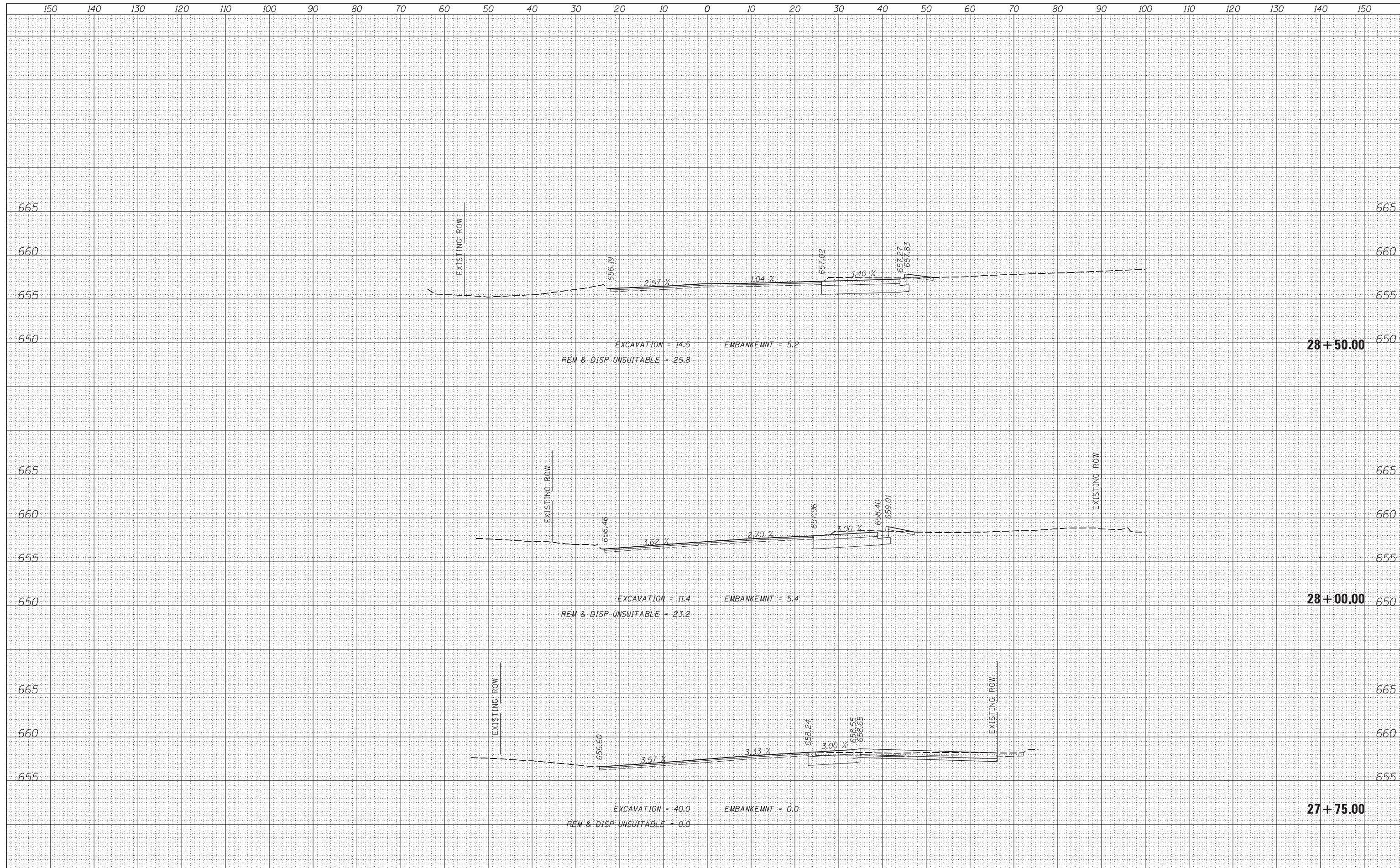
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BY	
ORIGINAL SURVEY	
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TEMPLATE	
NOTE BOOK	
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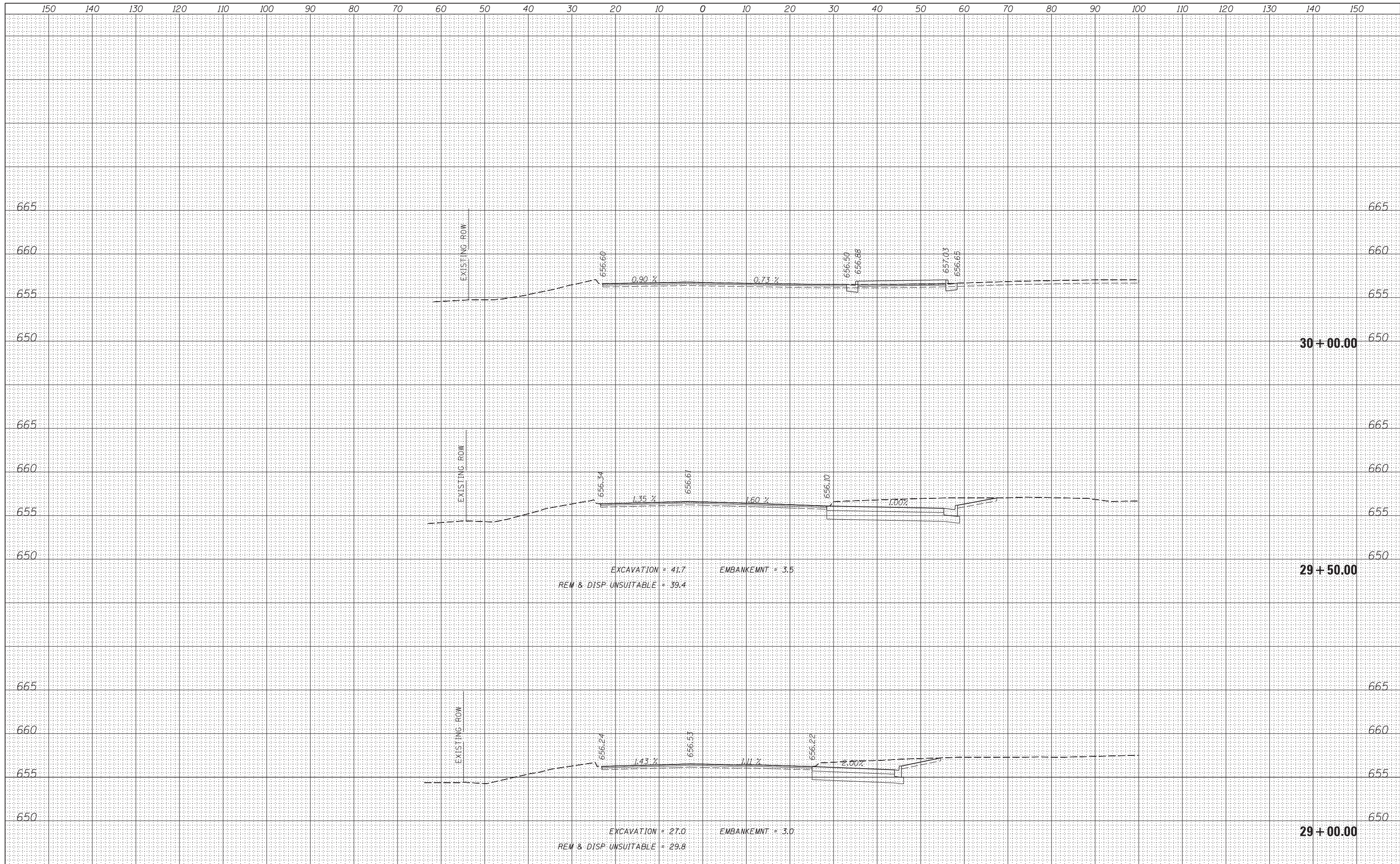


FILE NAME -	USER NAME - rhowellindgren	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MOUNT PROSPECT ROAD (SOUTH) CROSS SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\MOUNTPROSPECT\200015\Civil\PX5_200015_MtPropp.S5HT		DRAWN -	REVISED -		334	17-00166-00-CH	COOK	264	260			
Default	PLOT SCALE = 10'	CHECKED -	REVISED -		CONTRACT NO. 61H44							
	PLOT DATE = 3/10/2022	DATE -	REVISED -		SCALE:	SHEET 29 OF 33 SHEETS	STA. 26+85.00 TO STA. 27+50.00	ILLINOIS FED. AID PROJECT				

DATE	
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SURVEYED	
PLOTTED	
TEMPLATE	
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SURVEY	
NOTE BOOK	
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DATE	
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TEMPLATE	
AREAS	
CHECKED	
ORIGINAL	
SURVEY	
NOTE BOOK	
NO.	





BY	DATE
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PLOTTED	
TEMPLATE	
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NO.	

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
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NO.	

FILE NAME = N:\MOUNTPROSPECT\200015\Civil\PX5_200015_MtProp_S.SHT
 USER NAME = rhowellindgren
 PLOT SCALE = 10'
 PLOT DATE = 3/10/2022

DESIGNED	-	REVISED	-
DRAWN	-	REVISED	-
CHECKED	-	REVISED	-
DATE	-	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

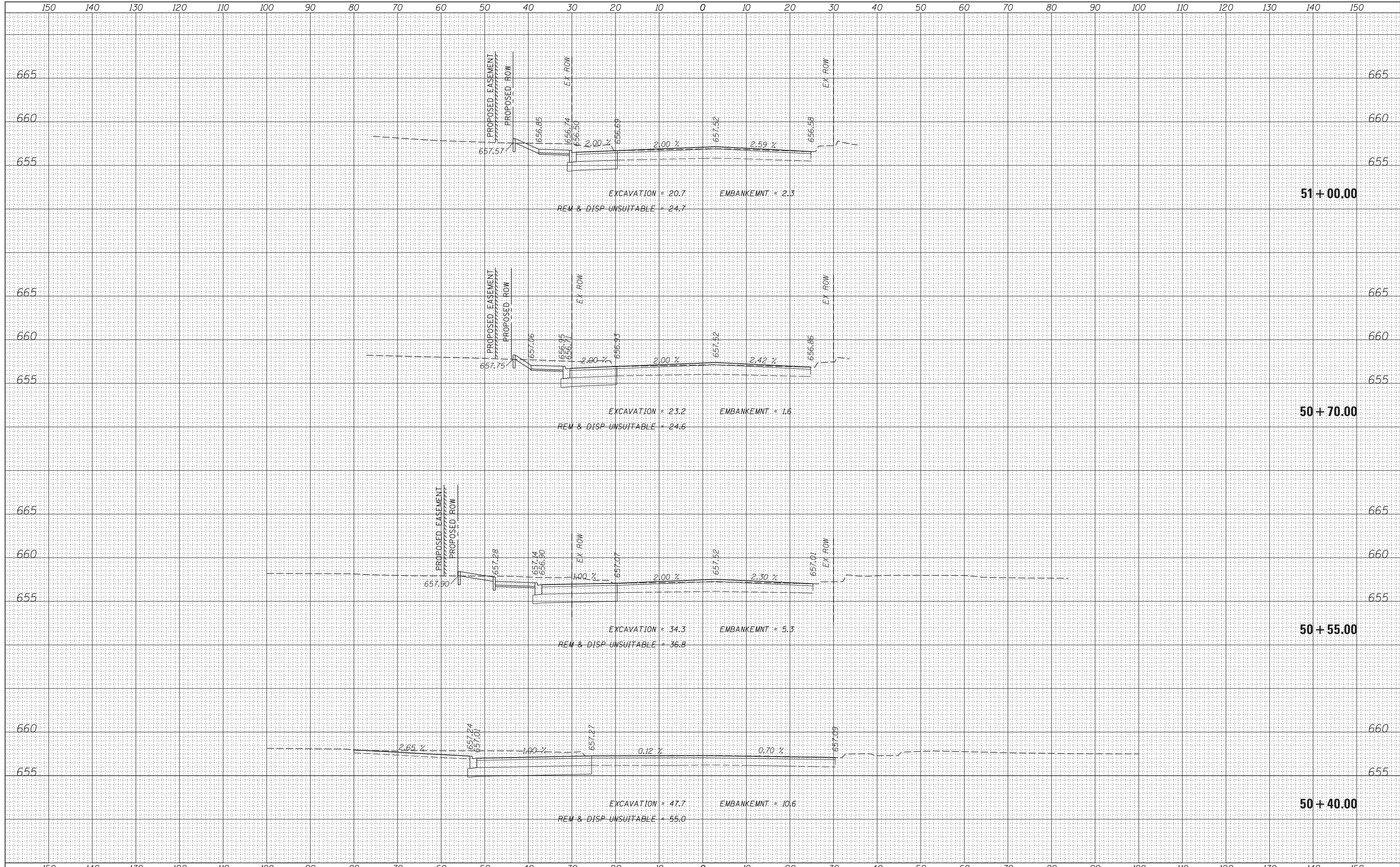
**MOUNT PROSPECT ROAD (SOUTH)
CROSS SECTIONS**

SCALE: SHEET 31 OF 33 SHEETS STA. 29+00.00 TO STA. 30+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	17-00166-00-CH	COOK	264	262
		CONTRACT NO. 61H44		
ILLINOIS FED. AID PROJECT				

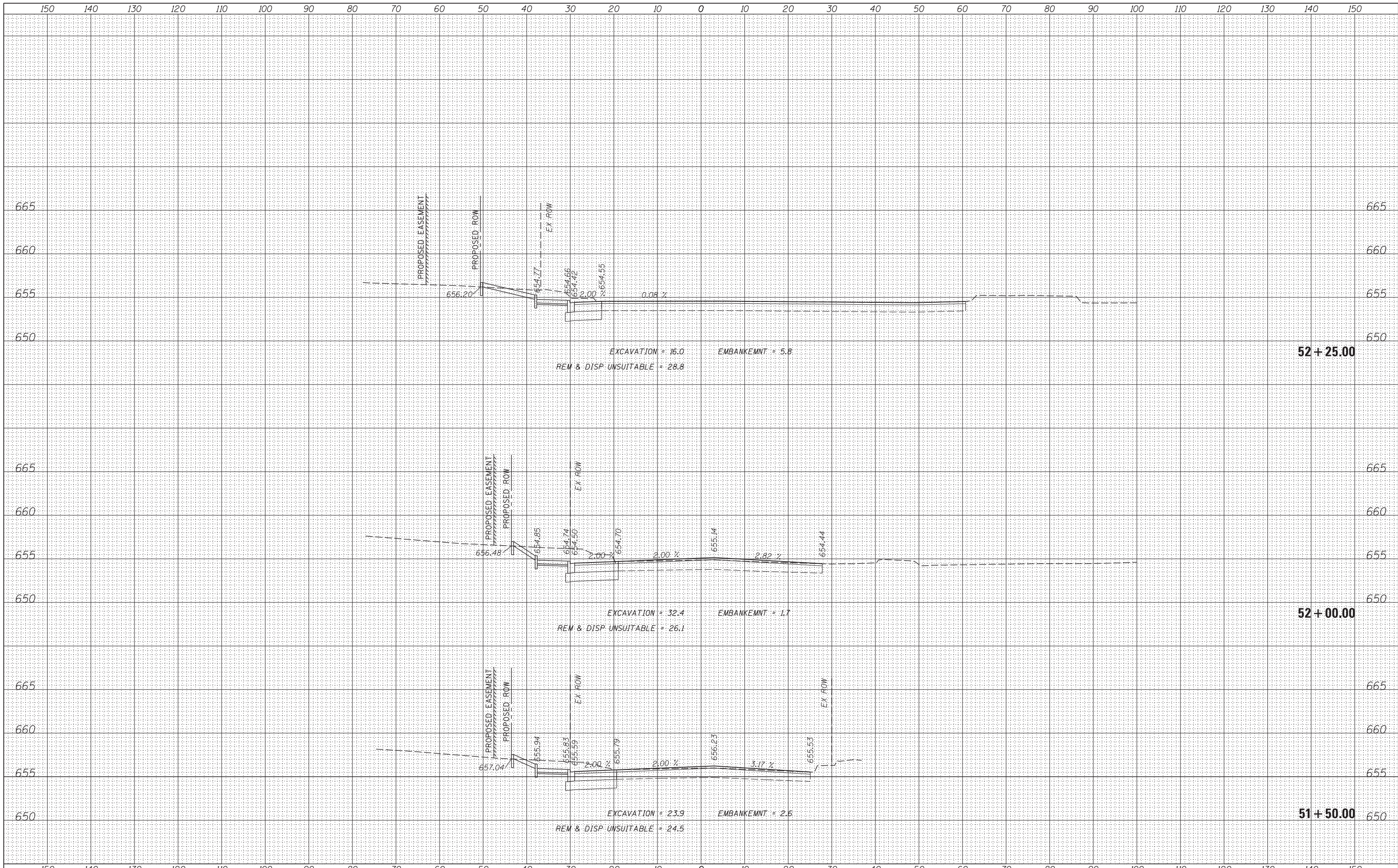
DATE	BY

DATE	BY



BY	DATE
SURVEYED	
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TEMPLATE	
AREAS CHECKED	
AREAS CHECKED	
NO.	

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
AREAS CHECKED	
NO.	



FILE NAME -	USER NAME - rhowellindgren	DESIGNED -	REVISOR -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\MOUNTPROSPECT\200015\Civil\PX5_200015.MtProp.N.SHT		DRAWN -	REVISOR -	MOUNT PROSPECT ROAD (NORTH) CROSS SECTIONS		334	17-00166-00-CH	COOK	264	264
PLOT SCALE - 10'		CHECKED -	REVISOR -			SCALE:		SHEET 33 OF 33 SHEETS		STA. 51+50.00 TO STA. 52+25.00
Default	PLOT DATE - 3/10/2022	DATE -	REVISOR -			CONTRACT NO. 61H44		ILLINOIS FED. AID PROJECT		