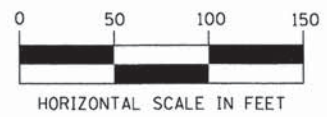


NOTES:

- 1. FOR LEGEND AND GENERAL NOTES SEE SHEET LTG-01.
- 2. EXISTING LIGHTING UNITS SHALL BE REMOVED AS REQUIRED PER ROADWAY CONSTRUCTION STAGING.
- 3. THE REMOVED EQUIPMENT SHALL BE SALVAGED PER McHENRY COUNTY REQUIREMENTS.



COMPANY NAME: AMES Engineering, Inc.
 PROJECT CONTACT: [Name]
 CLIENT: [Name]
 DATE PLOTTED: 11/11/2014 10:45:16 AM
 FILE NAME: 090071-L1g-03.dgn
 PLOT DIRECTOR: [Name]
 PER TABLE: [Name]

AMES Engineering, Inc.
 CONSULTING ENGINEERS
 1341 Warren Avenue
 Downers Grove, IL 60515
 (630) 737-1987 (t) (630) 470-8891 (f)
 www.amesengineeringinc.com

USER NAME = tyelton	DESIGNED - BL	REVISED -
FILE NAME = 090071-L1g-03.dgn	DRAWN - RV/MSA	REVISED -
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PLOT DATE = 11/11/2014	DATE - 10-30-2014	REVISED -

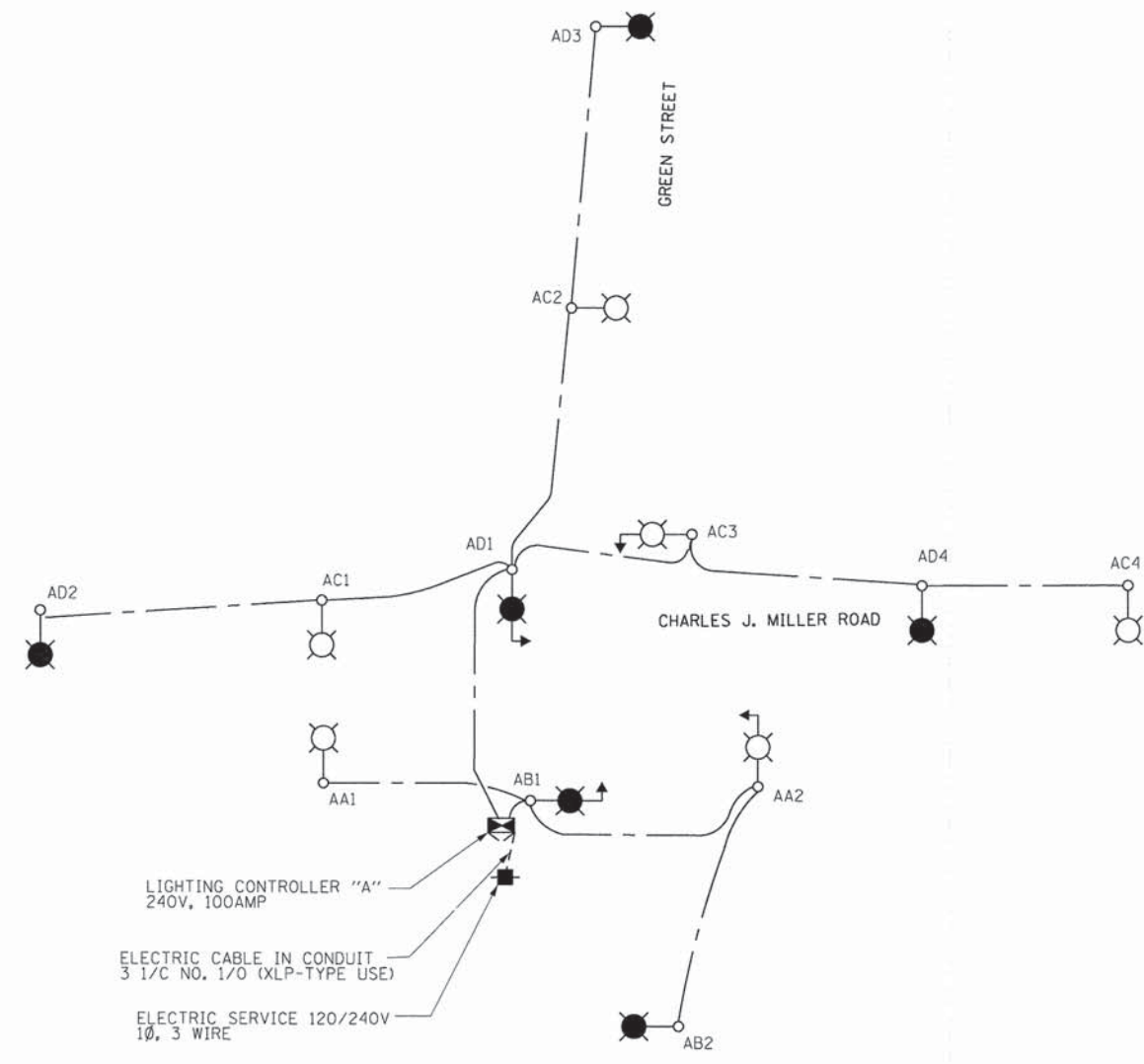
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CHARLES J. MILLER ROAD AT GREEN STREET
 EXISTING /REMOVAL LIGHTING PLAN**

SCALE: 1"=50' SHEET NO. 3 OF 9 SHEETS STA. 547+01 TO STA. 558+01

F.A.U. RTE. 3860	SECTION 09-00372-01-PW	COUNTY McHENRY	TOTAL SHEETS 358	SHEET NO. 201
CONTRACT NO. 63892				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

LTG-03



LEGEND

- 310 WATT HPS LUMINAIRE, 120V, RED CIRCUIT, 3A
- 310 WATT HPS LUMINAIRE, 120V, BLACK CIRCUIT, 3A
- UNIT DUCT 3 1/C #6 WITH 1/C #8 GROUND IN 1" DIA. POLYTHYLENE AND GREEN TRACER WIRE 1/C NO. 14 STRANDED
- LIGHTING CONTROLLER

**LOAD TABULATION
CONTROLLER "A" LOCATED
AT GREEN STREET**

CIRCUIT	RED		BLACK		
	AMPS @ 120V	VA	CIRCUIT	AMPS @ 120V	VA
A	6.0	720	B	6.0	720
C	12.0	1440	D	12.0	1440
E	SPARE	SPARE	F	SPARE	SPARE
TOTAL	18.0	2160	TOTAL	18.0	2160
TOTAL LOAD 36.0A					

COMPANY NAME: AMES Engineering, Inc.
 PROJECT CONTACT: [Redacted]
 CLIENT: [Redacted]
 DATE PLOTTED: 11/11/2014 10:43:20 AM
 FILE NAME: 090071-L19-04.dgn
 PLOT DRIVER: pdf.plt
 PEN TABLE: standard-trans.tbl

AMES Engineering, Inc.
 CONSULTING ENGINEERS
 1341 Warren Avenue
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USER NAME = tjeilton	DESIGNED - BL	REVISED -
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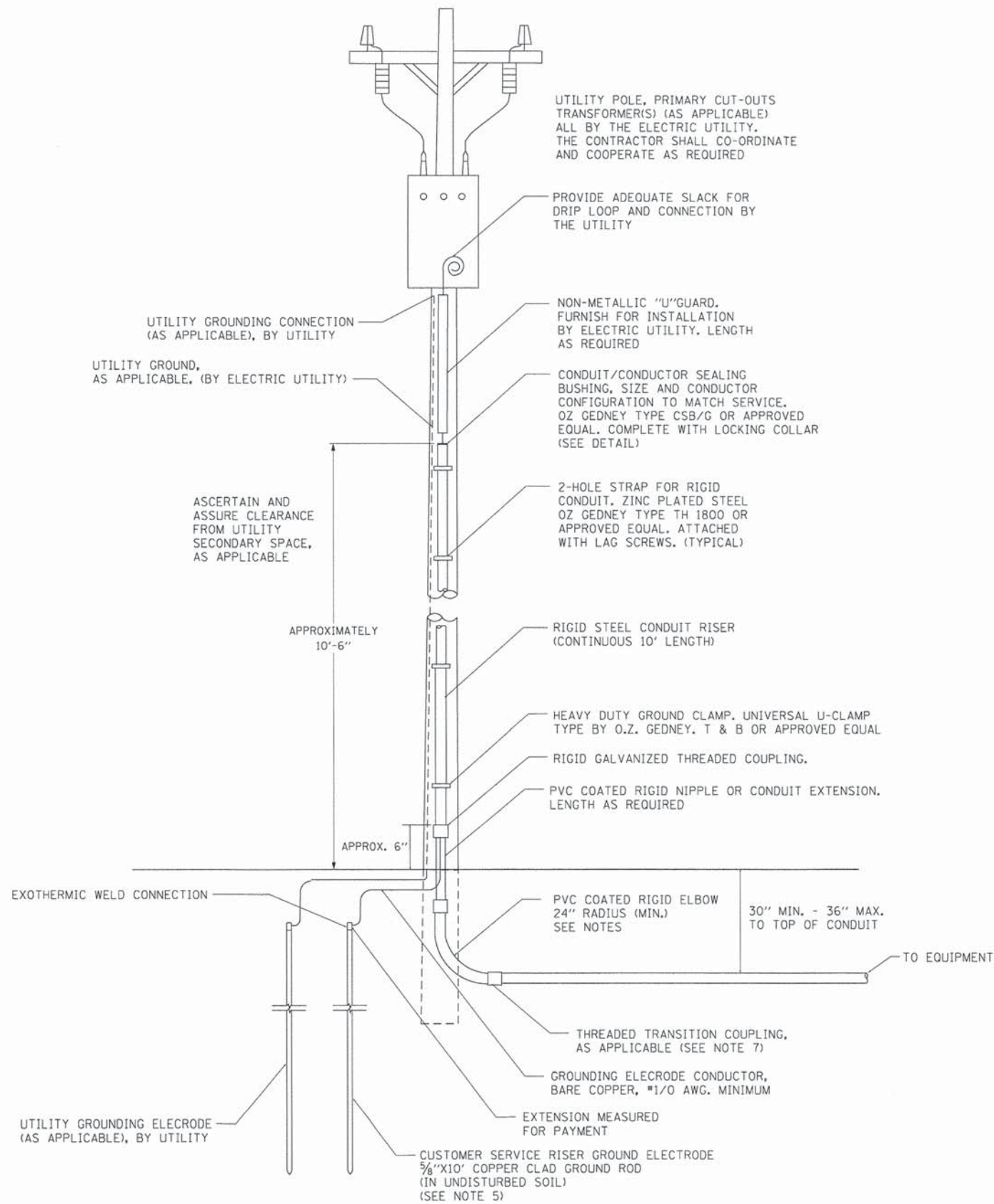
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CHARLES J. MILLER ROAD AT GREEN STREET
WIRING DIAGRAM**

SCALE: N.T.S. SHEET NO. 4 OF 9 SHEETS STA. TO STA.

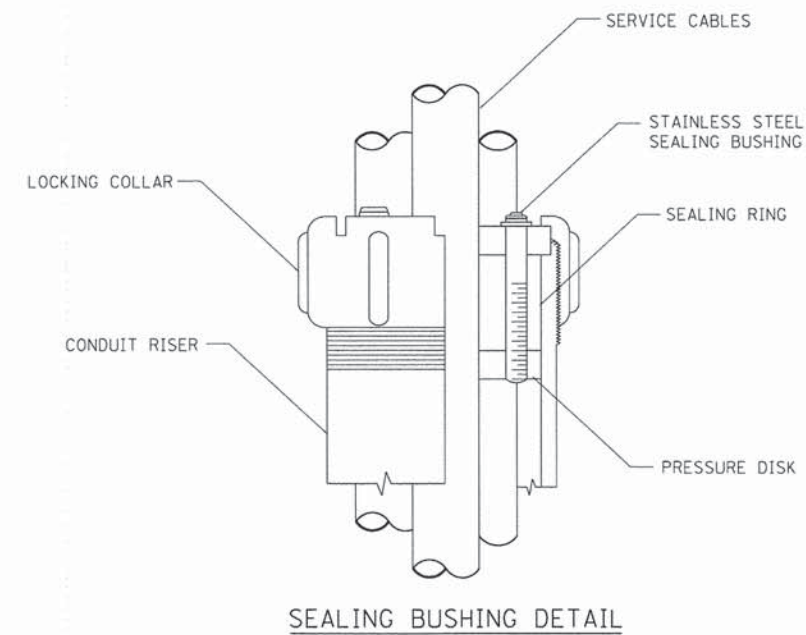
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3860	09-00372-01-PW	McHENRY	358	202
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 63892				

LTC-04



NOTES:

- SERVICE VOLTAGE SHALL BE 120/240V AS INDICATED ON SHEET LTG-02 AND 04.
- UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF ELECTRIC UTILITY SERVICE INSTALLATION.
- CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED.
- PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACK FILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
- THE SERVICE METER SOCKET, AS APPLICABLE, MOUNTED ELSEWHERE AS INDICATED SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRICAL UTILITY SERVICE INSTALLATION PAY ITEM.
- THE SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALLIC TO NON METALLIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
- PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.



COMPANY NAME: AMES Engineering, Inc.
 PROJECT CONTACT: [Name]
 CLIENT: [Name]
 DATE PLOTTED: 11/11/2014 10:43:24 AM
 FILE NAME: 090071-LTP-05.dgn
 PLOT DRIVER: pdf.plt
 PEN TABLE: standard.ctb

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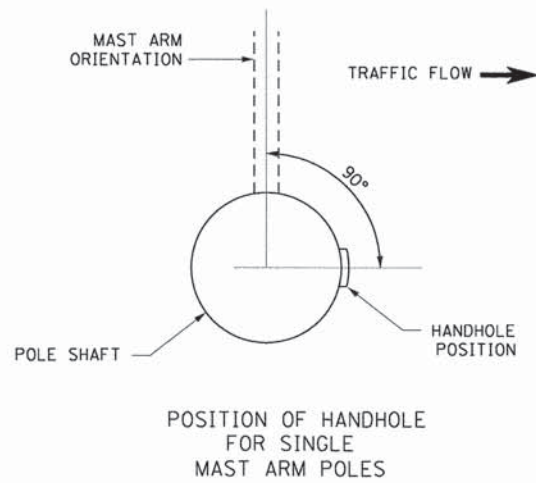
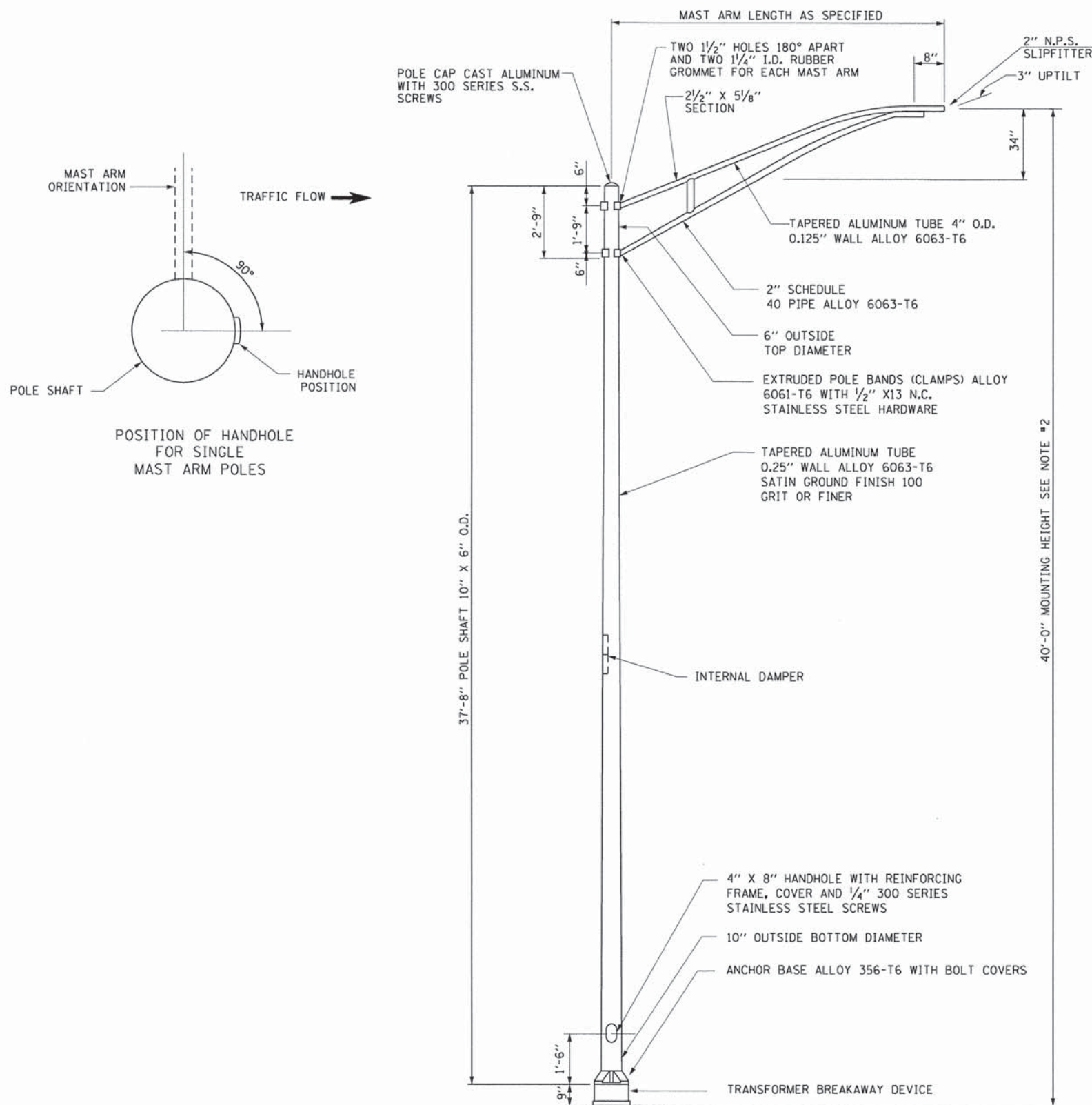
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PLOT DATE = 11/11/2014	DATE - 10-30-2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ELECTRIC SERVICE INSTALLATION ABOVE GROUND (BE-220)

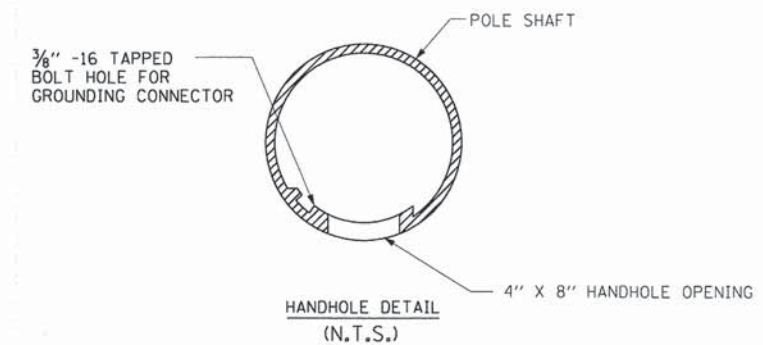
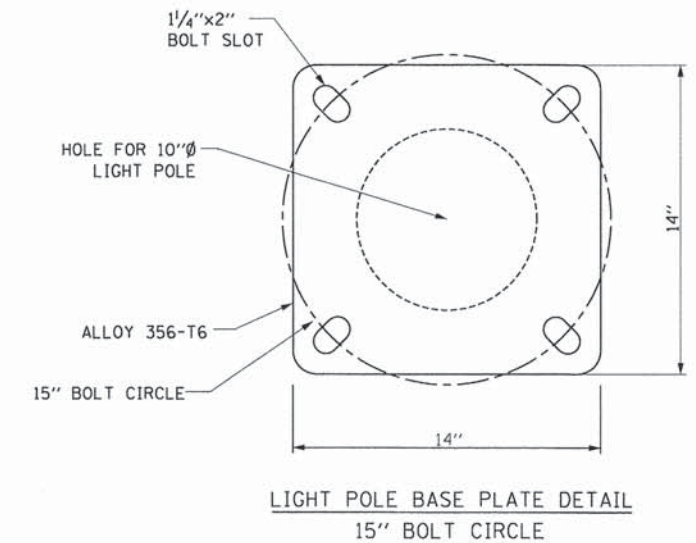
SCALE: N.T.S. SHEET NO. 5 OF 9 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3860	09-00372-01-PW	McHENRY	358	203
CONTRACT NO. 63892				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



NOTES:

1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.
2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
3. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
4. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR. BURNDY K2C23, T & B SP4DL OR APPROVED EQUAL.
5. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
6. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.



COMPANY NAME: AMES Engineering, Inc.
 PROJECT CONTACT: 11/11/2014 10:43:28 AM
 CLIENT: 090071-Ltg-06.dgn
 DATE PLOTTED: 11/11/2014 10:43:28 AM
 FILE NAME: 090071-Ltg-06.dgn
 PLOT DRIVER: pdfplot
 PEN TABLE: standard-font.tbl

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 1341 Warren Avenue
 Downers Grove, IL 60515
 (630) 737-1987 (f), (630) 478-9891 (c)
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USER NAME = tye1ton	DESIGNED - BL	REVISED -
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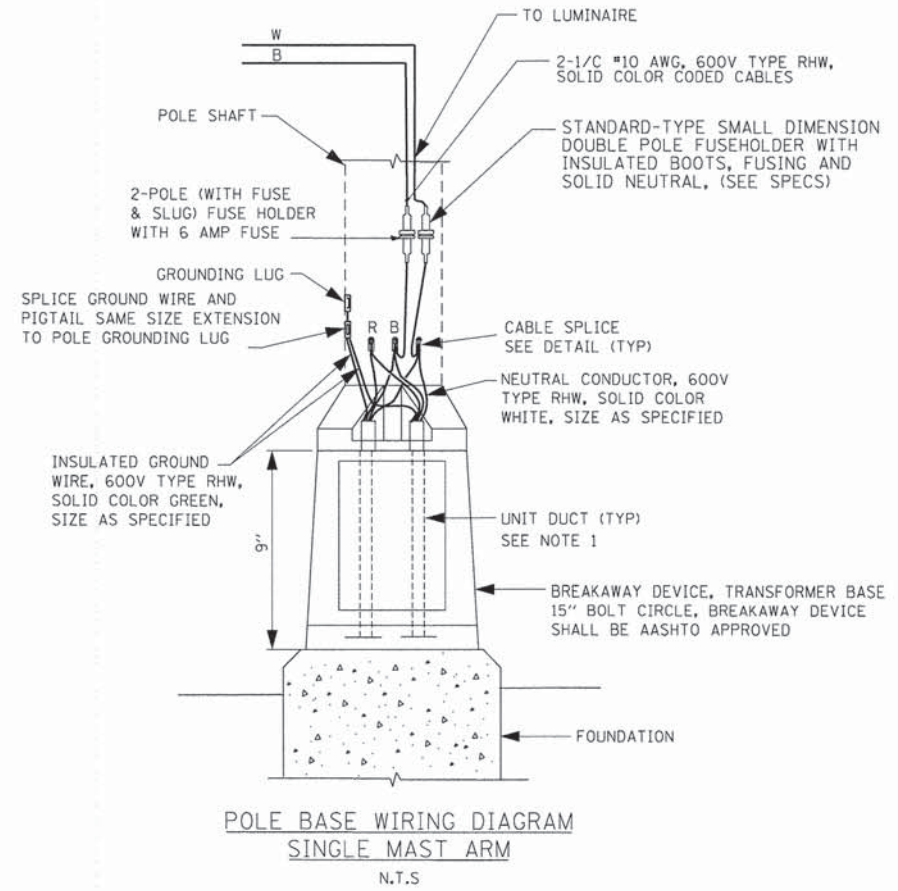
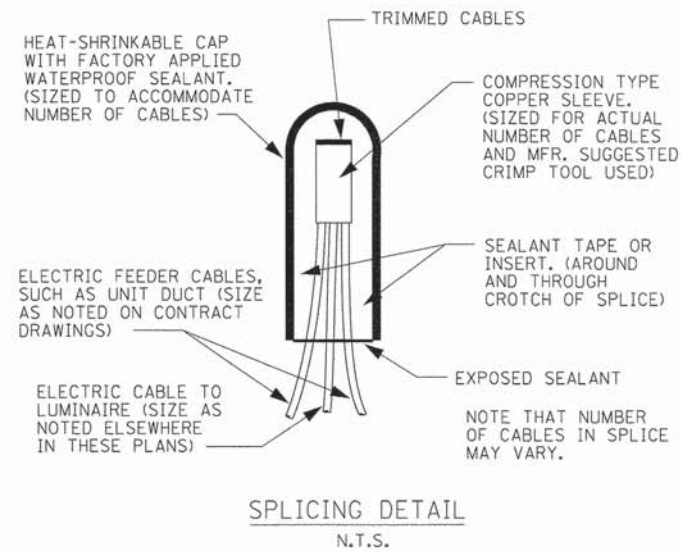
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALUMINUM LIGHT POLE 40'-0" MOUNTING HEIGHT

SCALE: N.T.S. SHEET NO. 6 OF 9 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3860	09-00372-01-PW	MCHENRY	358	204
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 63892				

LTG-06



NOTE:

1. TRACER CABLE #14 1C SHALL BE INCLUDED IN THE UNIT DUCT AT NO ADDITIONAL COST. TRACER CABLE SHALL BE SPLICED IN POLES (WITH WIRE NUT) AND GROUNDED AT ENDS. TRACER WIRE SHALL BE CONNECTED TO POLE GROUND ONLY IN POLES AT END OF RUNS. IN REMAINING POLES, TRACER WIRE SHALL BE SPLICED AT UPPER HANDHOLE AND ROUTED THROUGH AND INTO LIGHTING CABINET UNGROUNDED.

COMPANY NAME: AMES Engineering, Inc.
 PROJECT CONTACT: sjelton
 CLIENT: 11/11/2014 10:43:33 AM
 DATE PLOTTED: 09/07/14 10:07:00
 FILE NAME: 090071-Ltg-07.dgn
 PLOT DRIVER: pdf.plt
 PEN TABLE: standard-trons.tbl

AMES Engineering, Inc.
 CONSULTING ENGINEERS
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 Downers Grove, IL 60515
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USER NAME = sjelton	DESIGNED - BL	REVISED -
FILE NAME = 090071-Ltg-07.dgn	DRAWN - RV/MSA	REVISED -
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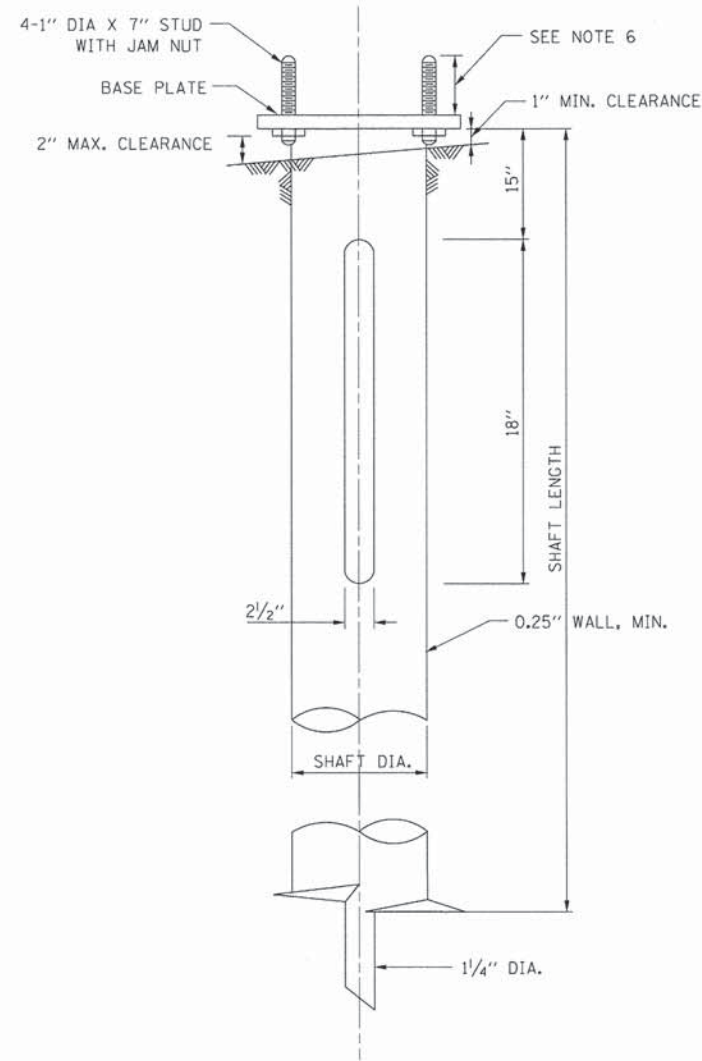
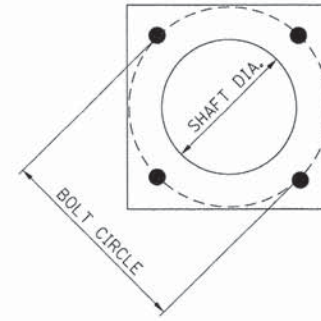
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

MISCELLANEOUS ELECTRICAL DETAILS

SCALE: N.T.S. SHEET NO. 7 OF 9 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3860	09-00372-01-PW	MCHENRY	358	205
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 63892	

LTG-07



HELIX FOUNDATION SIZE

POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASE PLATE
30 FT.	11 1/2"	8 5/8"	6 FT.	12"X12"X1"
31 FT. TO 35 FT.	11 1/2"	8 5/8"	6 FT.	12"X12"X1"
36 FT. TO 40 FT.	15"	8 5/8"	6 FT.	15"X15"X1 1/4"
41 FT. TO 45 FT.	15"	8 5/8"	6 FT.	15"X15"X1 1/4"
46 FT. TO 50 FT.	15"	10"	8 FT.	15"X15"X1 1/4"

METAL HELIX FOUNDATION MATERIALS

ITEM	METAL REQUIREMENT
BASE PLATE	AASHTO M 270M, GRADE 36 (M 270M, GRADE 250)
SHAFT	ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM)
HELIX SCREW	AASHTO M 183 (ASTM A 635)
PILOT POINT	AASHTO M 270 (ASTM A 575)
ANCHOR RODS/STUDS	AASHTO M 314 (ASTM F 1554)
HEXAGON NUTS	AASHTO M 291 (ASTM A 563) GRADE DH OR AASHTO M 292 (ASTM A 194) GRADE 2H
WASHERS	AASHTO M 293 (ASTM F 436)

NOTES:

1. ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. ALL MATERIAL SHALL BE GALVANIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
3. ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN 1/4" (6.35 MM) FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS (13558.18 Nm) OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
4. THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
5. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
6. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
7. ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.
8. METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED SOIL. PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDATION IS NOT ALLOWED.
9. THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE WHICH EXCEEDS THE MANUFACTURER'S MAXIMUM TORQUE RATING NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT LB (4,750 KNM), METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.
10. THE BASE PLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS ($\pm 1^\circ$) AND THE HOLE CENTERLINE SHALL BE CONCENTRIC (± 0.188) TO THE SHAFT AXIS.
11. THE PILOT AND SHAFT AXIS SHALL BE CONCENTRIC (± 0.125) AND IN LINE ($\pm 2^\circ$).
12. THE BASE PLATE SHALL BE STAMPED WITH THE MANUFACTURER'S NAME AND DATE OF MANUFACTURE.

COMPANY NAME: AMES Engineering, Inc.
 PROJECT CONTACT: CONSULTING ENGINEERS
 CLIENT: 1341 Warren Avenue
 DATE PLOTTED: 11/11/2014 10:43:36 AM
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 PLOT DRIVER: pdf.plt
 PEN TABLE: sfontand-trans.tbl



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

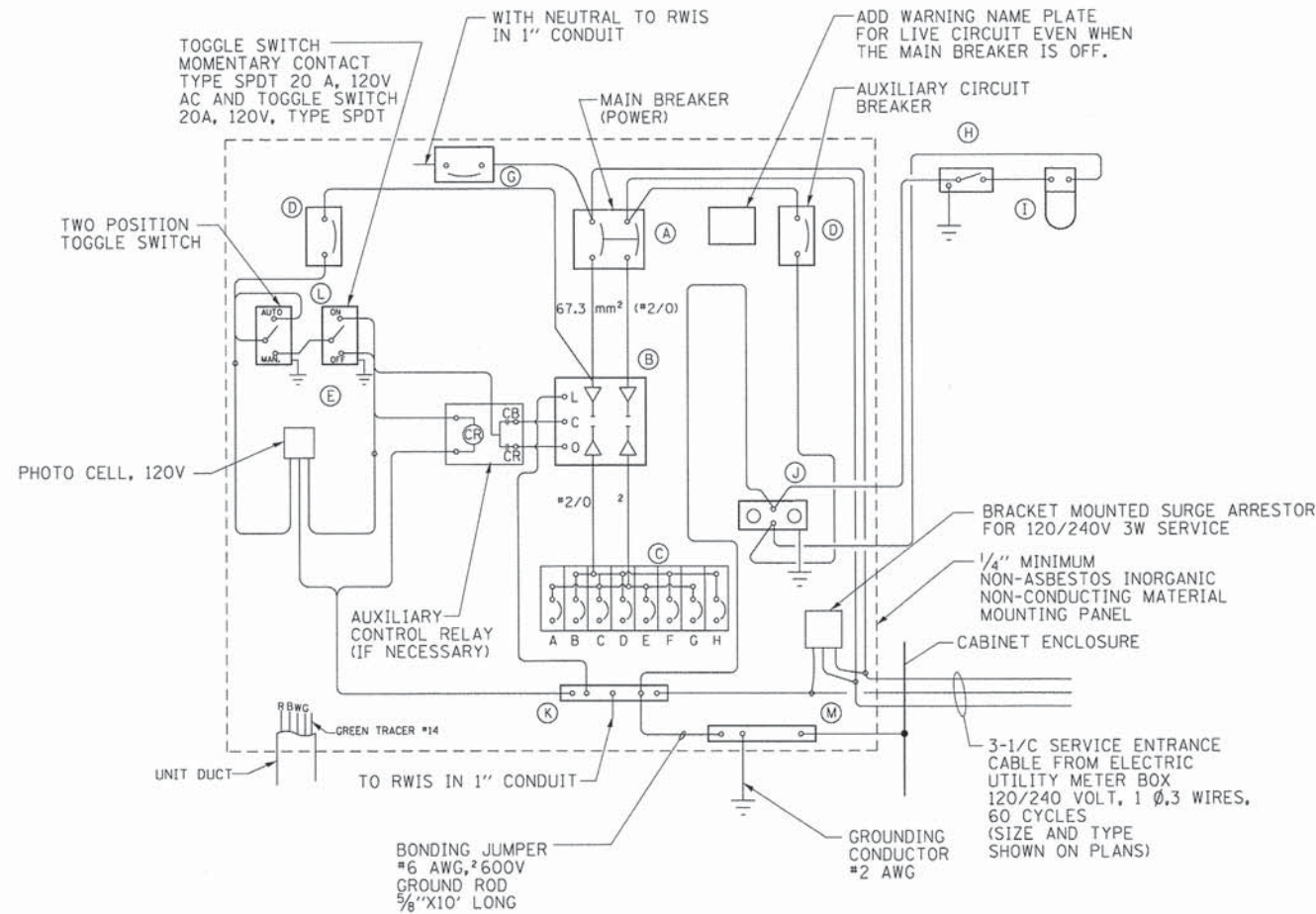
LIGHT POLE FOUNDATION, METAL
 SCALE: N.T.S. SHEET NO. 8 OF 9 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3860	09-00372-01-PW	McHENRY	358	206
CONTRACT NO. 63892				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

LTC-08

PANEL EQUIPMENT

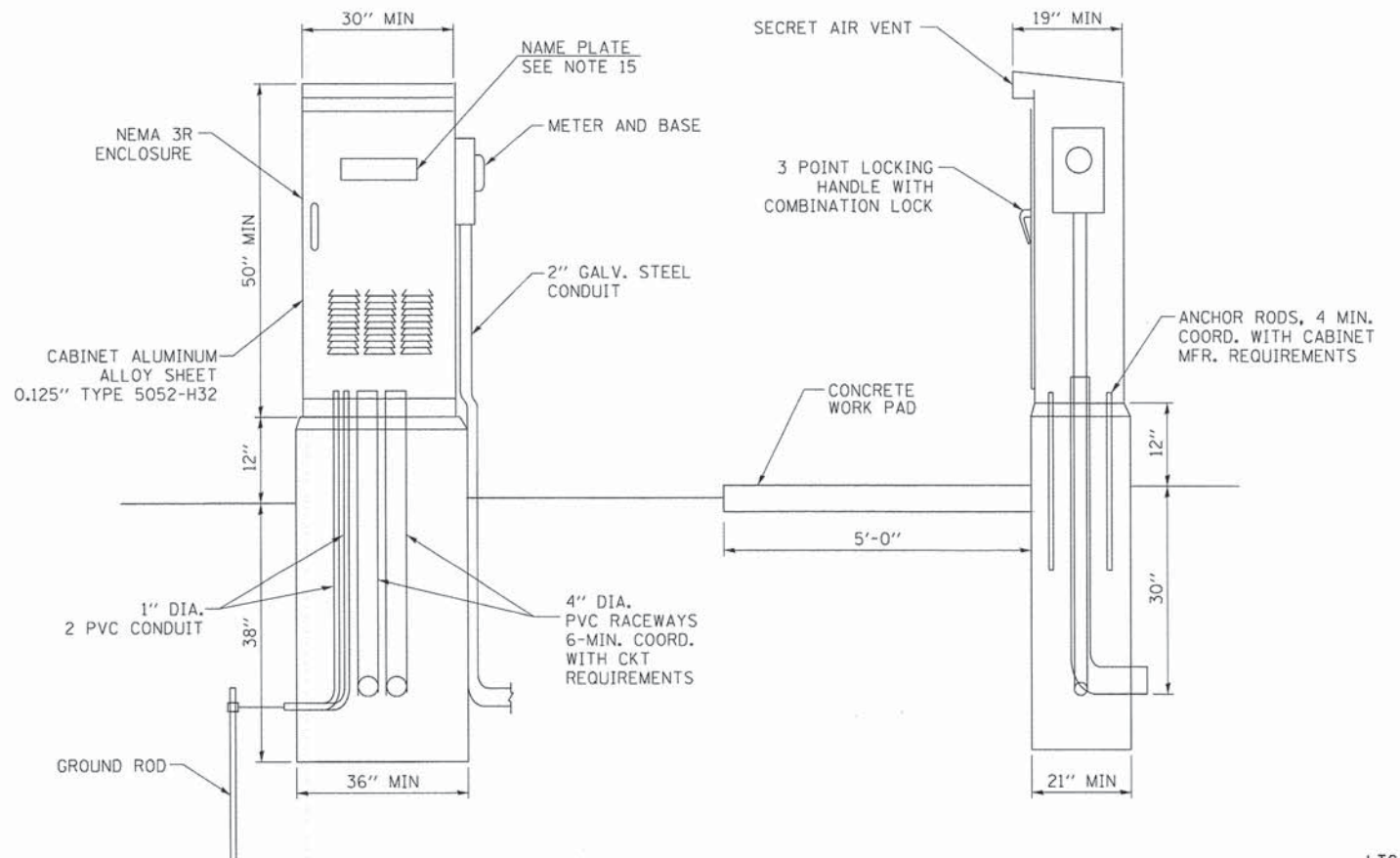
BILL OF MATERIAL		
ITEM	QTY.	DESCRIPTION
A	1	MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 100AMP. FRAME, 100AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP. AT 240 VOLT.
B	1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 100 AMP., 600 VOLTS CONTROL CIRCUITS 240 VOLT, ASCO 920.
C	8	CIRCUIT BREAKERS, 1 POLE, 277V., 100AMP. FRAME 50AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-14,000 AMP. AT 120 V.
D	2	CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 240 V., 100AMP. FRAME, 15AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-14,000 AMP. AT 120 V.
E	1	PHOTECCELL, 120V
G	1	CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 240 V., 100AMP. FRAME, 20AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-14,000 AMP. AT 120 V.
H	1	SPST 20A SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN.
I	1	INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP.
J	1	20 A., 120 V., DUPLEX RECEPTACLE, GFCI.
K	1	COPPER NEUTRAL BUS 6.35 mm (1/4") X 25.4 mm (1") X 304.8 mm (12") LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS.
L	1	TOGGLE SWITCHES MOUNTED IN 101.6 mm (4") X 101.6 mm (4") BOX.
M	1	COPPER GROUND BUS 6.35 mm (1/4") X 25.4 (1") 304.8 mm (12") LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS.
N	1	SURGE ARRESTOR



WIRING DIAGRAM

NOTES:

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED.
- FOUNDATION SIZE SHALL BE COORDINATED WITH CABINET SIZE AND MFR.
- DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
- DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
- DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 6.35 mm (1/4") DIA. STAINLESS STEEL HINGE PIN.
- ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
- CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
- METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
- CABINETS SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.
R = RED BL = BLUE W = WHITE
B = BLACK Y = YELLOW G = GREEN
- PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
- 304.8 mm (12") X 406.4 mm (16") STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.
- SERVICE DISCONNECT SHOULD HAVE UL LABEL AND THE EQUIPMENT SHOULD BE SUITABLE FOR SERVICE ENTRANCE EQUIPMENT.



COMPANY NAME: AMES Engineering, Inc.
 PROJECT CONTACT: 11/11/2014 10:45:41 AM
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 FILE NAME: 090071-Ltg-09.dgn
 PLOT DRIVER: pldtbl
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<p>AMES Engineering, Inc. CONSULTING ENGINEERS 1341 Warren Avenue Downers Grove, IL 60515 (630) 737-1987 (F) (630) 470-9891 (H) www.amesengineering.com</p>	USER NAME = tjelton	DESIGNED - BL	REVISED -
	FILE NAME = 090071-Ltg-09.dgn	DRAWN - RV/MSA	REVISED -
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	PLOT DATE = 11/11/2014	DATE - 10-30-2014	REVISED -

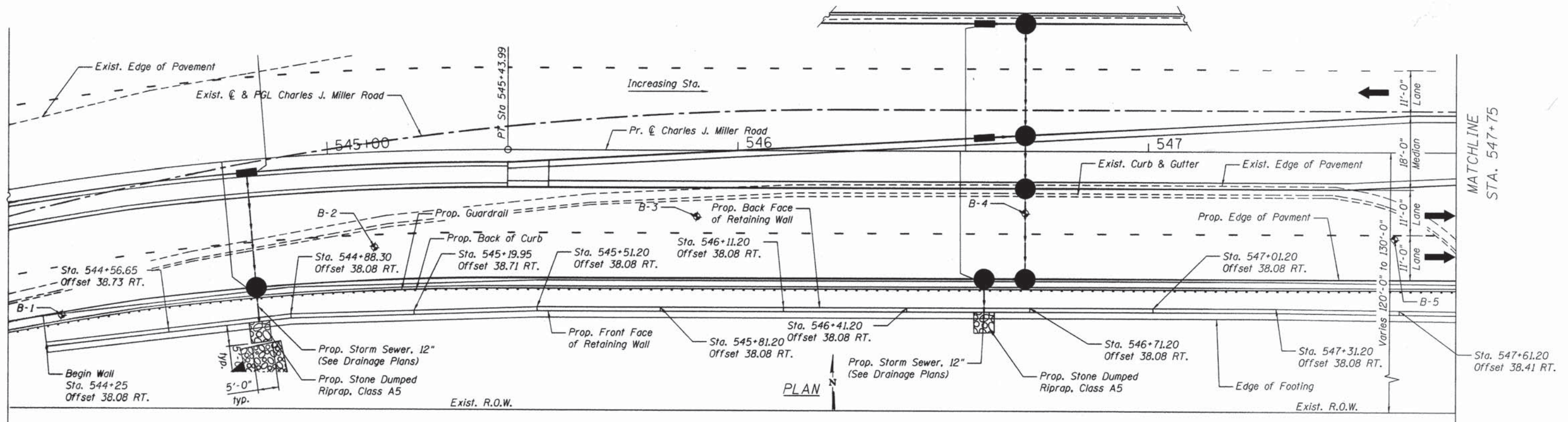
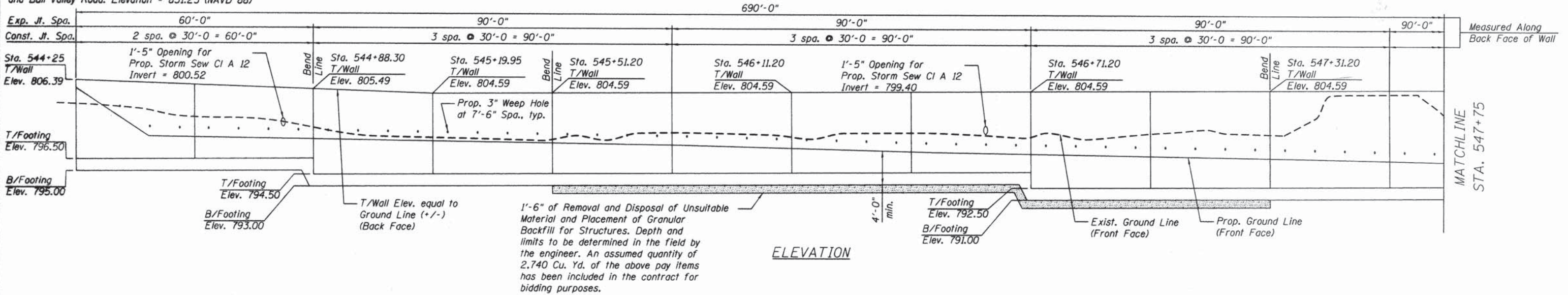
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LIGHTING CONTROLLER
 SCALE: N.T.S. SHEET NO. 9 OF 9 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3860	09-00372-01-PW	McHENRY	358	207
CONTRACT NO. 63892				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

LTC-09

Benchmark:
 BM 1: Railroad spike on the north face of powerpole at southwest corner of Charles J. Miller Road and Barreville Road. Elevation = 805.79 (NAVD 88)
 BM 2: Railroad spike on the west face of powerpole at southwest corner of Route 31 (Front Street) and Bull Valley Road. Elevation = 831.23 (NAVD 88)



DESIGN SPECIFICATIONS
 2012 AASHTO LRFD Bridge Design Specifications
 with 2013 Interim Revisions

DESIGN STRESSES

FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50)
 Ultimate Bearing Pressure = 4,000 psf

LOADING HL-93

Note:
 Offsets are measured from C of Miller Road to the back face of wall.

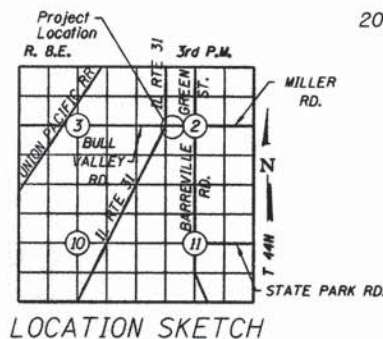
CURVE DATA

P.I. Sta. = 544+19.29
 $\Delta = 19^\circ 38' 05"$ (RT)
 $D = 7^\circ 47' 43"$
 $R = 735.00'$
 $T = 127.19'$
 $L = 251.88'$
 $E = 10.92'$
 $e = 4.00\%$
 $T.R. = 44.33'$
 $S.E. RUN = 133'$
 P.C. STA. = 542+92.11
 P.T. STA. = 545+43.99

GENERAL PLAN AND ELEVATION
 STRUCTURE NO. 056-W003
 CHARLES J. MILLER ROAD RETAINING WALL
 FAU. RTE. 3860, SEC. 09-00372-01-PW
 McHENRY COUNTY
 STATION 544+25 TO 551+20.90

DATE: 11/12/14

DESIGNED	JPG
CHECKED	RGD
DRAWN	WJH
CHECKED	RGD



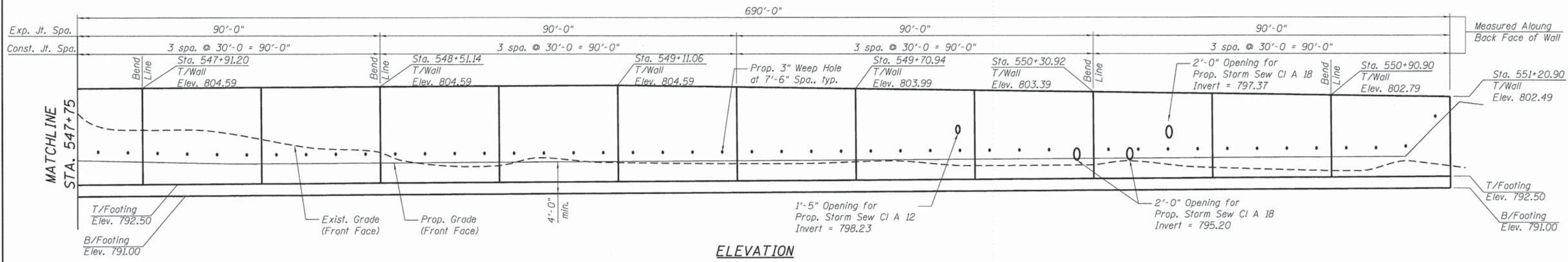
To the best of my knowledge, information and belief, this retaining wall design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current LRFD Bridge Design Specifications

Structural Engineer
 HR Green, Inc.
 EXPIRES 11/30/2016

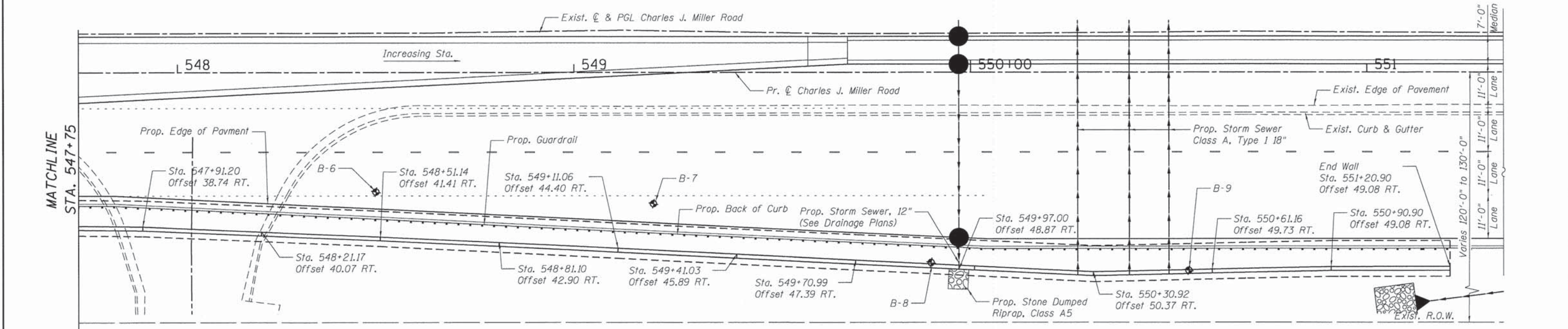


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 # 184-001322

SHEET NO. SA-1	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	3860	09-00372-01-PW	McHENRY	358	208
SA-9 SHEETS	CONTRACT NO. 63892				
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT		



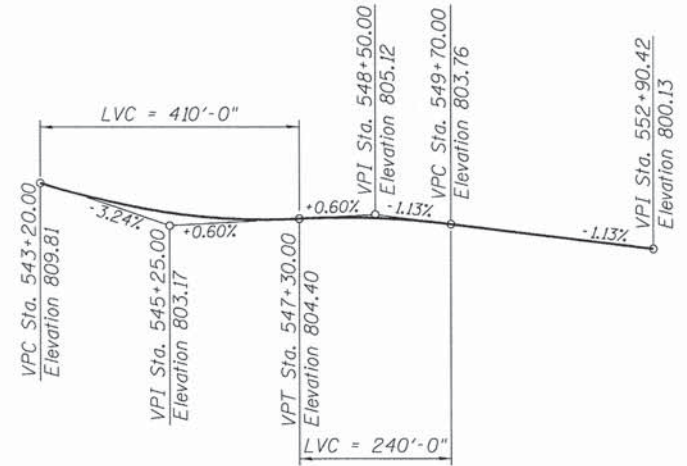
ELEVATION



PLAN

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal and Disposal of Unsuitable Material	Cu. Yd.	110
Stone Dumped Riprap, Class A5	Sq. Yd.	75
Structure Excavation	Cu. Yd.	1,995
Concrete Structures	Cu. Yd.	714.7
Reinforcement Bars Epoxy Coated	Pound	74,270
Geocomposite Wall Drain	Sq. Yd.	652
Granular Backfill for Structures	Cu. Yd.	2,740



PROFILE GRADE
(Along \bar{C} of Charles J. Miller Rd.)

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 056-W003
CHARLES J. MILLER ROAD RETAINING WALL
FAU. RTE. 3860, SEC. 06-00068-01-PV
McHENRY COUNTY
STATION 544+25 TO 551+20.90

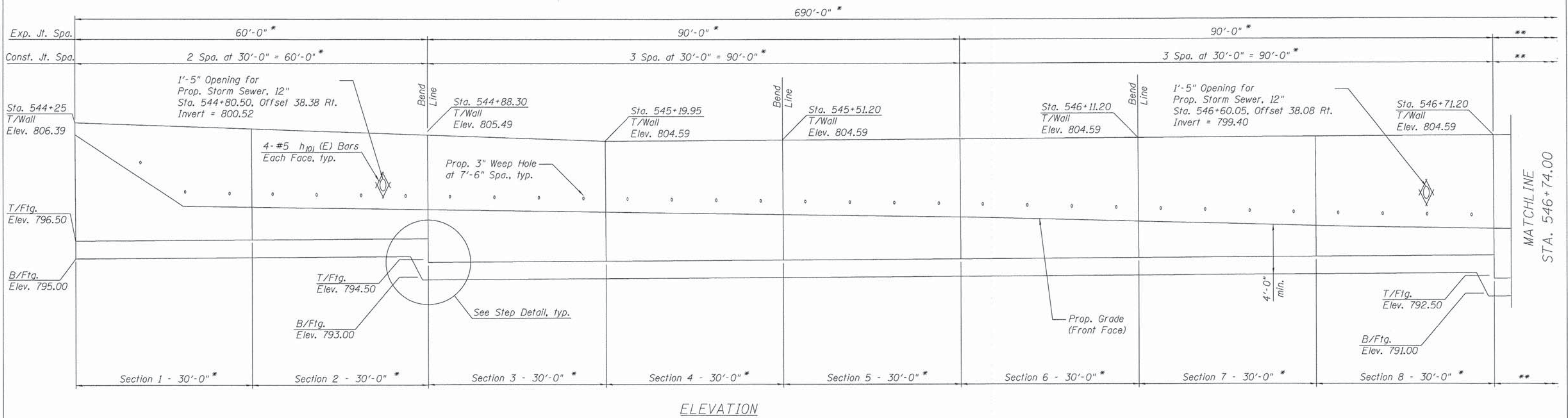
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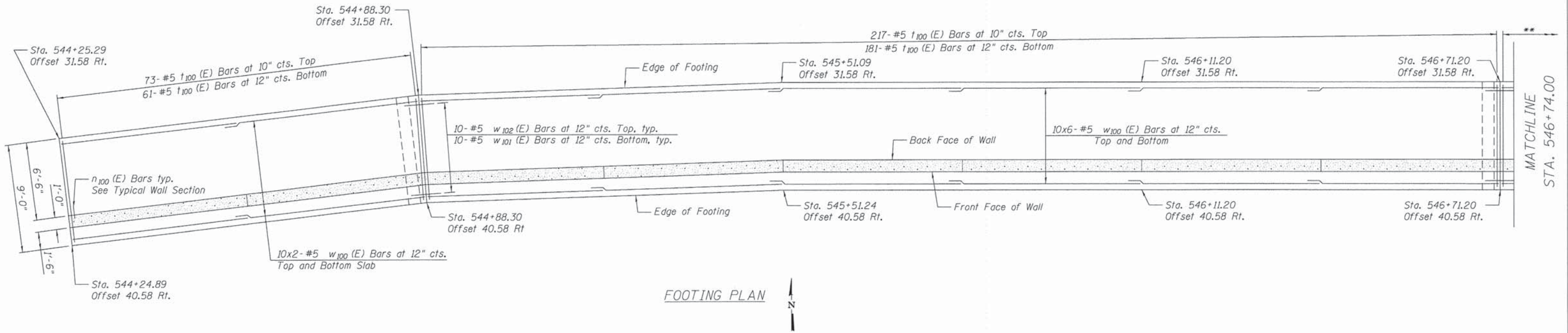
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 PLOT DRIVER: pdf.plt
 PEN TABLE: Struct_22x34.tbl



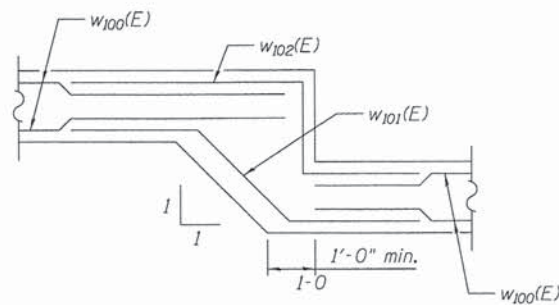
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	3860	09-00372-01-PW	McHENRY	358	209
SA-9 SHEETS	CONTRACT NO. 63892				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



ELEVATION



FOOTING PLAN



STEP DETAIL

* Measured along back face
 ** See next sheet

CHARLES J. MILLER ROAD RETAINING WALL
 WALL ELEVATION & FOOTING PLAN
 STRUCTURE NO. 056-W003

DESIGNED	JPG
CHECKED	RGD
DRAWN	WJH
CHECKED	RGD

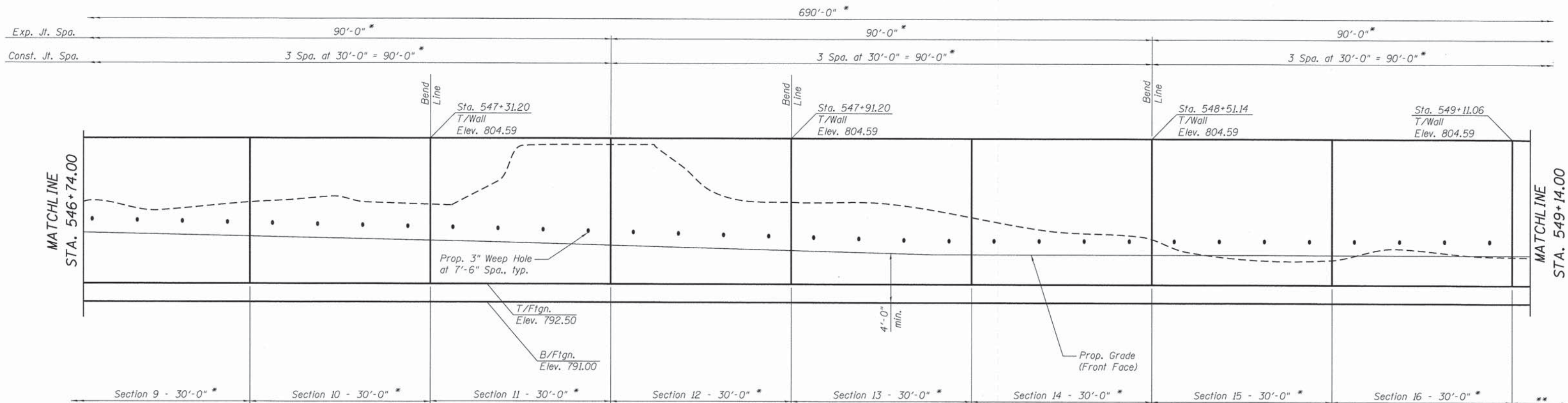
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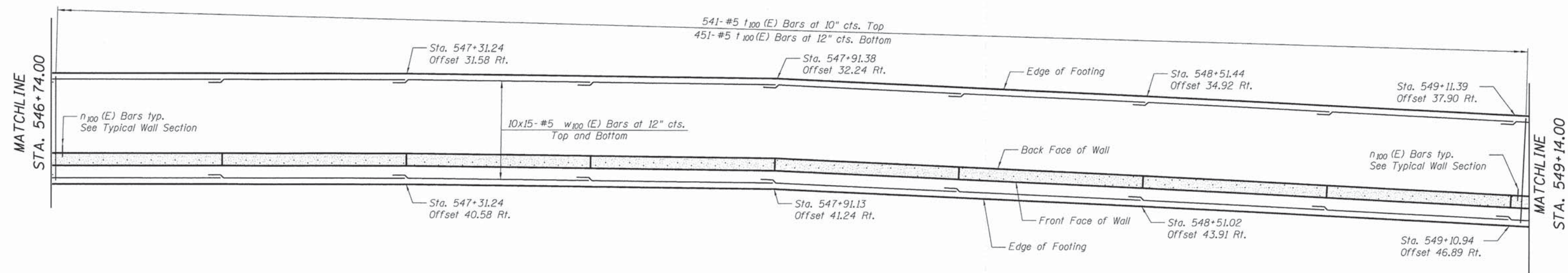
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SHEET NO. SA-3 SA-9 SHEETS	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	3860	09-00372-01-PW	McHENRY	358	210
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT		
CONTRACT NO. 63892					

DATE: 11/12/14



ELEVATION



FOOTING PLAN

* Measured along back face
** See next sheet

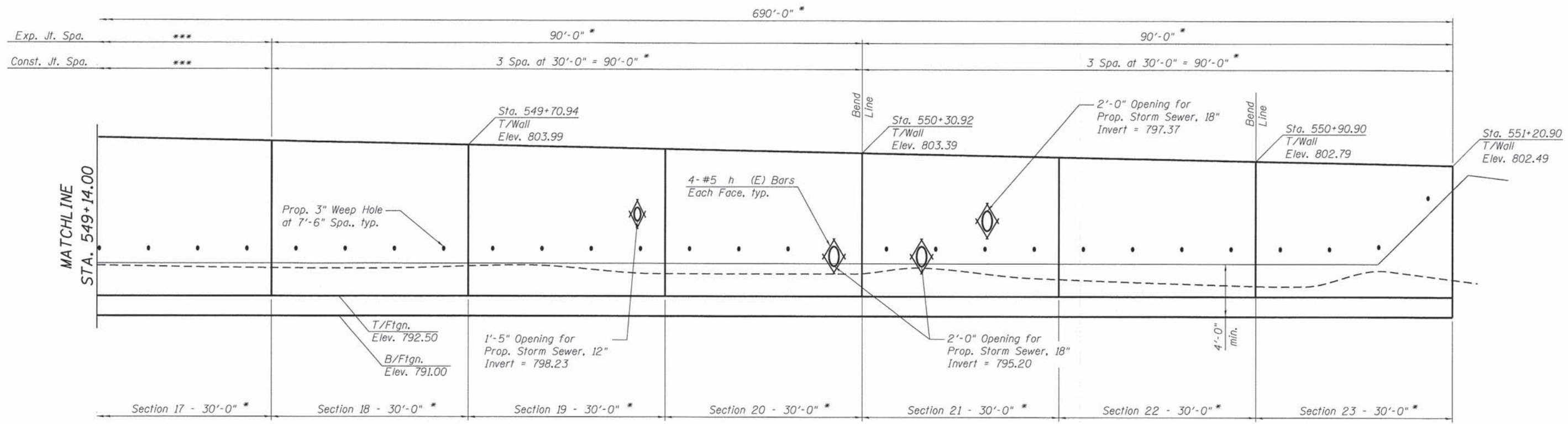
**CHARLES J. MILLER ROAD RETAINING WALL
WALL ELEVATION & FOOTING PLAN
STRUCTURE NO. 056-W003**

DESIGNED	JPG
CHECKED	RGD
DRAWN	WJH
CHECKED	RGD

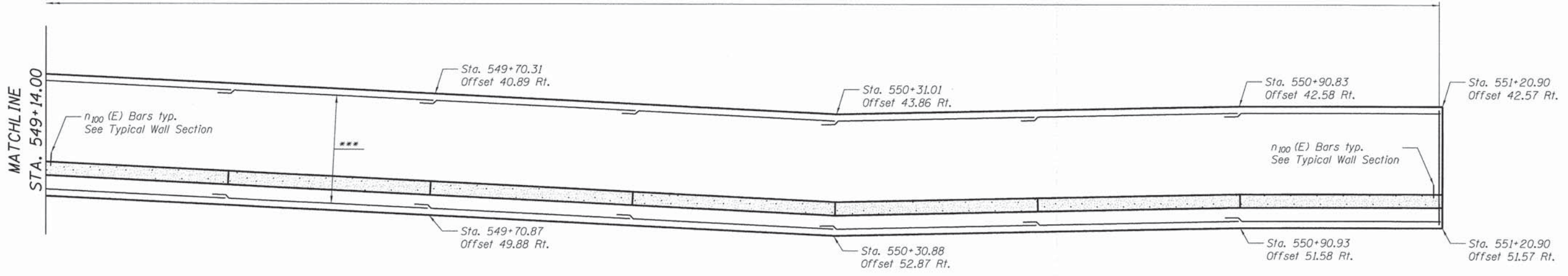


DATE: 11/12/14					
SHEET NO. SA-4	F.A.U. RTE. 3860	SECTION 09-00372-01-PW	COUNTY McHENRY	TOTAL SHEETS 358	SHEET NO. 211
SA-9 SHEETS			CONTRACT NO. 63892		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

FILE NAME: 090071-r01-r02.dgn
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 PEN TABLE: Struct_22x34.tbl



ELEVATION



FOOTING PLAN

* Measured along back face
 *** See previous sheet

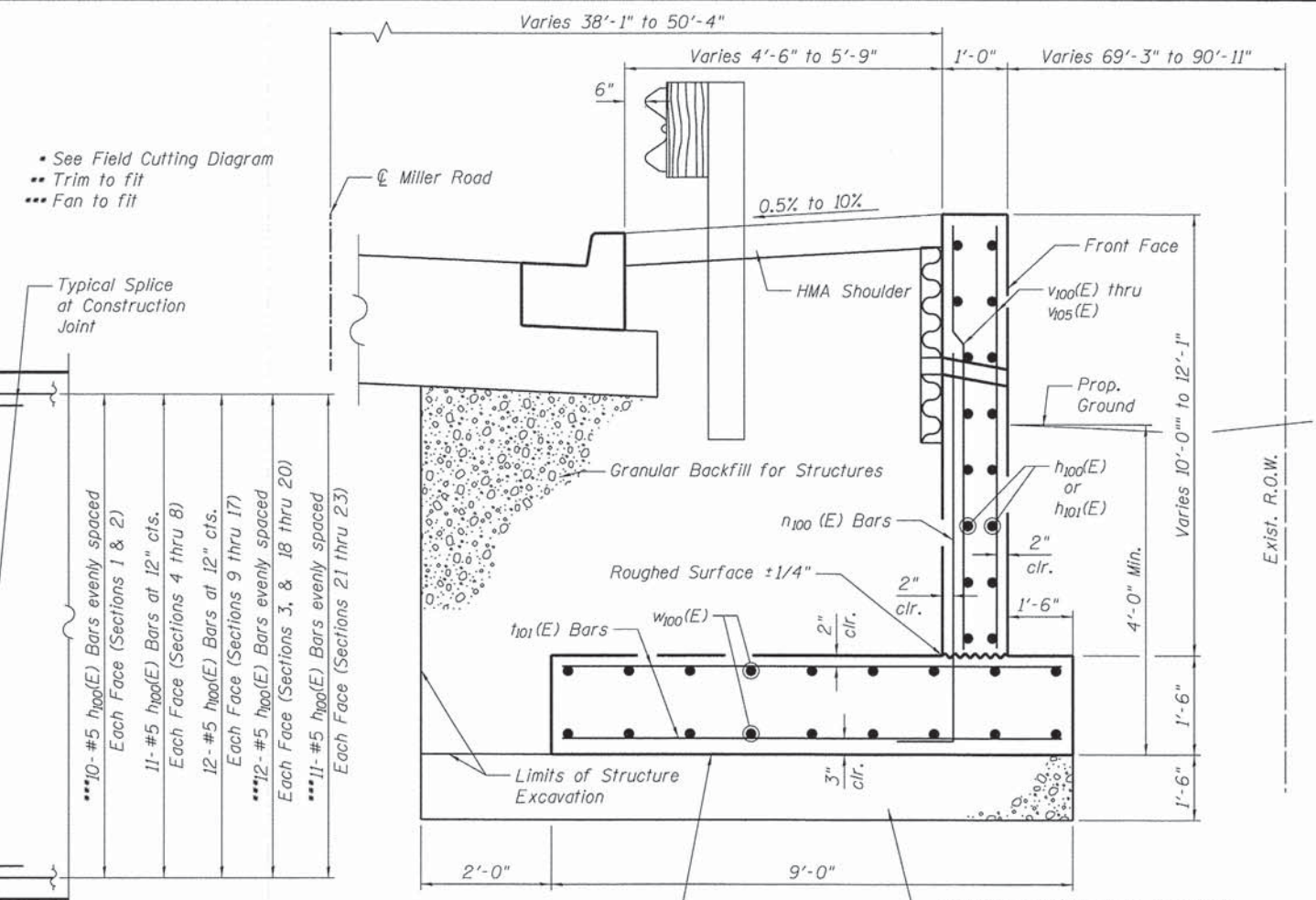
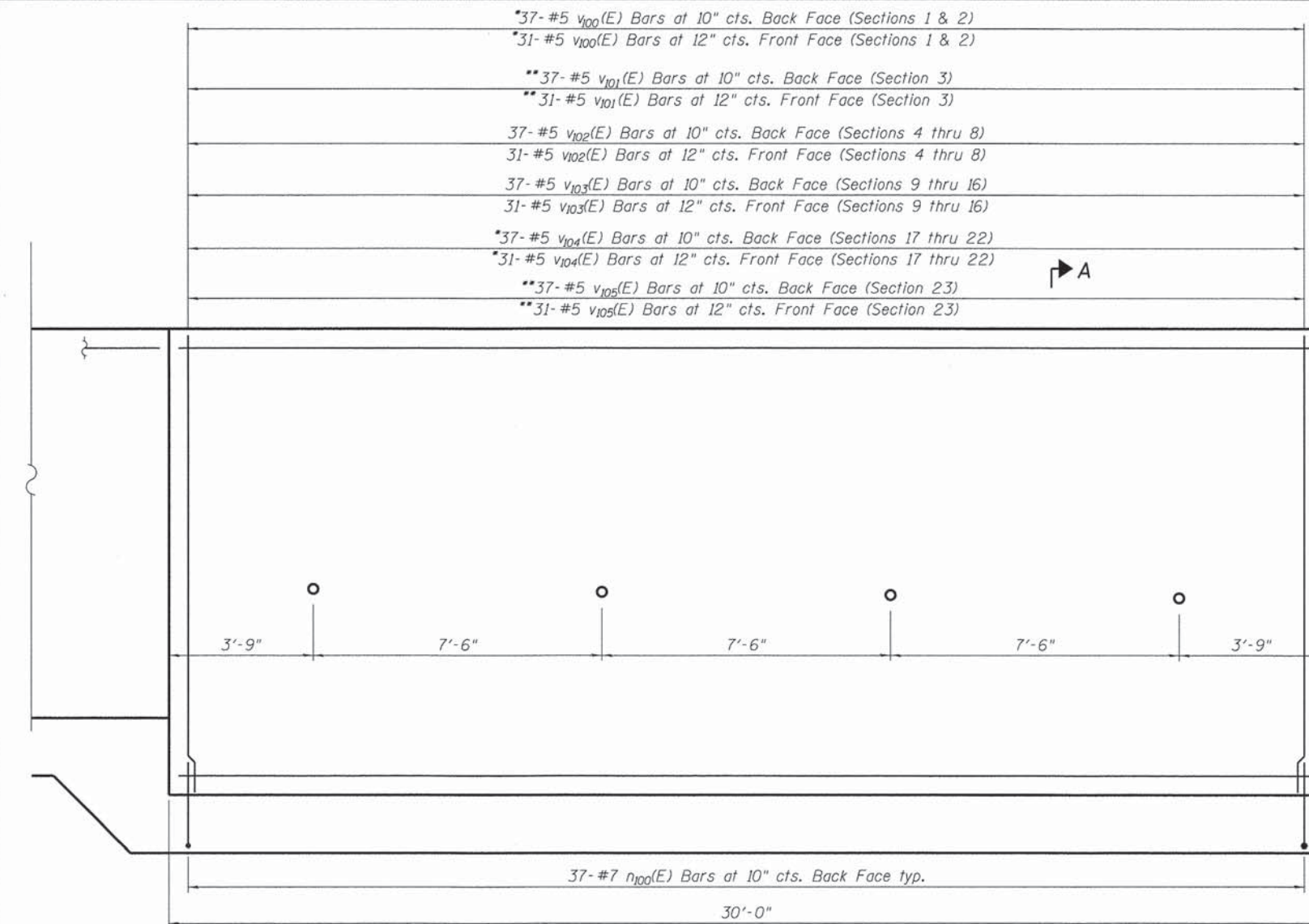
CHARLES J. MILLER ROAD RETAINING WALL
 WALL ELEVATION & FOOTING PLAN
 STRUCTURE NO. 056-W003

DESIGNED	JPG
CHECKED	RGD
DRAWN	WJH
CHECKED	RGD



DATE: 11/12/14				
SHEET NO. SA-5	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS
SA-9 SHEETS	3860	09-00372-01-PW	McHENRY	358
CONTRACT NO. 63892			SHEET NO.	212
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FILE NAME: 09071-r01w03.dgn
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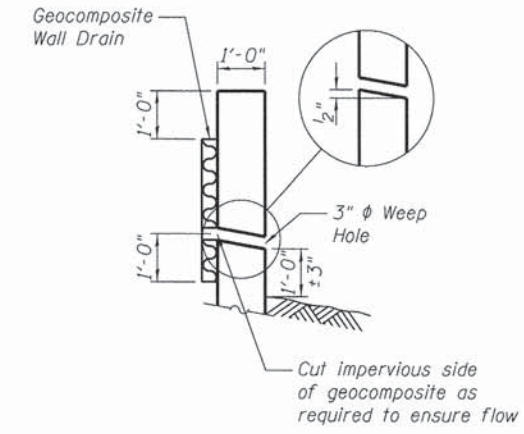


BILL OF MATERIALS

Bar	No.	Size	Length	Shape
h_{100}	504	# 5	33'-3"	—
h_{101}	48	# 5	2'-3"	—
n_{100}	851	# 7	5'-5"	J
t_{100}	1524	# 5	8'-8"	—
v_{100}	68	# 5	17'-11"	—
v_{101}	68	# 5	10'-3"	—
v_{102}	340	# 5	9'-11"	—
v_{103}	544	# 5	11'-11"	—
v_{104}	204	# 5	22'-0"	—
v_{105}	68	# 5	10'-1"	—
w_{100}	460	# 5	33'-3"	—
w_{101}	20	# 5	9'-3"	—
w_{102}	20	# 5	8'-6"	—
Granular Backfill for Structures		Cu. Yd.	2,740	
Structure Excavation		Cu. Yd.	1,995	
Concrete Structures		Cu. Yd.	714.7	
Reinforcement Bars, Epoxy Coated		Pound	74,780	
Geocomposite Wall Drain		Sq. Yd.	652	

$Q_{max} = 2,000$ PSF

SECTION A-A
(Not to Scale)

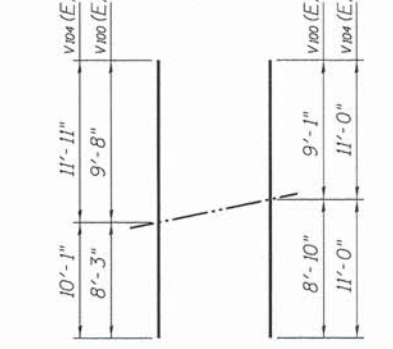


WEEP HOLE DRAIN DETAIL

CHARLES J. MILLER ROAD RETAINING WALL
TYPICAL SECTIONS & DETAILS
STRUCTURE NO. 056-W003

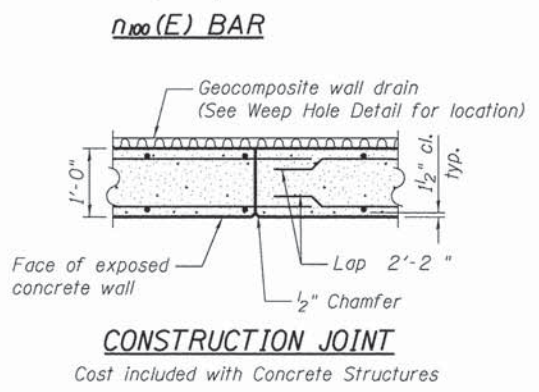
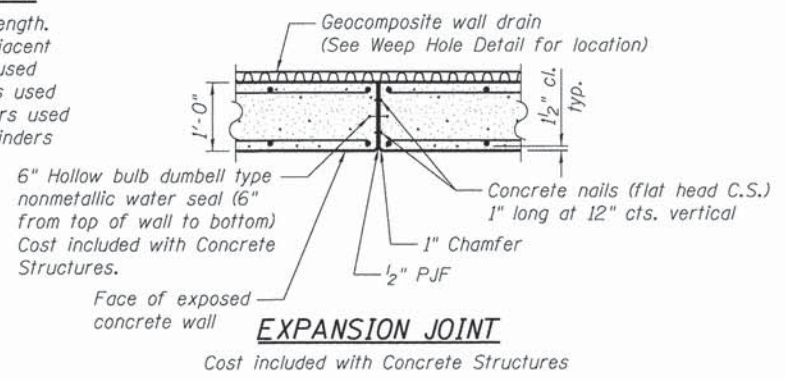
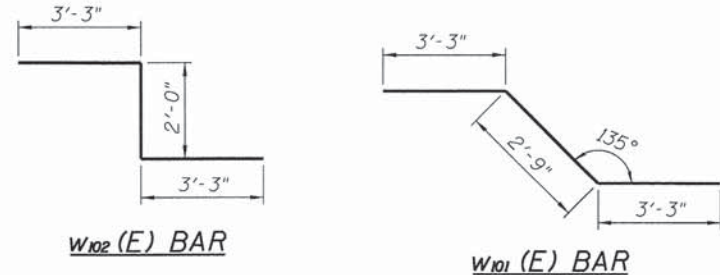
MINIMUM BAR LAP

#5 bar = 3'-3"
(Unless noted otherwise)



$v_{100}(E)$ and $v_{104}(E)$ BARS
FIELD CUTTING DIAGRAM

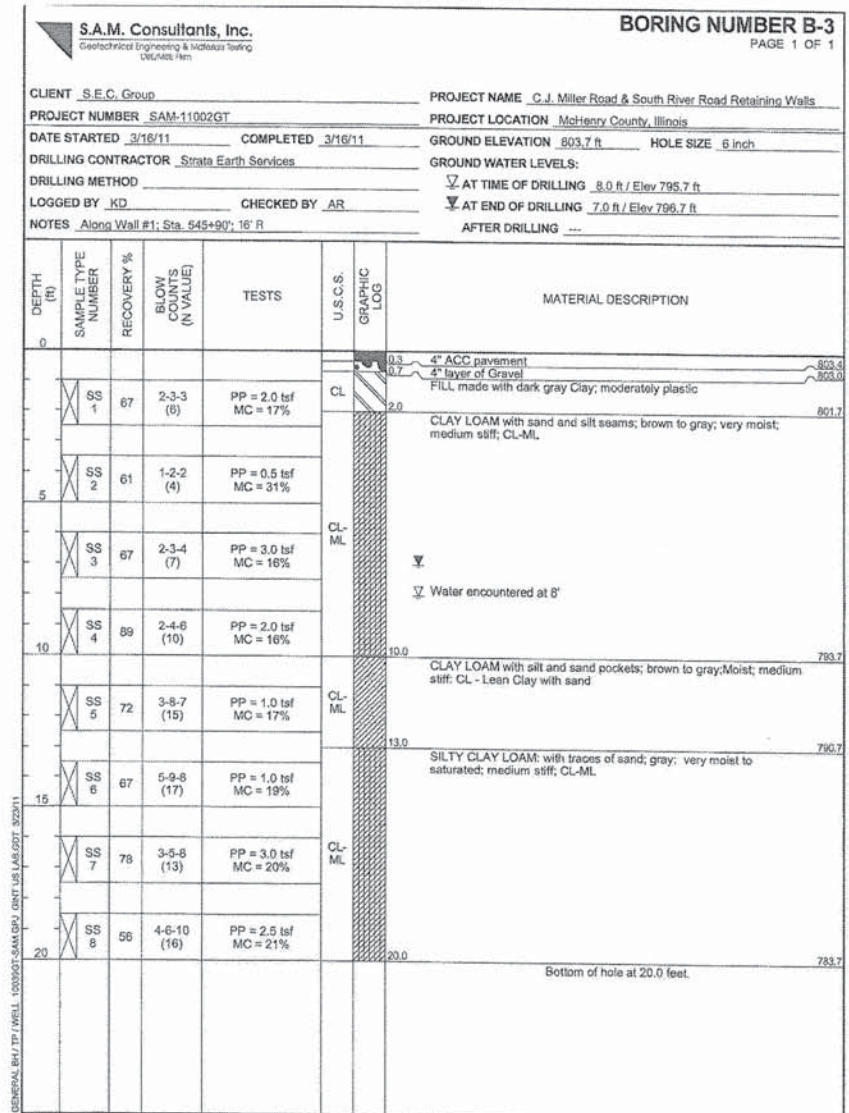
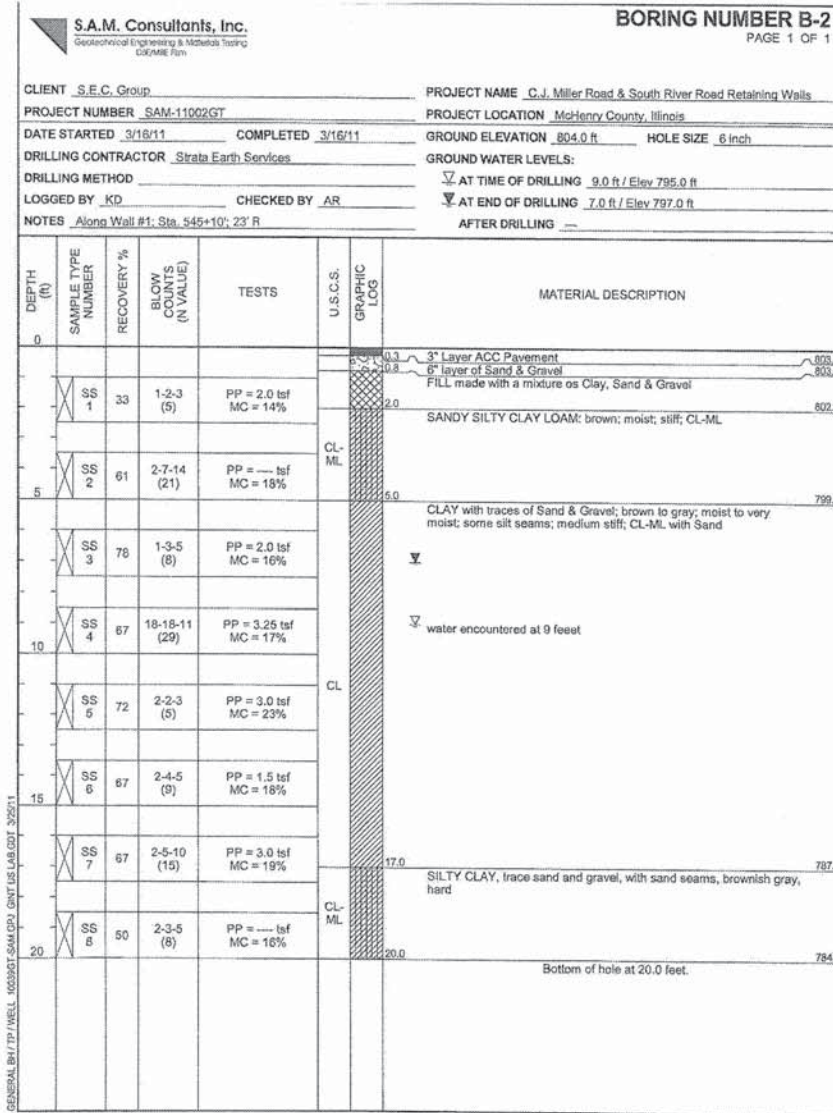
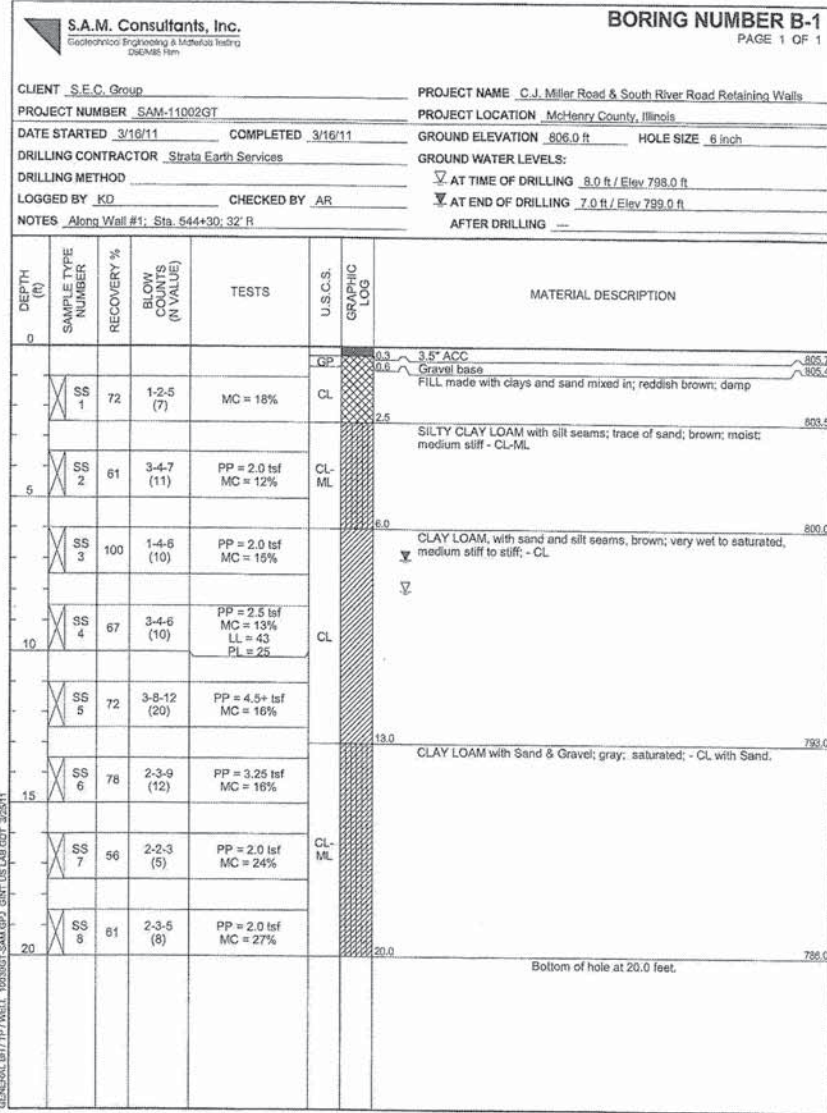
* Order $v_{100}(E)$ and $v_{104}(E)$ bars full length. Cut to fit and use remainder in adjacent wall section. Section 1 remainders used in Section 2, Section 17 remainders used in Section 22, Section 18 remainders used in Section 21, and Section 19 remainders used in Section 20.



DESIGNED	JPG
CHECKED	RGD
DRAWN	WJH
CHECKED	RGD

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DATE: 11/12/14	
SHEET NO. SA-6	F.A.U. RTE. 3860
SECTION 09-00372-01-PW	COUNTY McHENRY
SA-9 SHEETS	TOTAL SHEETS 358
CONTRACT NO. 63892	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



CHARLES J. MILLER ROAD RETAINING WALL
SOIL BORING LOGS
STRUCTURE NO. 056-W003

DESIGNED	JPG
CHECKED	RGD
DRAWN	WJH
CHECKED	RGD

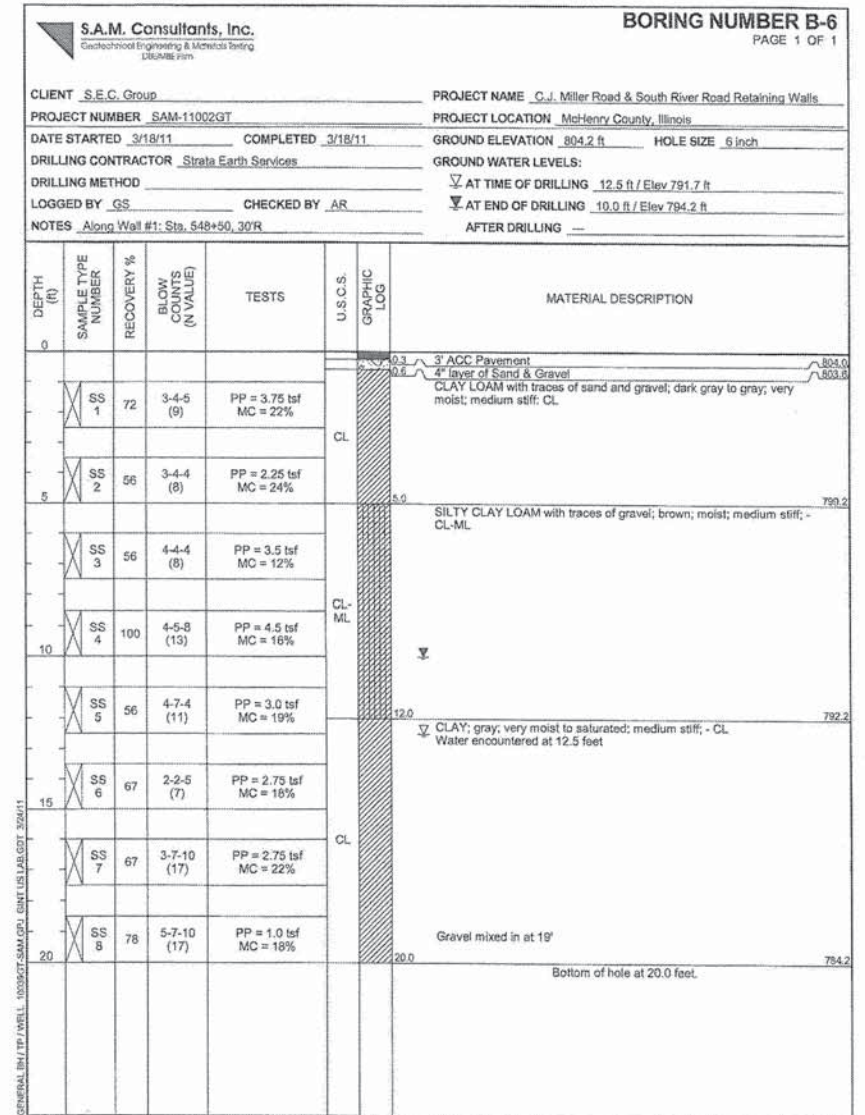
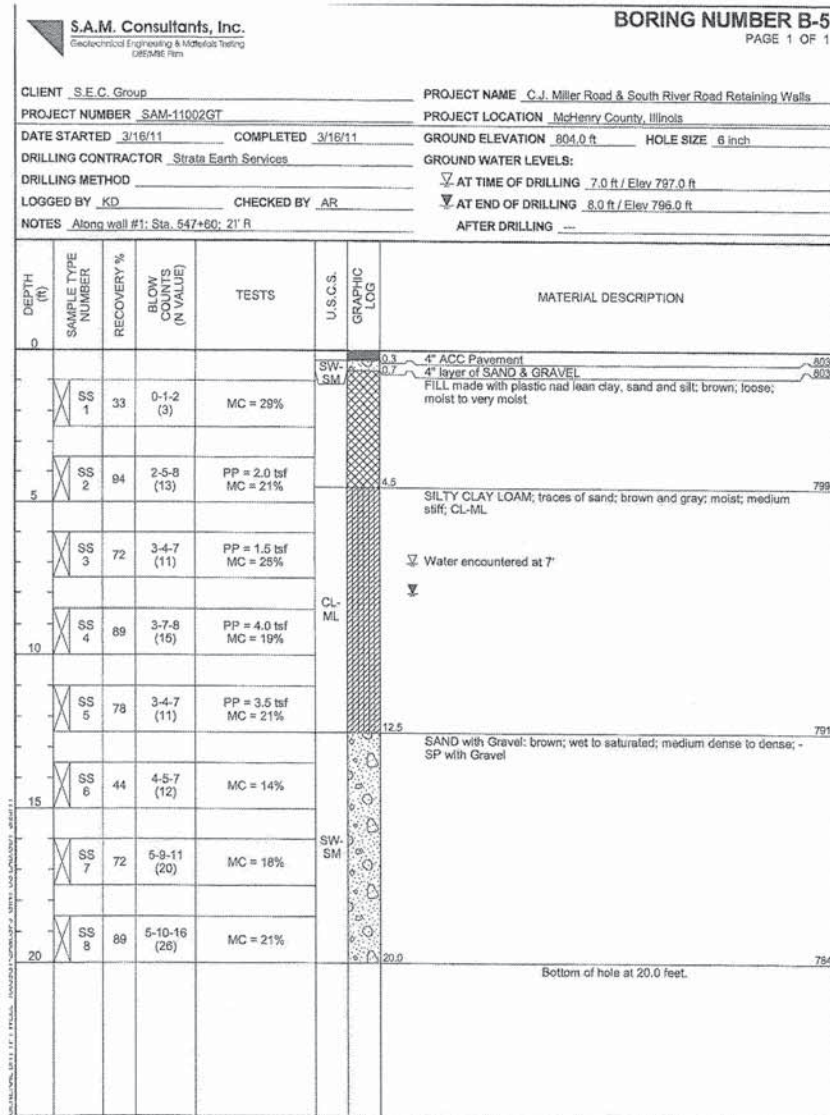
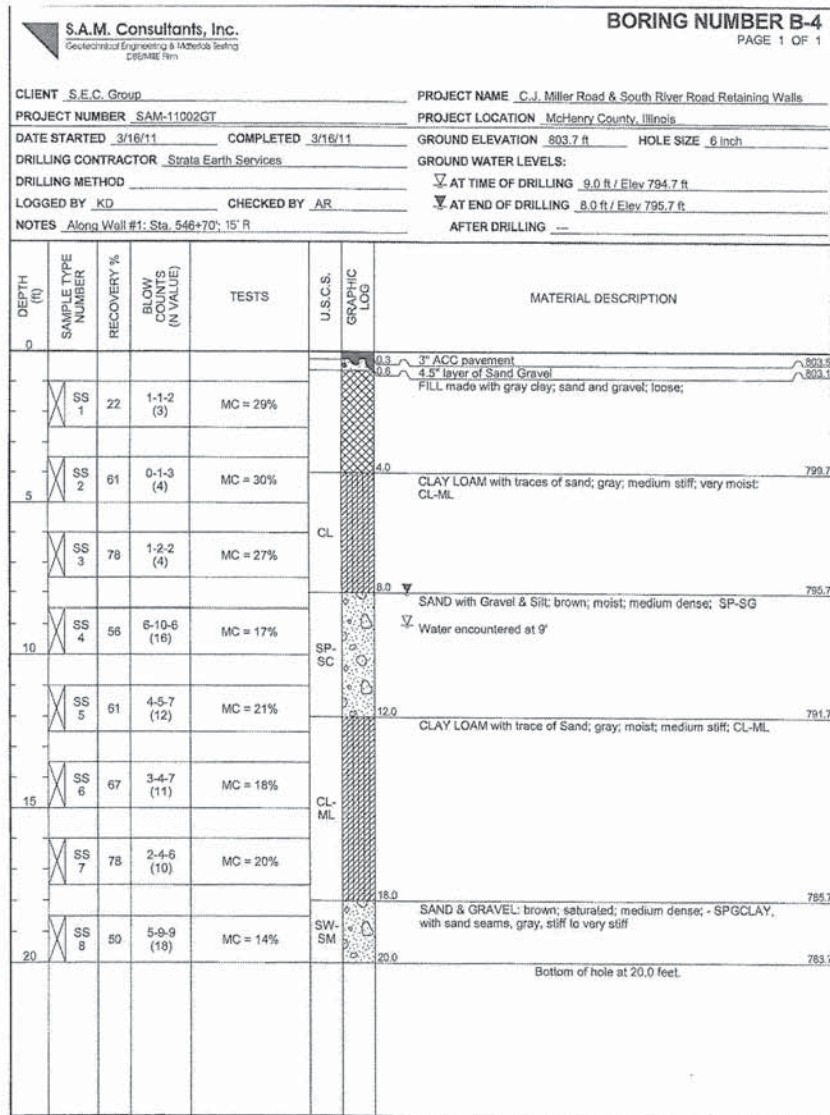


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SHEET NO. SA-7 SA-9 SHEETS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	3860	09-00372-01-PW	McHENRY	358	214
	CONTRACT NO. 63892				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

DATE: 11/12/14

FILE NAME: 090071-5004.dgn
PLOT DRIVER: pdf.plt
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CHARLES J. MILLER ROAD RETAINING WALL
SOIL BORING LOGS
STRUCTURE NO. 056-W003

DATE: 11/12/14

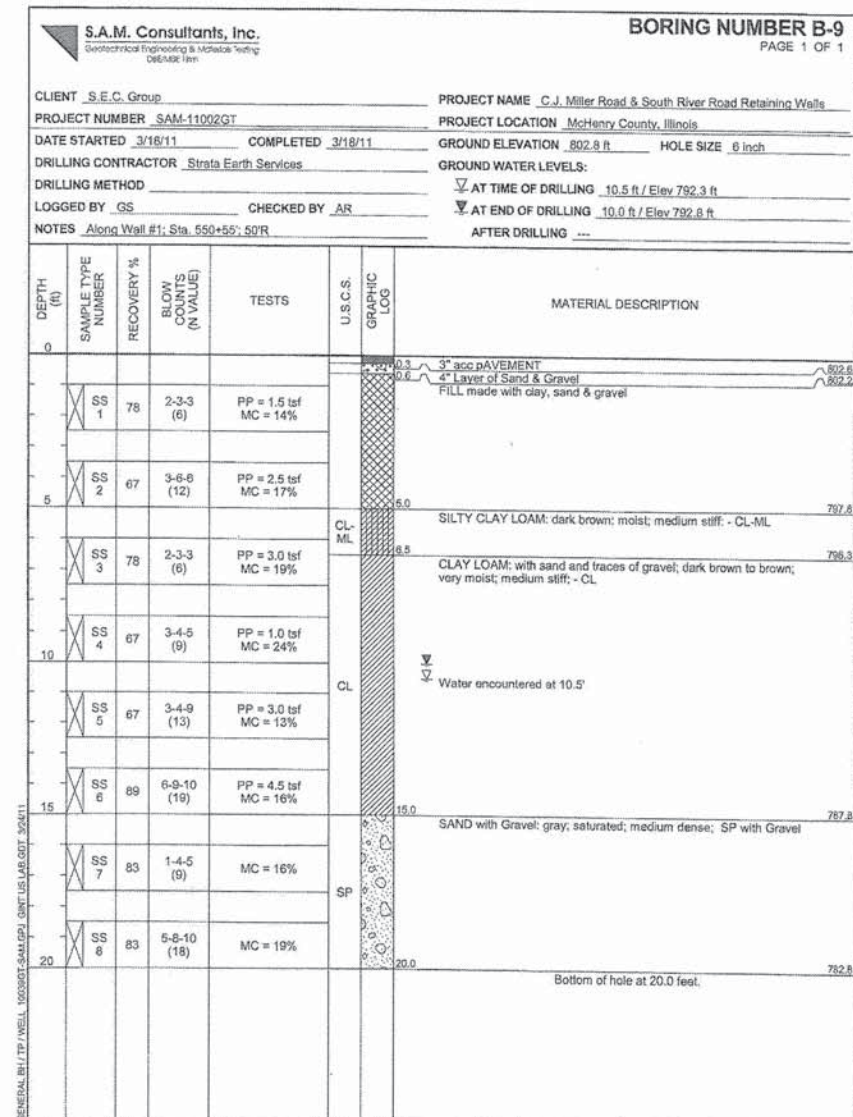
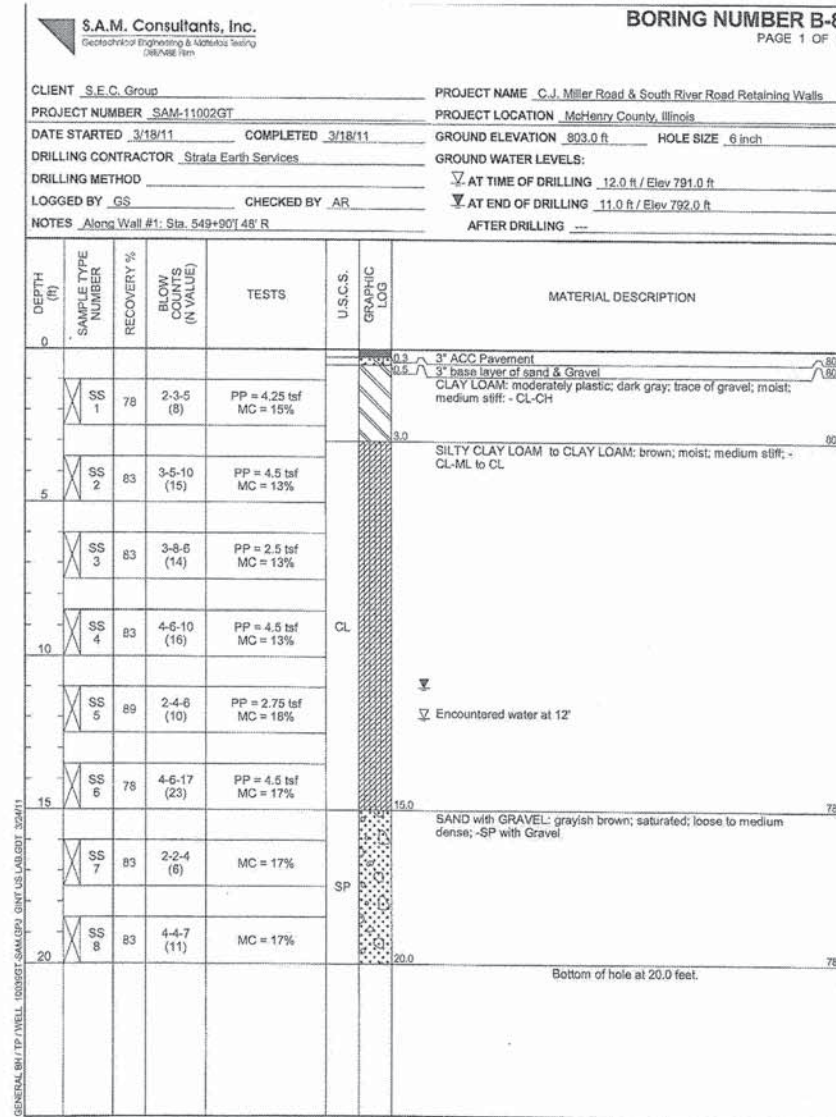
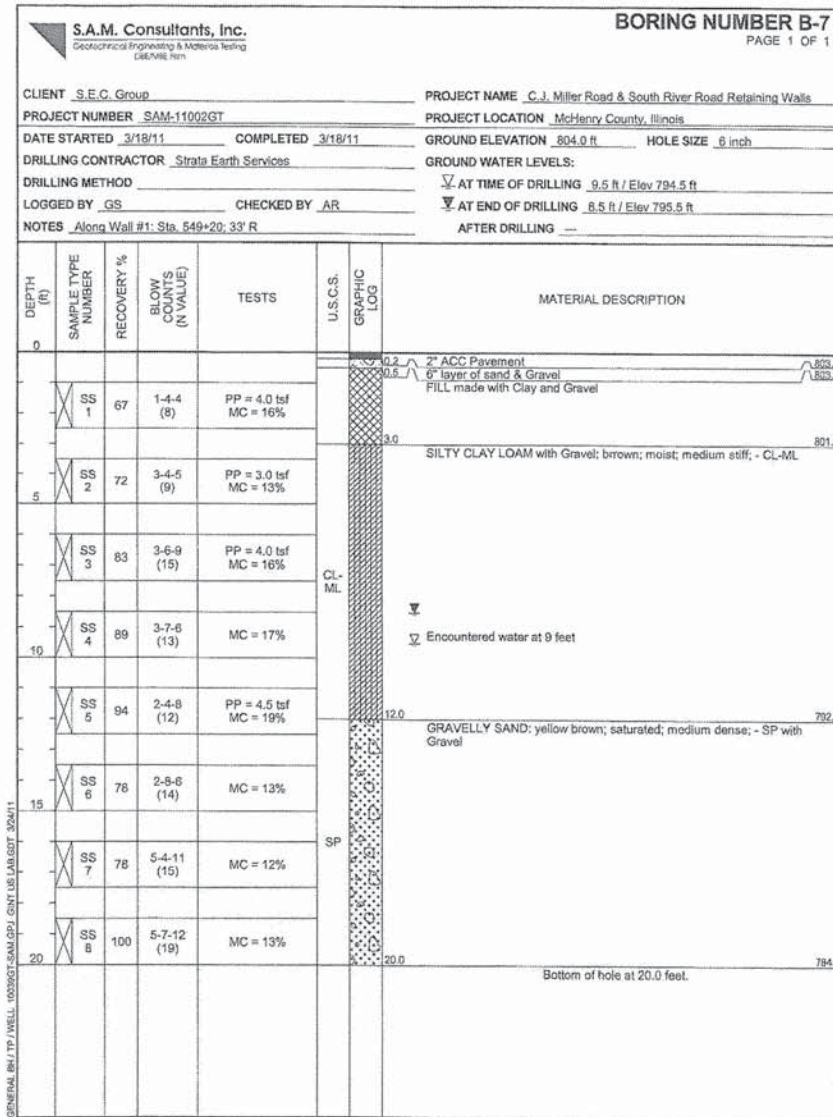
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CHECKED	RGD
DRAWN	WJH
CHECKED	RGD



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SHEET NO. SA - 8	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	3860	09-00372-01-PW	MCHENRY	358	215
SA - 9 SHEETS	CONTRACT NO. 63892				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

FILE NAME: 090071-SB05.dgn
PLOT DRIVER: pdfplot111f.plt
PEN TABLE: Struct 22x34.tbl



CHARLES J. MILLER ROAD RETAINING WALL
SOIL BORING LOGS
STRUCTURE NO. 056-W003

DATE: 11/12/14

DESIGNED	JPG
CHECKED	RGD
DRAWN	WJH
CHECKED	RGD



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SHEET NO. SA-9	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	3860	09-00372-01-PW	MCHEMRY	358	216
SA-9 SHEETS	CONTRACT NO. 63892				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

FILE NAME: 090071-5806.dgn
PLOT DRIVER: pct.def-1174.dft
PEN TABLE: STRUCT-222.dft

F.A.U. RTE.	SECT. NO.	COUNTY	TOTAL SHEETS	SHEET NO.
3860	09-00372-01-PW	MCHENRY	358	217
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO.	63892	

FOR INDEX OF SHEETS, SEE SHEET NO. 2
 FOR LIST OF HIGHWAY STANDARDS, SEE SHEET 2

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL-AID HIGHWAY

FAU 3860 (CHARLES J. MILLER ROAD)
 FAP 336 (ILLINOIS ROUTE 31) TO EAST OF
 FAU 0087 (GREEN STREET)
 RECONSTRUCTION

SECTION: 09-00372-01-PW
 PROJECT: CMM-M-4003(020)
 MCHENRY COUNTY
 JOB: C-91-425-12

TRAFFIC DATA

ADT:

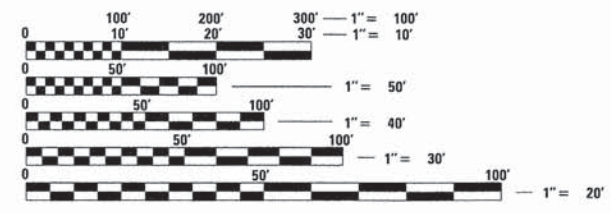
CHARLES J. MILLER ROAD	20,700 VPD (2009)	34,000 VPD (2030)
ILLINOIS ROUTE 31	20,700 VPD (2009)	31,000 VPD (2030)
GREEN STREET/BARREVILLE ROAD	8,200 VPD (2009)	9,000 VPD (2030)

ROADWAY	POSTED SPEED	DESIGN SPEED
BULL VALLEY ROAD	50 MPH (EXISTING)	
CHARLES J. MILLER ROAD	45 MPH (EXISTING/PROPOSED)	45 MPH
ILLINOIS ROUTE 31	45 MPH (EXISTING/PROPOSED)	45 MPH

DESIGN DESIGNATION

FAU 3860 (BULL VALLEY ROAD/CHARLES J. MILLER ROAD) - URBAN MINOR ARTERIAL
 FAP 0336 (ILLINOIS ROUTE 31/Front Street) - OTHER PRINCIPAL ARTERIAL

VOLUME II OF II
**PROJECT LOCATED IN THE
 CITY OF MCHENRY**



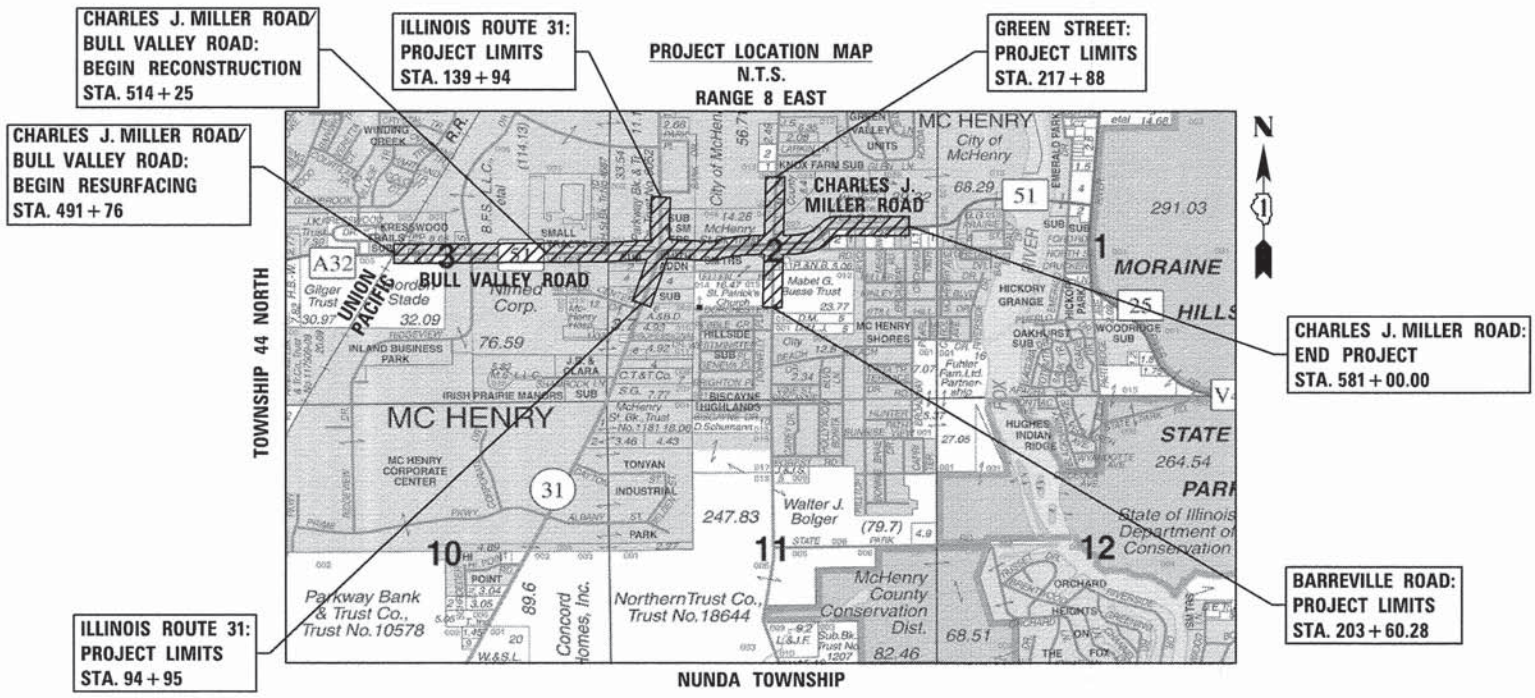
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION CALL 811

Know what's below. Call before you dig.

420 NORTH FRONT STREET, SUITE 100 | MCHENRY, ILLINOIS 60050
 Phone: 815.385.1778 | Toll Free: 800.728.7805 | Fax: 815.385.1781 | HRGreen.com
 ILLINOIS PROFESSIONAL DESIGN FIRM #184-001322

PROJECT MANAGER: J. PISHA
 CONTRACT NO. 63892



PROJECT LENGTH
 NET LENGTH OF PROJECT (CHARLES J. MILLER ROAD) = GROSS LENGTH OF PROJECT = 8,924 FT (1.690 MI)

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

APPROVED _____ 20____
 COUNTY ENGINEER, MCHENRY COUNTY

PASSED _____ 20____
 DISTRICT ONE ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID
 BASED ON LIMITED REVIEW _____ 20____
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

**PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS**

FEDERAL AID ENGINEER: FAWAD AQUEEL, P.E., 847-705-4021 SCHAUMBURG

COMPANY NAME: 11/11/2014 10:55:59 AM
 PROJECT CONTACT: 090071-cv-02.dgn
 CLIENT: pdt/dpt
 FILE NAME: s:\frank-d-trans.tbl
 PLOT DRIVER:
 PEN TABLE:

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VOLUME I

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2	INDEX OF SHEETS AND LIST OF STATE STANDARDS
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18 - 25	SCHEDULE OF QUANTITIES
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112	DRAINAGE AND UTILITY PLAN AND PROFILE - GREEN STREET/BARREVILLE ROAD
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155	PROPOSED INTERSECTION ELEVATION PLAN - CHARLES J. MILLER ROAD AT GREEN STREET/BARREVILLE ROAD
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187 - 190	TEMPORARY TRAFFIC SIGNAL PLAN - CHARLES J. MILLER ROAD AT GREEN STREET
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196	TEMPORARY INTERCONNECT SCHEMATIC - CHARLES J. MILLER ROAD AND IL ROUTE 31
197	INTERCONNECT PLAN - CHARLES J. MILLER ROAD AND IL ROUTE 31
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202	LIGHTING PLAN - WIRING DIAGRAM
203	LIGHTING PLAN - ELECTRIC SERVICE INSTALLATION ABOVE GROUND (BE-220)
204	LIGHTING PLAN - ALUMINUM LIGHT POLE 40'-0" MOUNTING HEIGHT
205	LIGHTING PLAN - MISCELLANEOUS ELECTRICAL DETAILS
206	LIGHTING PLAN - LIGHT POLE FOUNDATION, METAL
207	LIGHTING PLAN - LIGHTING CONTROLLER
208 - 216	STRUCTURAL PLAN - CHARLES J. MILLER ROAD RETAINING WALL #1

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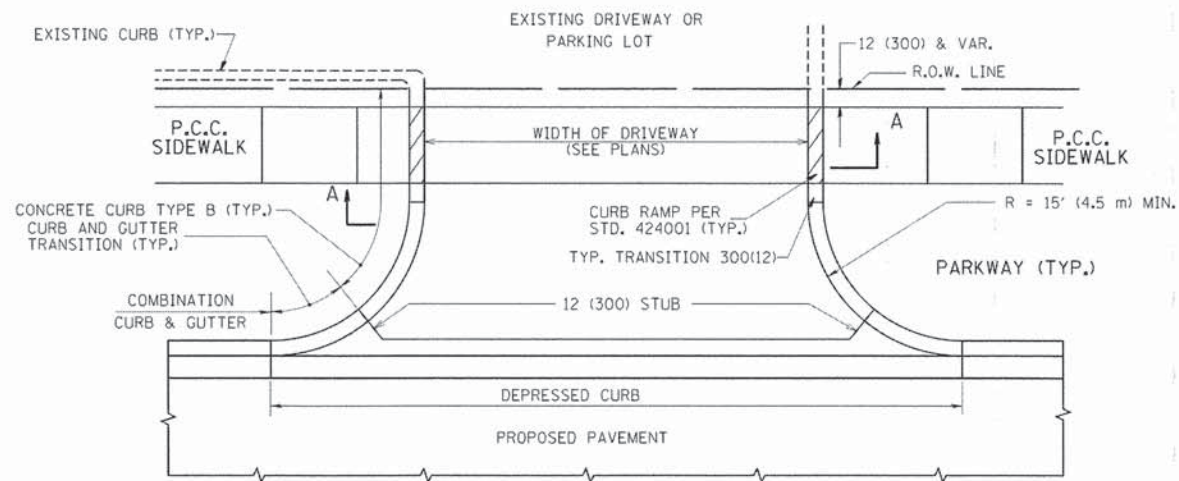
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

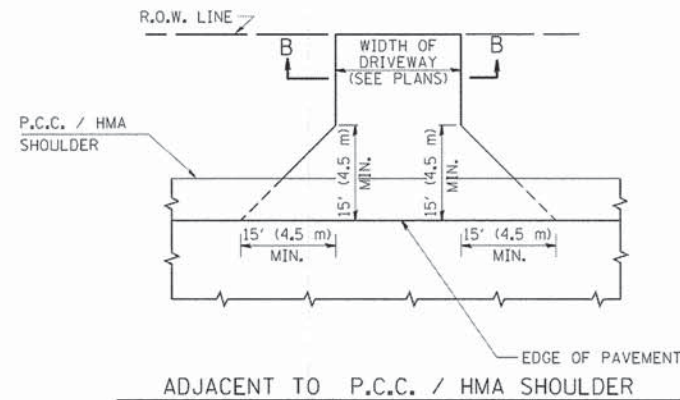
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CHARLES J. MILLER ROAD ROADWAY IMPROVEMENTS**

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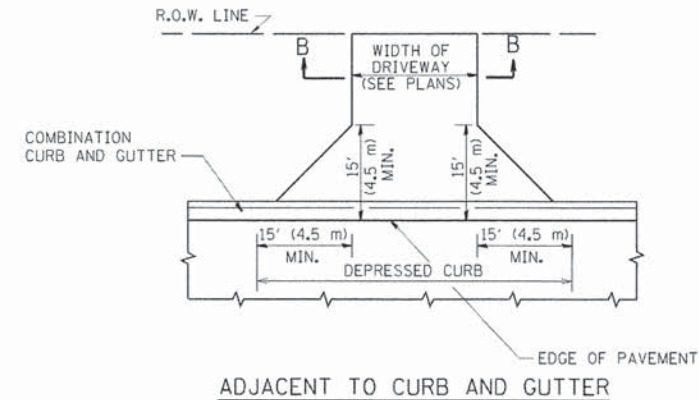
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FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63892	



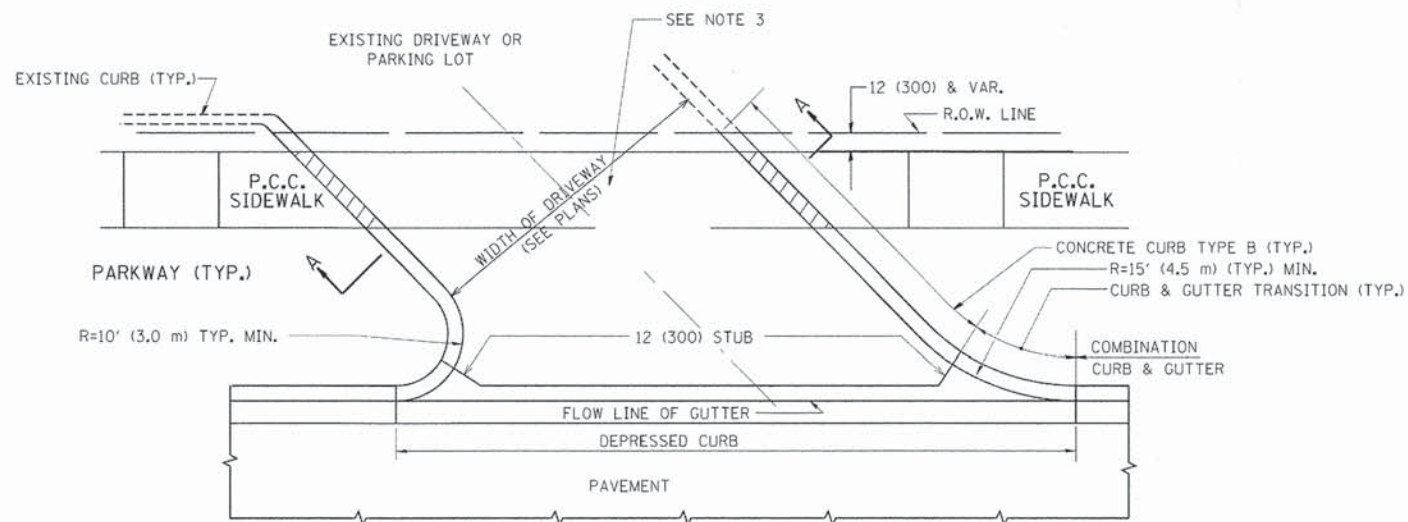
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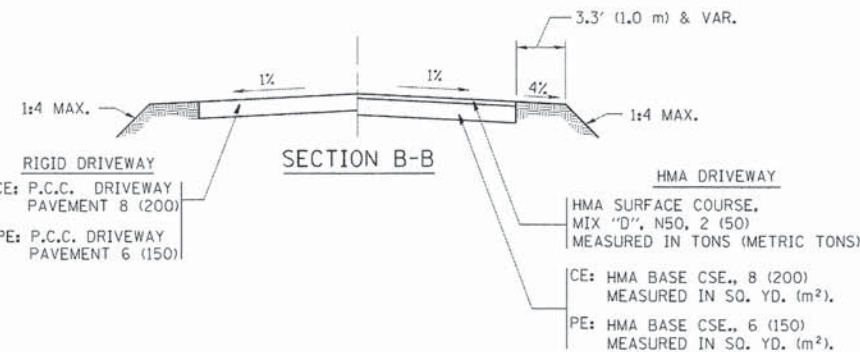
ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



WITH CONCRETE CURB, TYPE B



SECTION B-B

RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE, MIX "D", N50, 2 (50) MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE CSE., TYPE B, 8 (200) MEASURED IN SQ. YD. (m²).

GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

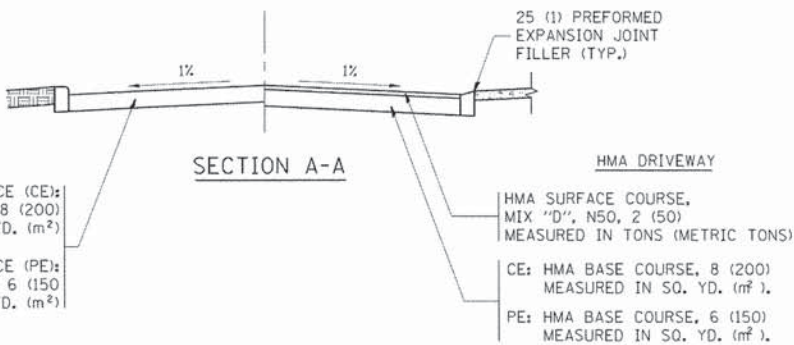
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB. CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.



SECTION A-A

RIGID DRIVEWAY
COMMERCIAL ENTRANCE (CE): P.C.C. DRIVEWAY PAVEMENT 8 (200) MEASURED IN SQ. YD. (m²)
NON-COMMERCIAL ENTRANCE (PE): P.C.C. DRIVEWAY PAVEMENT 6 (150) MEASURED IN SQ. YD. (m²)

HMA DRIVEWAY
HMA SURFACE COURSE, MIX "D", N50, 2 (50) MEASURED IN TONS (METRIC TONS)
CE: HMA BASE COURSE, 8 (200) MEASURED IN SQ. YD. (m²).
PE: HMA BASE COURSE, 6 (150) MEASURED IN SQ. YD. (m²).

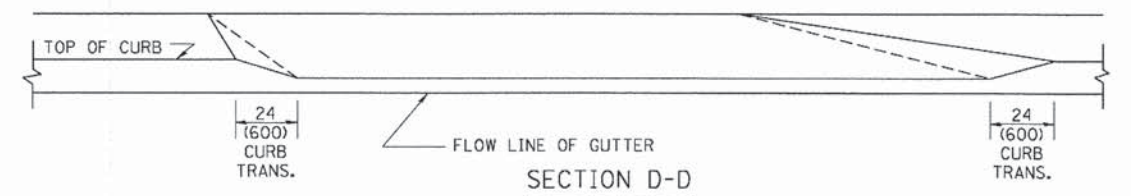
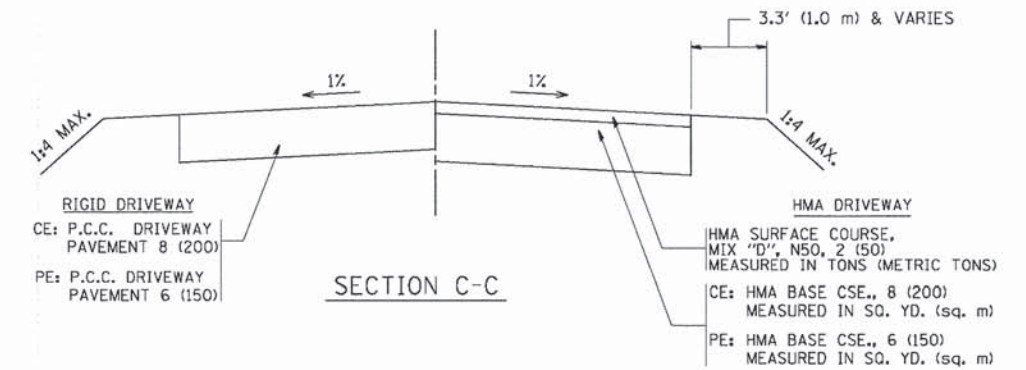
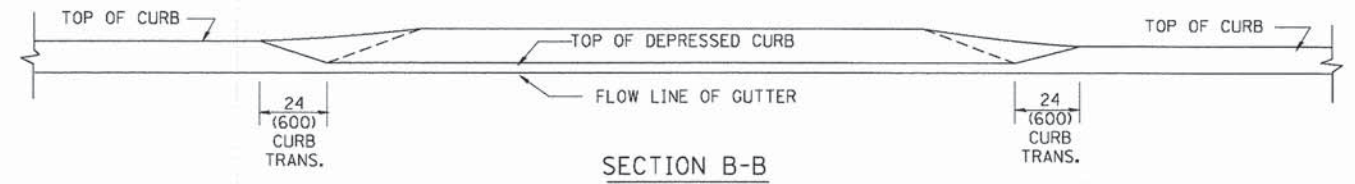
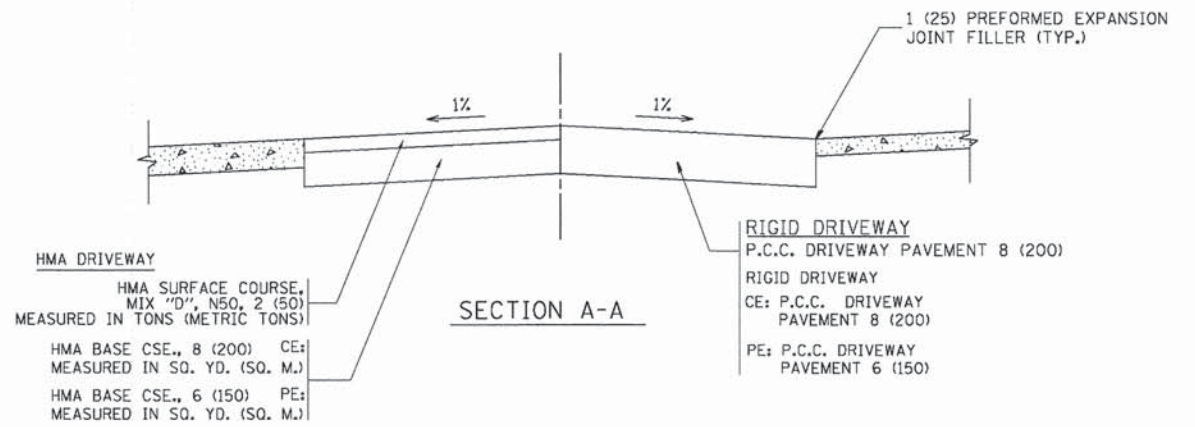
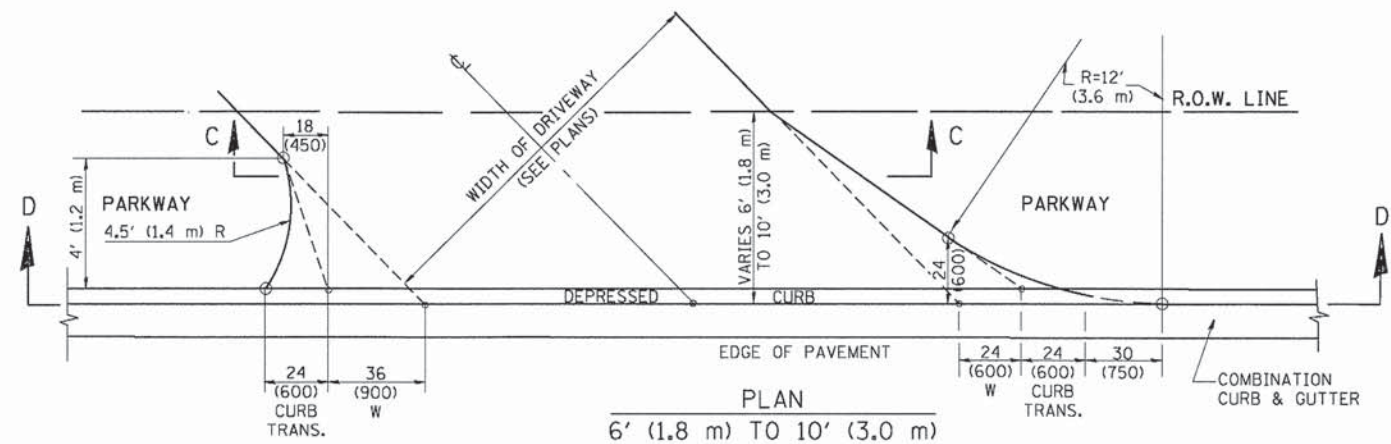
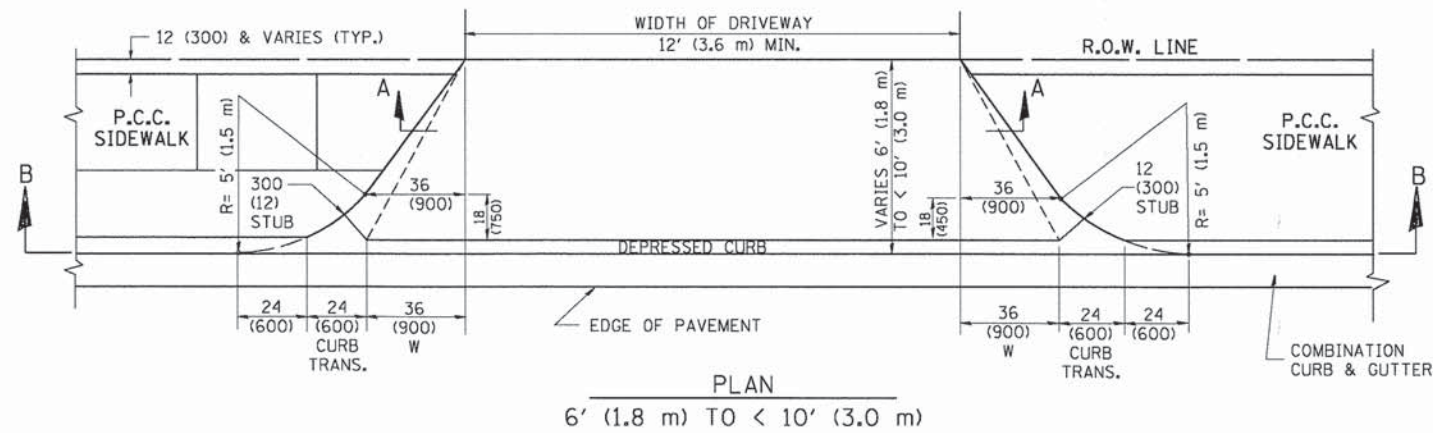
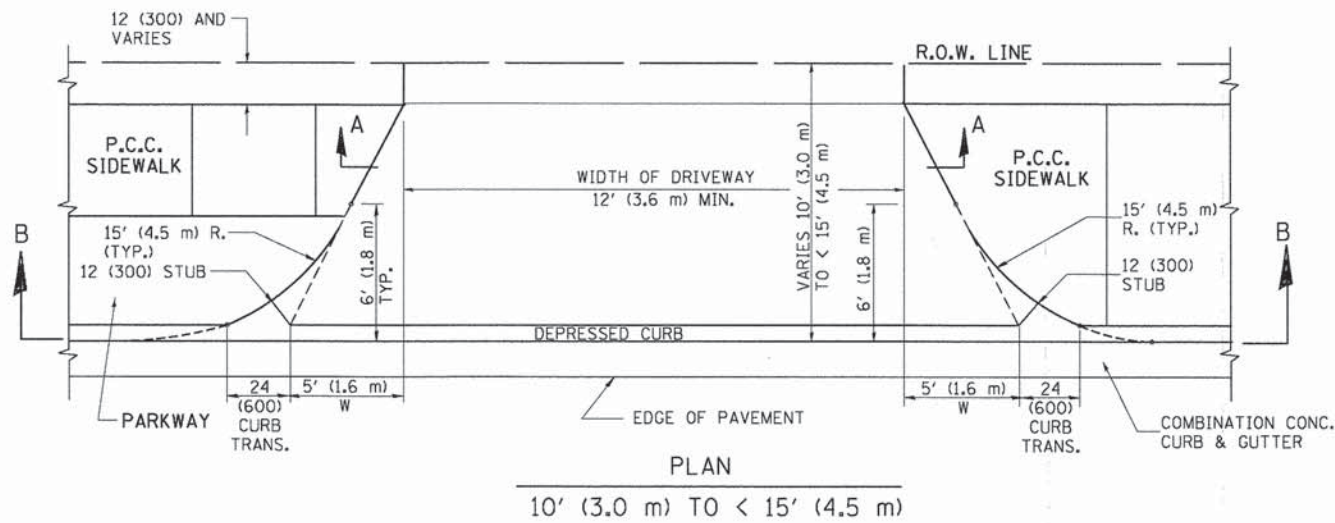
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BD0156-07 (BD-01)			CONTRACT NO. 63892	
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				



GENERAL NOTES

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

THE 1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

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

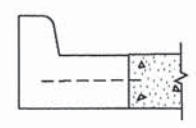
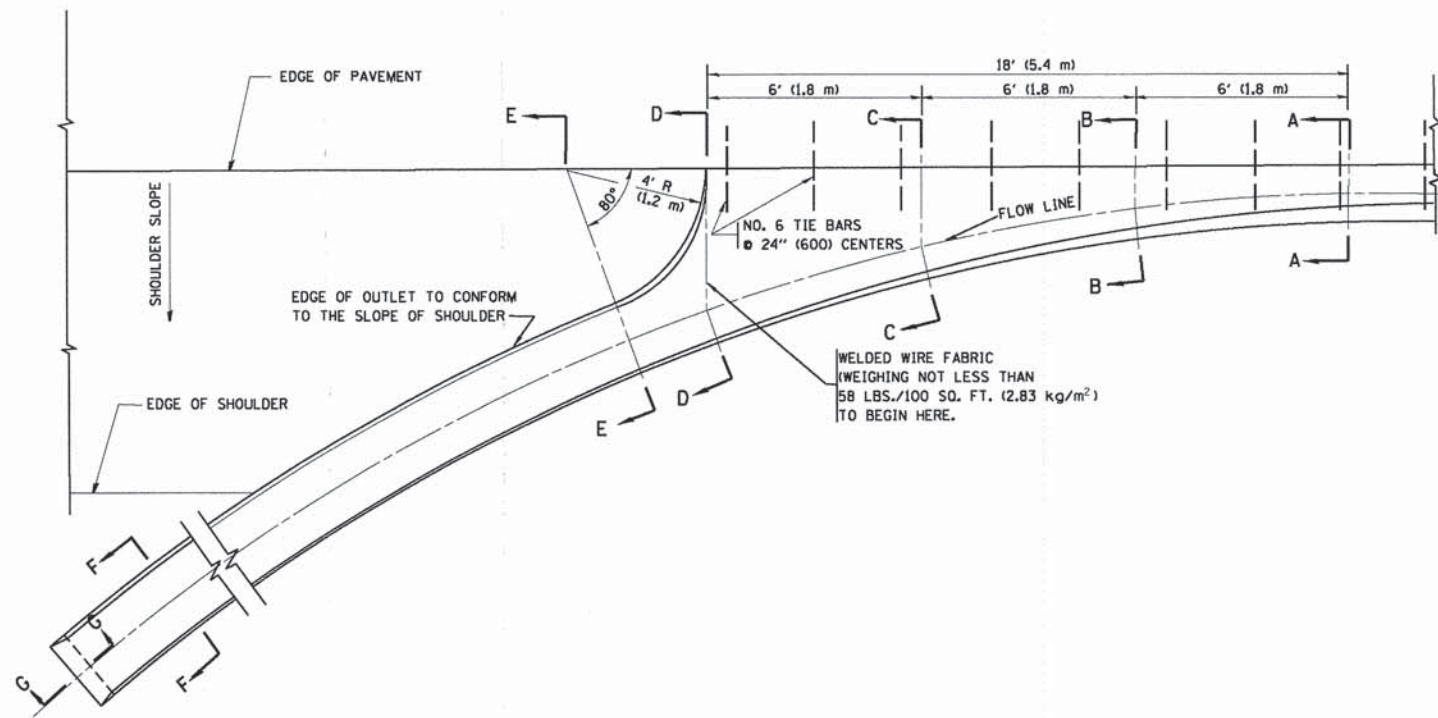
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

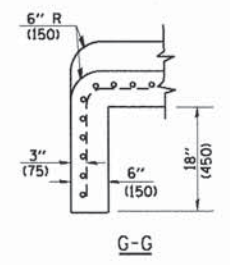
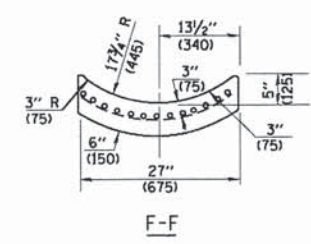
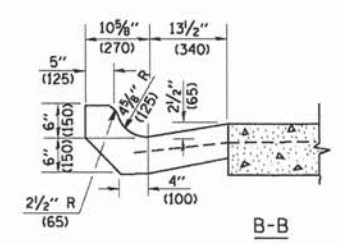
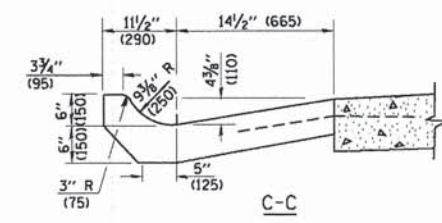
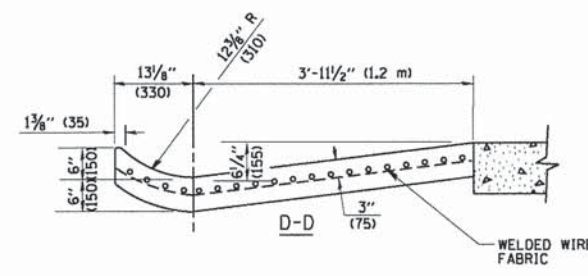
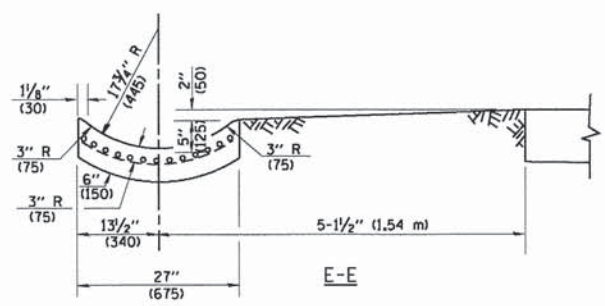
DRIVEWAY DETAILS			
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3860	09-00372-01-PW	MCHENRY	358	220
BD400-02 (BD-02)		CONTRACT NO. 63892		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



A-A *

* DIMENSIONS OF THE CURB & GUTTER AT SECTION A-A ARE SHOWN ON STATE STANDARD 606001. FOR DETAILS OF OUTLET FOR CONCRETE CURB & GUTTER, TYPE B-6.24 (B-15.60) SEE STATE STANDARD 606006.



GENERAL NOTES

GUTTER OUTLET SHALL BE TIED TO THE PAVEMENT IN ACCORDANCE WITH DETAILS FOR LONGITUDINAL CONSTRUCTION JOINT SHOWN ON STANDARD 420001.

TIE BARS SHALL BE NO. 20 (NO.6) AT 24\"/>

IF THE AVERAGE GRADE OF PAVEMENT FOR THE DISTANCE FROM SECTION A-A TO D-D EXCEEDS 2%, THIS DISTANCE SHALL BE INCREASED 6' (1.8 m) FOR EACH 1% INCREASE IN GRADE.

QUANTITIES

FOR SECTION A-A TO E-E AND CURTAIN WALL = 1.25 CU. YDS. (0.96 m³) CLASS S1 CONCRETE (OUTLET) FOR 9\"/>

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

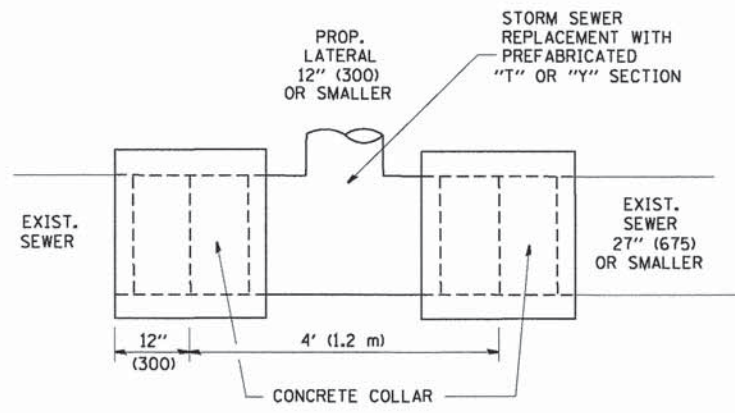
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

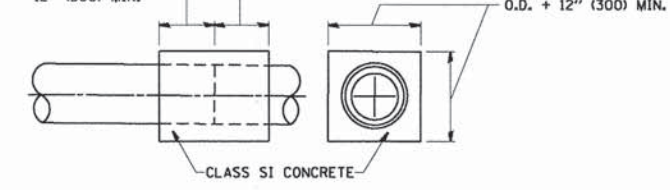
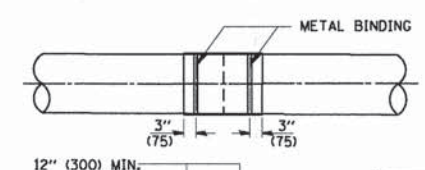
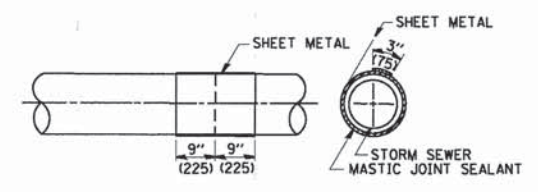
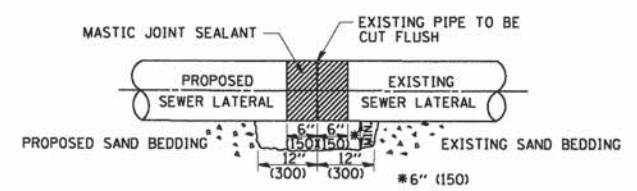
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BD600-01 (BD-03)		CONTRACT NO.	63892	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DETAIL "A"

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

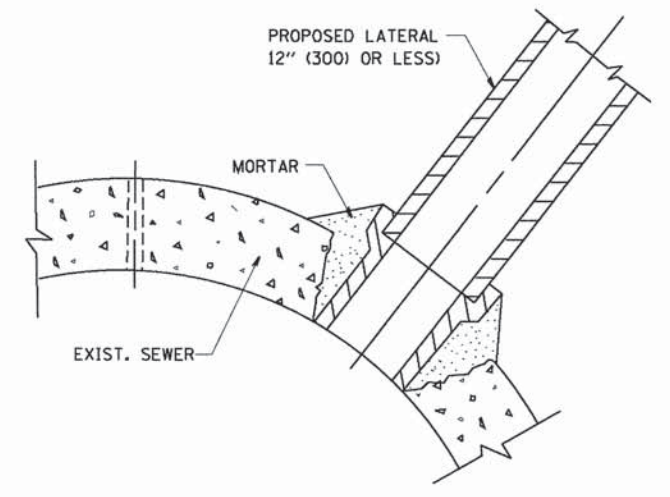


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

- CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
- APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
- BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12' x 6' (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
- 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.
- WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
- LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
- PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
- WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OZZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
- 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.

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

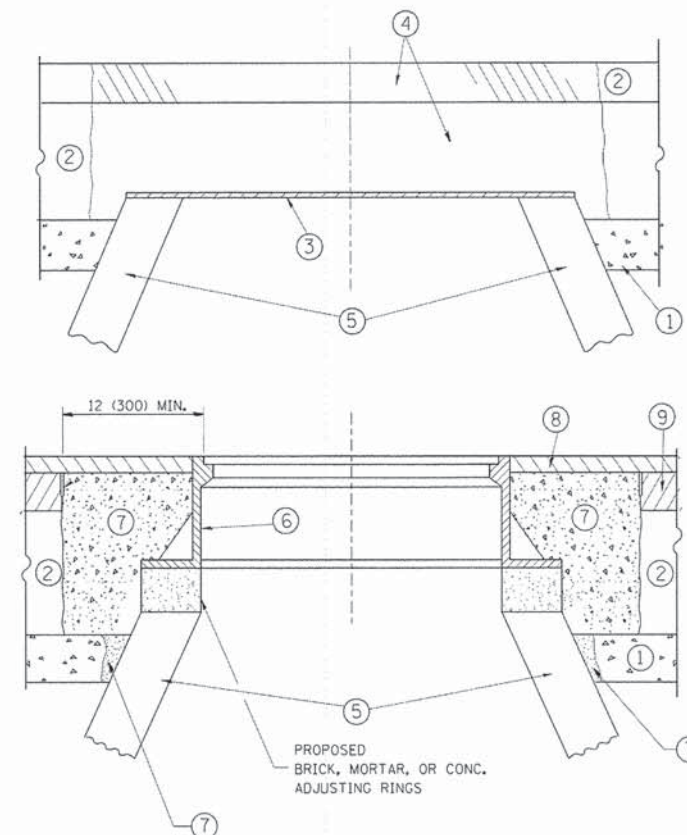
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			REVISED - R. SHAH 06-12-96

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3860	09-00372-01-PW	MCHENRY	358	222
BD500-01 (BD-7)			CONTRACT NO. 63892	
FED. ROAD DIST. NO. 1 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 1 1/2 (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

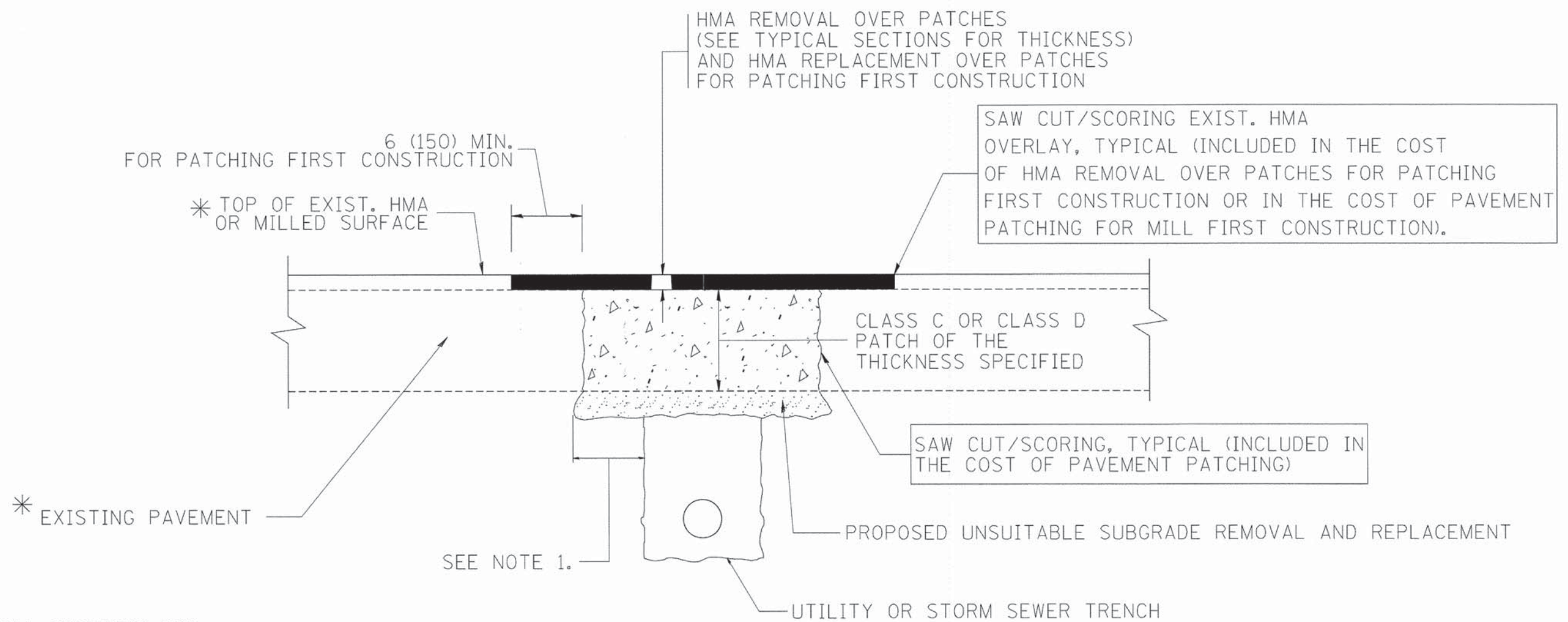
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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		PLOT SCALE = 1/648.50000 ' / m	REVISED - R. BORO 03-09-11
		PLOT DATE = 12/6/2011	REVISED - R. BORO 12-06-11
		DATE - 10-25-94	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	3860	09-00372-01-PW	MCHENRY	358	223
		BD600-03 (BD-8)		CONTRACT NO.	63892	
		FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

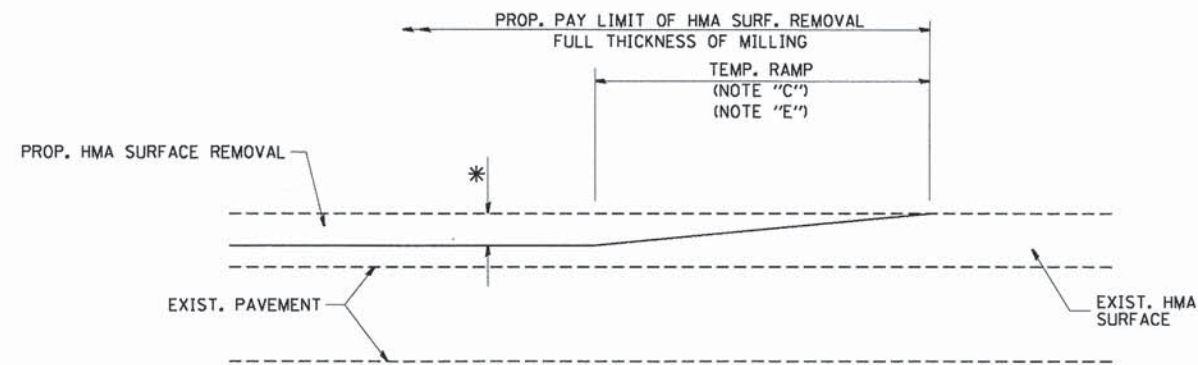
SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

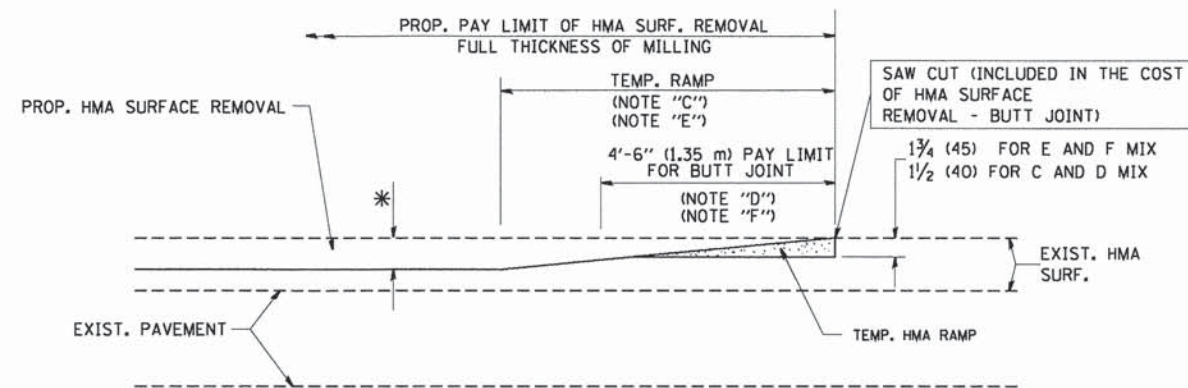
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PLOT DATE = 10/27/2008		DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



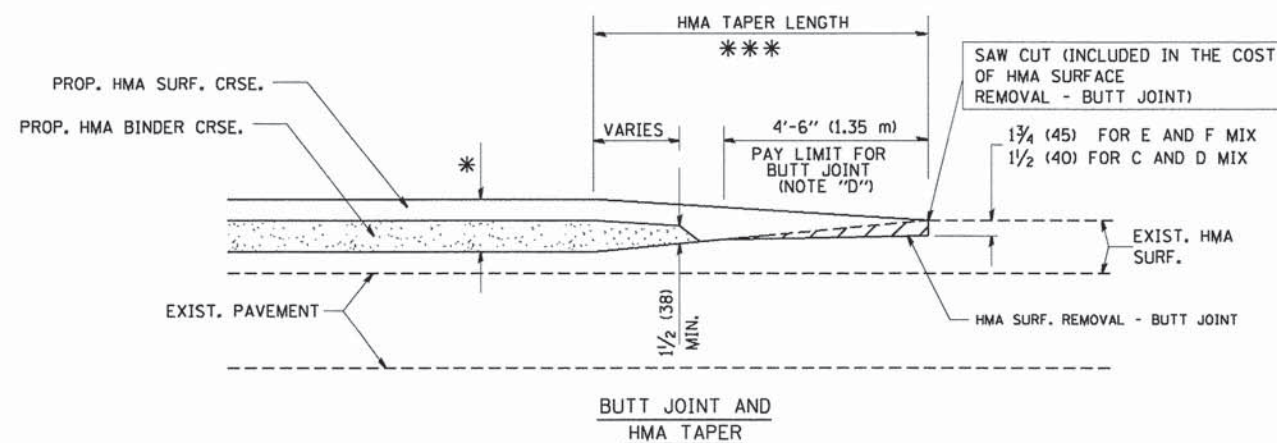
MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

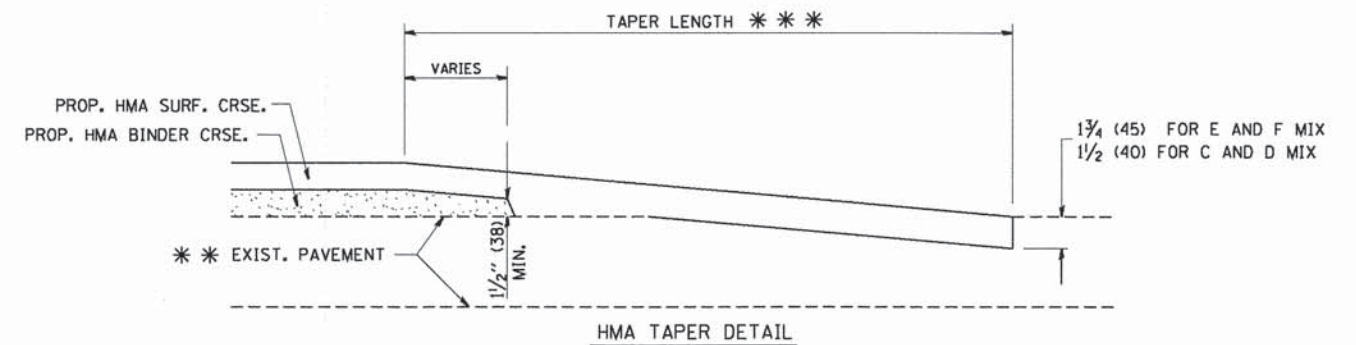
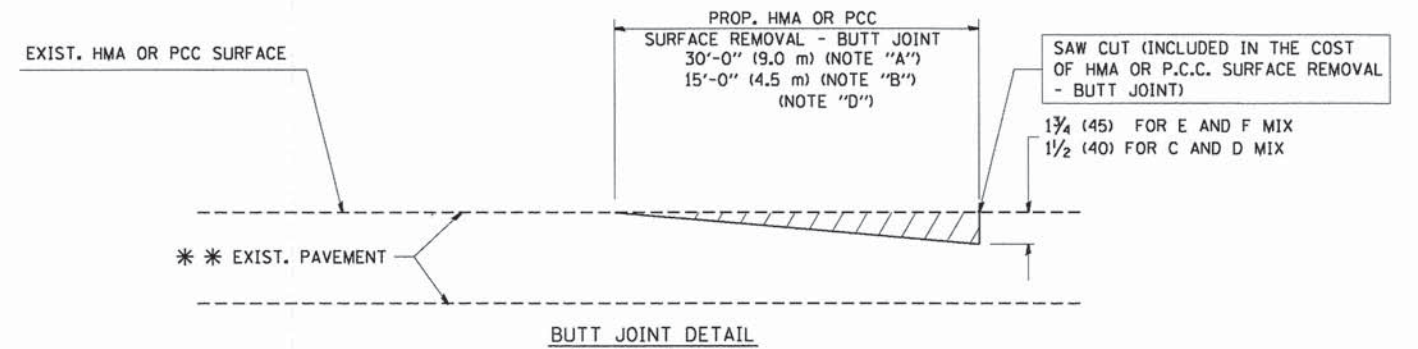


HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING



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
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 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.

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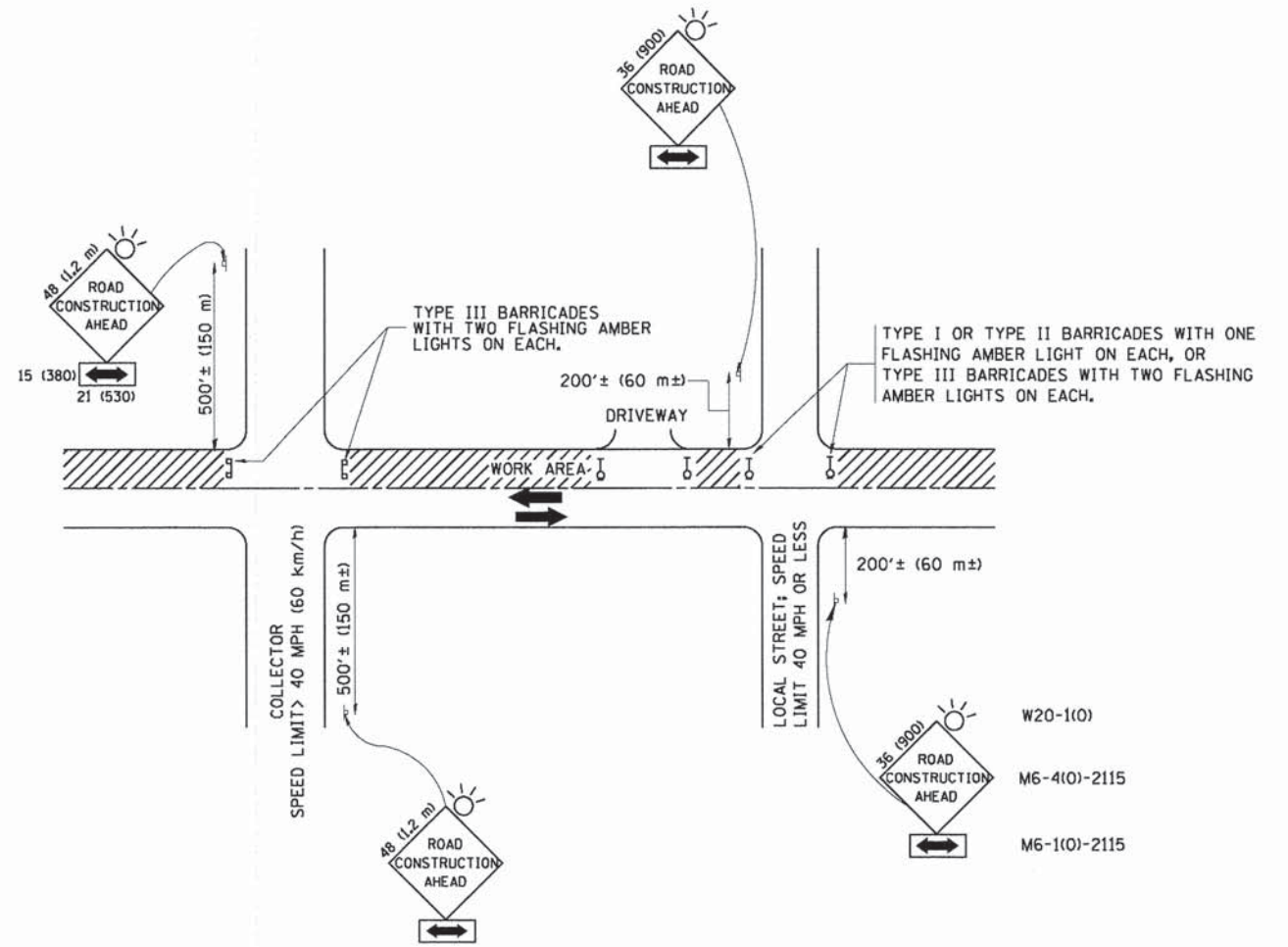
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	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND
HMA TAPER DETAILS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3860	09-00372-01-PW	MCHENRY	358	225
BD400-05 BD32			CONTRACT NO. 63892	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

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 AND FLAG 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) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

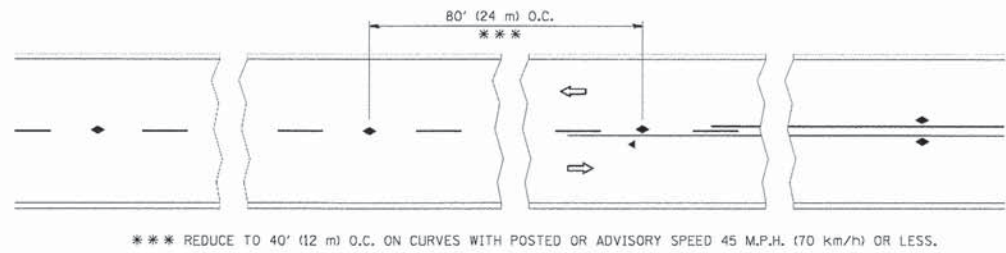
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		DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

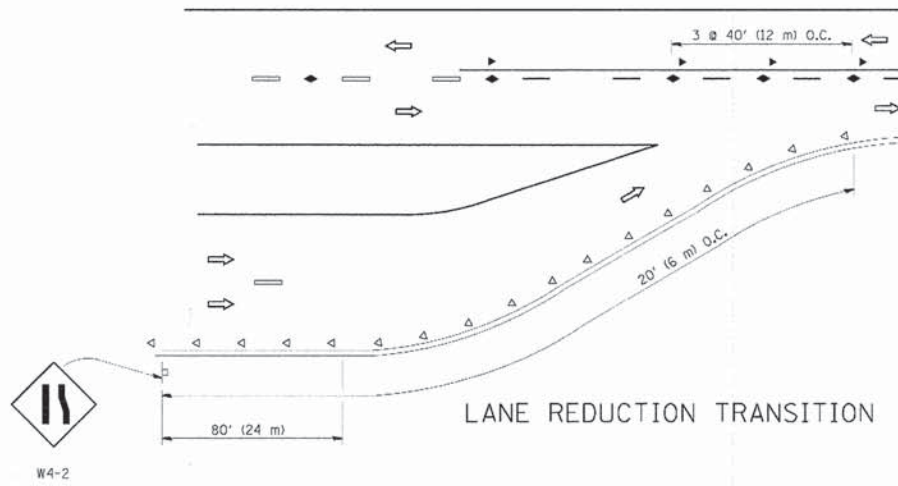
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

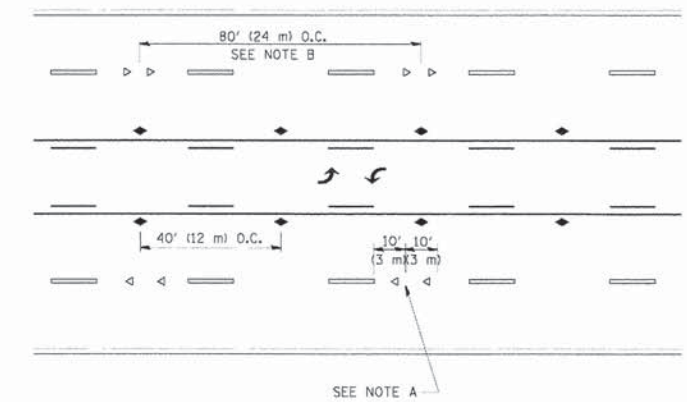
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TC-10			CONTRACT NO. 63892	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



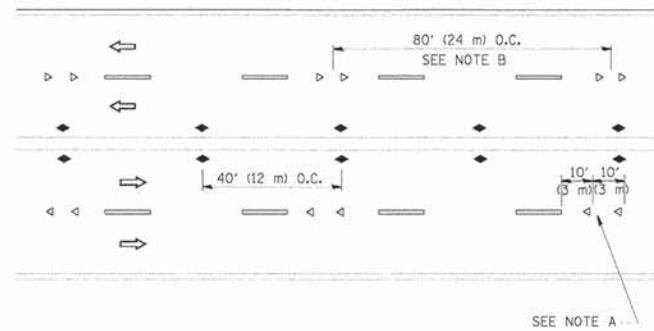
TWO-LANE/TWO-WAY



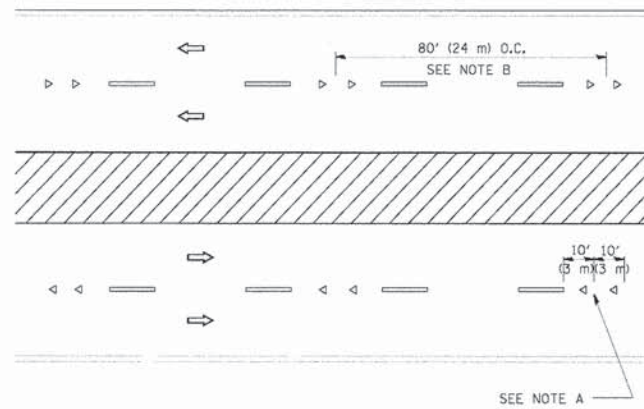
LANE REDUCTION TRANSITION



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.

SYMBOLS

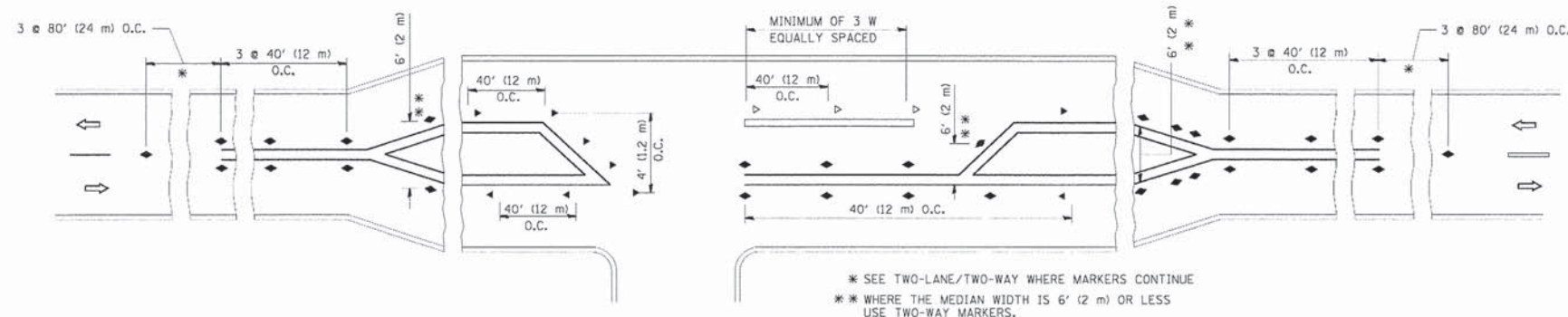
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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 SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

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

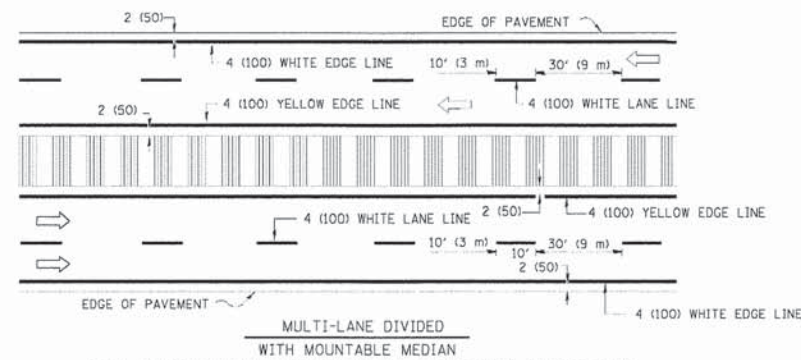
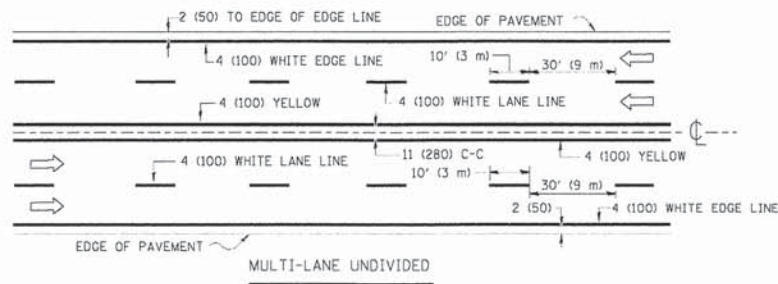
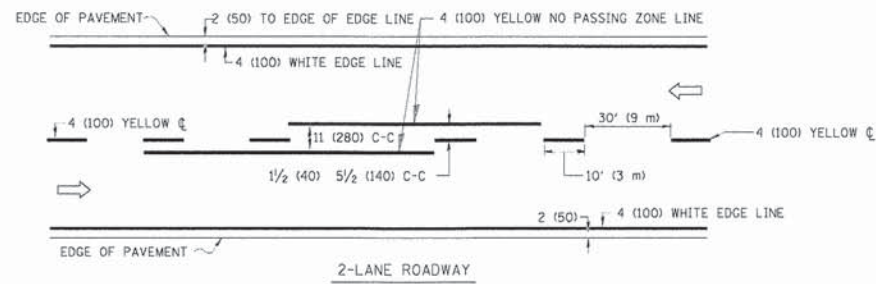
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DRAWN	T. RAMMACHER 03-12-99
CHECKED	T. RAMMACHER 01-06-00
DATE	C. JUCIUS 09-09-09

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

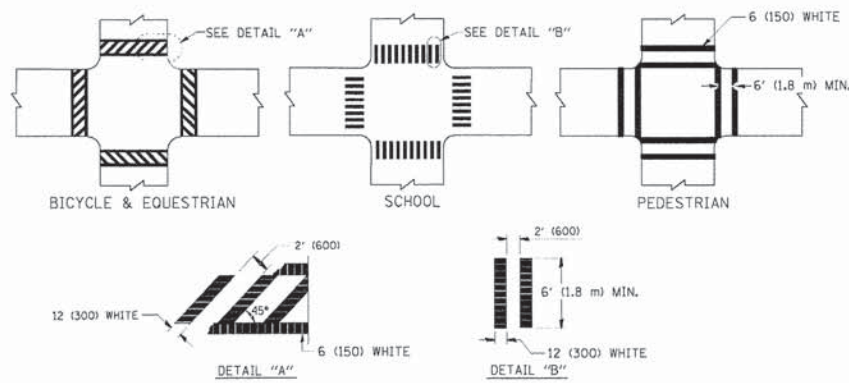
TYPICAL APPLICATIONS	
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)	
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-11			CONTRACT NO. 63892	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

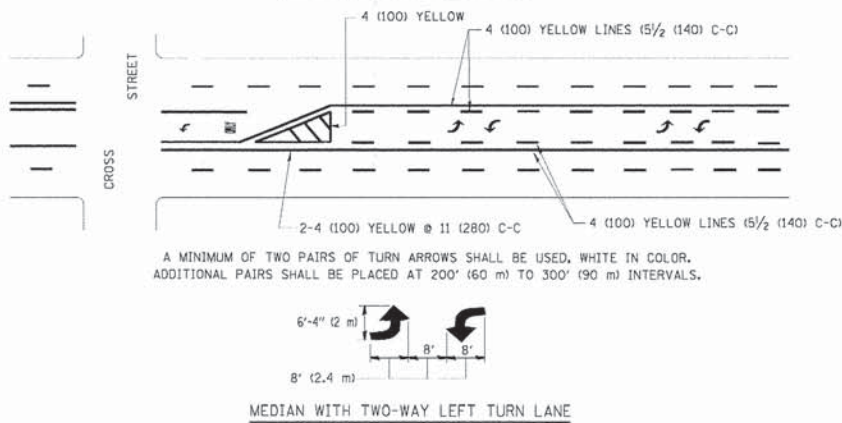
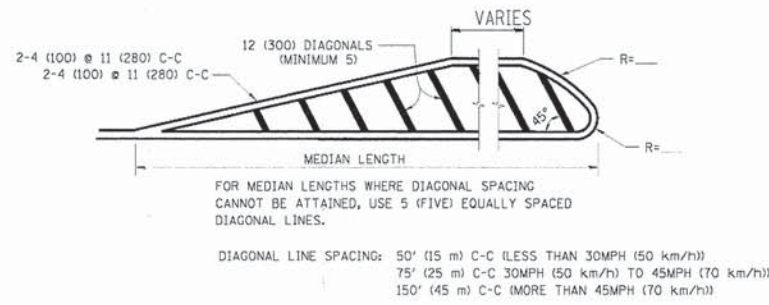
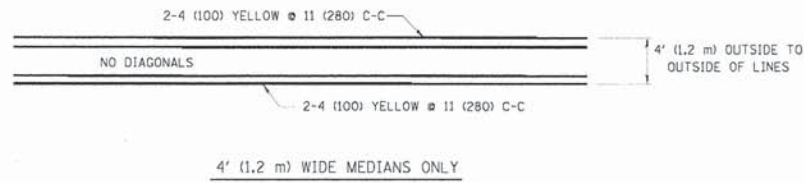


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

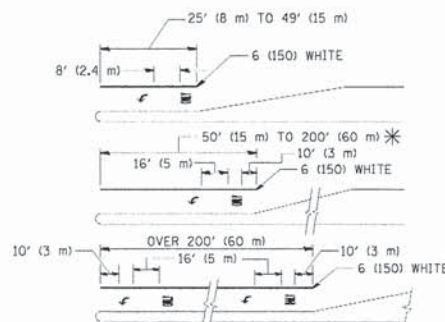
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

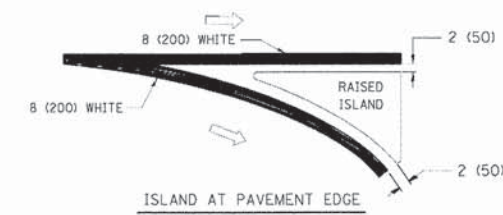
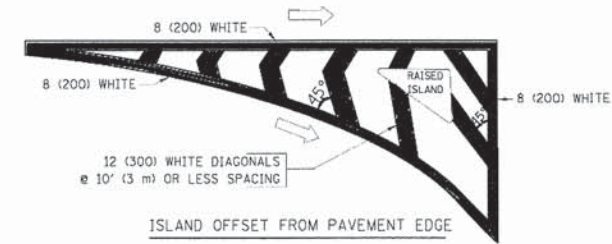


TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED.
 * 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".

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

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 MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
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" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD T80001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	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))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD T80001.

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

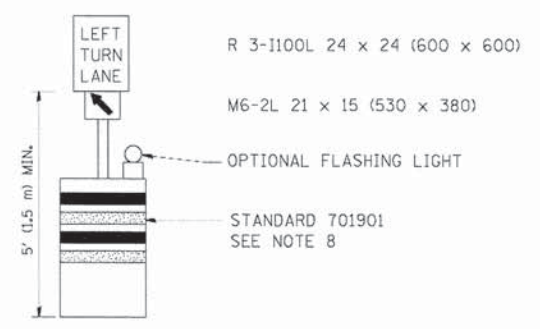
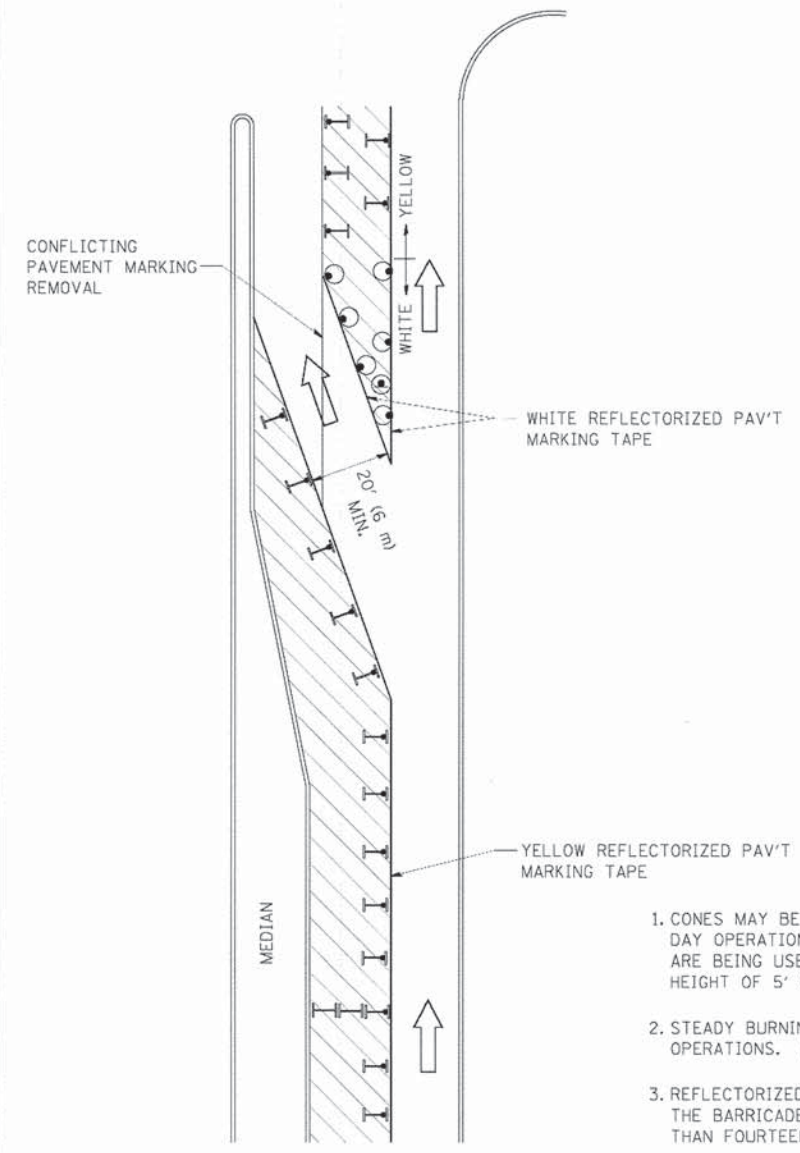
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		DATE: 03-19-90	REVISED:

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE		F.A.U. RTE. 3860	SECTION 09-00372-01-PW	COUNTY MCHENRY	TOTAL SHEETS 358	SHEET NO. 228
TYPICAL PAVEMENT MARKINGS		TC-13		CONTRACT NO. 63892		
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.			

F.A.U. RTE. 3860	SECTION 09-00372-01-PW	COUNTY MCHENRY	TOTAL SHEETS 358	SHEET NO. 228
TC-13		CONTRACT NO. 63892		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				


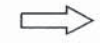






GENERAL NOTES

1. 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. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. 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" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

LEGEND

-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

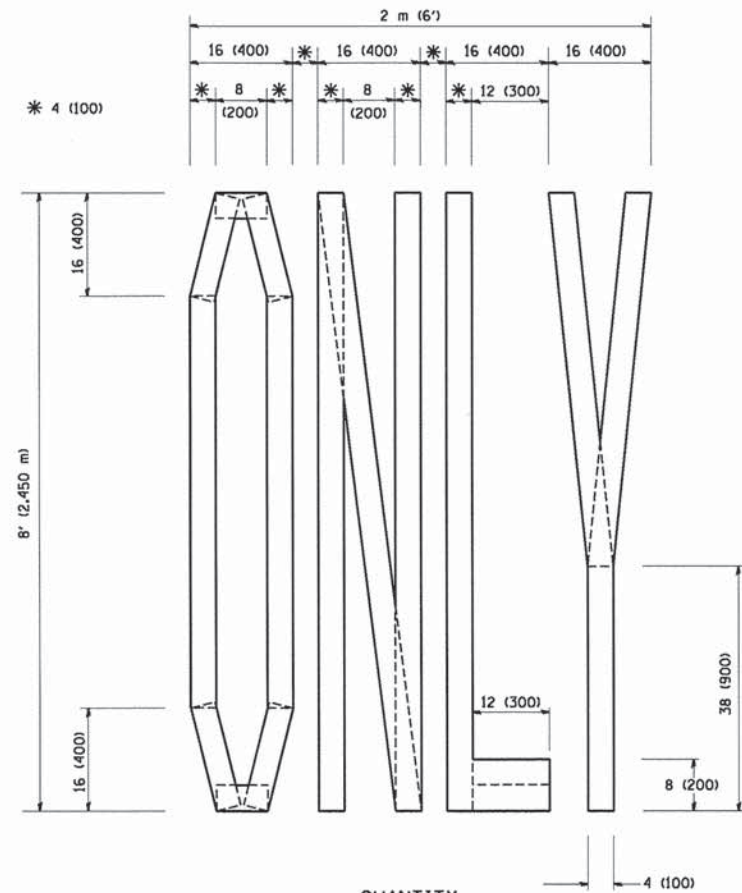
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 PROJECT CONTACT: 09-00372-01-PW
 CLIENT: 090071-061-734-00
 DATE PLOTTED: 11/11/2014 12:11:21 PM
 FILE NAME: 090071-061-734-00
 PLOT DRIVER: pdf.plt
 PEN TABLE: standard.ctb

FILE NAME =	USER NAME = drsvakosgn	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
PROJECT CONTACT =	PROJECT CONTACT =	REVISED - A. HOUSEH 11-07-95	REVISED -
DATE PLOTTED =	DATE PLOTTED =	REVISED - A. HOUSEH 10-12-96	REVISED -
FILE NAME =	FILE NAME =	REVISED - T. RAMMACHER 01-06-00	REVISED -
PLOT SCALE = 1/4" = 1'-0"	PLOT SCALE = 1/4" = 1'-0"		
PLOT DATE = 9/14/2009	PLOT DATE = 9/14/2009		

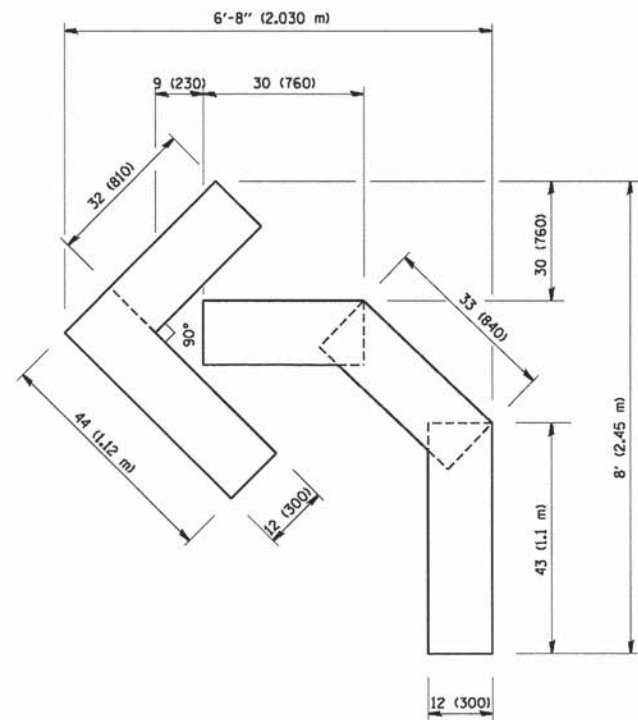
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

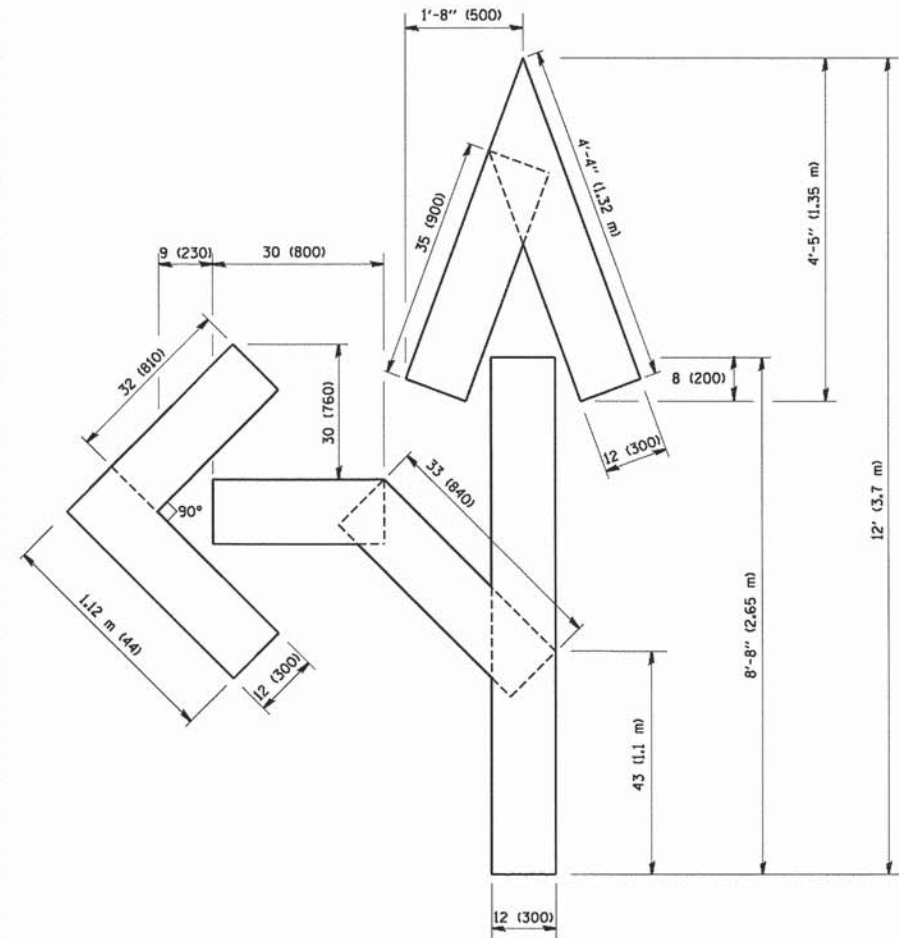
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3860	09-00372-01-PW	MCHENRY	358	229
TC-14			CONTRACT NO. 63892	
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				



QUANTITY
 4 (100) LINE = 64.1 ft. (19.7 m)
 21.1 sq. ft. (1.97 sq. m)



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.39 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.3 m)
 27.5 sq. ft. (2.53 sq. m)

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

COMPANY NAME: PROJECT CONTACT:
 CLIENT: 11/11/2014 12:17:42 PM
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 FILE NAME: p07_DET-TIFF.plt
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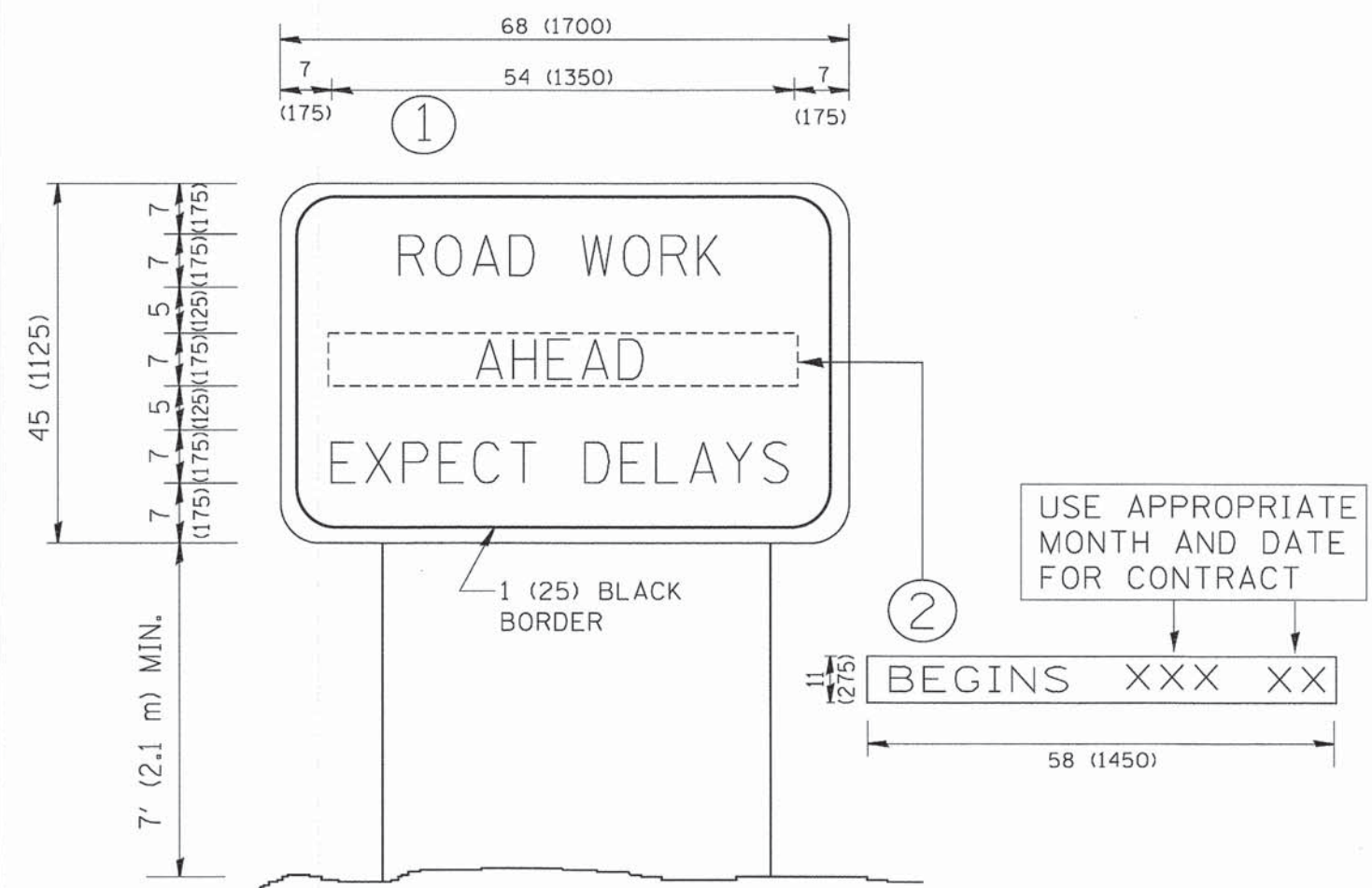
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		CHECKED -	REVISED -T, RAMMACHER 03-02-98
		DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3860	09-00372-01-PW	MCHENRY	358	230
TC-16		CONTRACT NO.	63892	
FED. ROAD DIST. NO. 1 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.

COMPANY NAME: MCHENRY
 PROJECT CONTACT: 09-00372-01-PW
 CLIENT: 09011-001-16.dgn
 DATE PLOTTED: 11/11/2014 12:06:05 PM
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 PLOT DRIVER: pdfLJET-1117.dpt
 PEN TABLE: standard.ctb

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	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ARTERIAL ROAD INFORMATION SIGN	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3860	09-00372-01-PW	MCHENRY	358	231
TC-22		CONTRACT NO. 63892		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE
 PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN)
 SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY
 AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE
 FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

COMPANY NAME: MCHENRY
 PROJECT CONTACT: 09-00372-01-PW
 CLIENT: 090077-067-71.dgn
 DATE PLOTTED: 11/11/2014 12:08:09 PM
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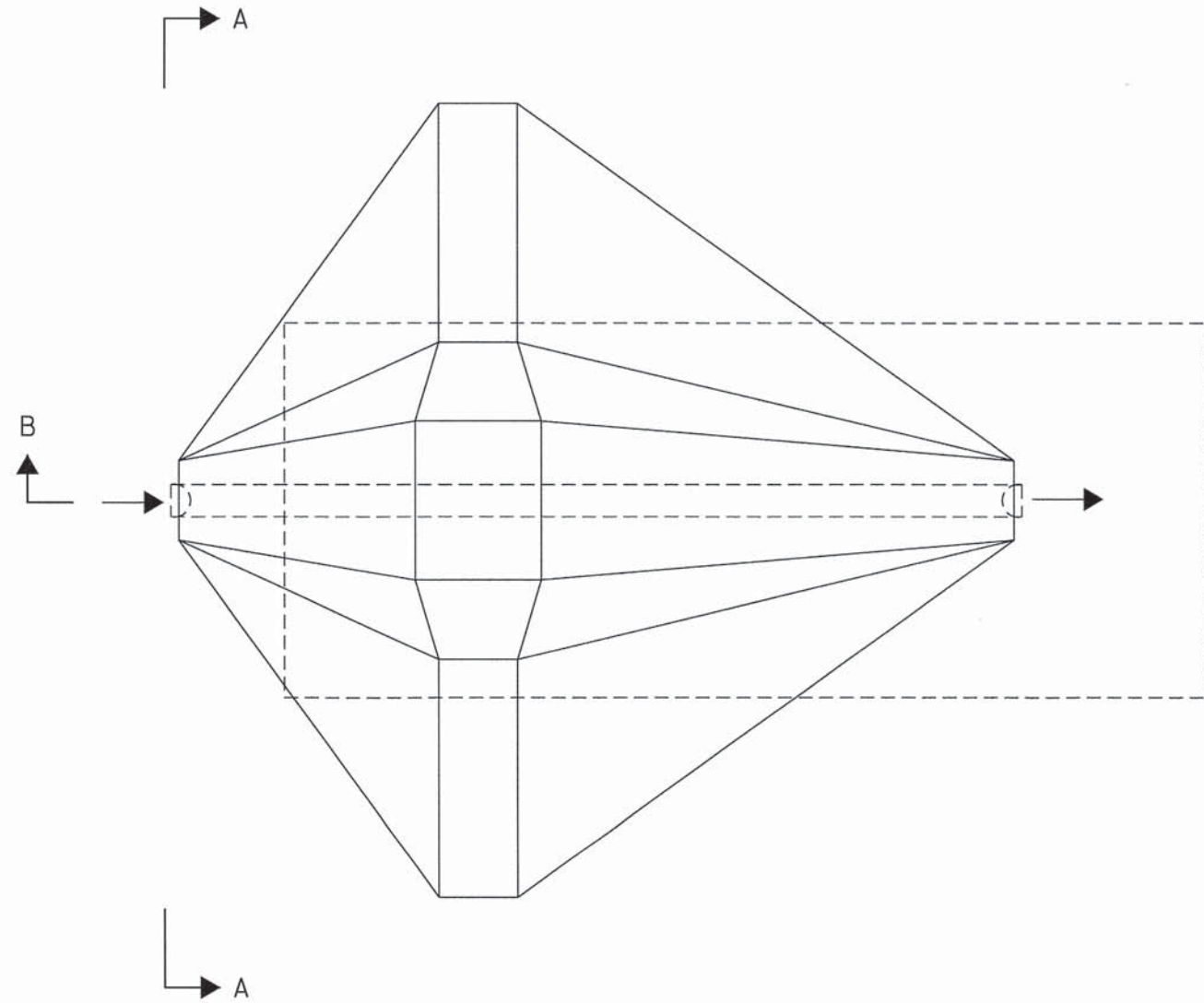
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		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

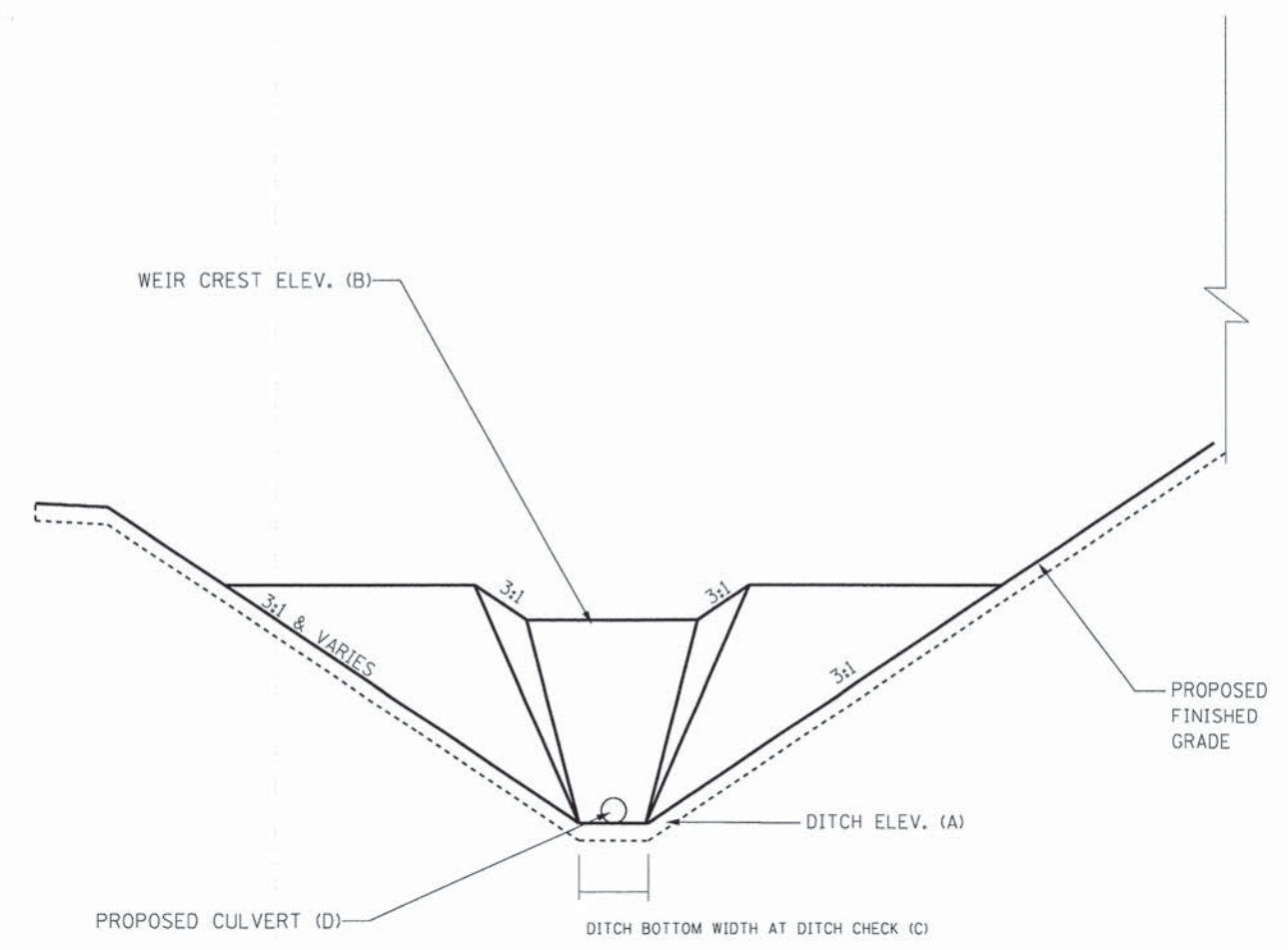
DRIVEWAY ENTRANCE SIGNING

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

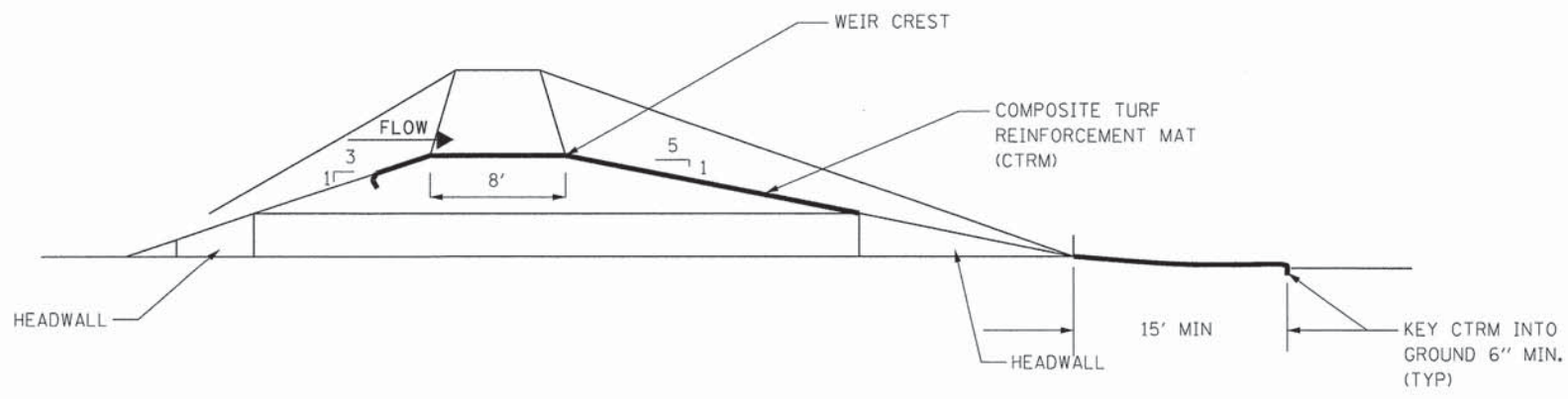
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3860	09-00372-01-PW	MCHENRY	358	232
TC-26		CONTRACT NO. 63892		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



PLAN VIEW



ELEVATION VIEW A-A



SECTION B-B

ROUTE	STATION	DITCH ELEV. (A)	WEIR CREST ELEV. (B)	DITCH BOTTOM WIDTH (C) (FEET)	ORIFICE SIZE (D) (INCHES)	EDGE OF PAVEMENT LOW POINT
MILLER ROAD	523+50 RT	797.00	798.80	12	12	802.76
MILLER ROAD	526+00 RT	803.00	807.50	6	8	809.46

DITCH CHECKS SHALL BE PAID FOR IN LINEAR FEET OF PIPE CULVERT OF THE DIAMETER SPECIFIED AND IN SQUARE YARDS OF TURF REINFORCEMENT MAT. EARTHWORK AND GRADING REQUIRED FOR THE DITCH CHECK SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

COMPANY NAME: HRGreen
 PROJECT CONTACT: tjelton
 CLIENT: HRGreen.com
 DATE PLOTTED: 11/11/2014 12:18:52 PM
 FILE NAME: 090071-det-01a.dgn
 PLOT DRIVER: pct_driver
 PEN TABLE: Standard-Trans.tbl



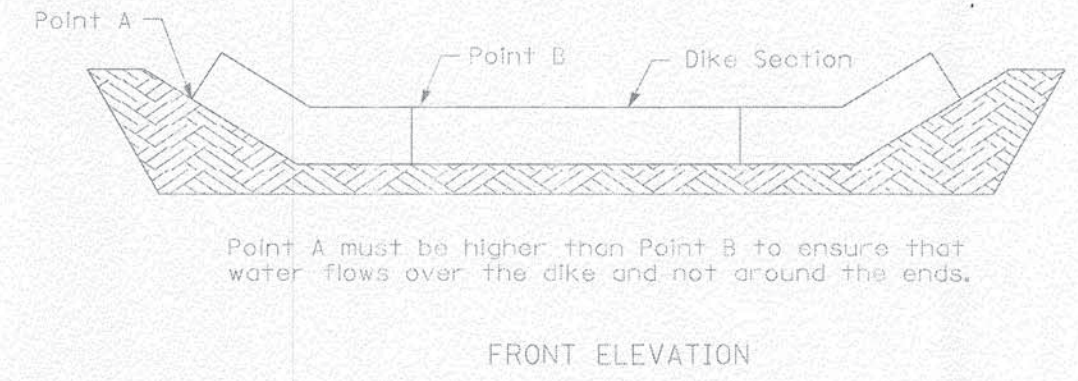
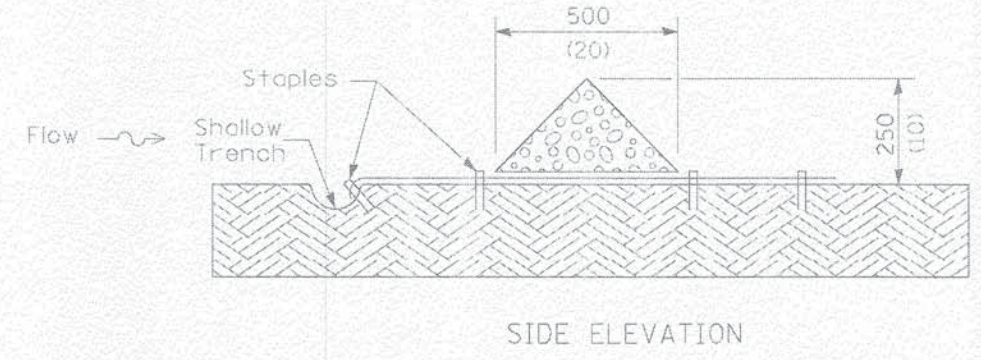
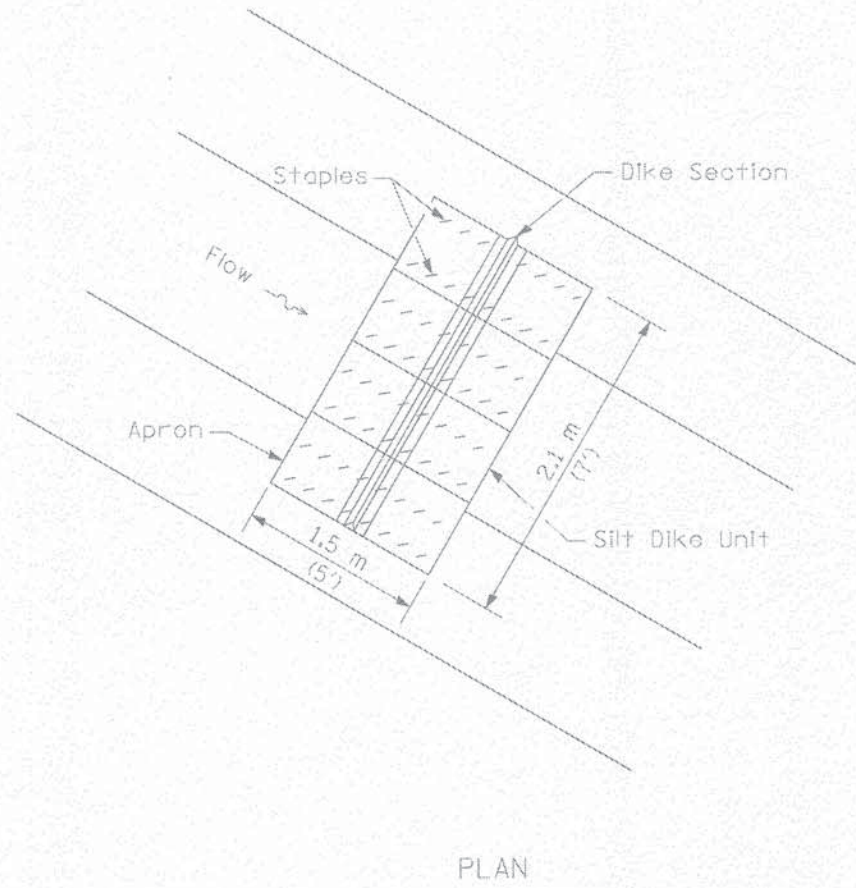
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PLOT DATE = 11/11/2014	DATE = 11/12/14	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MCHENRY COUNTY DETAIL
 DITCH CHECK DETAIL

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE. 3860	SECTION 09-00372-01-PW	COUNTY MCHENRY	TOTAL SHEETS 358	SHEET NO. 233
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 63892				



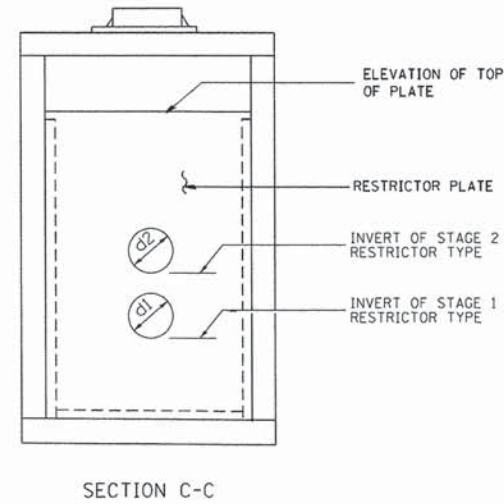
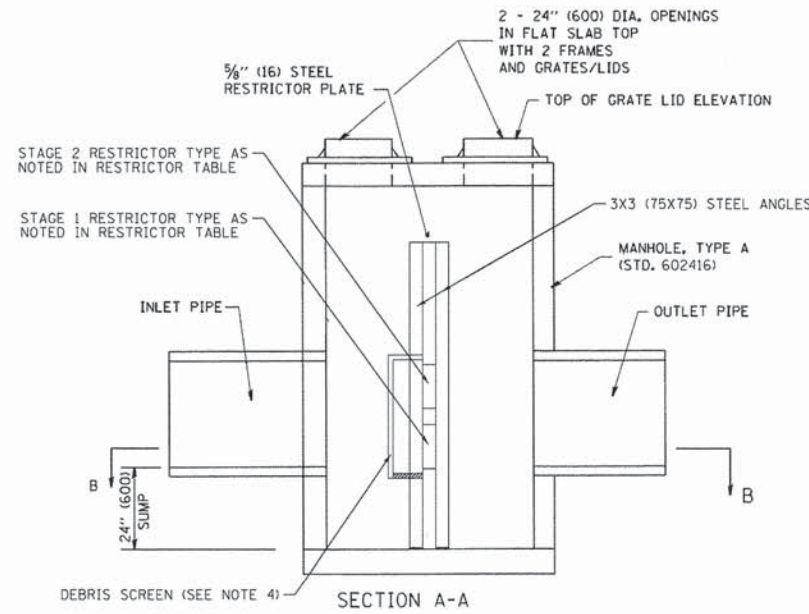
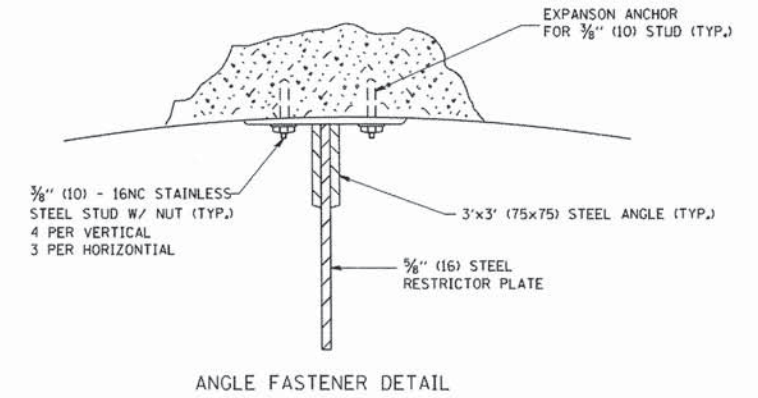
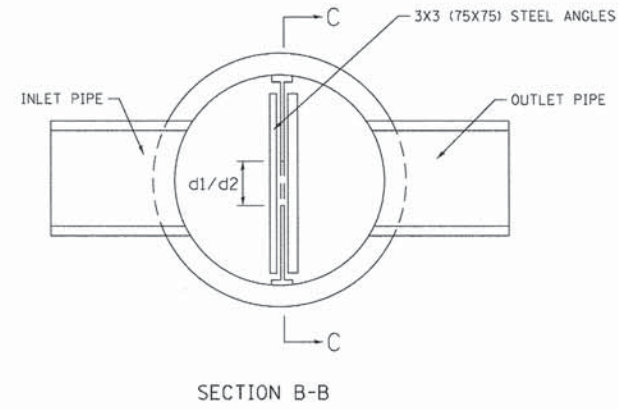
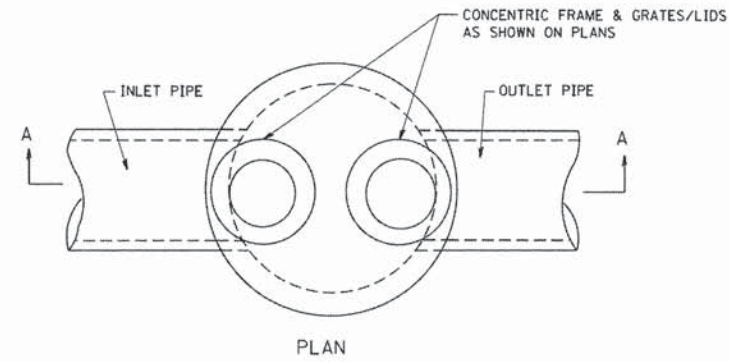
URETHANE FOAM/GEOTEXTILE DITCH CHECK

NOTES

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

COMPANY NAME: MCHENRY COUNTY DIVISION OF TRANSPORTATION
 PROJECT CONTACT: [Name]
 CLIENT: [Name]
 DATE PLOTTED: 11/11/2014 12:08:56 PM
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 PEN TABLE: Standard-11mm.tbl

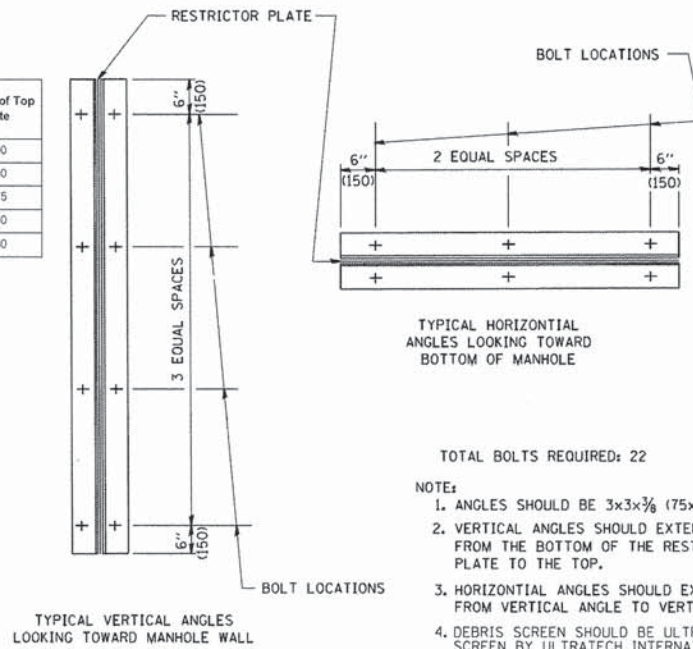
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#FILEL#		DRAWN -	REVISED -			3860	09-00372-01-PW	MCHENRY	358	234	
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	PLOT DATE = #DATE#	DATE -	REVISED -			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT					
				SCALE: NTS		SHEET NO. OF SHEETS		STA. TO STA.			



- NOTES:
1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
 2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
 3. BASIS OF PAYMENT: "MANHOLES, TYPE A, 6 FT. (1.8 m)-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE" EACH

Route (ST#)	Station	Manhole Diameter (Feet)	Frame and Grate	Restrictor Type	Inside Restrictor Diameter - Stage 1 (Inches)	Invert of Restrictor Diameter - Stage 1	Inside Restrictor Diameter - Stage 2 (Inches)	Invert of Restrictor Diameter - Stage 2	Elevation of Top of Plate
Charles J. Miller Road (7)	517+75 LT	8	T1F CL	3	4	785.36	4	787.00	790.50
Charles J. Miller Road (112)	559+73.30 RT	8	T1F CL	3	4	780.46	N/A	N/A	783.50
IL Route 31 (303)	100+40 LT	8	T1F CL	3	10	829.53	N/A	N/A	831.75
IL Route 31 (379)	128+10 LT	8	T1F CL	3	15	816.80	N/A	N/A	818.80
IL Route 31 (394)	136+60 LT	8	T1F CL	3	15	782.60	N/A	N/A	784.60

* Where a 2-Stage Restrictor is shown in the table, the contractor shall order a Type 3 restrictor for Stage 2 at elevation and of size as noted to be installed in the steel restrictor plate.



- TOTAL BOLTS REQUIRED: 22
- NOTE:
1. ANGLES SHOULD BE 3x3x3/8 (75x75x75)
 2. VERTICAL ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
 3. HORIZONTAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.
 4. DEBRIS SCREEN SHOULD BE ULTRA-DEBRIS SCREEN BY ULTRATECH INTERNATIONAL (OR EQUAL) WWW.SPILLCONTAINMENT.COM/DEBRIS-SCREEN

RESTRICTOR TYPE					
1	2	3	4	5	6
RE-ENTRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	ROUNDED
LENGTH: 1/2 TO 1 DIA.		STREAM CLEARS SIDES	LENGTH: 2-1/2 DIA.	LENGTH: 2-1/2 DIA.	
C=.52	C=.61	C=.61	C=.73	C=.82	C=.98

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

MCHENRY COUNTY
DIVISION OF TRANSPORTATION

MCHENRY COUNTY DETAIL
MANHOLE WITH RESTRICTOR DETAIL

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3860	09-00372-01-PW	MCHENRY	358	235
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63892	

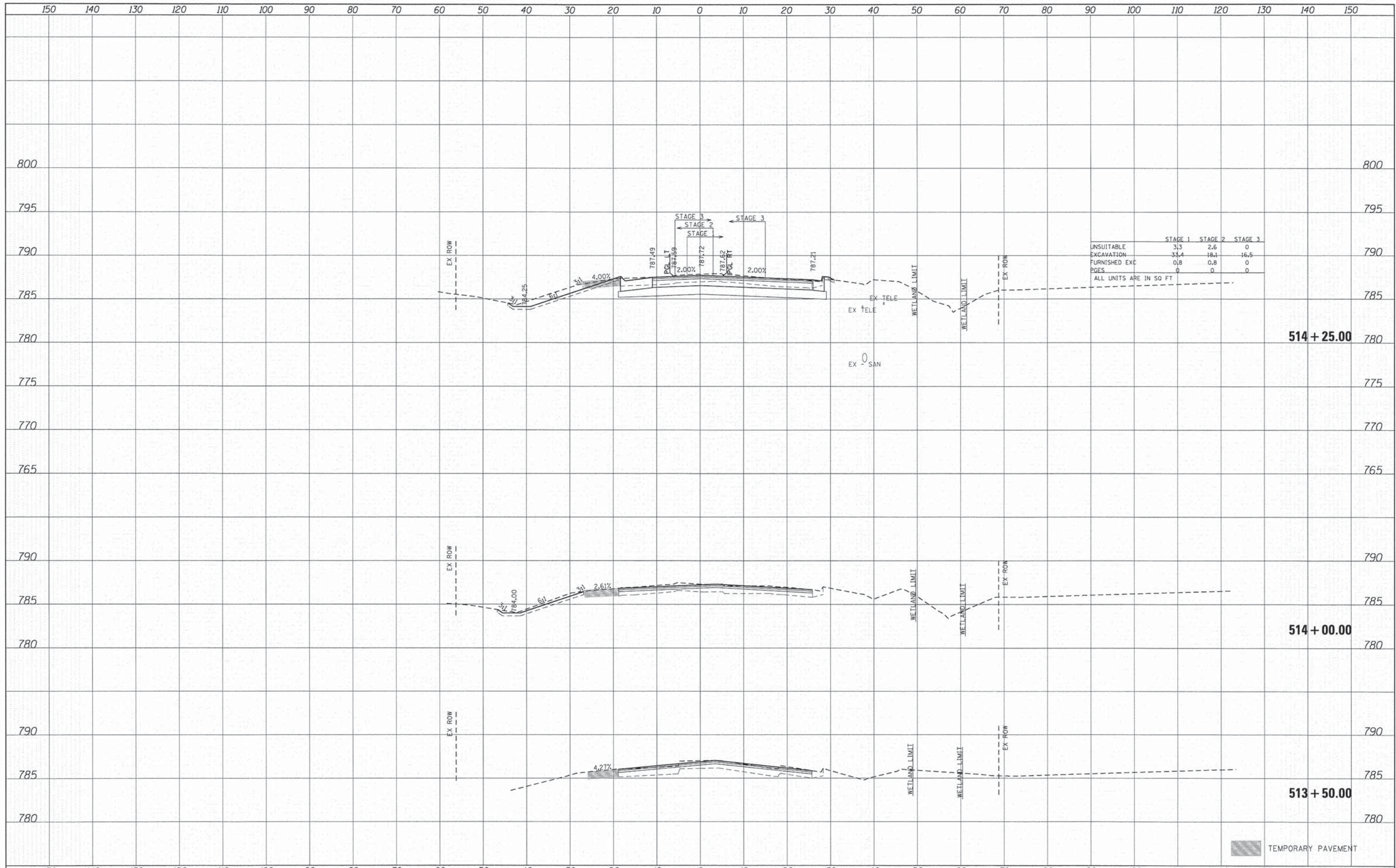
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PROJECT CONTACT: tjelton
DATE PLOTTED: 11/11/2014 12:19:57 PM
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HRGreen.com
Illinois Professional Design Firm
#184-001322

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PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 11/11/2014	DATE = 11/12/14	REVISED -

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BY	
FINAL SURVEY	
NOTED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

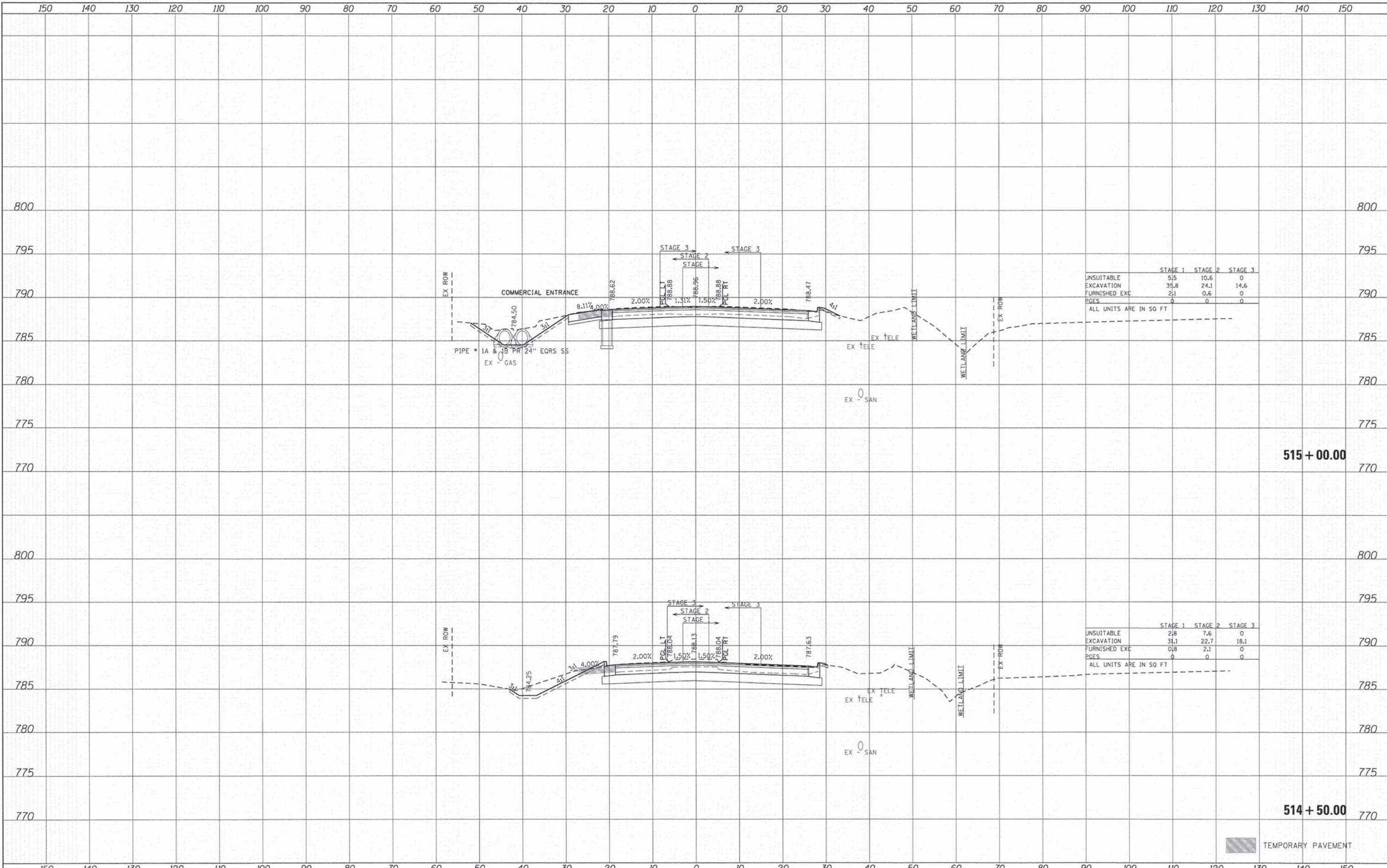
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BY	
ORIGINAL SURVEY	
NOTED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



TEMPORARY PAVEMENT

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

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



	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	5.5	10.6	0
EXCAVATION	35.8	24.1	14.6
FURNISHED EXC	2.1	0.6	0
PAGES	0	0	0

ALL UNITS ARE IN SQ FT

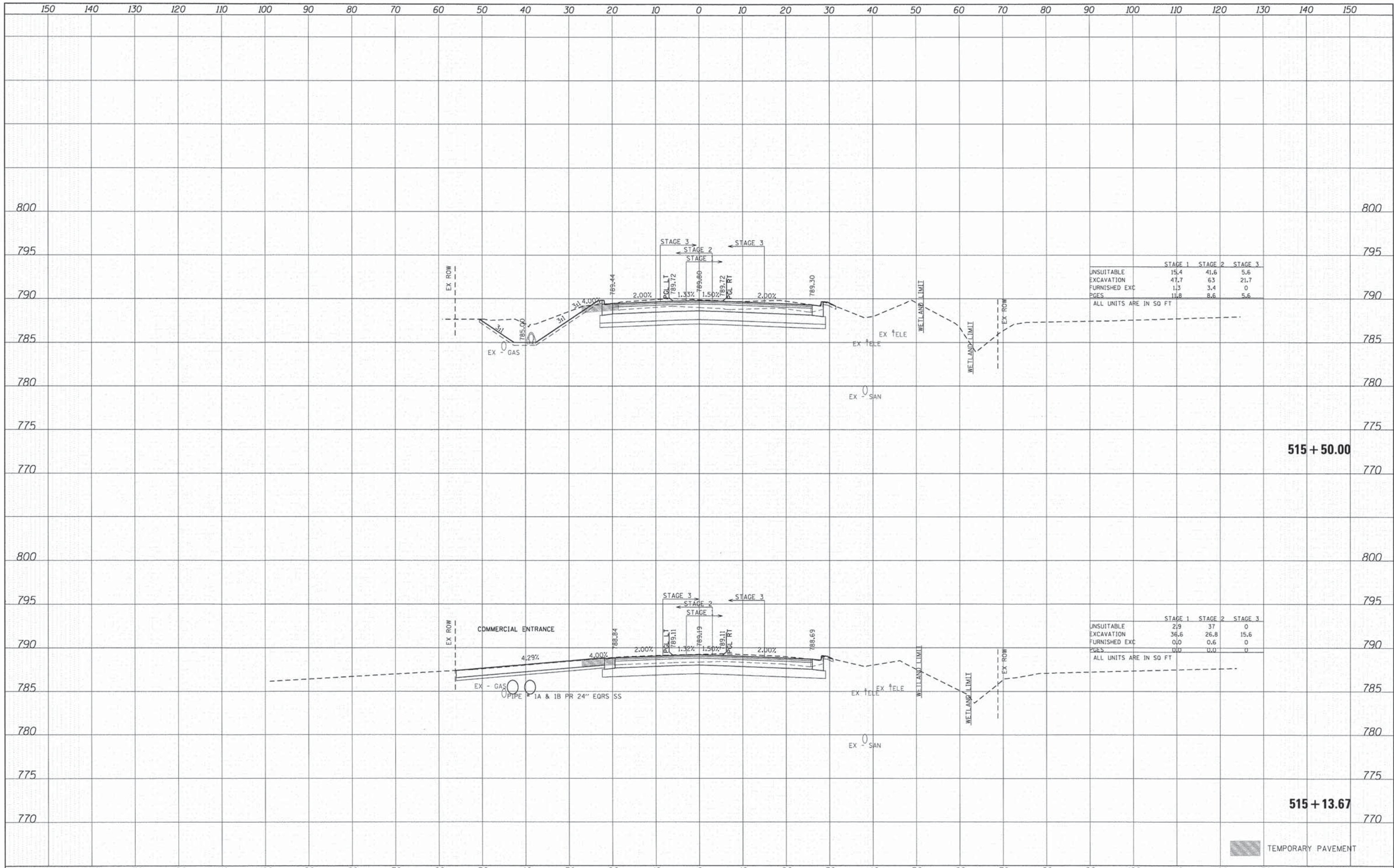
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	2.8	7.6	0
EXCAVATION	31.1	22.7	18.1
FURNISHED EXC	0.8	2.1	0
PAGES	0	0	0

ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT

DATE	
BY	
SURVEYED	
PLANNED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLANNED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	15.4	41.6	5.6
EXCAVATION	47.7	63	21.7
FURNISHED EXC	1.3	3.4	0
PGES	11.8	8.6	5.6

ALL UNITS ARE IN SQ FT

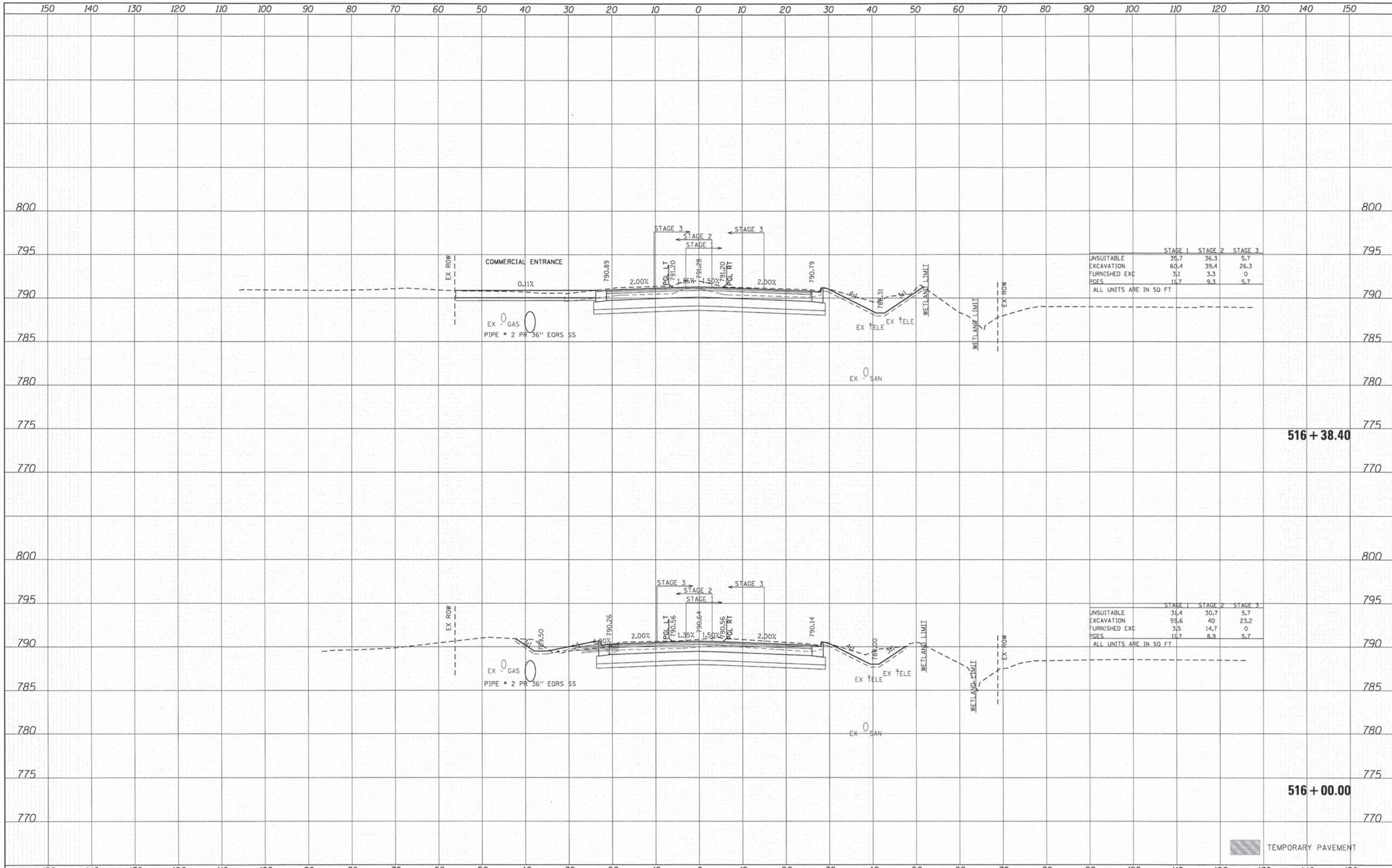
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UNSUITABLE	2.9	37	0
EXCAVATION	36.6	26.8	15.6
FURNISHED EXC	0.0	0.6	0
PGES	0.0	0.0	0

ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT

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

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



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



USER NAME =	tsjelson	DESIGNED -	CMH	REVISED -	
PLOT SCALE =	1" = 18'	DRAWN -	SVJ	REVISED -	
PLOT DATE =	11/11/2014	CHECKED -	JLP	REVISED -	
		DATE -	11/12/14	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED CROSS SECTIONS
CHARLES J. MILLER ROAD**

SCALE: 1" = 10' SHEET NO. 4 OF 71 SHEETS STA. 516+00.00 TO STA. 516+38.40

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3860	09-00372-01-PW	MCHENRY	358	239
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 63892	



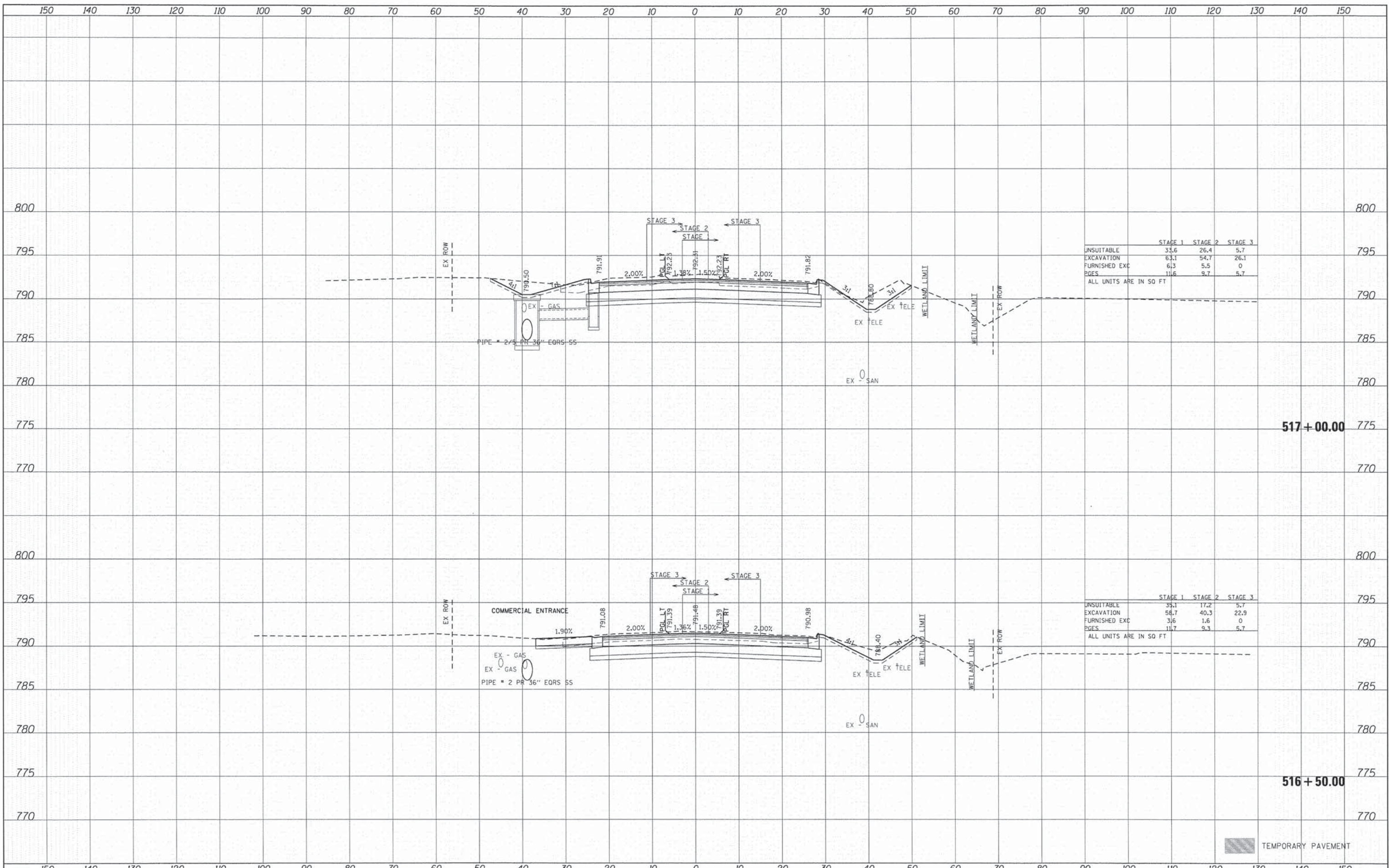
TEMPORARY PAVEMENT

516 + 38.40

516 + 00.00

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

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



	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	33.6	26.4	5.7
EXCAVATION	63.1	54.7	26.1
FURNISHED EXC	6.3	5.5	0
PGES	11.6	9.7	5.7

ALL UNITS ARE IN SQ FT

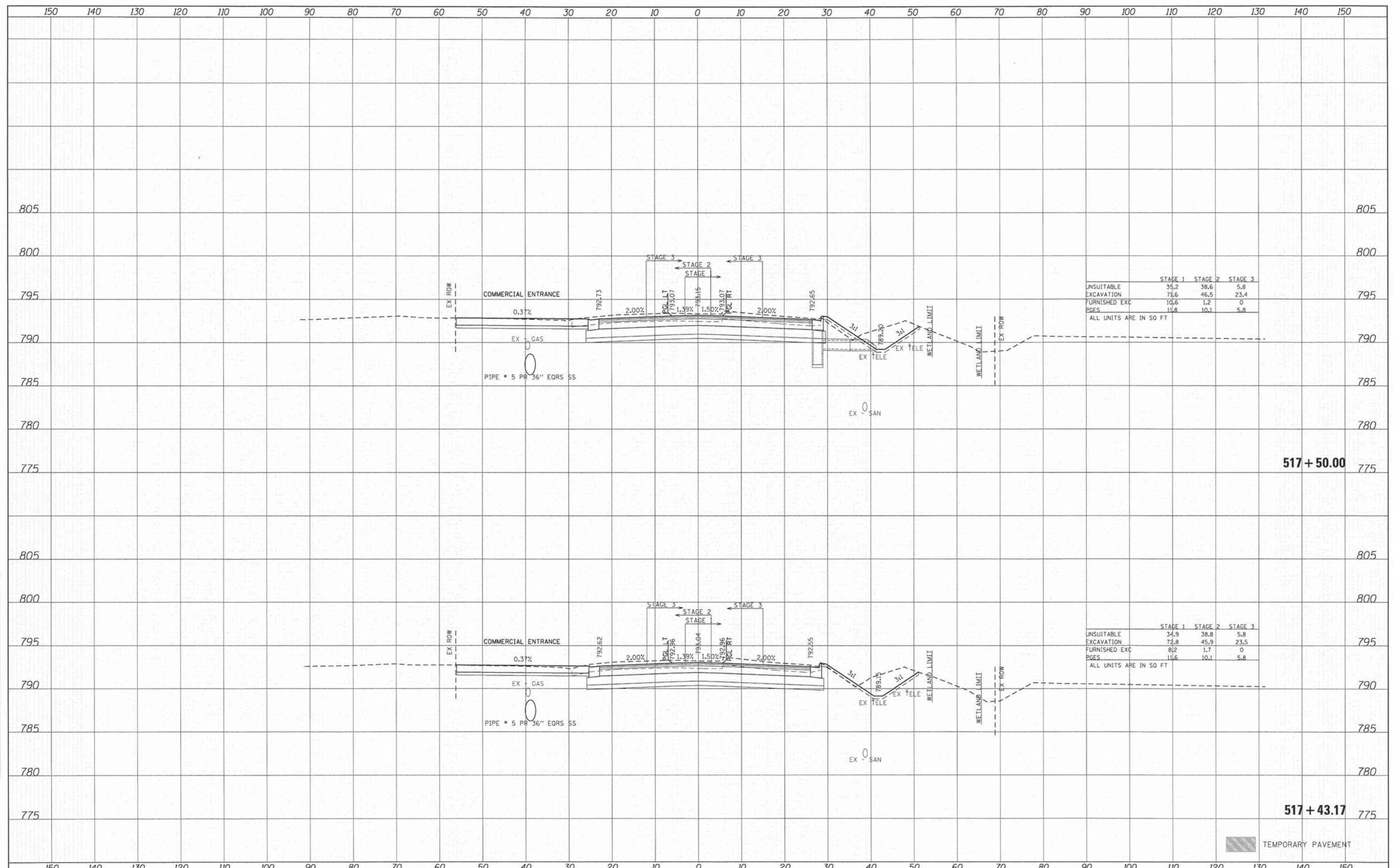
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UNSUITABLE	35.1	17.2	5.7
EXCAVATION	56.7	40.3	22.9
FURNISHED EXC	3.6	1.6	0
PGES	11.7	9.3	5.7

ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	
NO.	

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	
NO.	



	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	35.2	38.6	5.8
EXCAVATION	71.6	46.5	23.4
FURNISHED EXC	10.6	1.2	0
PGES	11.8	10.1	5.8

ALL UNITS ARE IN SQ FT

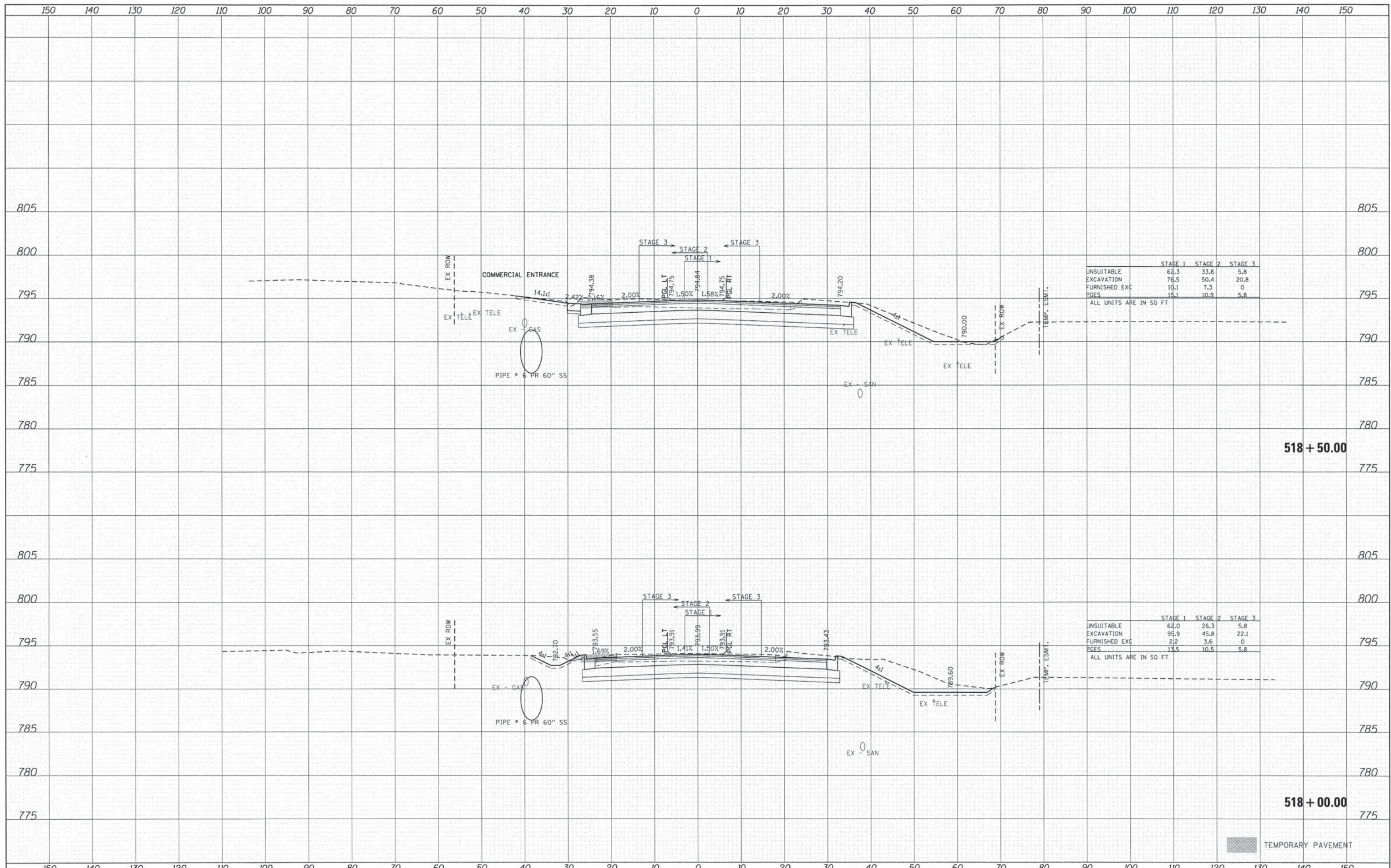
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	34.9	38.8	5.8
EXCAVATION	72.8	45.9	23.5
FURNISHED EXC	8.2	1.7	0
PGES	11.6	10.1	5.8

ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT

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FINAL SURVEY	
NOTE BOOK	
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DATE	
ORIGINAL SURVEY	
NOTE BOOK	
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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	62.3	33.8	5.8
EXCAVATION	76.5	50.4	20.8
FURNISHED EXC	10.1	7.3	0
PGES	15.1	10.9	5.8

ALL UNITS ARE IN SQ FT

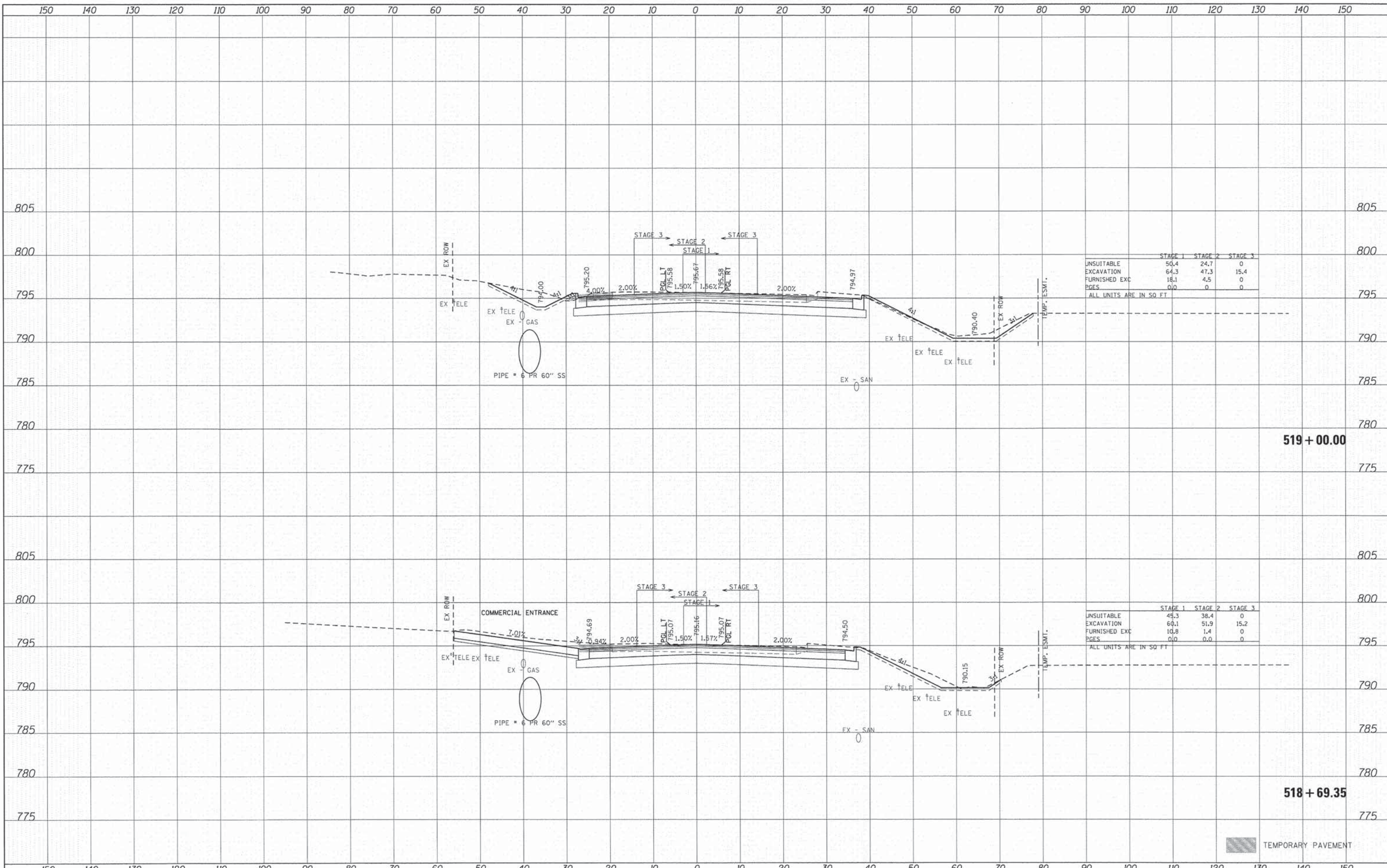
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	62.0	26.3	5.8
EXCAVATION	95.9	45.8	22.1
FURNISHED EXC	2.2	3.6	0
PGES	13.5	10.5	5.8

ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT

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TEMPORARY PAVEMENT

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AREAS	
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ORIGINAL SURVEY	
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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	46.8	37.6	0
EXCAVATION	69.2	53.8	16.2
FURNISHED EXC	11.3	0.3	0
PGES	0.0	0	0

ALL UNITS ARE IN SQ FT

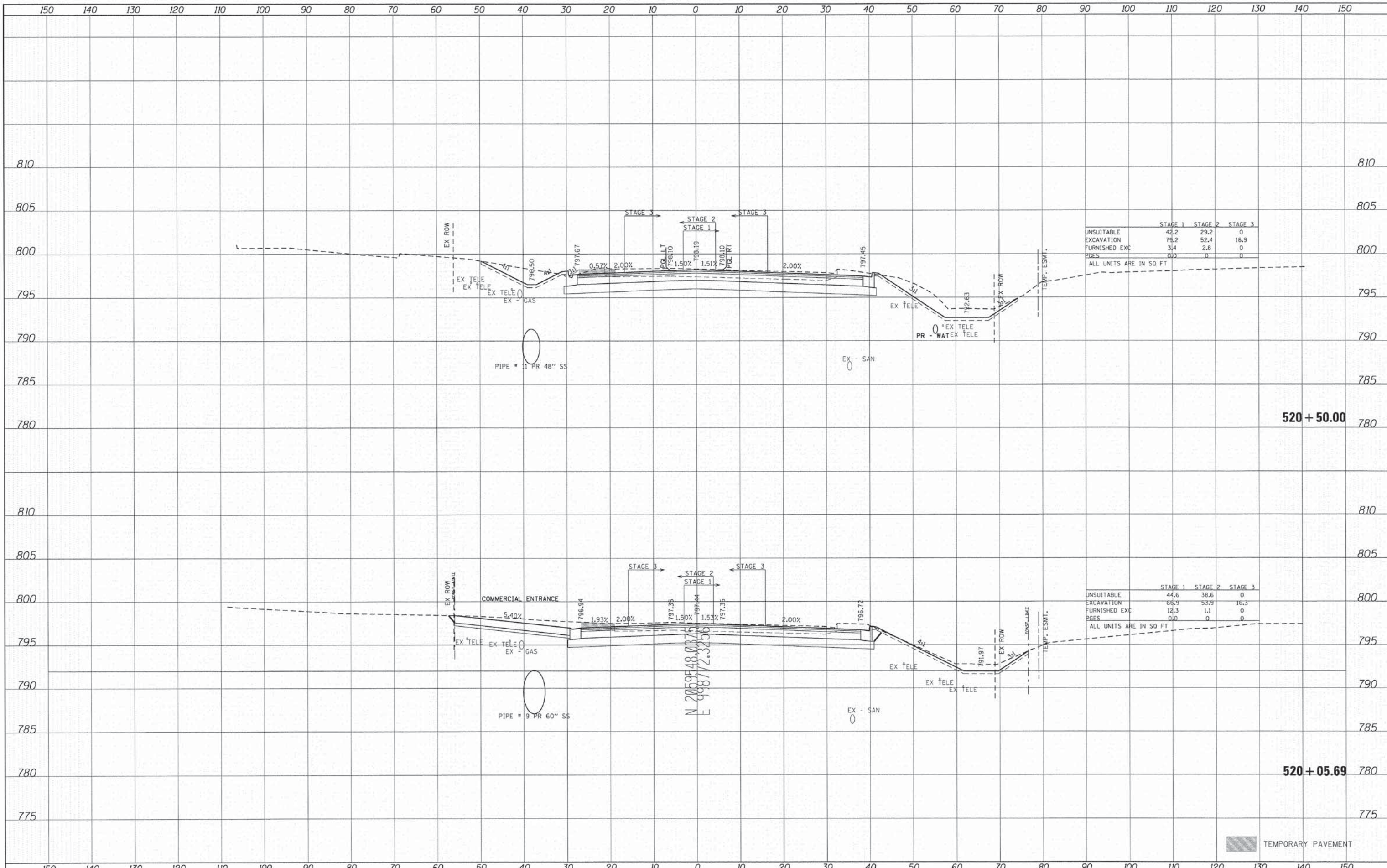
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	47.4	38.5	0
EXCAVATION	68.9	53.6	15.8
FURNISHED EXC	11.9	1.1	0
PGES	0.0	0	0

ALL UNITS ARE IN SQ FT



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NOTE BOOK	
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NOTE BOOK	
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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	42.2	29.2	0
EXCAVATION	79.2	52.4	16.9
FURNISHED EXC	3.4	2.8	0
PGES	0.0	0	0

ALL UNITS ARE IN 50 FT

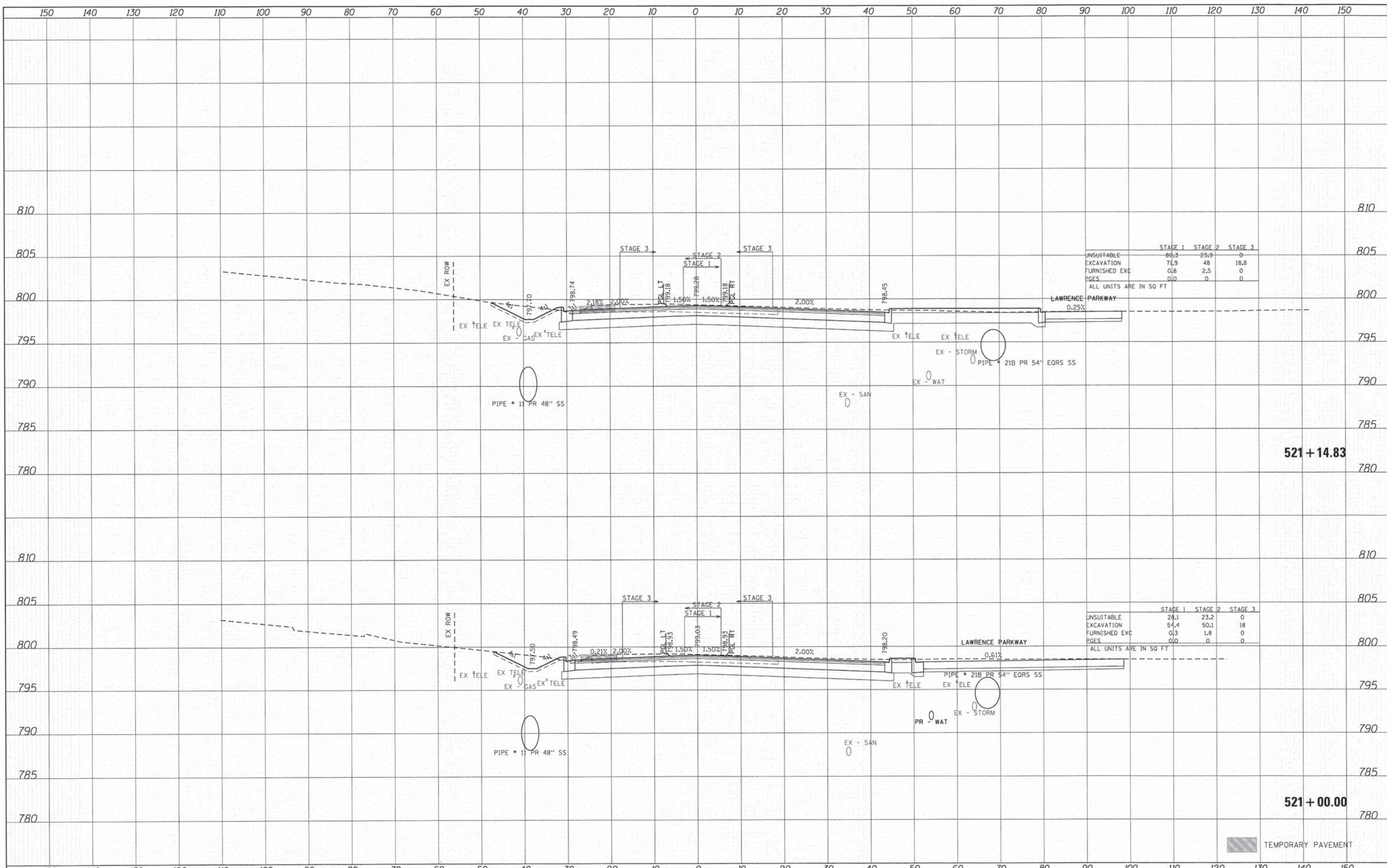
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	44.6	38.6	0
EXCAVATION	66.9	53.9	16.3
FURNISHED EXC	12.3	1.1	0
PGES	0.0	0	0

ALL UNITS ARE IN 50 FT

TEMPORARY PAVEMENT

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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	66.3	23.9	0
EXCAVATION	71.9	48	18.8
FURNISHED EXC	0.8	2.5	0
PAGES	0.0	0	0

ALL UNITS ARE IN SQ FT

	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	28.1	23.2	0
EXCAVATION	54.4	50.1	18
FURNISHED EXC	0.3	1.8	0
PAGES	0.0	0	0

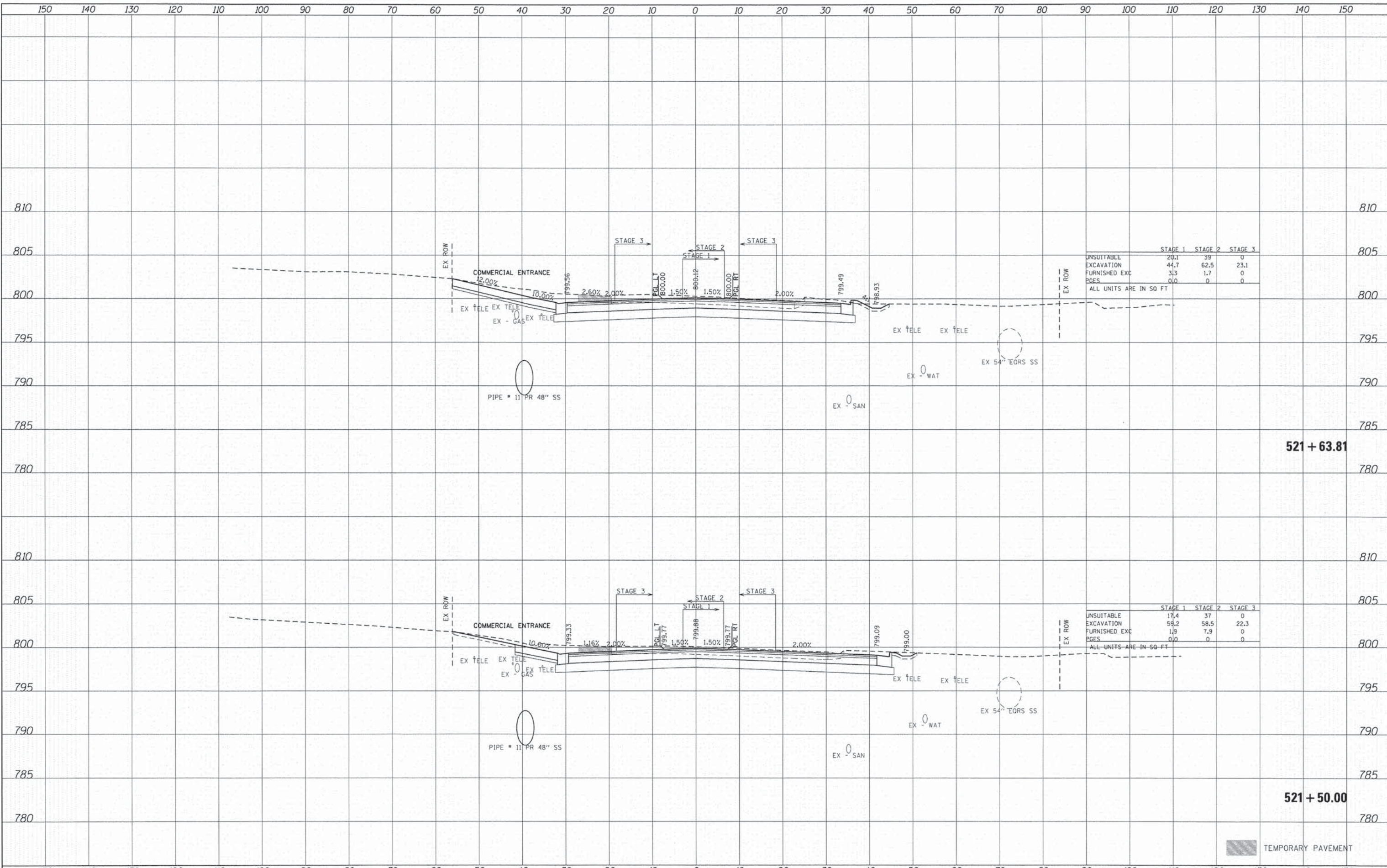
ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT

SCALE: 1" = 10' SHEET NO. 11 OF 71 SHEETS STA. 521+00.00 TO STA. 521+14.83

DATE	
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FINAL SURVEY	
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TEMPLATE	
AREAS CHECKED	
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DATE	
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ORIGINAL SURVEY	
NOTED	
TEMPLATE	
AREAS CHECKED	
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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	20.1	39	0
EXCAVATION	44.7	62.5	23.1
FURNISHED EXC	3.3	1.7	0
PGES	0.0	0	0

ALL UNITS ARE IN SQ FT

	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	17.4	37	0
EXCAVATION	59.2	58.5	22.3
FURNISHED EXC	1.9	7.9	0
PGES	0.0	0	0

ALL UNITS ARE IN SQ FT

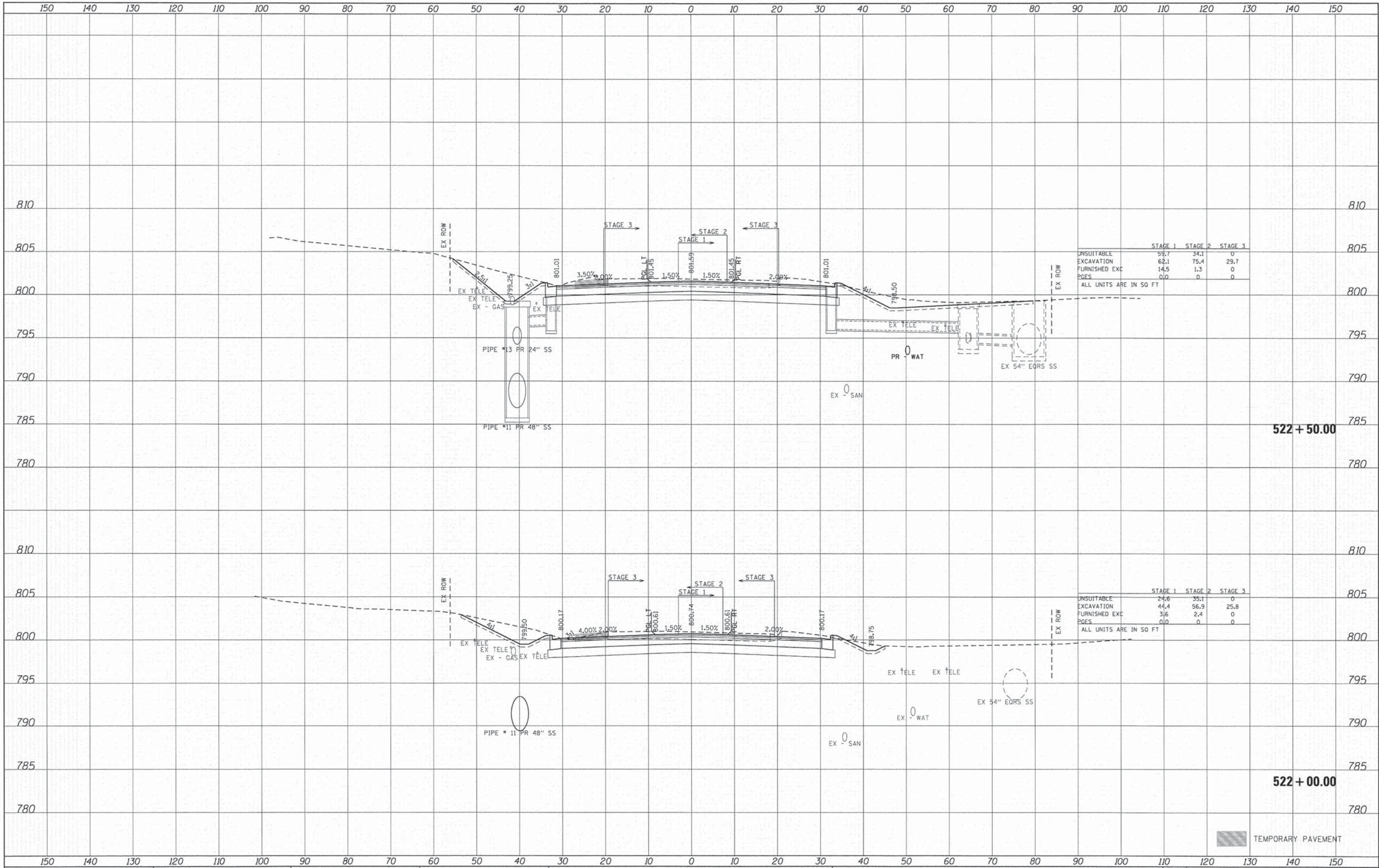
521 + 63.81

521 + 50.00

TEMPORARY PAVEMENT

DATE	
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SUPERVISOR	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	59.7	34.1	0
EXCAVATION	62.1	75.4	29.7
FURNISHED EXC	14.5	1.3	0
PAGES	0.0	0	0
ALL UNITS ARE IN SQ FT			

	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	24.6	35.1	0
EXCAVATION	44.4	56.9	25.8
FURNISHED EXC	3.6	2.4	0
PAGES	0.0	0	0
ALL UNITS ARE IN SQ FT			

TEMPORARY PAVEMENT



USER NAME = tjeilton
 DESIGNED - CMH
 DRAWN - SVJ
 CHECKED - JLP
 DATE - 11/12/14

REVISOR -
 REVISION -
 REVISION -
 REVISION -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

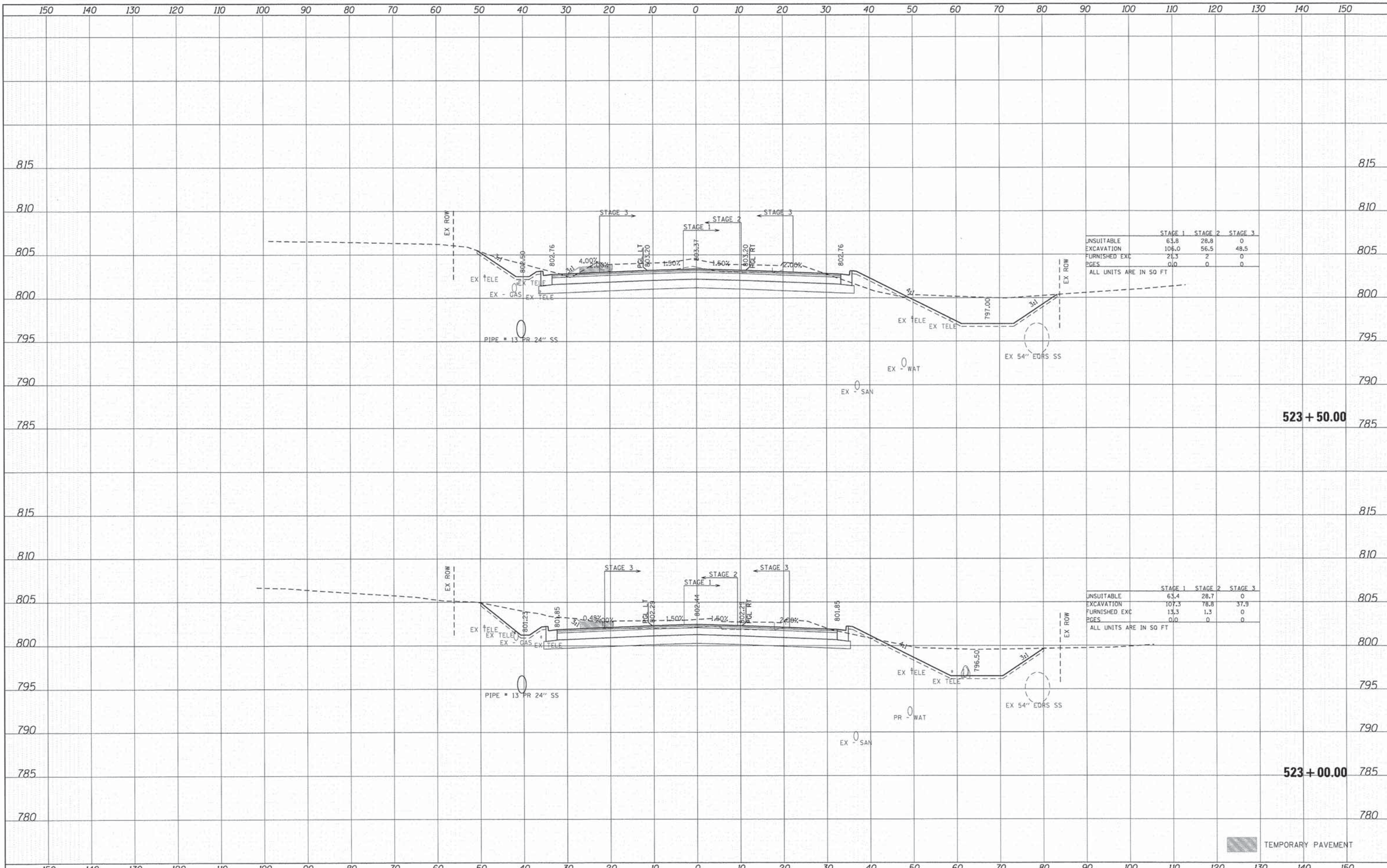
PROPOSED CROSS SECTIONS
 CHARLES J. MILLER ROAD
 SCALE: 1" = 10'
 SHEET NO. 13 OF 71 SHEETS
 STA. 522+00.00 TO STA. 522+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3860	09-00372-01-PW	MCHENRY	358	248
CONTRACT NO. 63892				

435 NORTH FRONT STREET, SUITE 100 | MAHENRY, ILLINOIS 60050
 Phone: 815.385.1778 | Fax: 815.385.1780 | Email: info@hrgreen.com
 ILLINOIS PROFESSIONAL DESIGN FIRM #184-001322

DATE	
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SURVEYED	
PLOTTED	
REPLAINE	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
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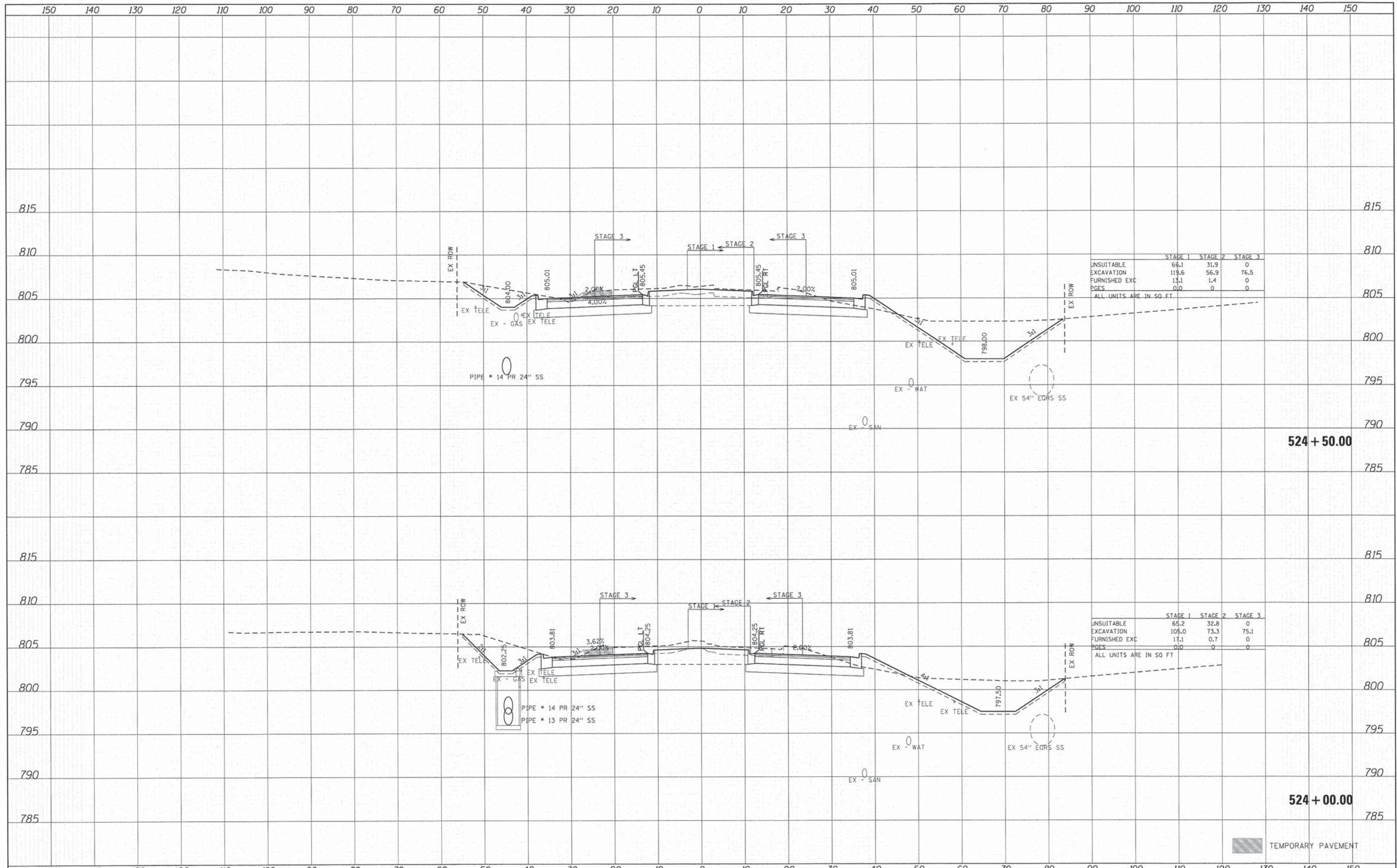
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ORIGINAL SURVEY	
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TEMPORARY PAVEMENT

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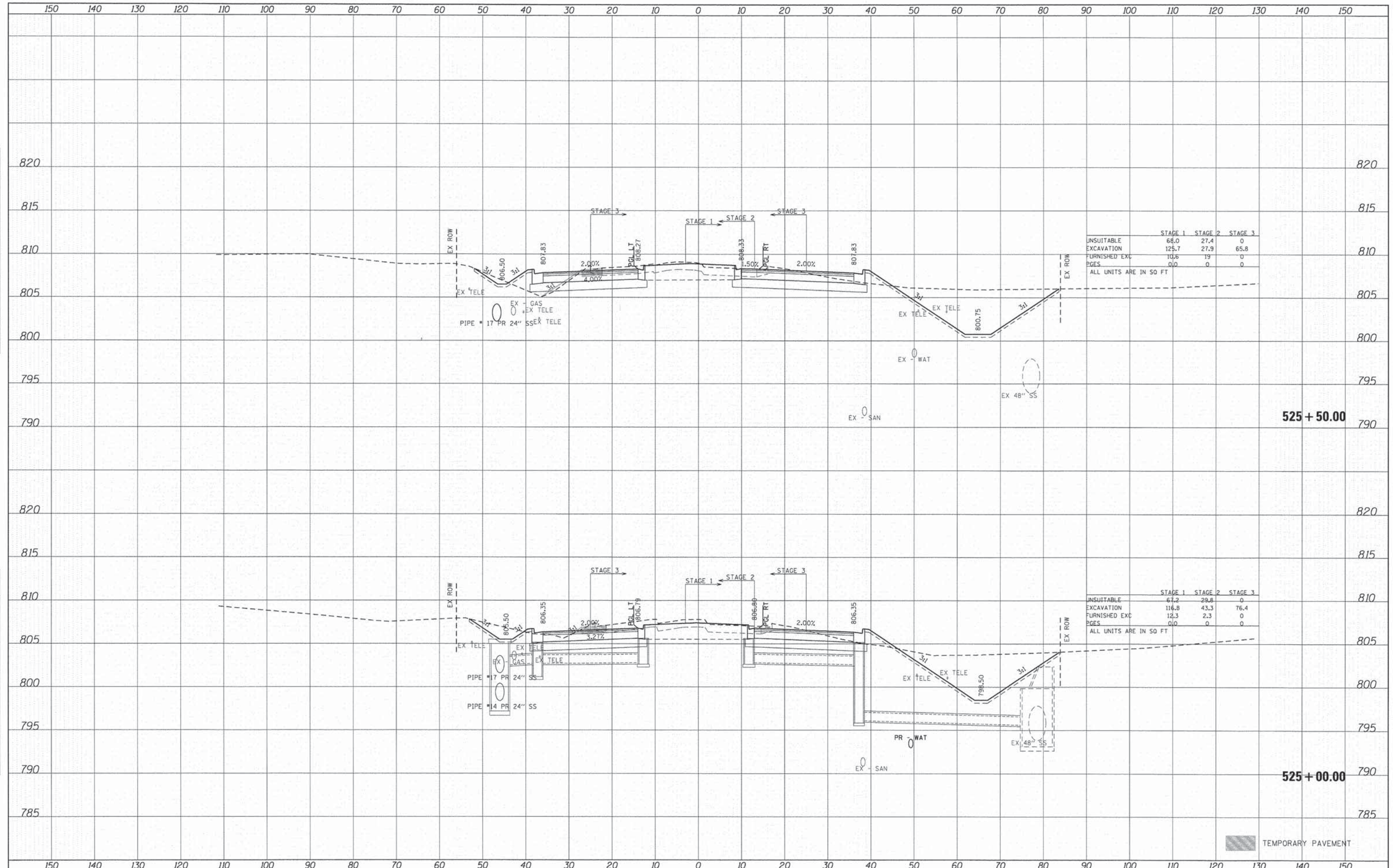
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090871-5509-0011.dwg
MCHENRY

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PROPOSED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
PROPOSED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	



	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE EXCAVATION	68.0	27.4	0
FURNISHED EXC	125.7	27.9	65.8
PGES	0.0	0	0

ALL UNITS ARE IN SQ FT

	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE EXCAVATION	67.2	29.8	0
FURNISHED EXC	116.8	43.3	76.4
PGES	0.0	0	0

ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT



USER NAME = tye1tan	DESIGNED - CMH	REVISED -
PLOT SCALE = 1" = 10'	DRAWN - SVJ	REVISED -
PLOT DATE = 11/11/2014	CHECKED - JLP	REVISED -
	DATE - 11/12/14	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

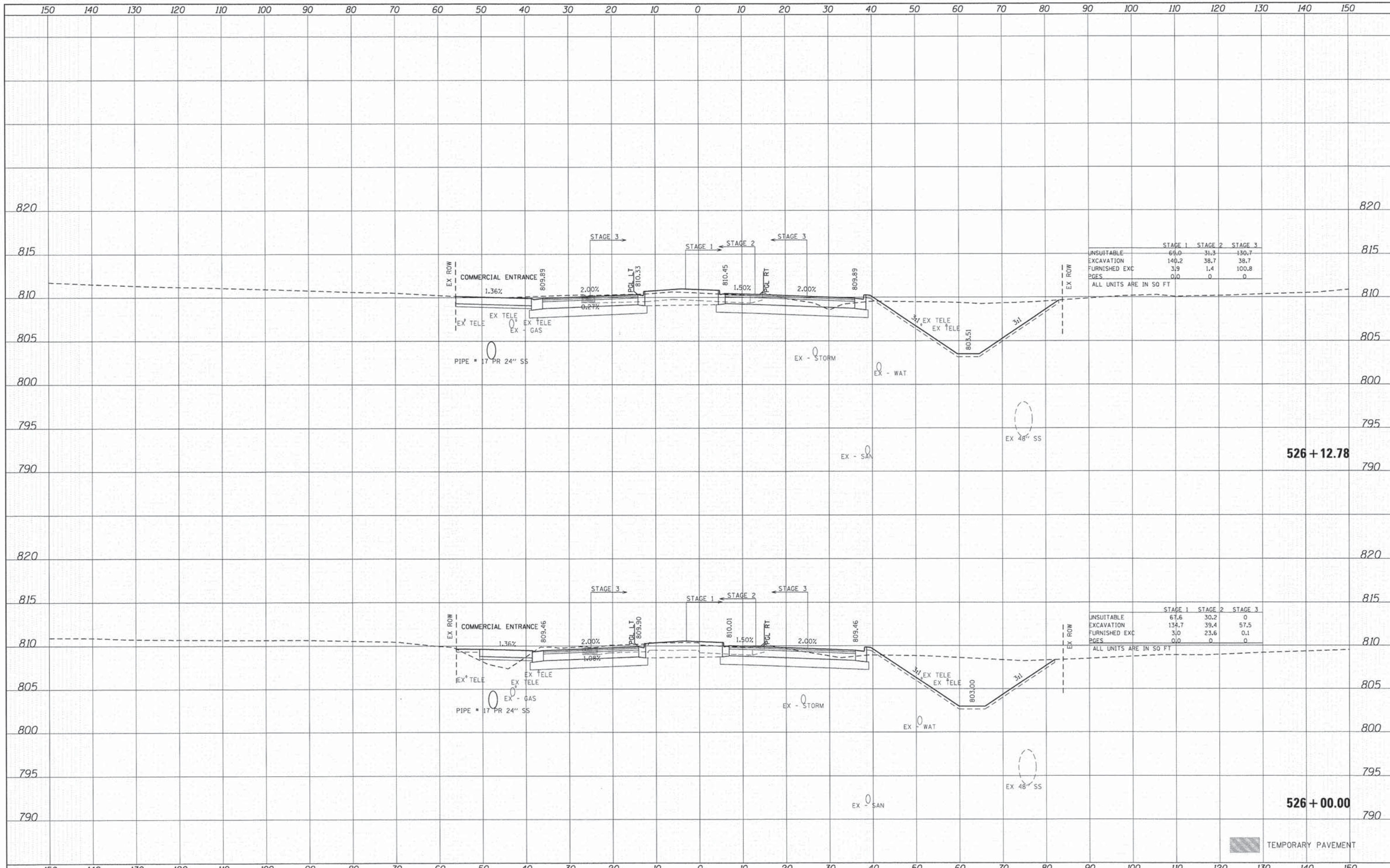
**PROPOSED CROSS SECTIONS
CHARLES J. MILLER ROAD**

SCALE: 1" = 10' SHEET NO. 16 OF 71 SHEETS STA. 525+00.00 TO STA. 525+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3860	09-00372-01-PW	MCHENRY	358	251
CONTRACT NO. 63892				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
FINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	
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DATE	
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NOTE BOOK	
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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	69.0	31.3	130.7
EXCAVATION	140.2	38.7	38.7
FURNISHED EXC	3.9	1.4	100.8
PGES	0.0	0	0

ALL UNITS ARE IN SQ FT

	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	67.6	30.2	0
EXCAVATION	134.7	39.4	57.5
FURNISHED EXC	3.0	23.6	0.1
PGES	0.0	0	0

ALL UNITS ARE IN SQ FT

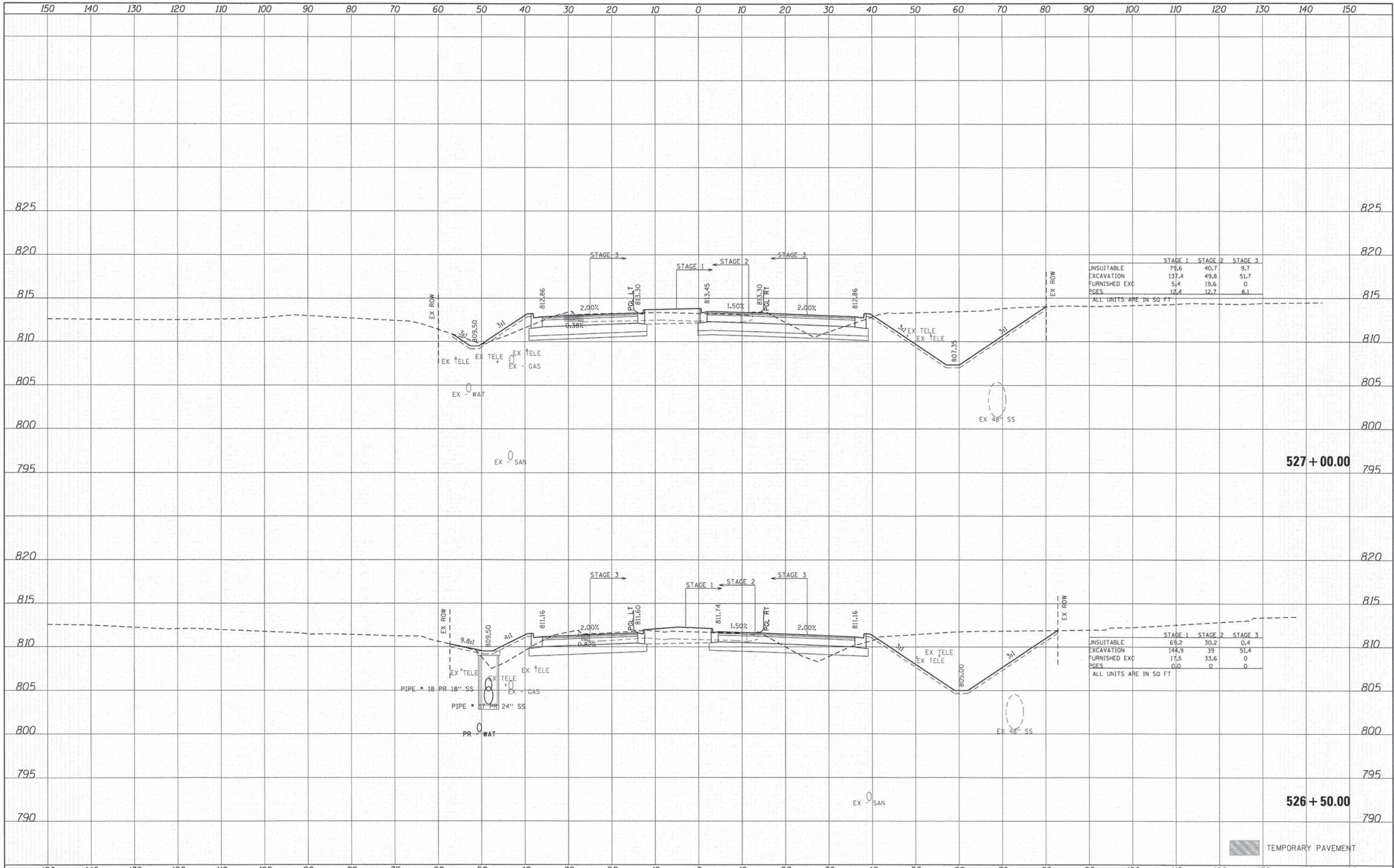
526 + 12.78

526 + 00.00

TEMPORARY PAVEMENT

DATE	
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SURVEYED	
NOTE BOOK	
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SURVEYED	
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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	79.6	40.7	9.7
EXCAVATION	137.4	49.8	51.7
FURNISHED EXC	5.4	19.6	0
PGES	12.4	12.7	8.1

ALL UNITS ARE IN SQ FT

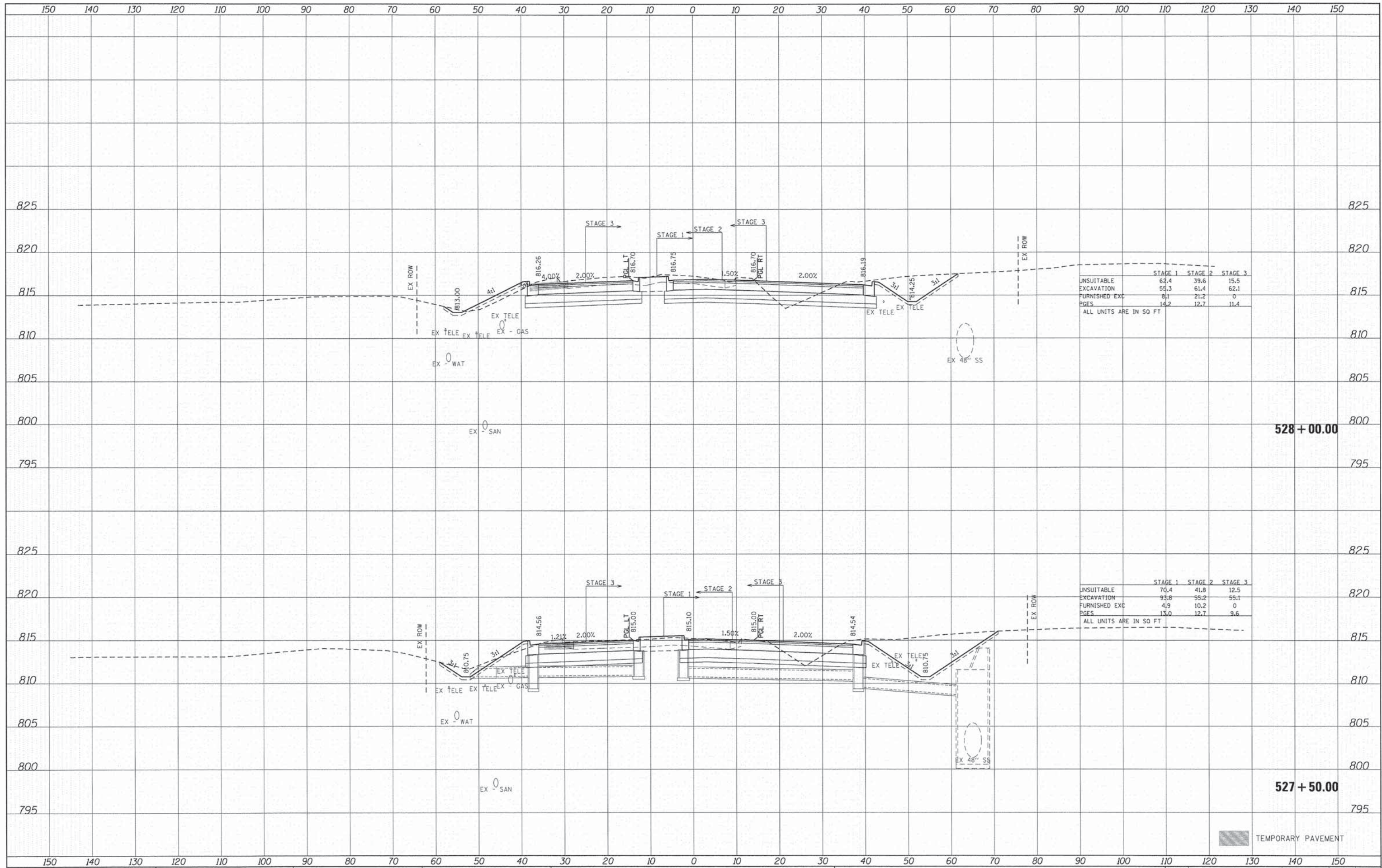
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	69.2	30.2	0.4
EXCAVATION	144.9	39	51.4
FURNISHED EXC	17.5	33.6	0
PGES	0.0	0	0

ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT

DATE	
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NOTE BOOK	
TEMPLATE	
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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE EXCAVATION	62.4	39.6	15.5
FURNISHED EXC	55.3	61.4	62.1
PGES	8.1	21.2	0
	14.2	12.7	11.4

ALL UNITS ARE IN SQ FT

	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE EXCAVATION	70.4	41.8	12.5
FURNISHED EXC	93.8	55.2	55.1
PGES	4.9	10.2	0
	13.0	12.7	9.6

ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT



USER NAME = tyeilton	DESIGNED - CMH	REVISED -
PLLOT SCALE = 1" = 10'	DRAWN - SVJ	REVISED -
PLLOT DATE = 11/11/2014	CHECKED - JLP	REVISED -
	DATE - 11/12/14	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED CROSS SECTIONS
CHARLES J. MILLER ROAD**

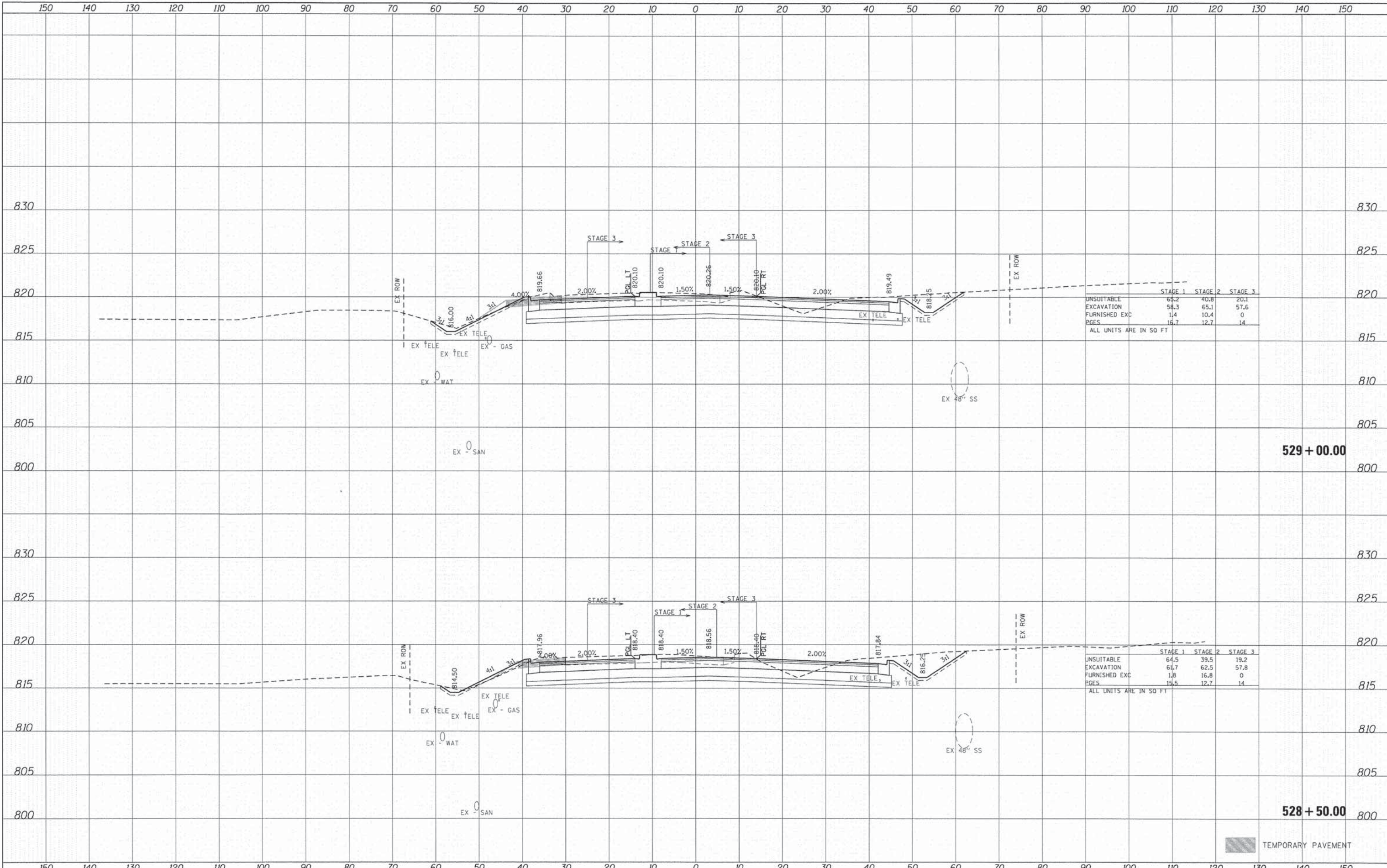
SCALE: 1" = 10' SHEET NO. 19 OF 71 SHEETS STA. 527+50.00 TO STA. 528+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3860	09-00372-01-PW	MCHENRY	358	254
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

CONTRACT NO. 63892

DATE	
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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	65.2	40.8	20.1
EXCAVATION	58.3	65.1	57.6
FURNISHED EXC	1.4	10.4	0
PAGES	16.7	12.7	14

ALL UNITS ARE IN SQ FT

	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	64.5	39.5	19.2
EXCAVATION	61.7	62.5	57.8
FURNISHED EXC	1.8	16.8	0
PAGES	15.5	12.7	14

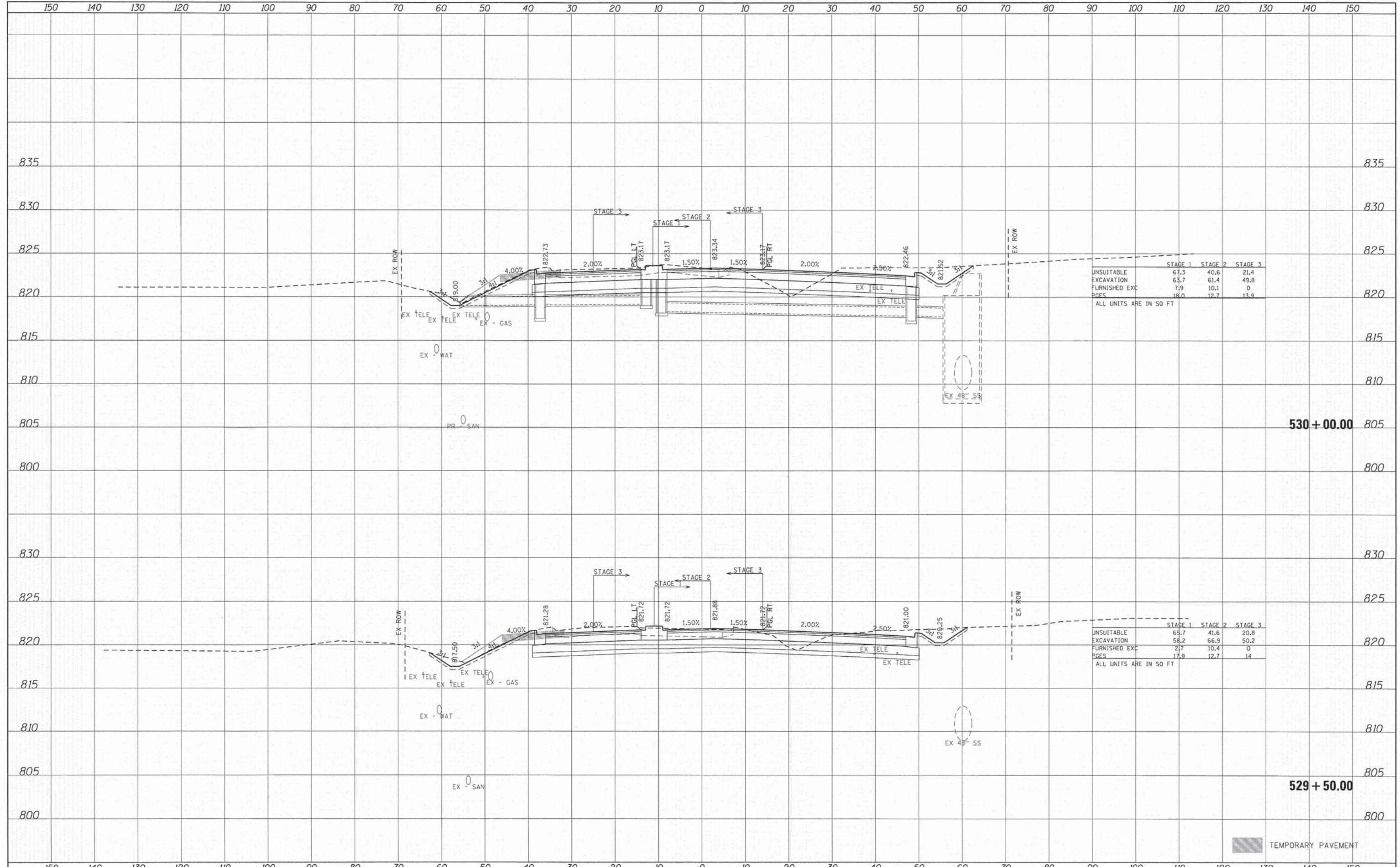
ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT

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FINAL SURVEY NOTE BOOK NO.	

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



	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	67.3	40.6	21.4
EXCAVATION	63.7	61.4	49.8
FURNISHED EXC	7.9	10.1	0
PAGES	18.0	12.7	13.9

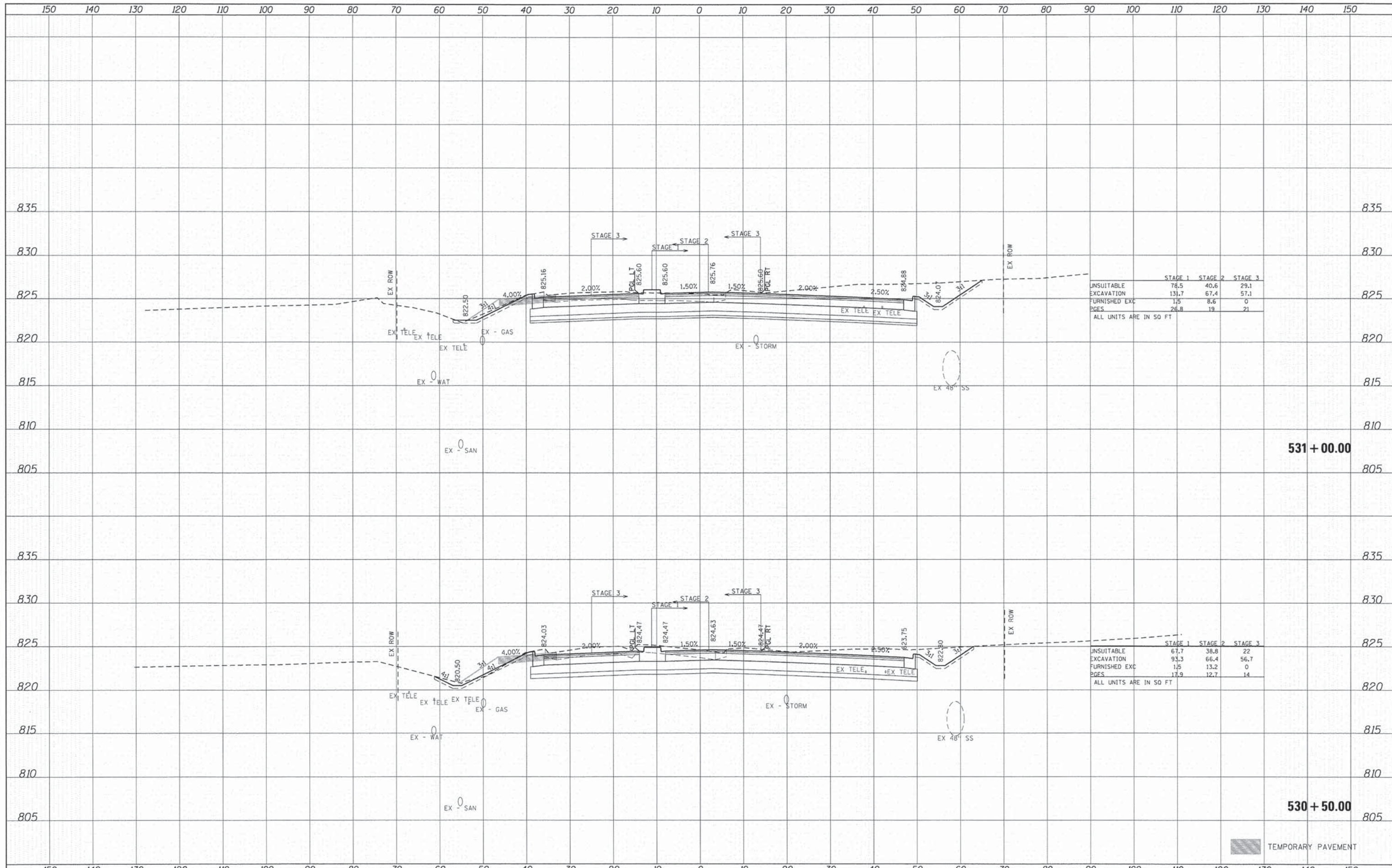
ALL UNITS ARE IN SQ FT

	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	65.7	41.6	20.8
EXCAVATION	58.2	66.9	50.2
FURNISHED EXC	21.7	10.4	0
PAGES	17.9	12.7	14

ALL UNITS ARE IN SQ FT

DATE	
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NOTE BOOK	
AREAS CHECKED	
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TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	78.5	40.6	29.1
EXCAVATION	131.7	67.4	57.1
FURNISHED EXC	1.5	8.6	0
PAGES	26.8	19	21

ALL UNITS ARE IN SQ FT

	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	67.7	38.8	22
EXCAVATION	93.3	66.4	56.7
FURNISHED EXC	1.5	13.2	0
PAGES	17.9	12.7	14

ALL UNITS ARE IN SQ FT

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



USER NAME = tje1ton	DESIGNED - CMH	REVISED -
PLLOT SCALE = 1" = 10'	DRAWN - SVJ	REVISED -
PLLOT DATE = 11/11/2014	CHECKED - JLP	REVISED -
	DATE - 11/12/14	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED CROSS SECTIONS
CHARLES J. MILLER ROAD**

SCALE: 1" = 10' SHEET NO. 22 OF 71 SHEETS STA. 530+50.00 TO STA. 531+00.00

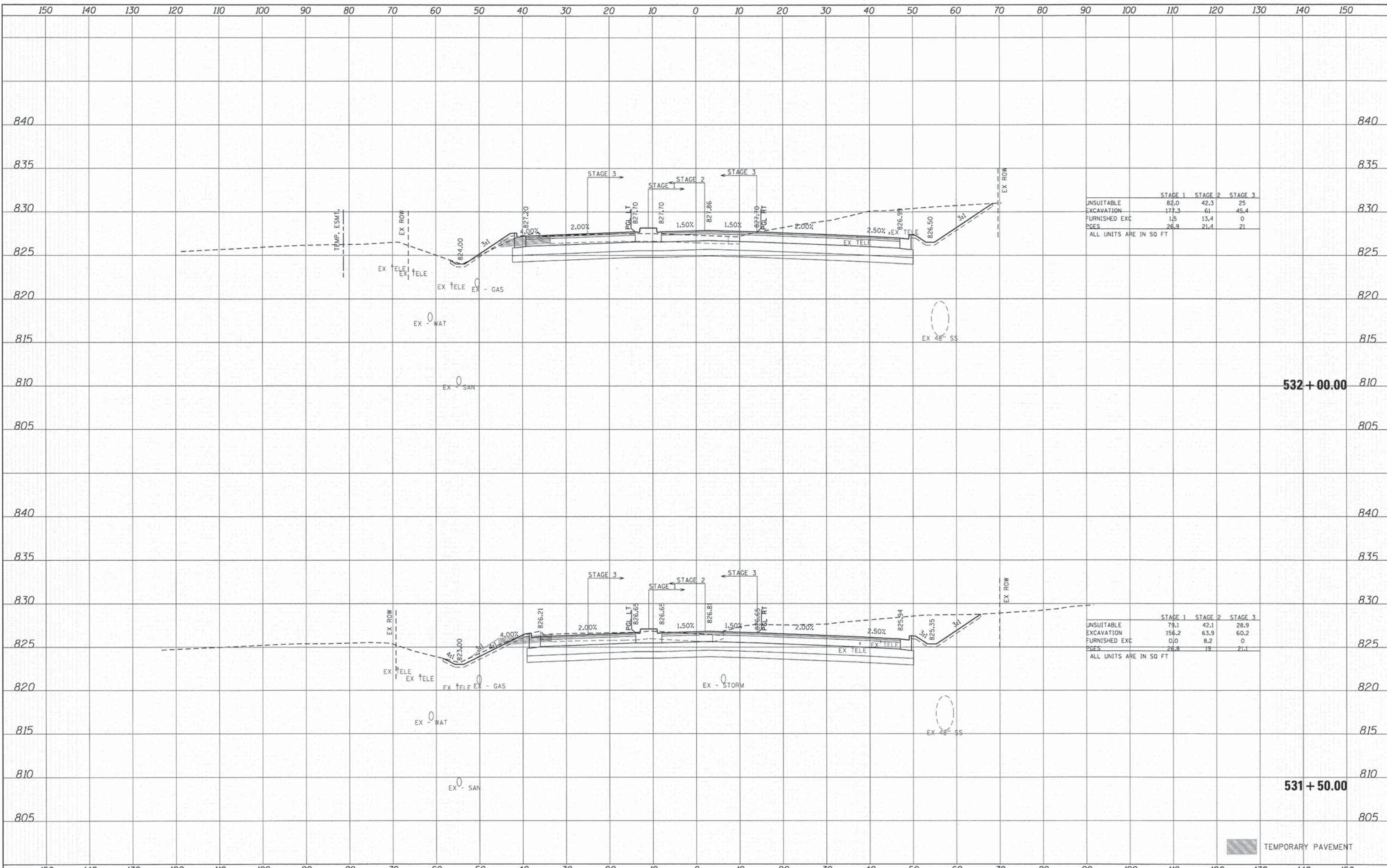
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3860	09-00372-01-PW	MCHENRY	358	257
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 63892	

420 NORTH FRONT STREET, SUITE 100 | MCHENRY, ILLINOIS 60050
Phone: 815.356.1778 | Toll Free: 800.328.7862 | Fax: 815.356.1782 | HRGreen.com
ILLINOIS PROFESSIONAL DESIGN FIRM #184-02122

09071-15050-PHILLIPS MCHENRY

DATE	
BY	
SURVEYED	
TEMPLATE	
AREAS CHECKED	
FINAL SURVEY	
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SURVEYED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	82.0	42.3	25
EXCAVATION	177.3	61	45.4
FURNISHED EXC	1.5	13.4	0
PAGES	26.9	21.4	21

ALL UNITS ARE IN SQ FT

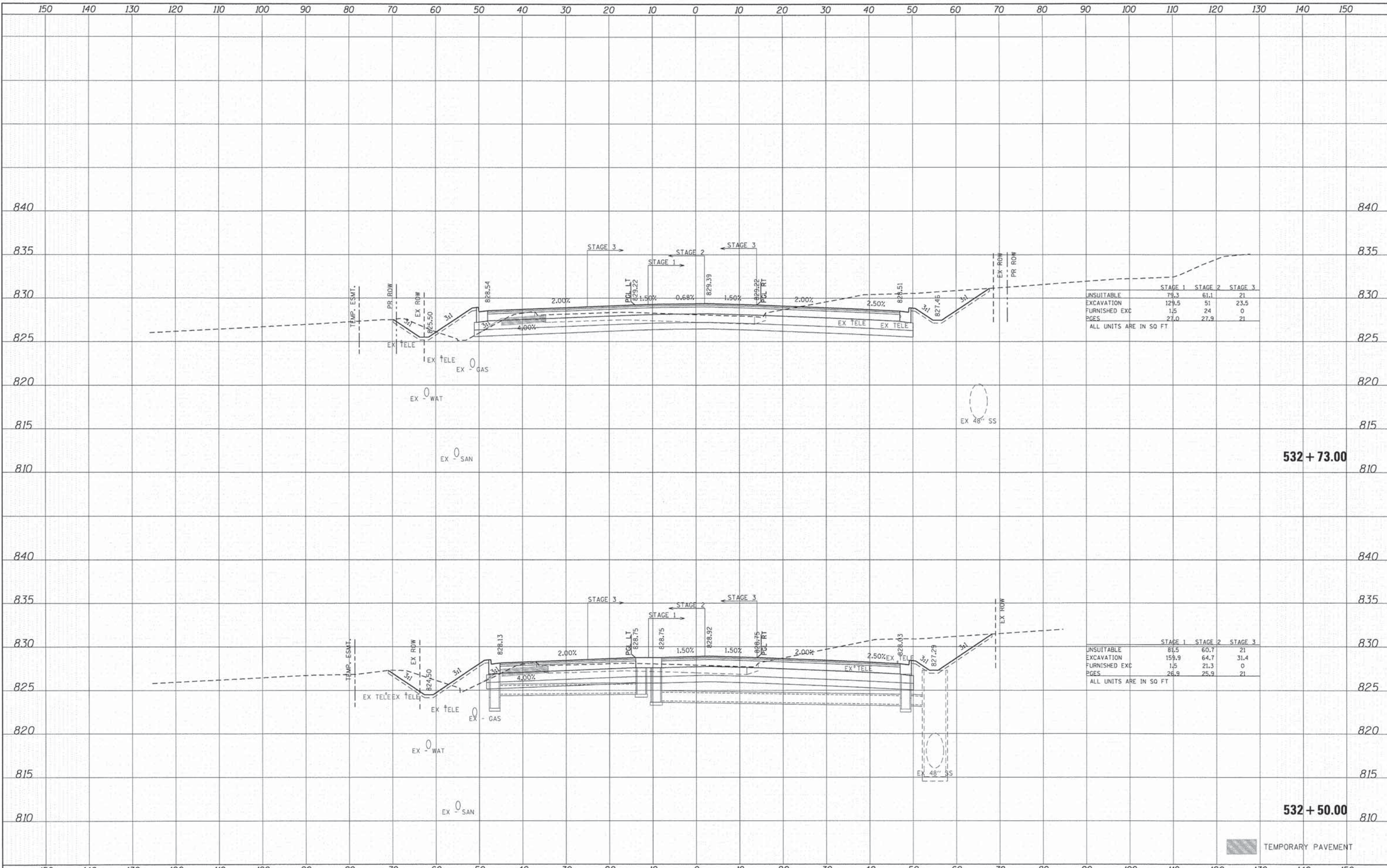
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	79.1	42.1	28.9
EXCAVATION	156.2	63.9	60.2
FURNISHED EXC	0.0	8.2	0
PAGES	26.8	19	21.1

ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT

DATE	
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TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	



	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	79.3	61.1	21
EXCAVATION	129.5	51	23.5
FURNISHED EXC	1.5	24	0
PGES	27.0	27.9	21

ALL UNITS ARE IN SQ FT

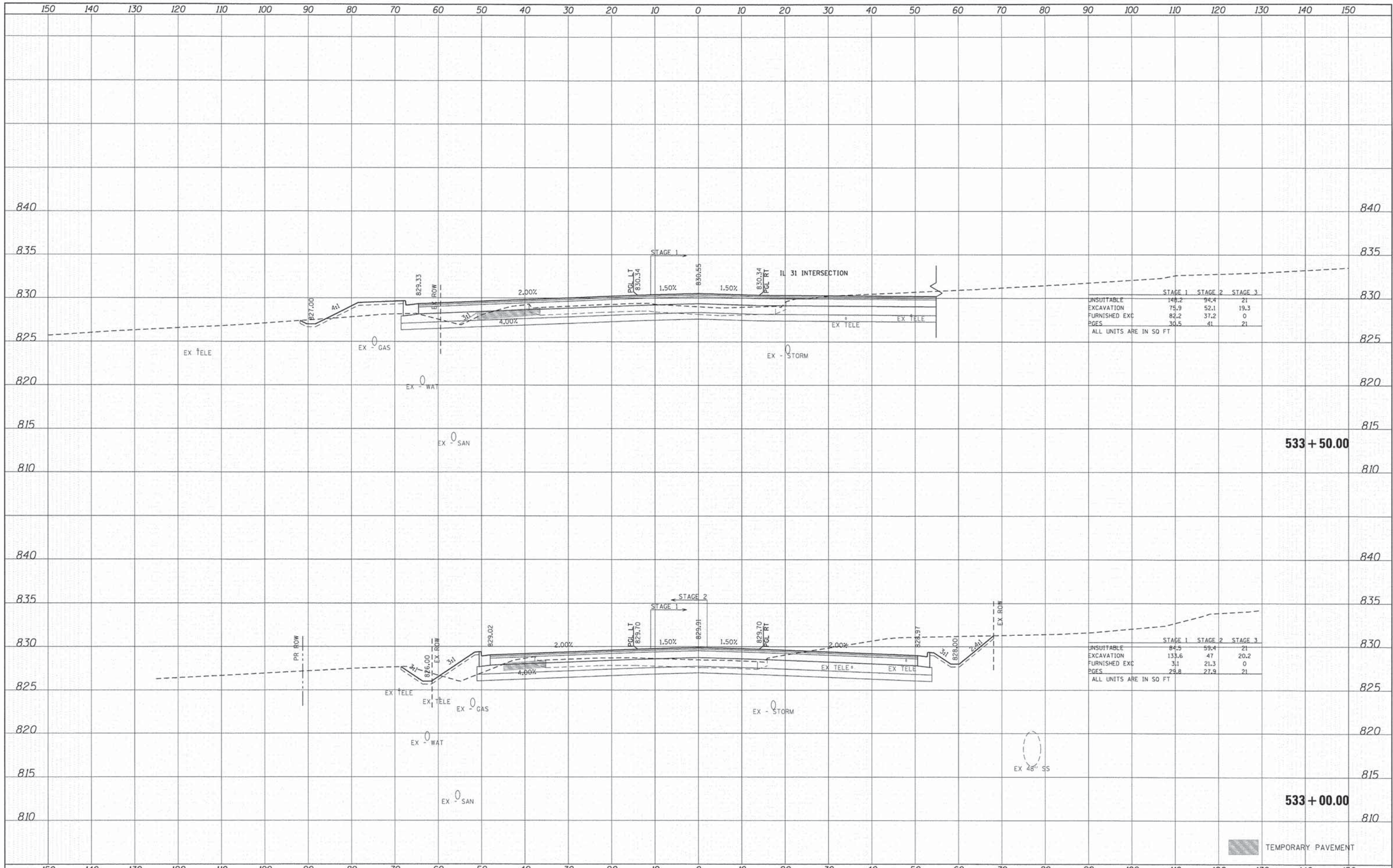
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	81.5	60.7	21
EXCAVATION	159.9	64.7	31.4
FURNISHED EXC	1.5	21.3	0
PGES	26.9	25.9	21

ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT

DATE	
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NOTE BOOK	
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ORIGINAL SURVEY	
NOTE BOOK	
TEMP. AREAS	
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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	148.2	94.4	21
EXCAVATION	75.9	52.1	19.3
FURNISHED EXC	82.2	37.2	0
PGES	30.5	41	21

ALL UNITS ARE IN SQ FT

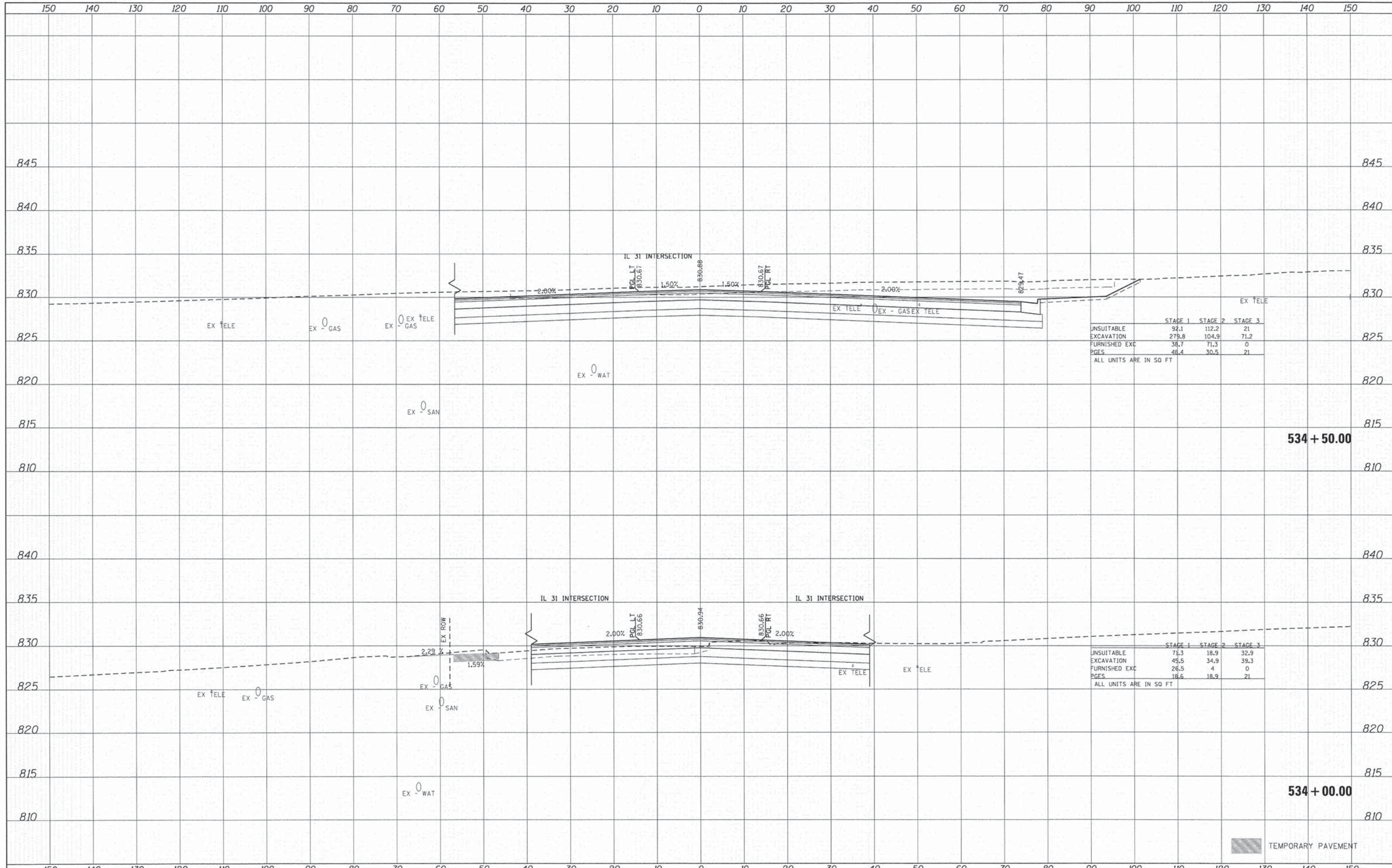
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	84.5	59.4	21
EXCAVATION	133.6	47	20.2
FURNISHED EXC	3.1	21.3	0
PGES	29.8	27.9	21

ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT

DATE	
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NOTED	
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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	92.1	112.2	21
EXCAVATION	279.8	104.9	71.2
FURNISHED EXC	38.7	71.3	0
PGES	48.4	30.5	21

ALL UNITS ARE IN SQ FT

	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	71.3	18.9	32.9
EXCAVATION	45.5	34.9	39.3
FURNISHED EXC	26.5	4	0
PGES	18.6	18.9	21

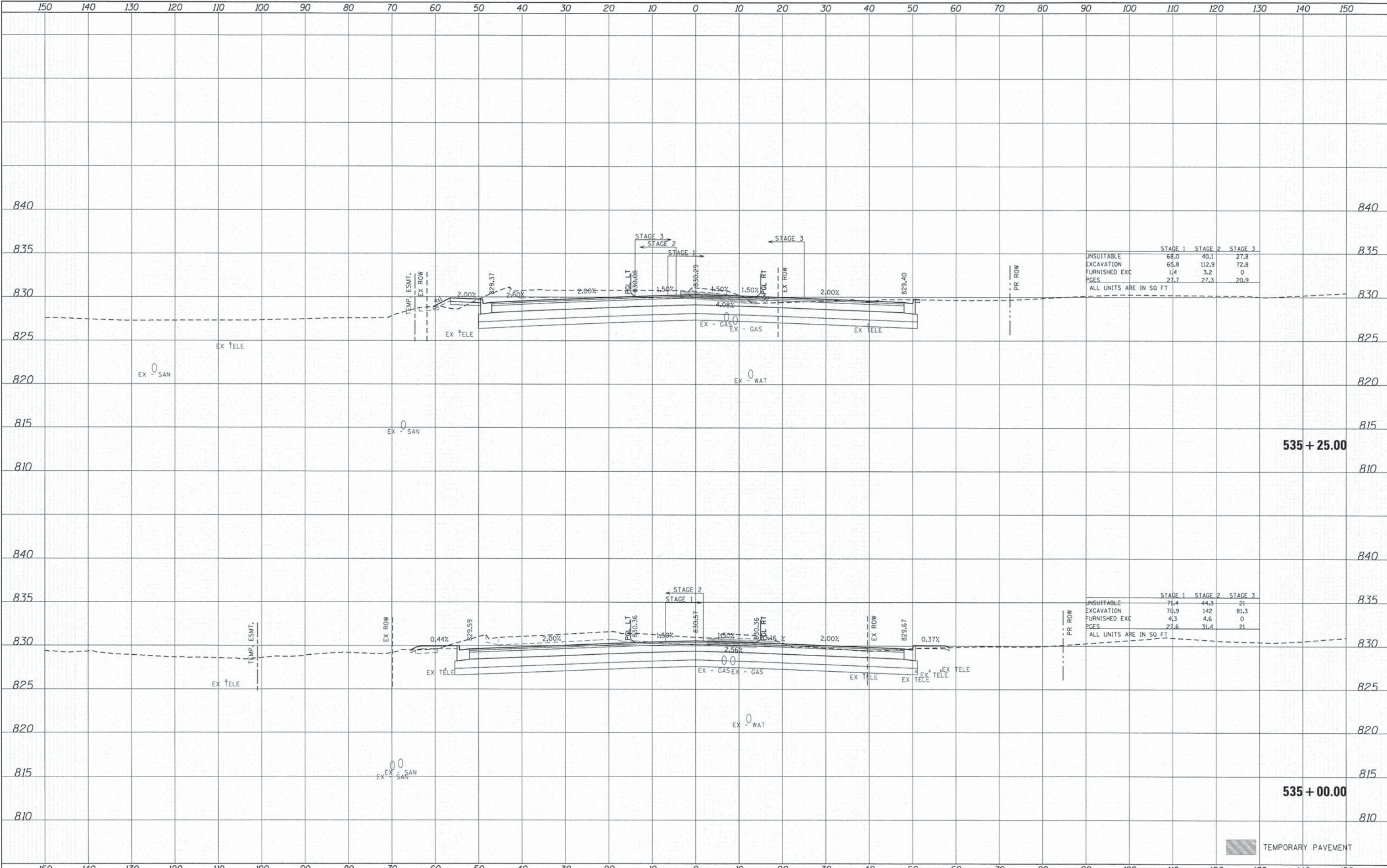
ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT

	USER NAME = tjeilton	DESIGNED - CMH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED CROSS SECTIONS CHARLES J. MILLER ROAD	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1" = 10'	DRAWN - SVJ	REVISED -			3860	09-00372-01-PW	MCHENRY	358	261
<small>420 NORTH FRONT STREET, SUITE 100 MCHENRY, ILLINOIS 60050 Phone: 815.385.1778 Fax: 815.385.1782 Email: info@hrgreen.com www.hrgreen.com ILLINOIS PROFESSIONAL DESIGN FIRM #184-01232</small>	PLOT DATE = 11/11/2014	CHECKED - JLP	REVISED -	SCALE: 1" = 10' SHEET NO. 26 OF 71 SHEETS STA. 534+00.00 TO STA. 534+50.00		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 63892				
	DATE = 11/12/14	REVISIED -	REVISED -							

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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	68.0	40.1	27.8
EXCAVATION	65.8	112.9	72.8
FURNISHED EXC	1.4	3.2	0
PGES	27.7	27.3	20.9

ALL UNITS ARE IN SQ FT

	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	71.4	44.3	21
EXCAVATION	70.9	142	81.3
FURNISHED EXC	4.3	4.6	0
PGES	27.6	31.4	21

ALL UNITS ARE IN SQ FT

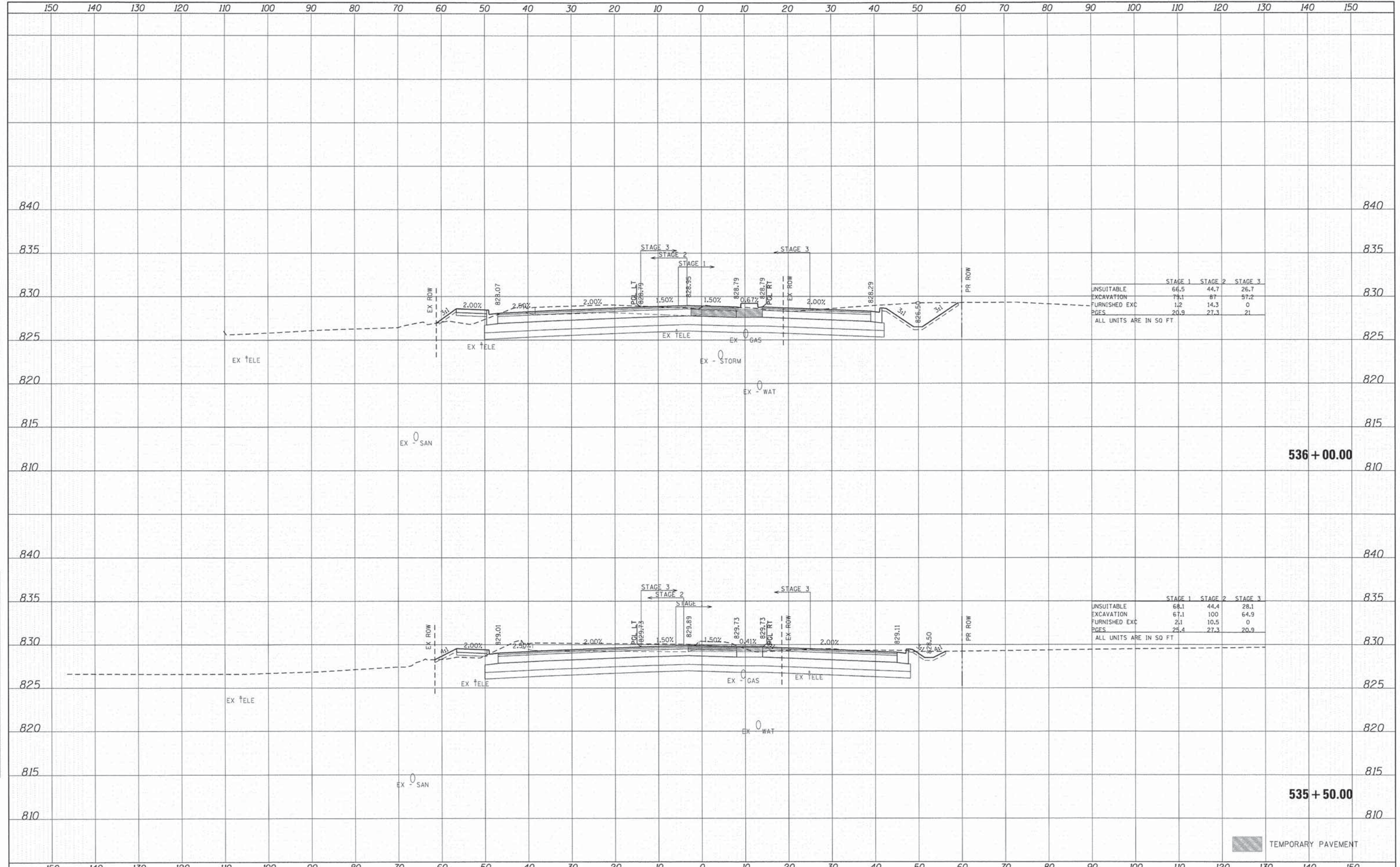
535 + 25.00

535 + 00.00

TEMPORARY PAVEMENT

DATE	
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FINAL SURVEY BOOK NO.	
NOTE BOOK NO.	

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ORIGINAL SURVEY BOOK NO.	
NOTE BOOK NO.	



	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	66.5	44.7	26.7
EXCAVATION	79.1	87	57.2
FURNISHED EXC	1.2	14.3	0
PAGES	20.9	27.3	21

ALL UNITS ARE IN SQ FT

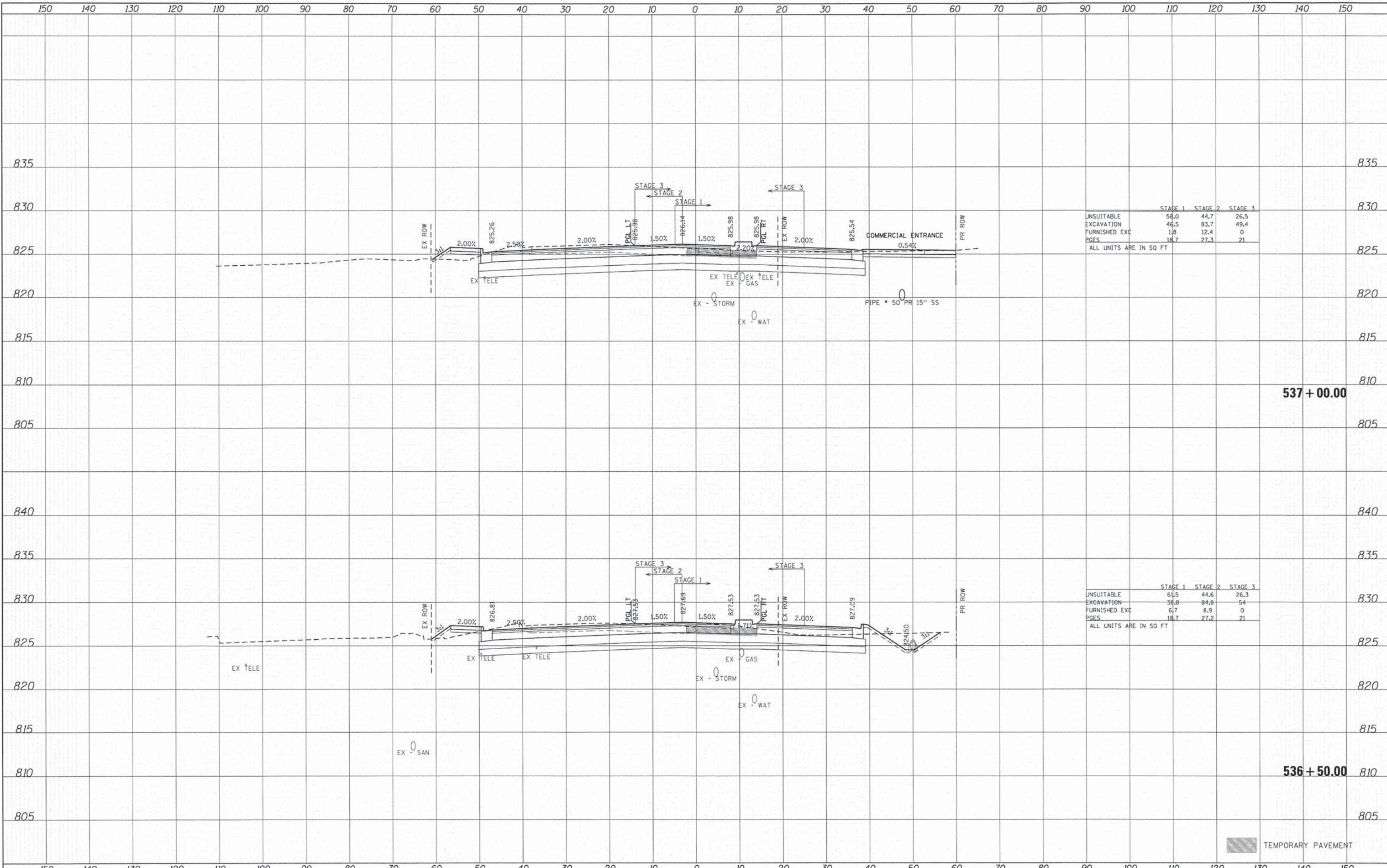
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	68.1	44.4	28.1
EXCAVATION	67.1	100	64.9
FURNISHED EXC	2.1	10.5	0
PAGES	25.4	27.3	20.9

ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT

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FINAL SURVEY BOOK NO.	
NOTE BOOK NO.	

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AREAS CHECKED	
ORIGINAL SURVEY BOOK NO.	
NOTE BOOK NO.	



	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	58.0	44.7	26.5
EXCAVATION	46.5	83.7	49.4
FURNISHED EXC	1.8	12.4	0
PGES	18.7	27.3	21

ALL UNITS ARE IN SQ FT

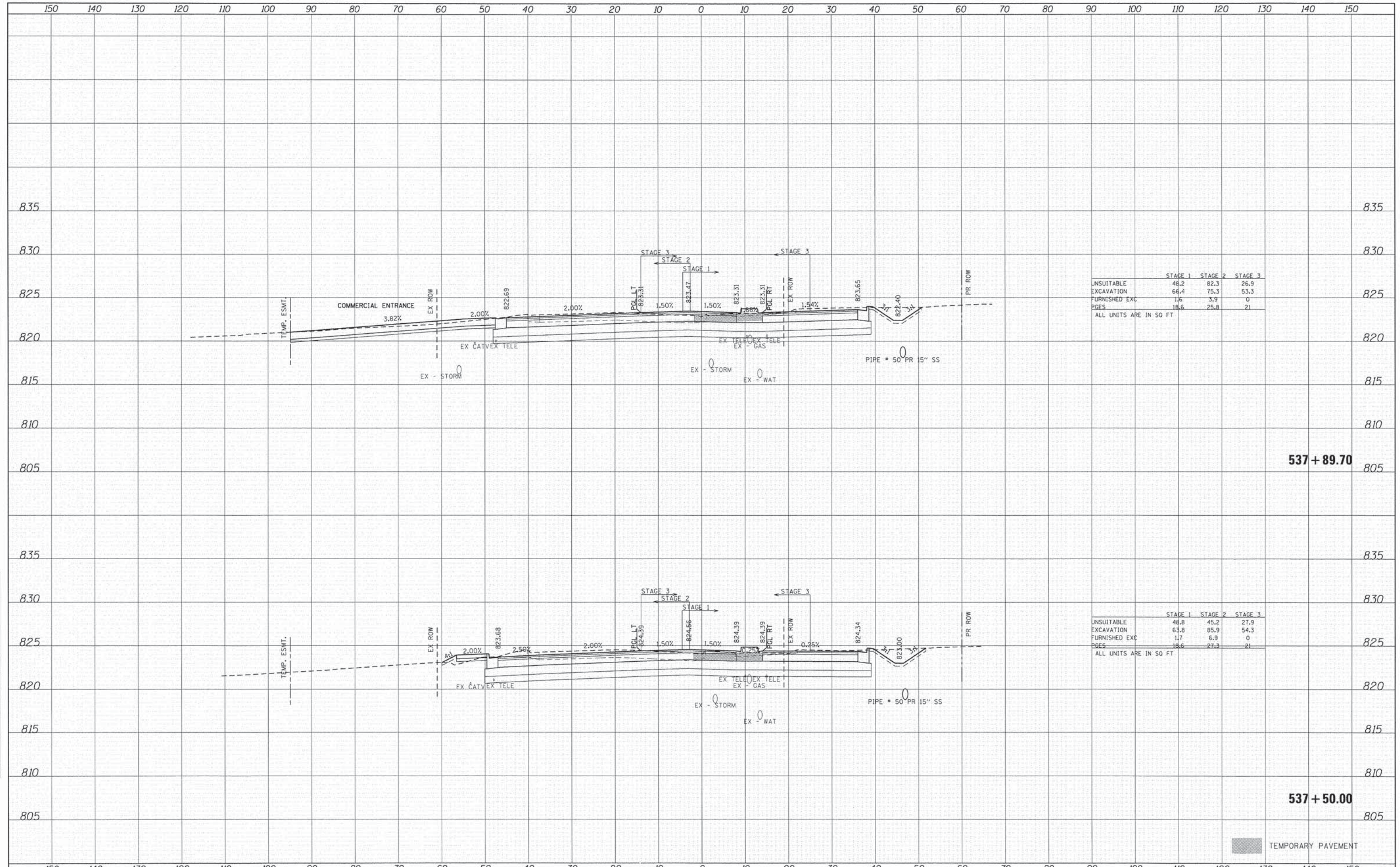
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	61.5	44.6	26.3
EXCAVATION	38.8	84.8	54
FURNISHED EXC	6.7	8.9	0
PGES	18.7	27.2	21

ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT

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NOTE BOOK NO.	
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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	48.2	82.3	26.9
EXCAVATION	66.4	75.3	53.3
FURNISHED EXC	1.6	3.9	0
PAGES	18.6	25.8	21

ALL UNITS ARE IN SQ FT

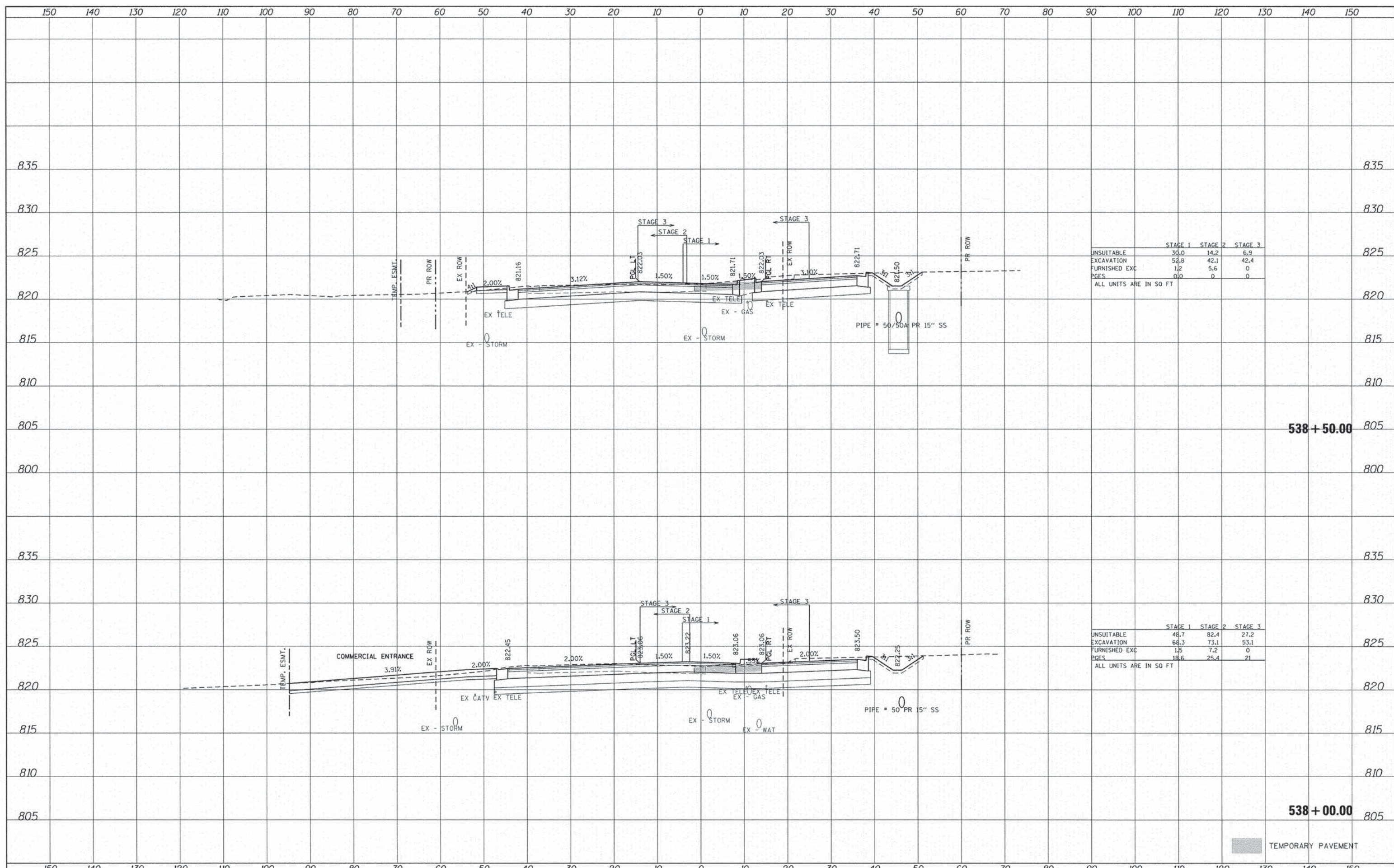
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	48.8	45.2	27.9
EXCAVATION	63.8	85.9	54.3
FURNISHED EXC	1.7	6.9	0
PAGES	18.6	27.3	21

ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT

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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	30.0	14.2	6.9
EXCAVATION	52.8	42.1	42.4
FURNISHED EXC	1.2	5.6	0
PGES	0.0	0	0

ALL UNITS ARE IN 50 FT

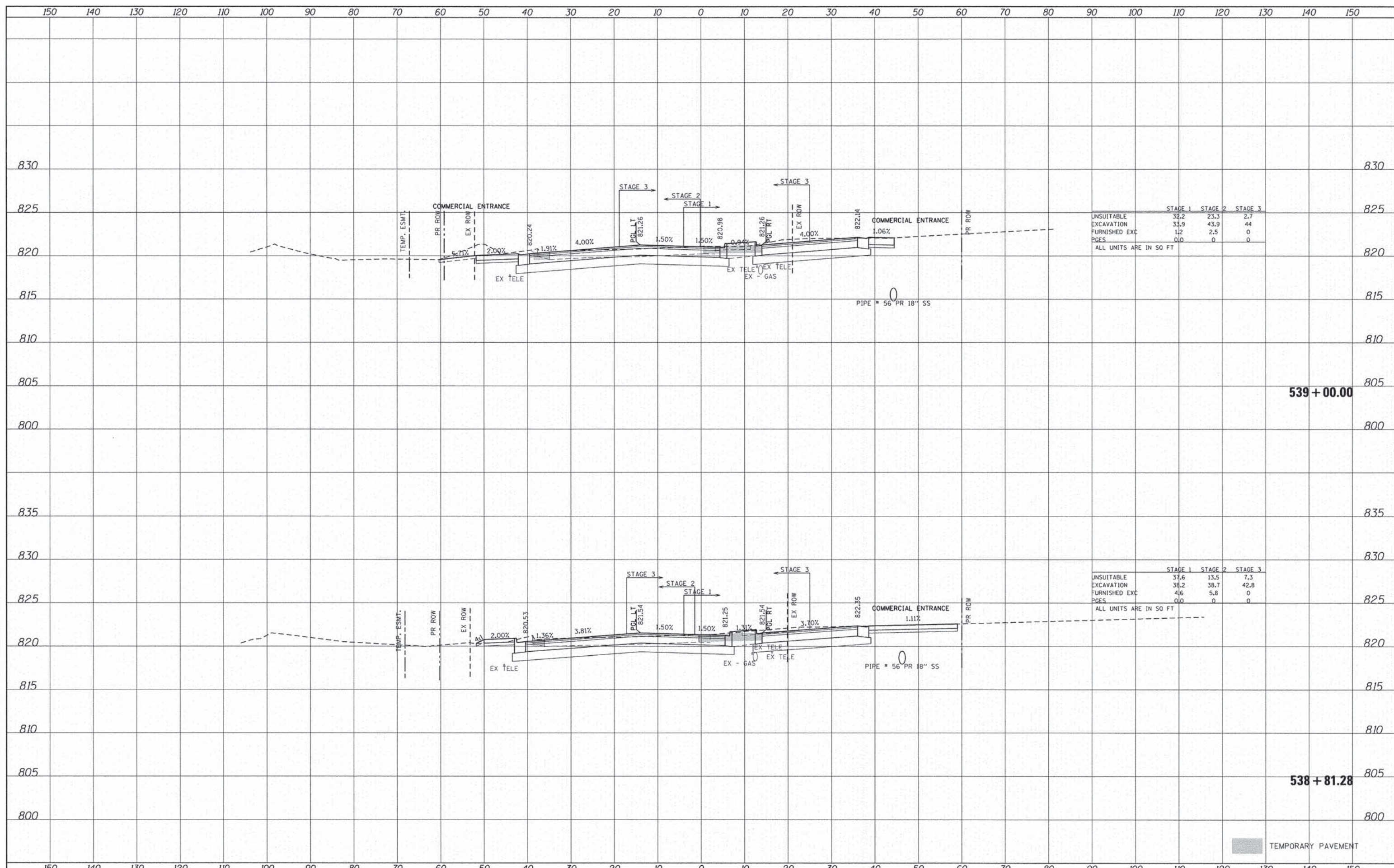
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	46.7	82.4	27.2
EXCAVATION	68.3	73.1	53.1
FURNISHED EXC	1.5	7.2	0
PGES	18.6	25.4	21

ALL UNITS ARE IN 50 FT

TEMPORARY PAVEMENT

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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	32.2	23.3	2.7
EXCAVATION	33.9	43.9	44
FURNISHED EXC	1.2	2.5	0
PGES	0.0	0	0

ALL UNITS ARE IN SQ FT

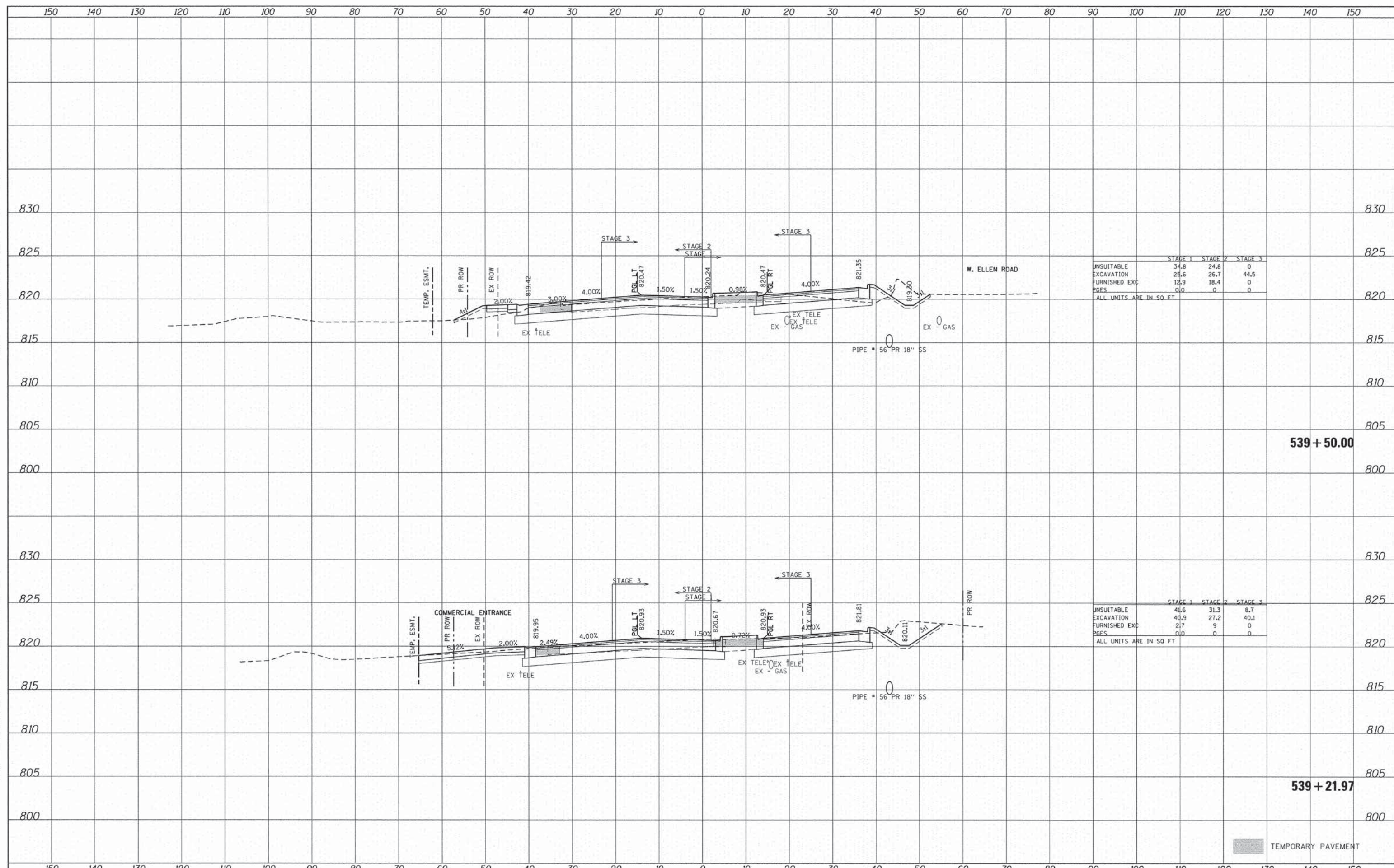
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	37.6	13.5	7.3
EXCAVATION	38.2	38.7	42.8
FURNISHED EXC	4.6	5.8	0
PGES	0.0	0	0

ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT

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ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	34.8	24.8	0
EXCAVATION	25.6	26.7	44.5
FURNISHED EXC	12.9	18.4	0
PAGES	0.0	0	0

ALL UNITS ARE IN SQ FT

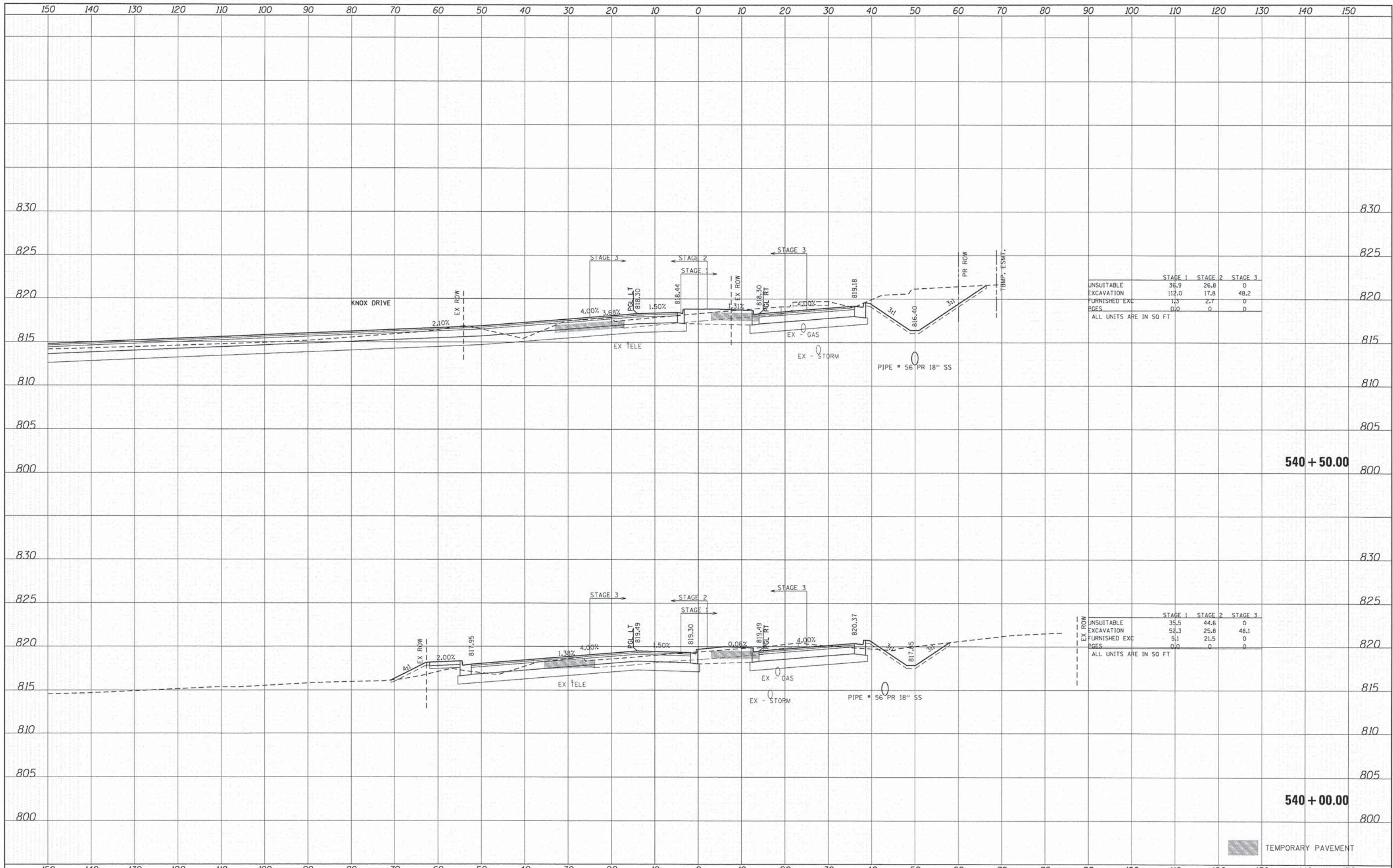
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	41.6	31.3	8.7
EXCAVATION	40.9	27.2	40.1
FURNISHED EXC	21.7	9	0
PAGES	0.0	0	0

ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT

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NOTE BOOK	
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NOTE BOOK	
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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	36.9	26.8	0
EXCAVATION	112.0	17.8	48.2
FURNISHED EXC	1.5	2.7	0
PAGES	0.0	0	0

ALL UNITS ARE IN SQ FT

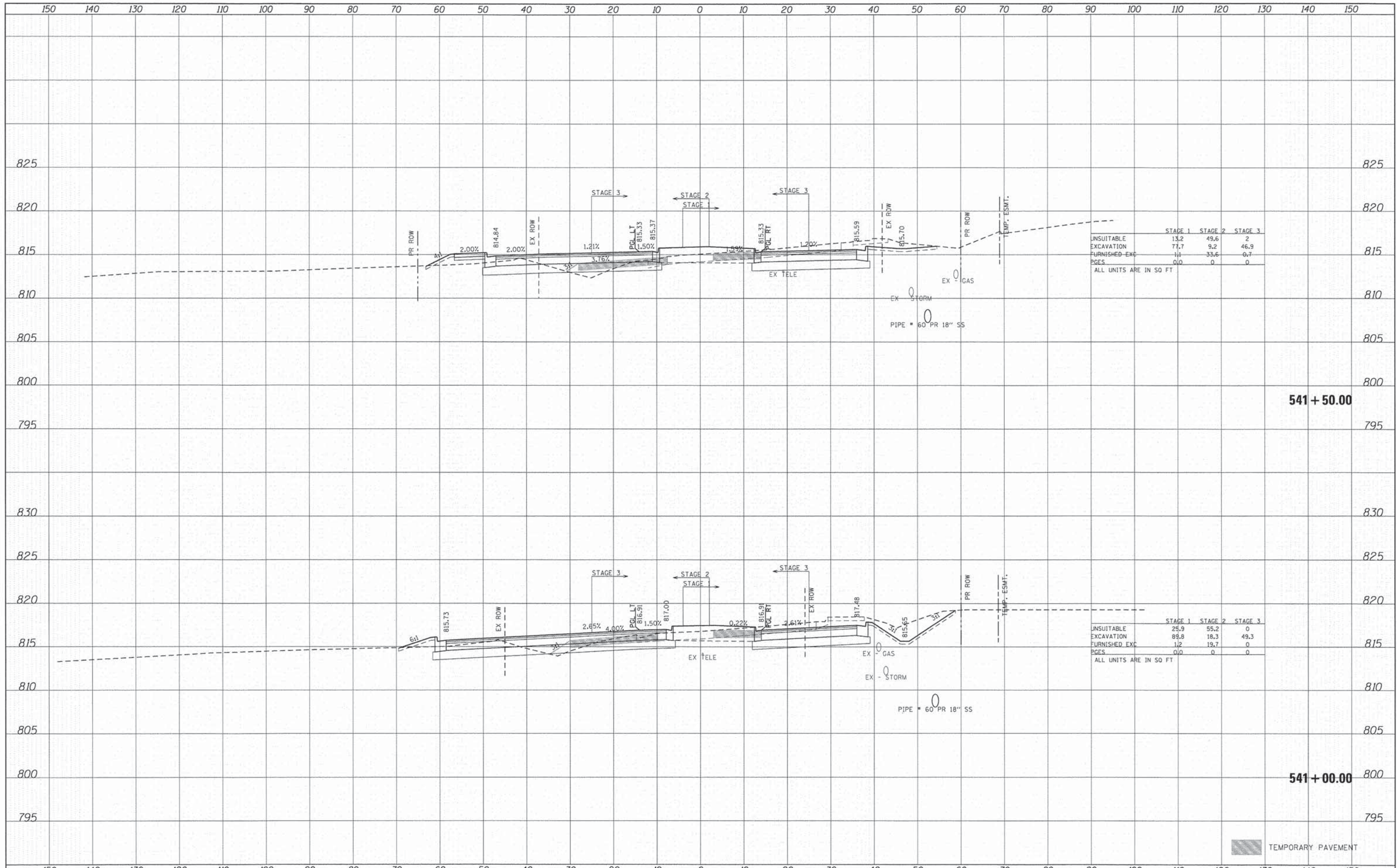
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	35.5	44.6	0
EXCAVATION	52.3	25.8	48.1
FURNISHED EXC	5.1	21.5	0
PAGES	0.0	0	0

ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT

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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	13.2	49.6	2
EXCAVATION	77.7	9.2	46.9
FURNISHED EXC	11	33.6	0.7
PAGES	0.0	0	0

ALL UNITS ARE IN SQ FT

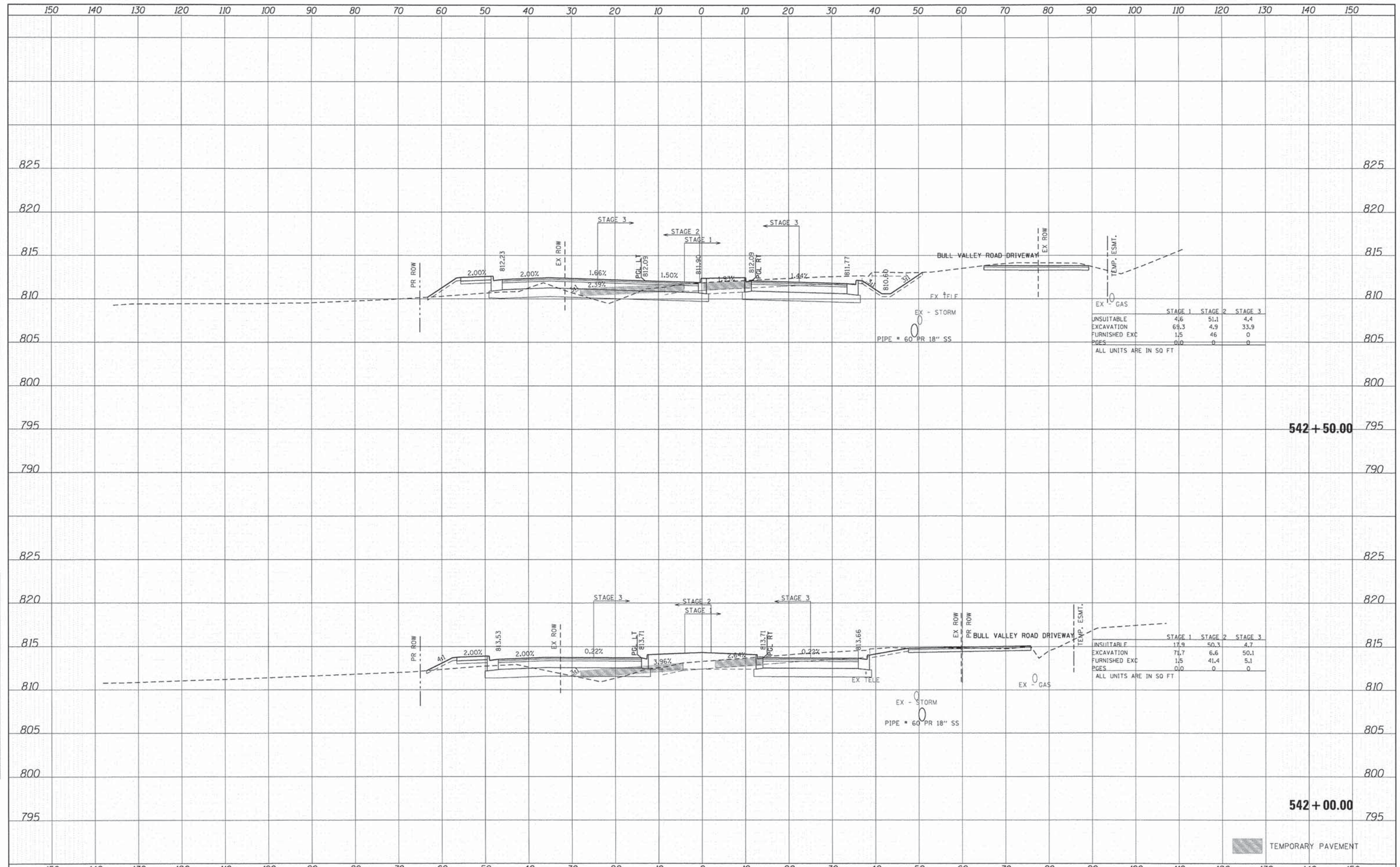
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	25.9	55.2	0
EXCAVATION	89.8	18.3	49.3
FURNISHED EXC	1.2	19.7	0
PAGES	0.0	0	0

ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT

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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	4.6	51.1	4.4
EXCAVATION	69.3	4.9	33.9
FURNISHED EXC	1.5	4.6	0
PAGES	0.0	0	0

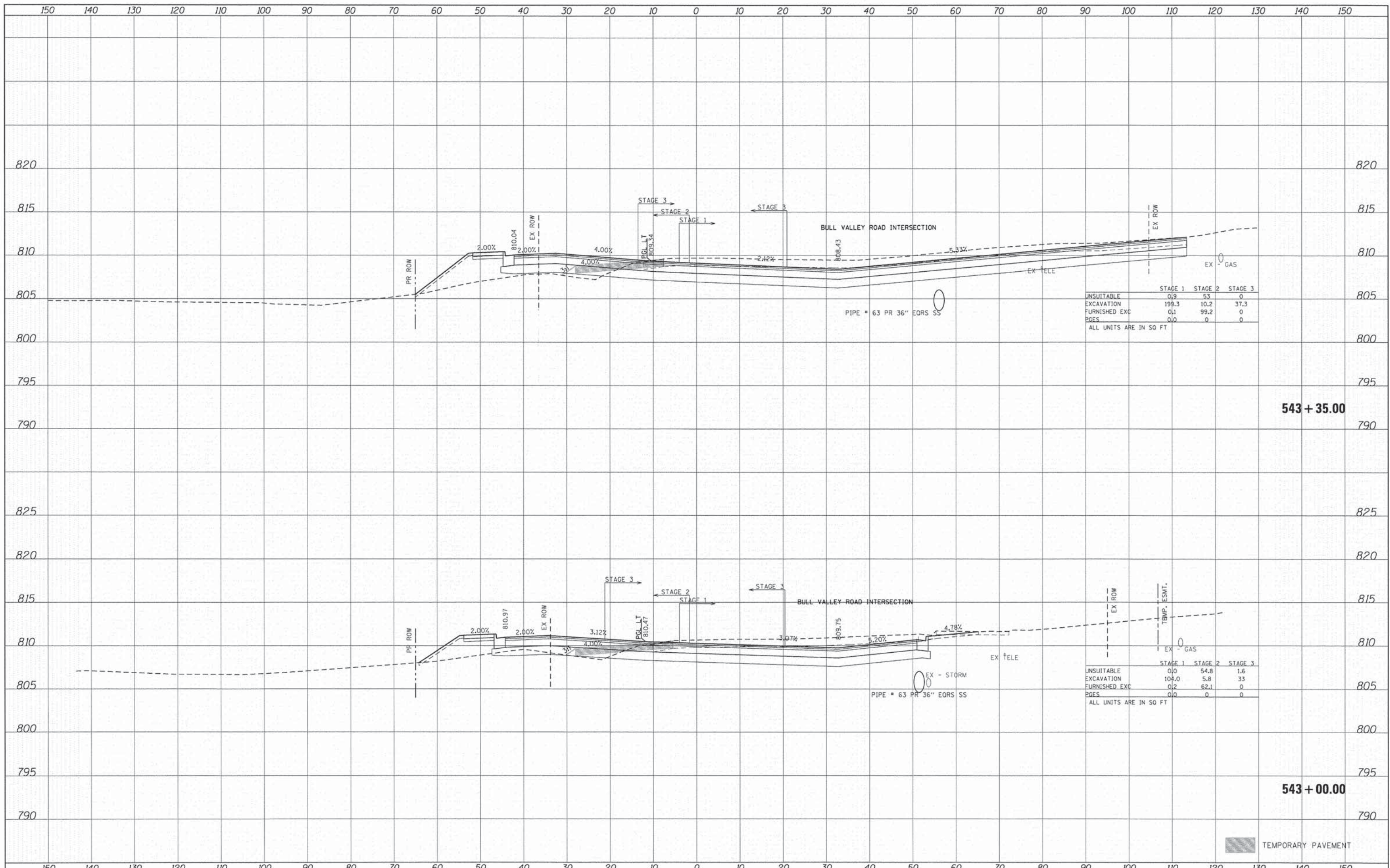
ALL UNITS ARE IN SQ FT

	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	17.9	50.3	4.7
EXCAVATION	71.7	6.6	50.1
FURNISHED EXC	1.5	41.4	5.1
PAGES	0.0	0	0

ALL UNITS ARE IN SQ FT

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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	0.9	5.3	0
EXCAVATION	199.3	10.2	37.3
FURNISHED EXC	0.1	99.2	0
PGES	0.0	0	0

ALL UNITS ARE IN SQ FT

	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	0.0	54.8	1.6
EXCAVATION	104.0	5.8	3.3
FURNISHED EXC	0.2	62.1	0
PGES	0.0	0	0

ALL UNITS ARE IN SQ FT

HRGreen
 420 NORTH FRONT STREET, SUITE 100 | MCHENRY, ILLINOIS 60050
 Phone: 815-385-1772 | Toll Free: 800-774-2800 | Fax: 815-385-1781 | hr@hrgreen.com
 ILLINOIS PROFESSIONAL DESIGN FIRM #184-011832

USER NAME = tyeilton	DESIGNED - CMH	REVISED -
PLOT SCALE = 1" = 10'	DRAWN - SVJ	REVISED -
PLOT DATE = 11/11/2014	CHECKED - JLP	REVISED -
	DATE - 11/12/14	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED CROSS SECTIONS
 CHARLES J. MILLER ROAD**

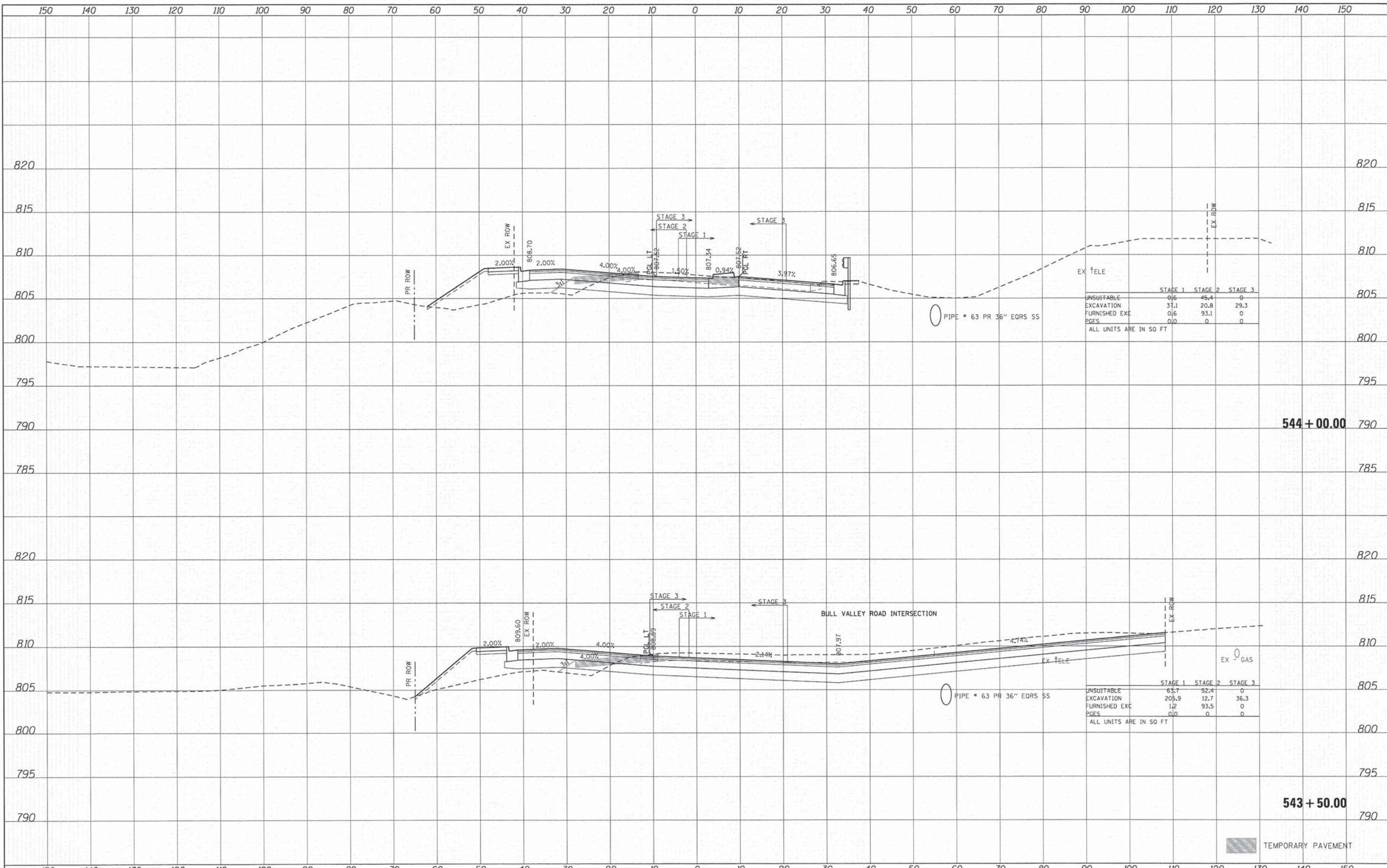
SCALE: 1" = 10' SHEET NO. 37 OF 71 SHEETS STA. 543+00.00 TO STA. 543+35.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3860	09-00372-01-PW	MCHENRY	358	272
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63892	

TEMPORARY PAVEMENT

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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	0.6	45.4	0
EXCAVATION	37.1	20.8	29.3
FURNISHED EXC	0.6	93.1	0
PGES	0.0	0	0

ALL UNITS ARE IN SQ FT

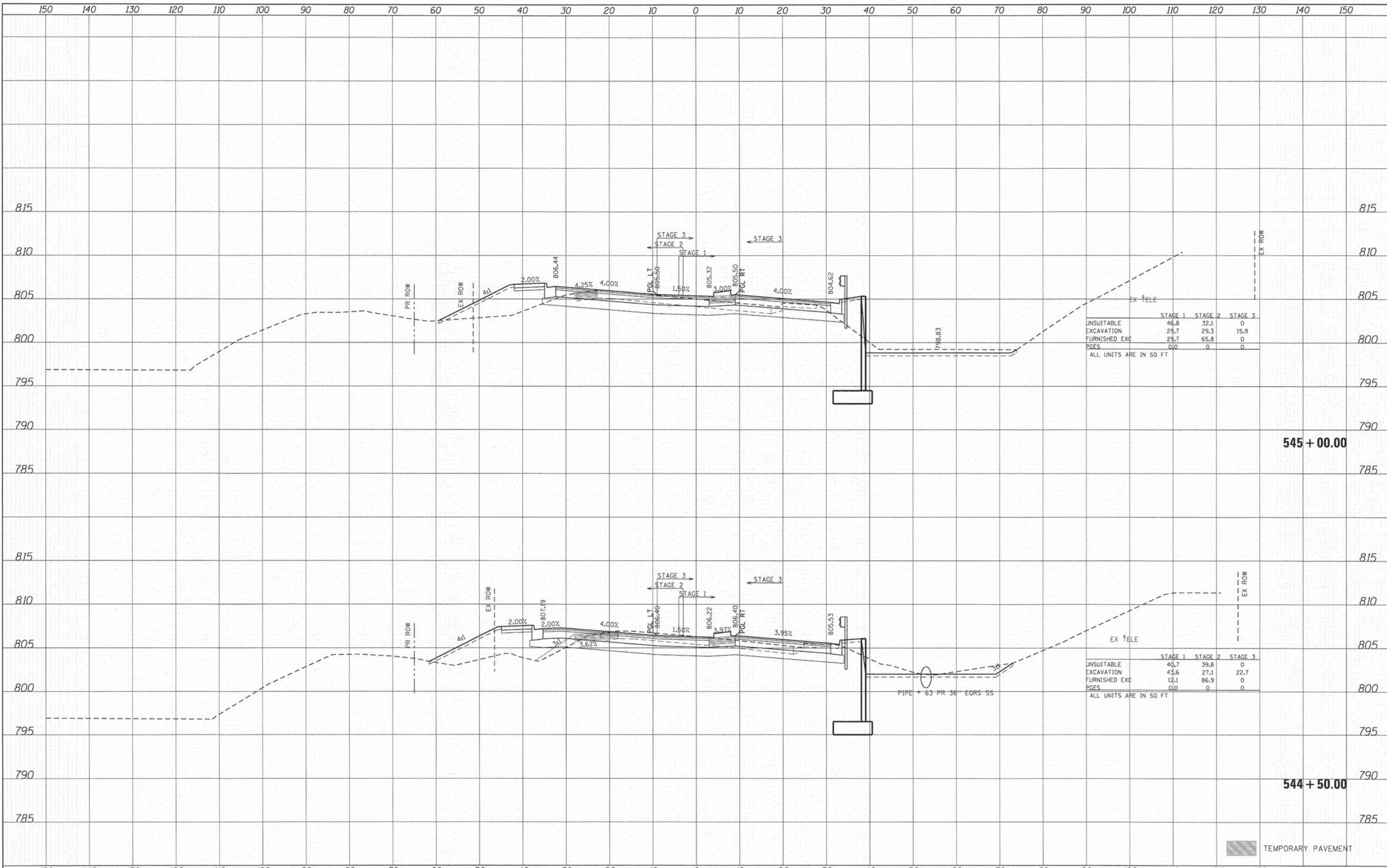
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	63.7	52.4	0
EXCAVATION	205.9	12.7	36.3
FURNISHED EXC	1.2	93.5	0
PGES	0.0	0	0

ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT

FINAL	DATE
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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	46.8	32.1	0
EXCAVATION	29.7	29.3	15.9
FURNISHED EXC	29.7	65.8	0
PGES	0.0	0	0

ALL UNITS ARE IN SQ FT

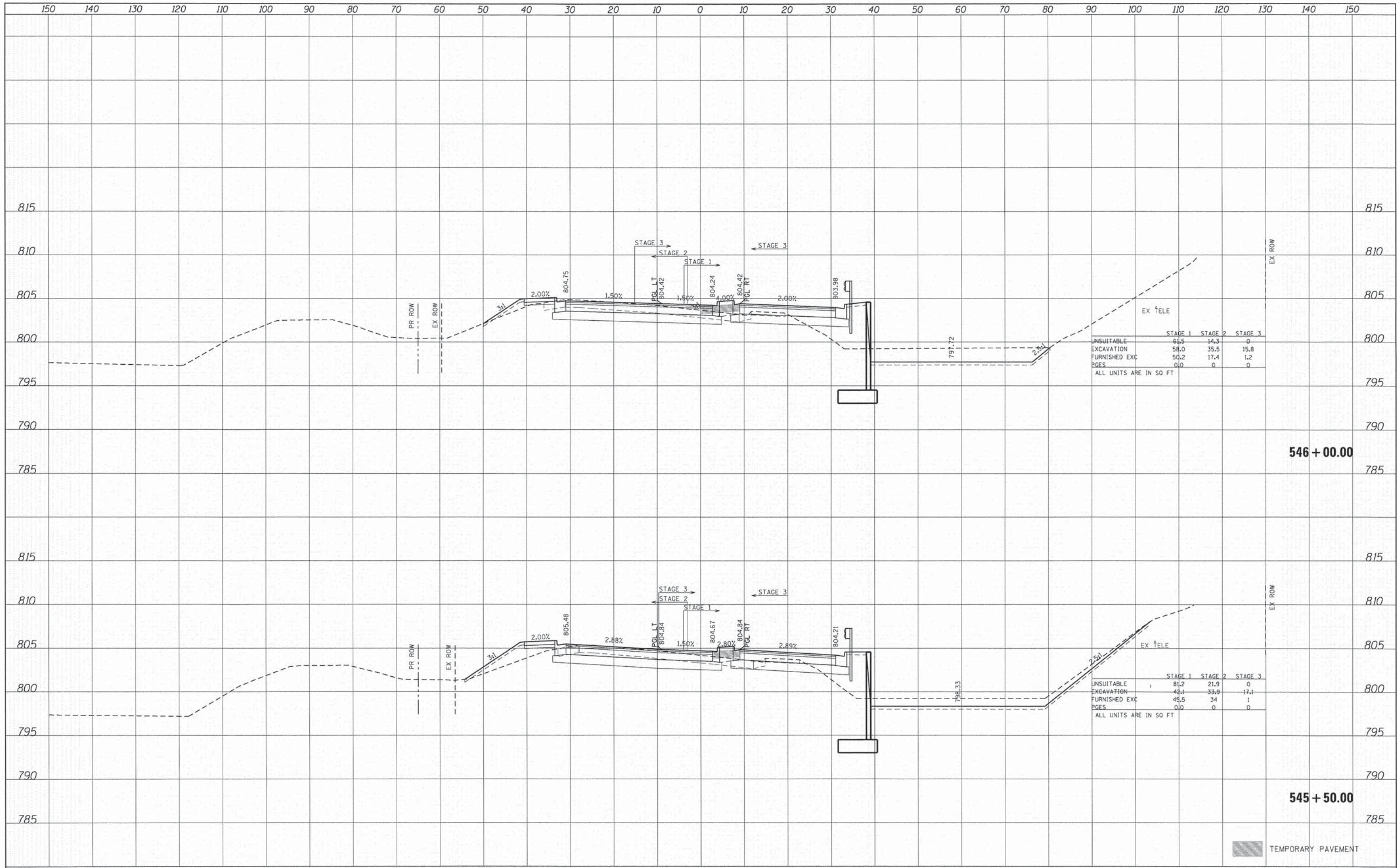
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	40.7	39.8	0
EXCAVATION	43.6	27.1	22.7
FURNISHED EXC	12.1	86.9	0
PGES	0.0	0	0

ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT

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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	64.6	14.3	0
EXCAVATION	58.0	35.5	15.8
FURNISHED EXC	50.2	17.4	1.2
PAGES	0.0	0	0

ALL UNITS ARE IN SQ FT

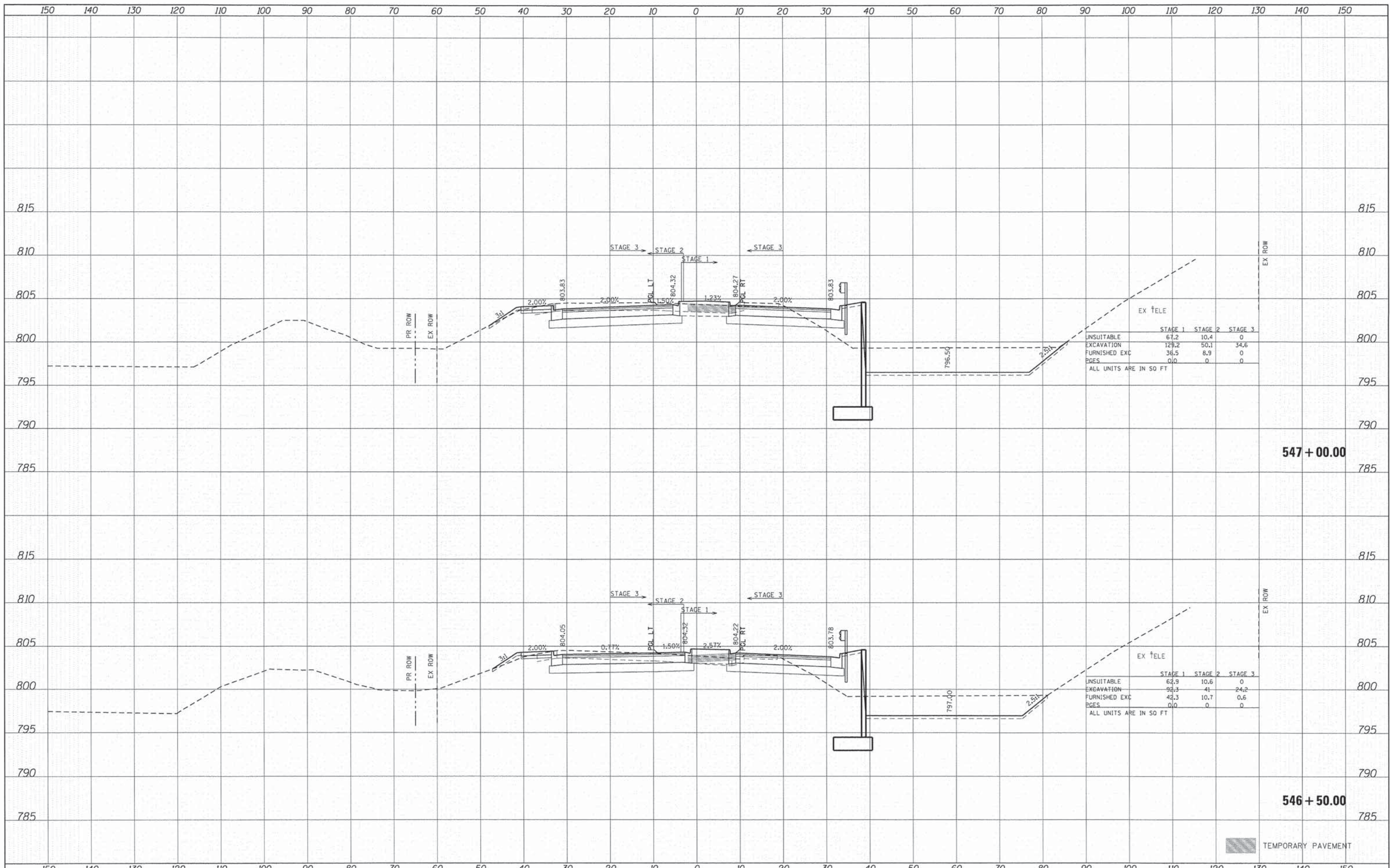
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	81.2	21.9	0
EXCAVATION	42.1	33.9	17.1
FURNISHED EXC	45.5	34	1
PAGES	0.0	0	0

ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT

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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	67.2	10.4	0
EXCAVATION	129.2	50.1	34.6
FURNISHED EXC	36.5	8.9	0
PGES	0.0	0	0

ALL UNITS ARE IN SO FT

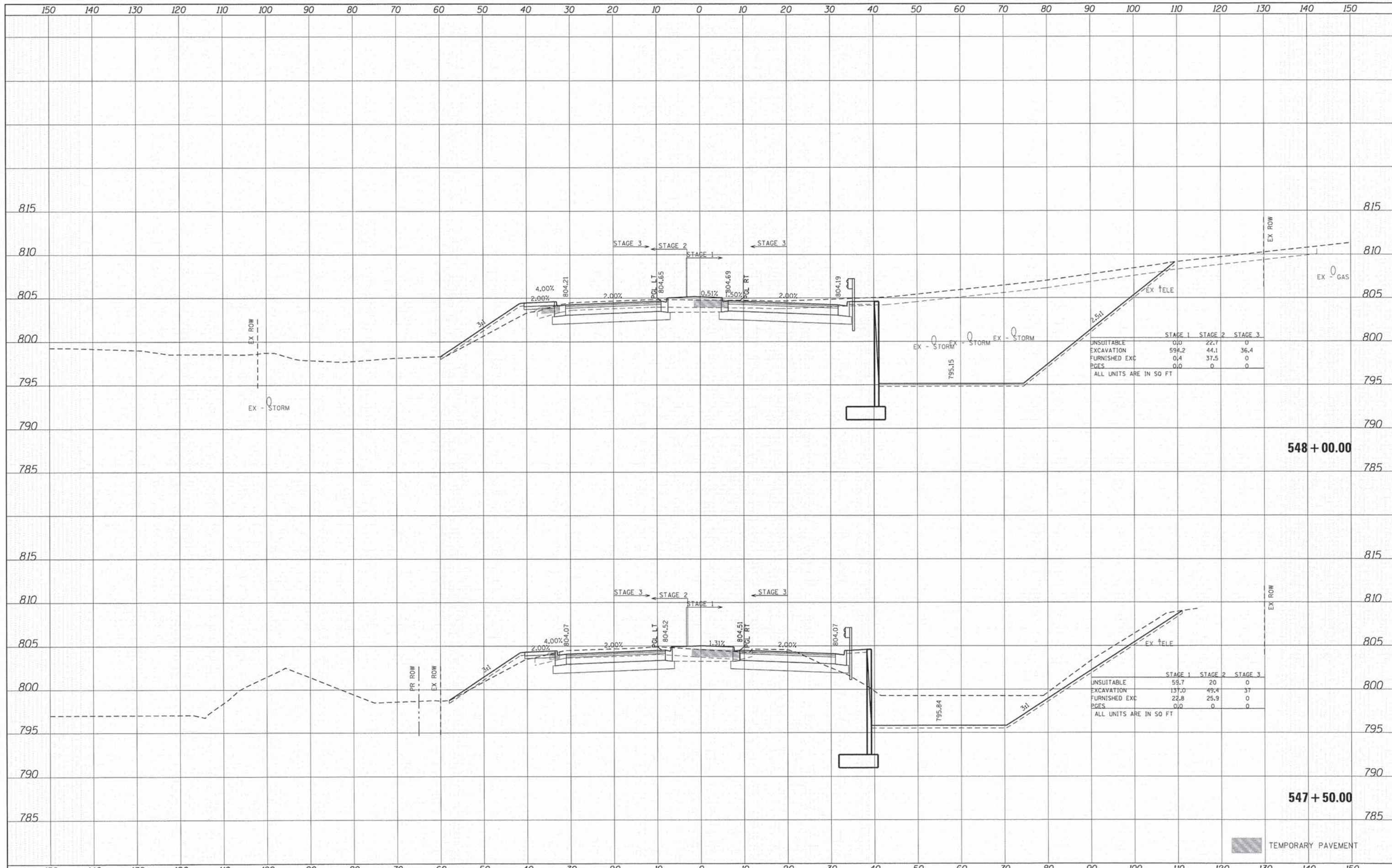
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	62.9	10.6	0
EXCAVATION	92.3	41	24.2
FURNISHED EXC	42.3	10.7	0.6
PGES	0.0	0	0

ALL UNITS ARE IN SO FT

TEMPORARY PAVEMENT

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TEMPORARY PAVEMENT



USER NAME = tyelton	DESIGNED - CMH	REVISED -
	DRAWN - SVJ	REVISED -
	CHECKED - JLP	REVISED -
	DATE - 11/12/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
CHARLES J. MILLER ROAD

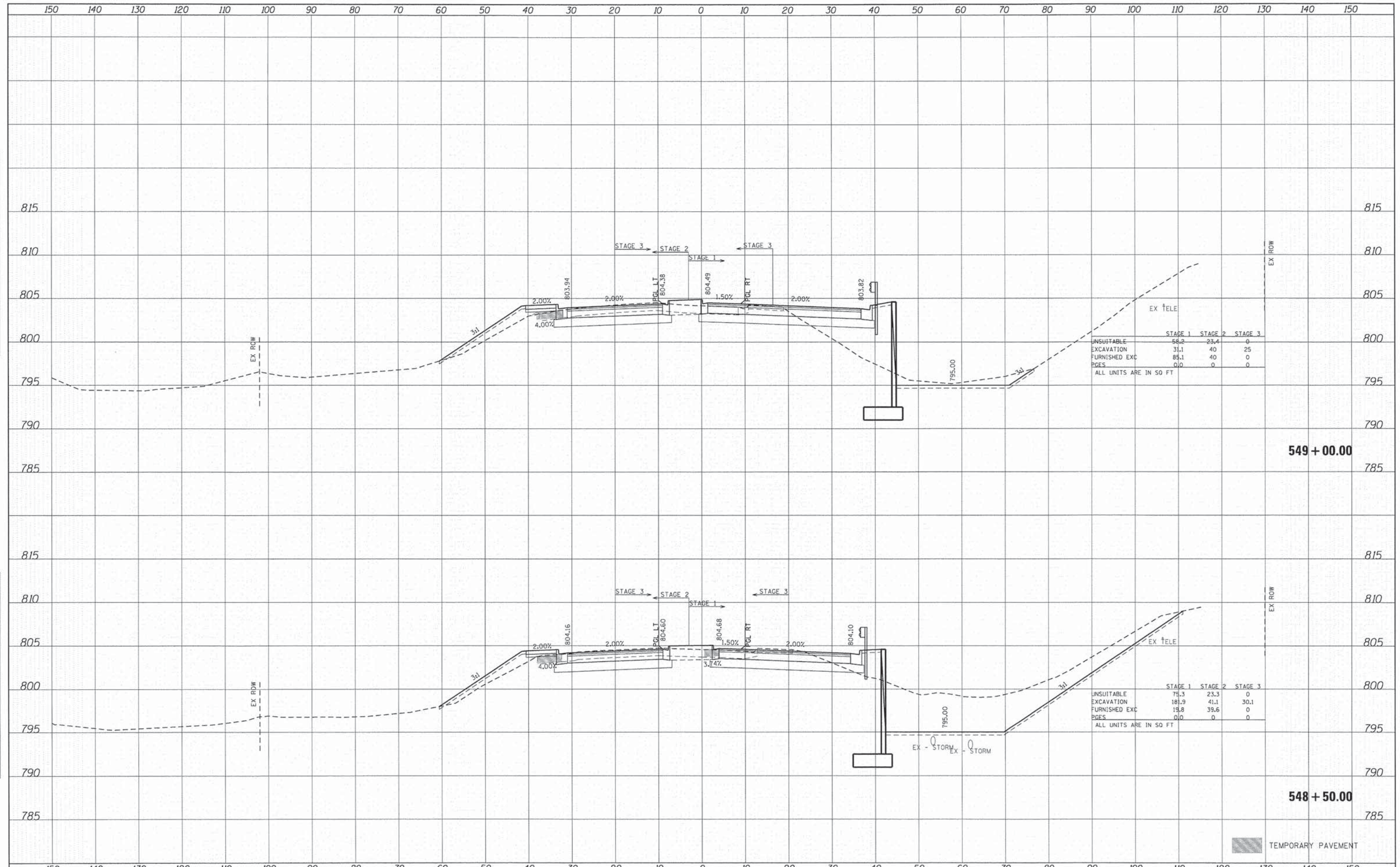
SCALE: 1" = 10' SHEET NO. 42 OF 71 SHEETS STA. 547+50.00 TO STA. 548+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3860	09-00372-01-PW	MCHENRY	358	277
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 63892	

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TEMPLATE	
NOTE BOOK	
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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	58.2	23.4	0
EXCAVATION	31.1	40	25
FURNISHED EXC	85.1	40	0
PGES	0.0	0	0

ALL UNITS ARE IN SQ FT

	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	75.3	23.3	0
EXCAVATION	181.9	41.1	30.1
FURNISHED EXC	19.8	39.6	0
PGES	0.0	0	0

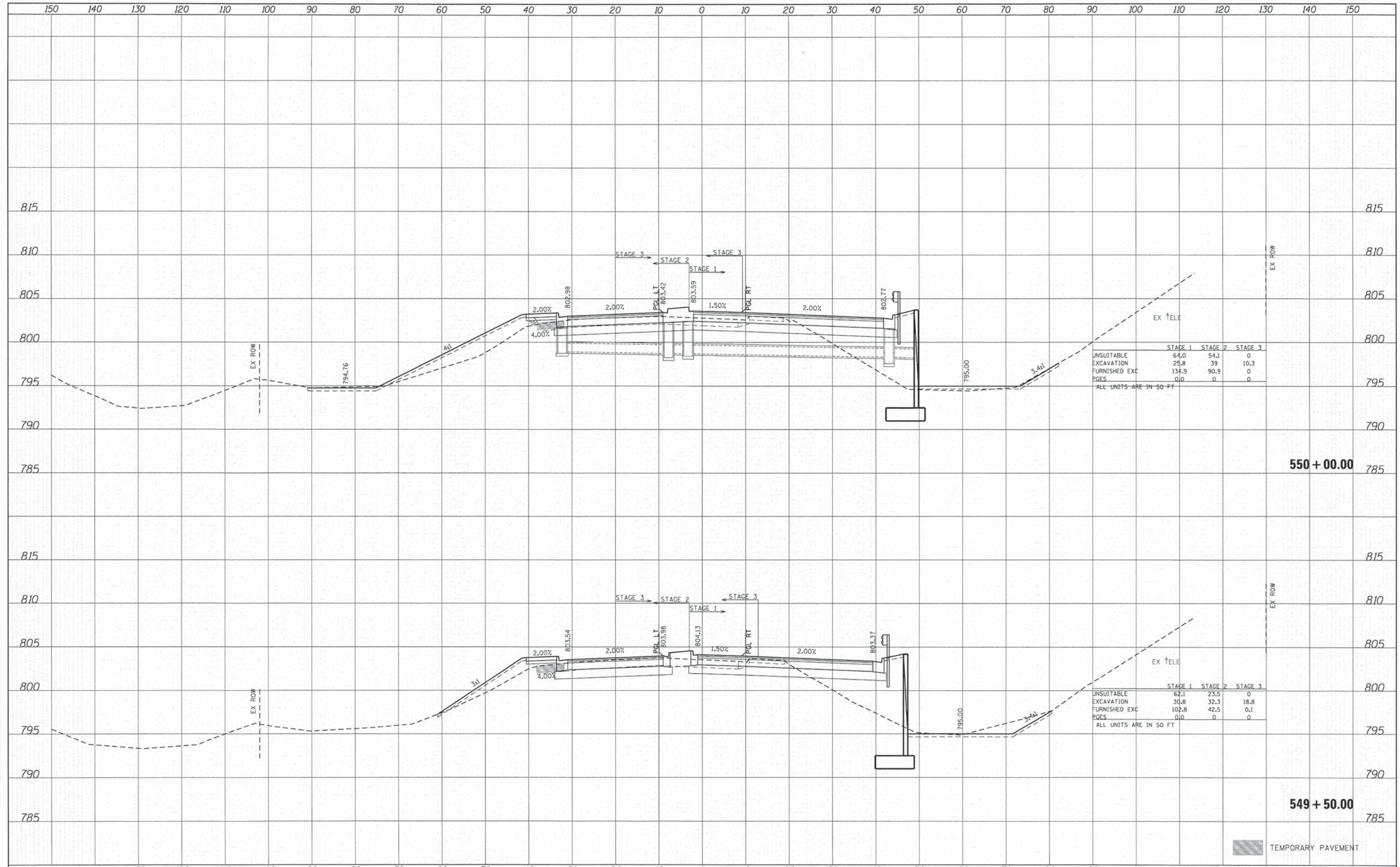
ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT

09071-SCS-PHILLIPS MCHENRY

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AREAS CHECKED	
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NOTE BOOK	
AREAS CHECKED	
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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	64.0	54.1	0
EXCAVATION	25.8	39	10.3
FURNISHED EXC	134.9	90.9	0
PGES	0.0	0	0

ALL UNITS ARE IN SQ FT

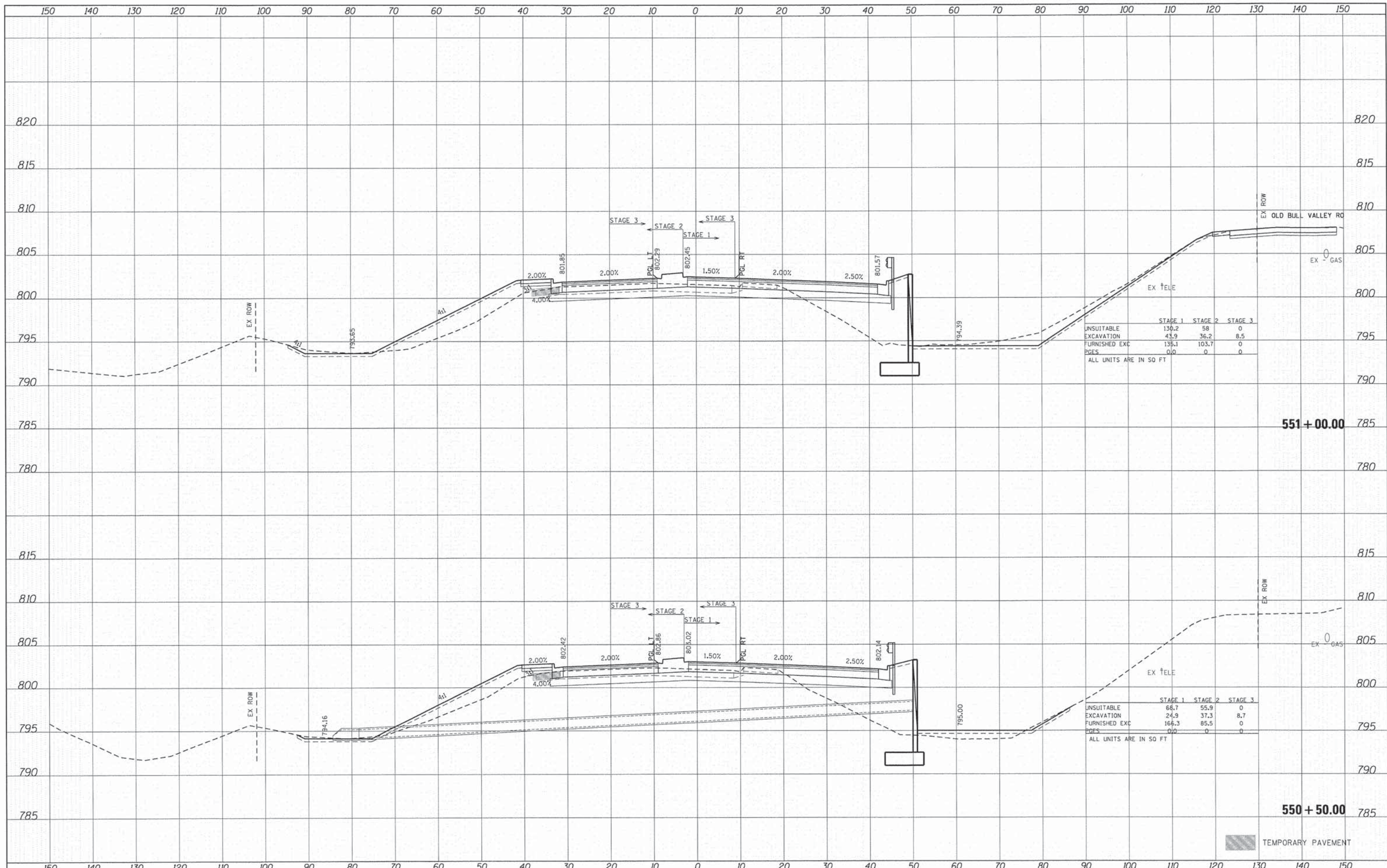
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UNSUITABLE	62.1	23.5	0
EXCAVATION	30.8	32.3	18.8
FURNISHED EXC	102.8	42.5	0.1
PGES	0.0	0	0

ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT

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ORIGINAL SURVEY	
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TEMPLATE	
AREAS CHECKED	
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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	130.2	58	0
EXCAVATION	43.9	36.2	8.5
FURNISHED EXC	135.1	103.7	0
PGES	0.0	0	0

ALL UNITS ARE IN SQ FT

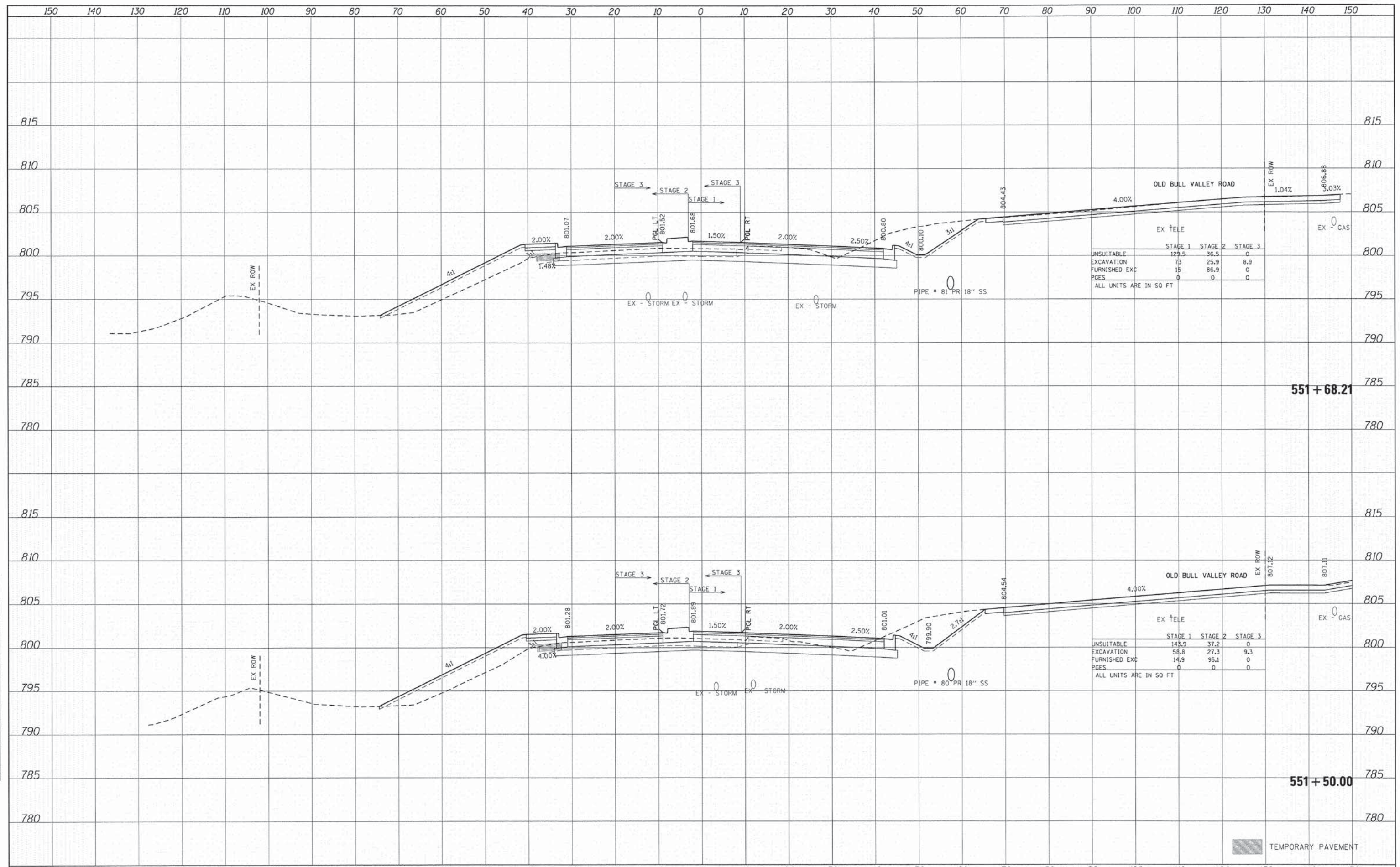
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	66.7	55.9	0
EXCAVATION	24.9	37.3	8.7
FURNISHED EXC	166.3	85.5	0
PGES	0.0	0	0

ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT

DATE
BY
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TEMPLATE
NOTE BOOK
AREAS CHECKED

DATE
BY
SUPERVISED
PLOTTED
TEMPLATE
NOTE BOOK
AREAS CHECKED



	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	129.5	36.5	0
EXCAVATION	73	25.9	8.9
FURNISHED EXC	15	86.9	0
PAGES	0	0	0

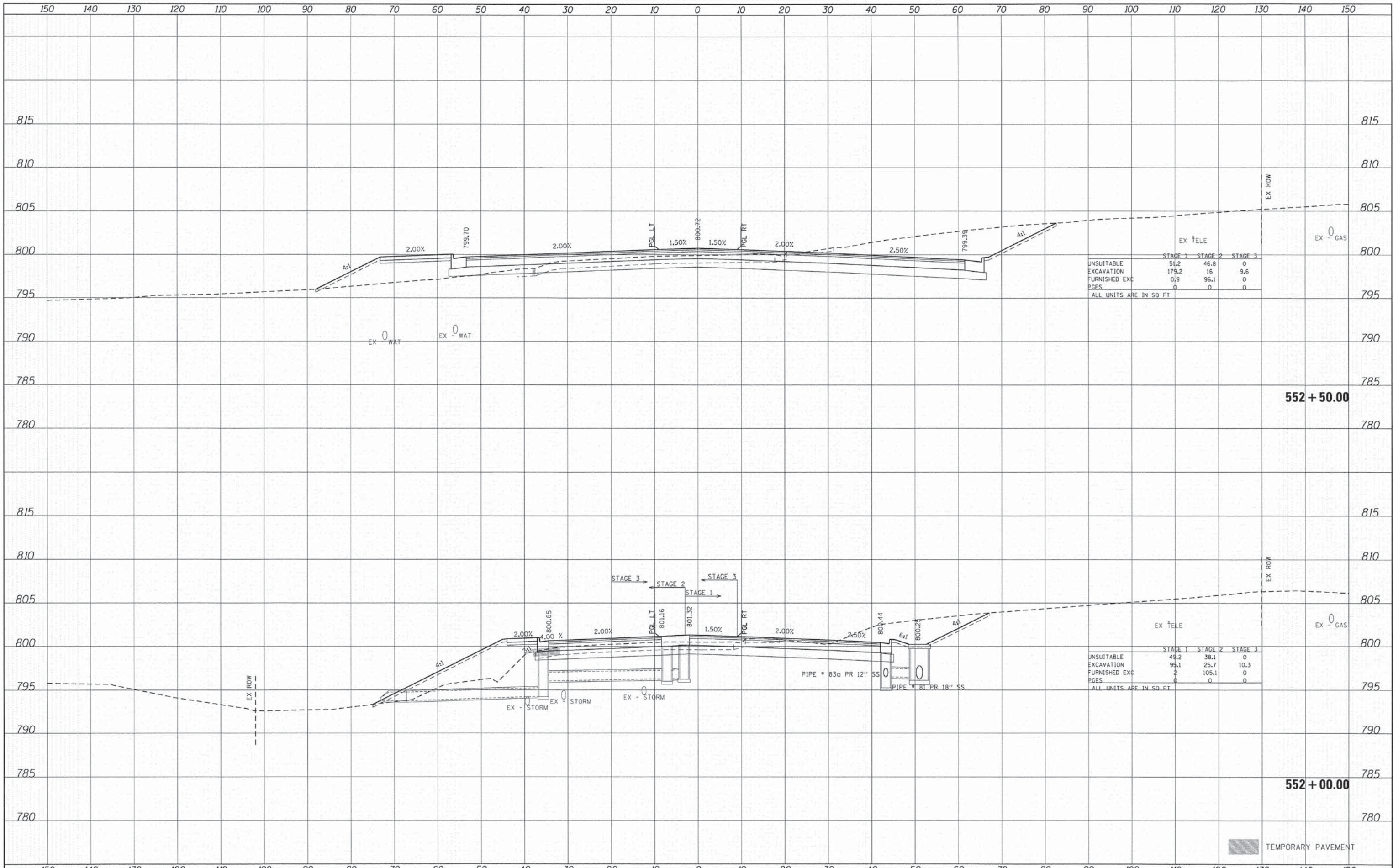
ALL UNITS ARE IN 50 FT

	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	143.9	37.2	0
EXCAVATION	58.8	27.3	9.3
FURNISHED EXC	14.9	95.1	0
PAGES	0	0	0

ALL UNITS ARE IN 50 FT

DATE	
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PLANNED	
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AREAS	
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NOTE BOOK	
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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	51.2	46.8	0
EXCAVATION	179.2	16	9.6
FURNISHED EXC	0.9	96.1	0
PAGES	0	0	0

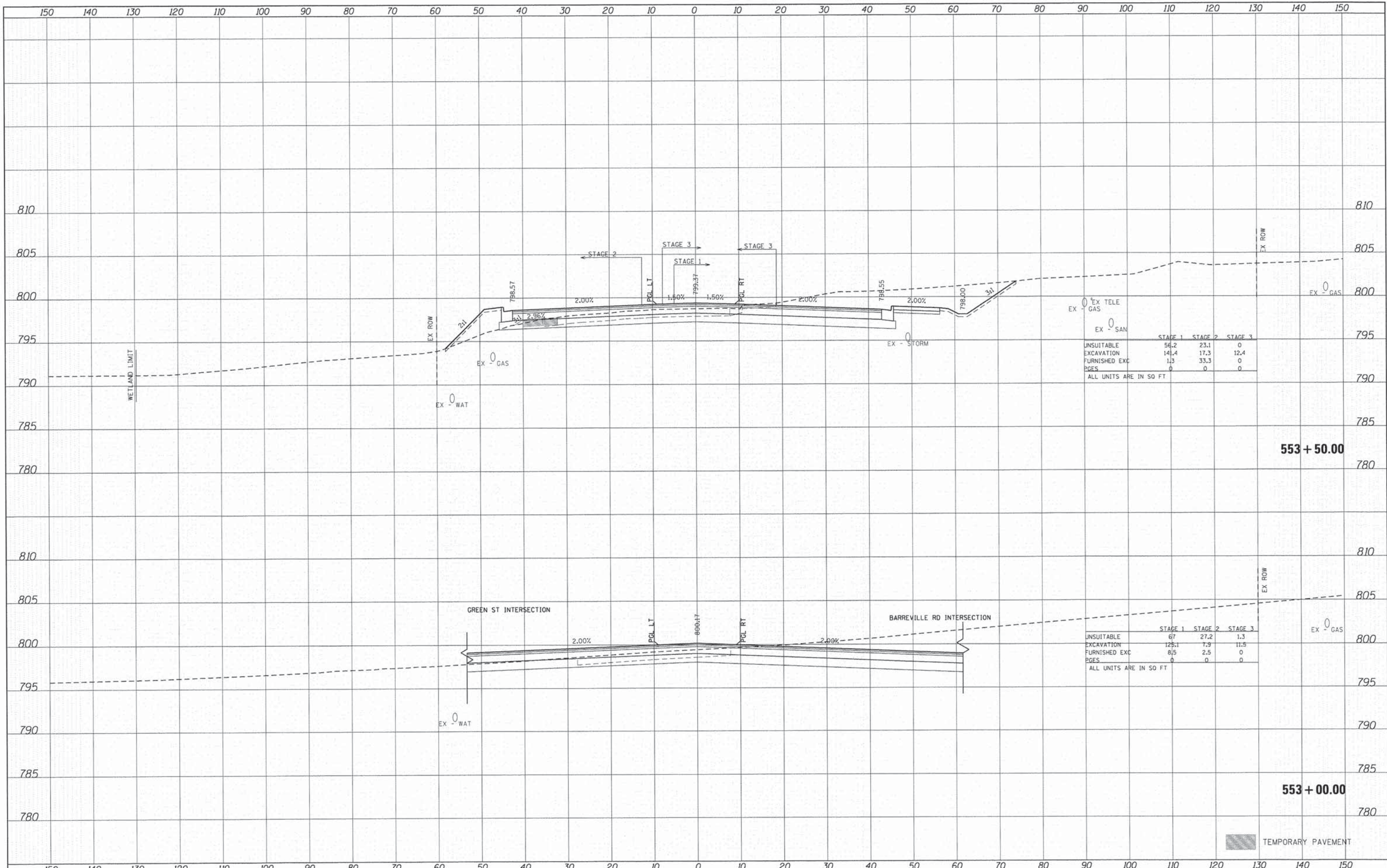
ALL UNITS ARE IN SQ. FT.

	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	49.2	38.1	0
EXCAVATION	95.1	25.7	10.3
FURNISHED EXC	2	105.1	0
PAGES	0	0	0

ALL UNITS ARE IN SQ. FT.

DATE	
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TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	56.2	23.1	0
EXCAVATION	14.4	17.3	12.4
FURNISHED EXC	1.3	33.3	0
PGES	0	0	0

ALL UNITS ARE IN SQ FT

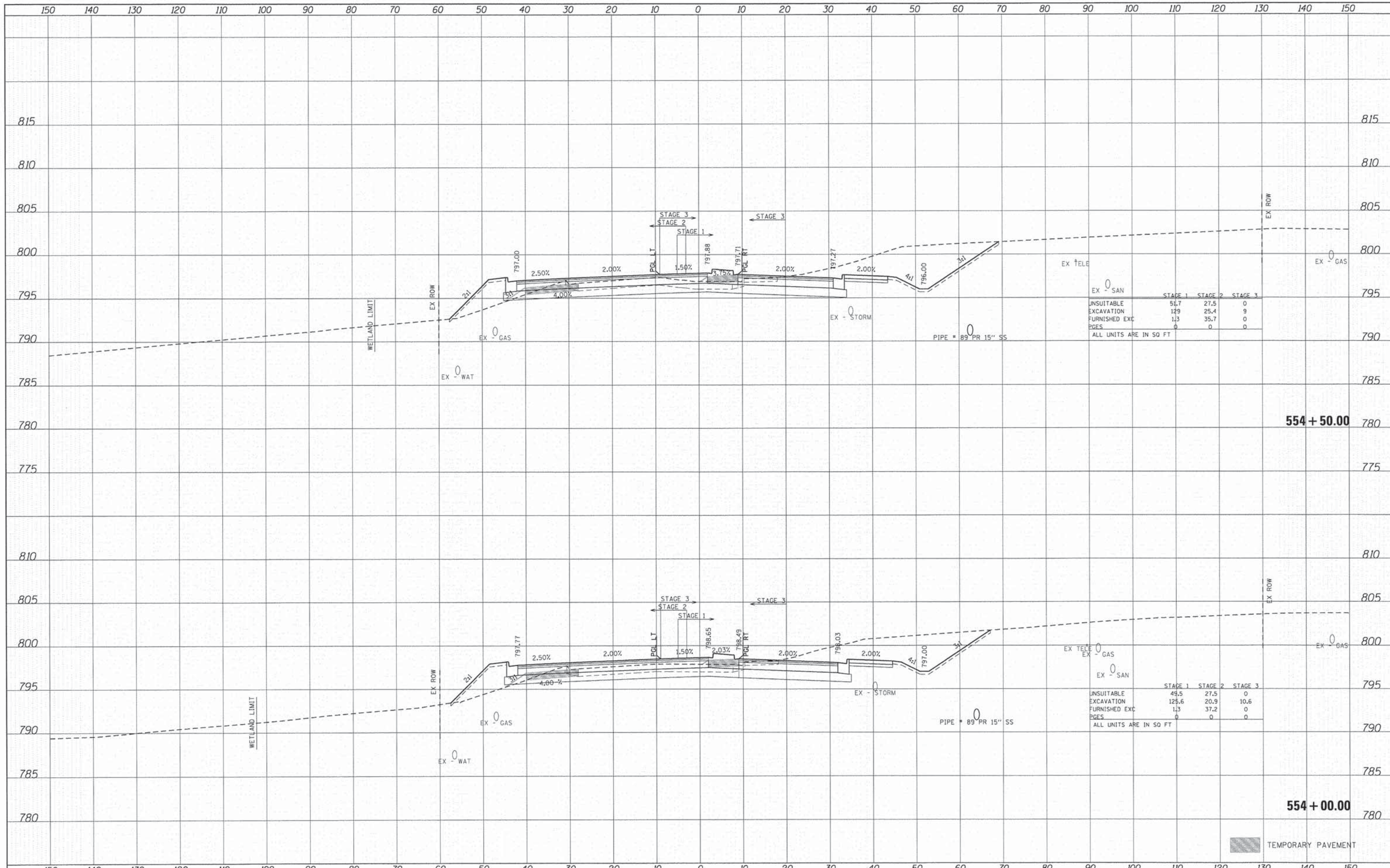
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	67	27.2	1.3
EXCAVATION	125.1	7.9	11.5
FURNISHED EXC	8.5	2.5	0
PGES	0	0	0

ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT

DATE	
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AREAS CHECKED	
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NOTE BOOK	
AREAS CHECKED	
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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE EXCAVATION	51.7	27.5	0
FURNISHED EXC	129	25.4	9
PAGES	13	35.7	0
ALL UNITS ARE IN SQ FT	0	0	0

	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE EXCAVATION	49.5	27.5	0
FURNISHED EXC	125.6	20.9	10.6
PAGES	13	37.2	0
ALL UNITS ARE IN SQ FT	0	0	0



USER NAME = tyelton
 DESIGNED - CMH
 DRAWN - SVJ
 CHECKED - JLP
 DATE - 11/12/14

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
 CHARLES J. MILLER ROAD

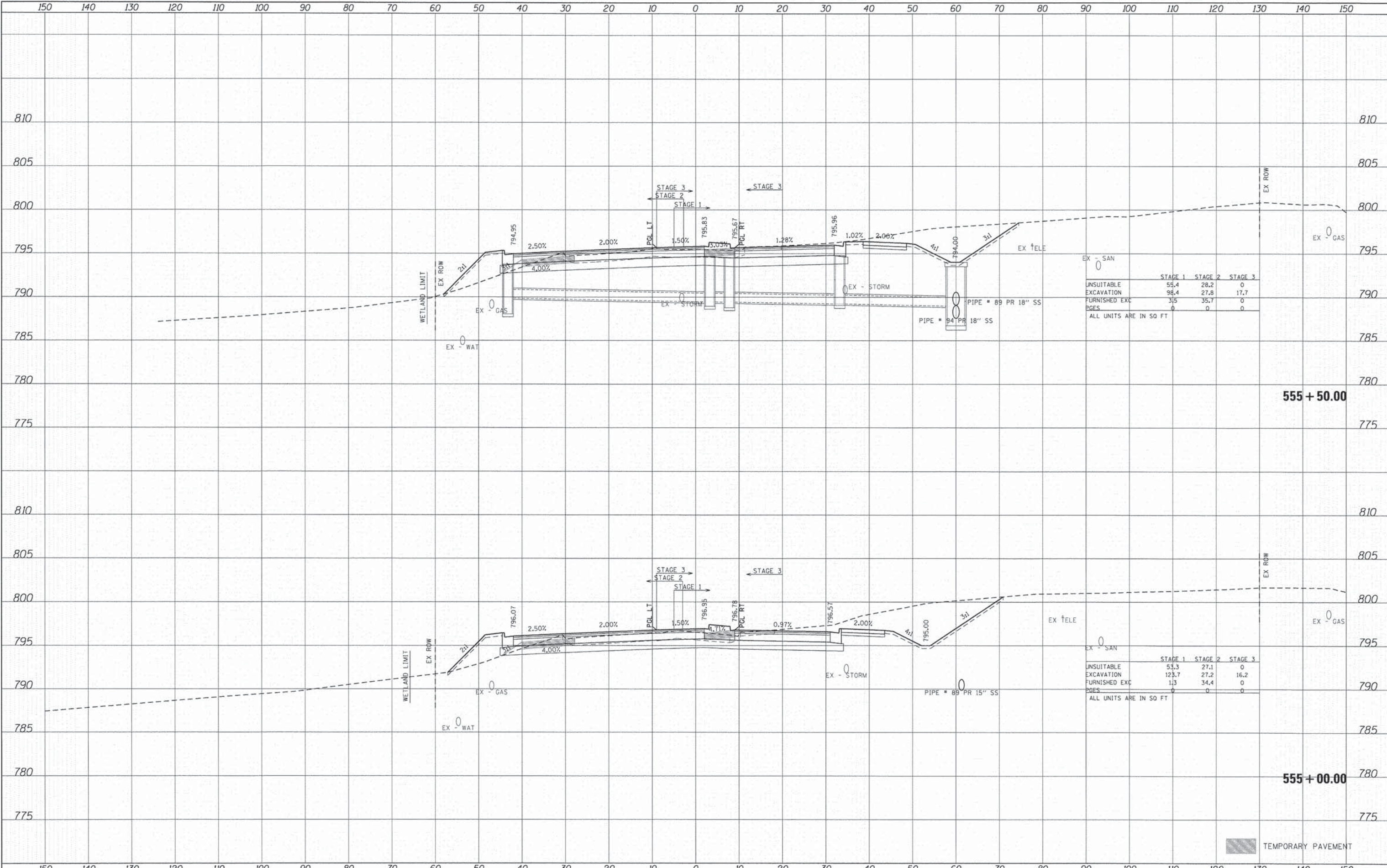
SCALE: 1" = 10'
 SHEET NO. 49 OF 71 SHEETS
 STA. 554+00.00 TO STA. 554+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3860	09-00372-01-PW	MCHENRY	358	284
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

TEMPORARY PAVEMENT

DATE	
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REVIEWED	
APPROVED	
NO.	

DATE	
BY	
REVIEWED	
APPROVED	
NO.	



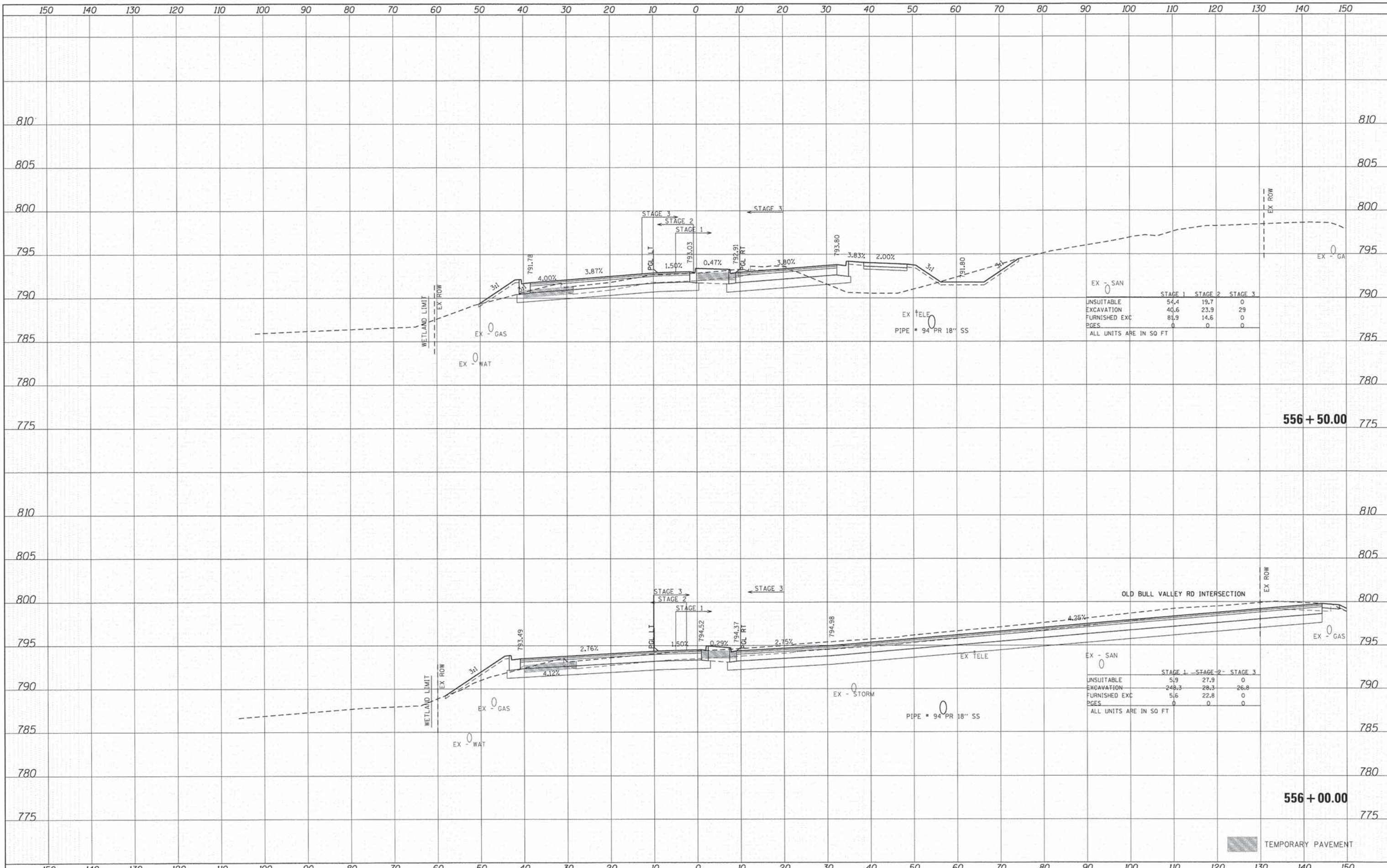
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE EXCAVATION	55.4	28.2	0
FURNISHED EXC DIGES	31.5	35.7	0
ALL UNITS ARE IN SQ FT	0	0	0

	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE EXCAVATION	53.3	27.1	0
FURNISHED EXC DIGES	123.7	27.2	16.2
ALL UNITS ARE IN SQ FT	1.3	34.4	0

TEMPORARY PAVEMENT

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NOTE BOOK	
AREAS CHECKED	
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PLOTTED	
REVISIONS	
NOTE BOOK	
AREAS CHECKED	
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EX - SAN	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	54.4	19.7	0
EXCAVATION	40.6	23.9	29
FURNISHED EXC	81.9	14.6	0
PGES	0	0	0
ALL UNITS ARE IN SQ FT			

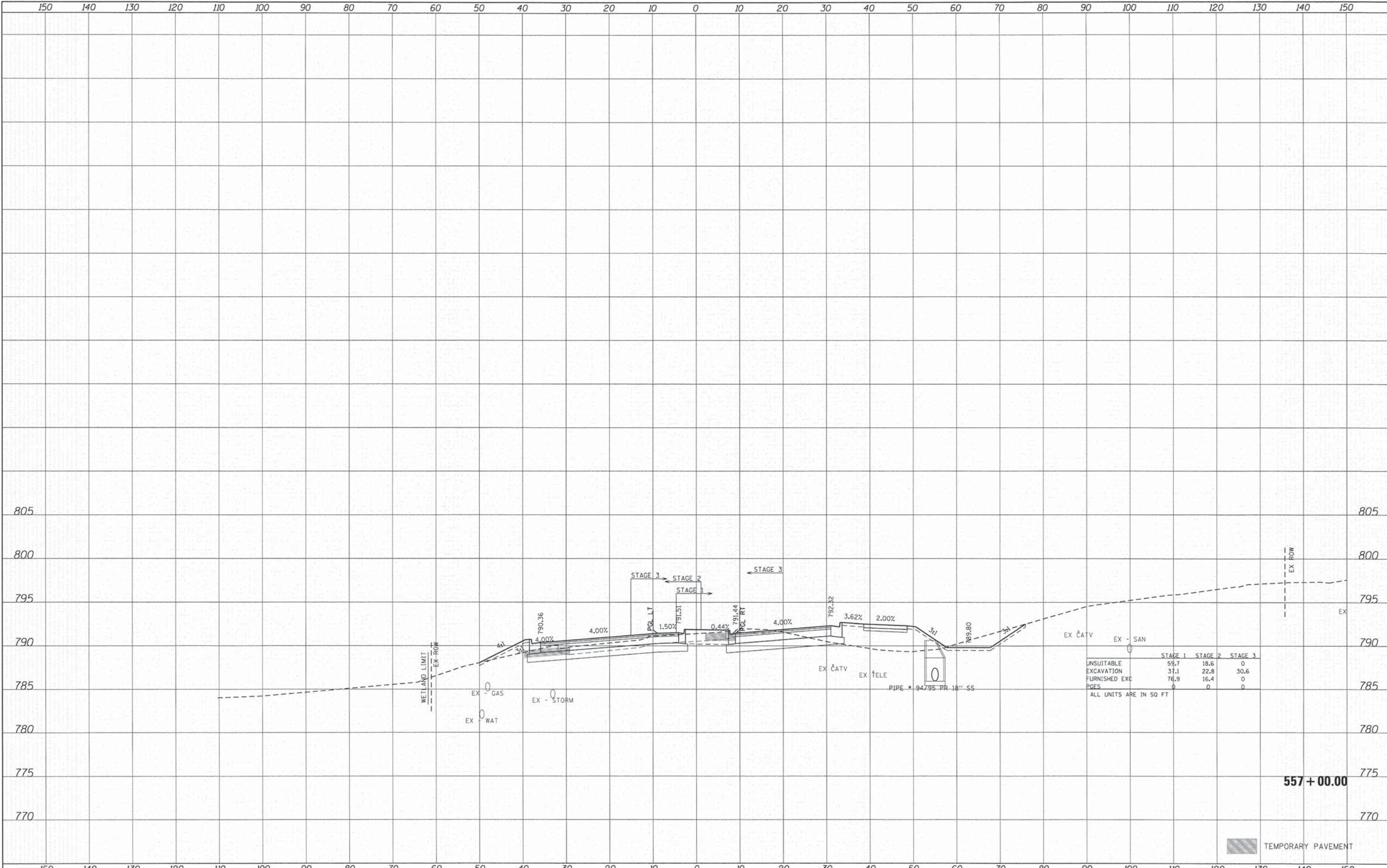
EX - SAN	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	5.9	27.9	0
EXCAVATION	248.3	28.3	26.8
FURNISHED EXC	5.6	22.8	0
PGES	0	0	0
ALL UNITS ARE IN SQ FT			

TEMPORARY PAVEMENT

	USER NAME = tyeilton	DESIGNED - CMH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED CROSS SECTIONS CHARLES J. MILLER ROAD	F.A.U. RTE. 3860 SECTION 09-00372-01-PW COUNTY MCHENRY TOTAL SHEETS 358 SHEET NO. 286 CONTRACT NO. 63892
	PLOT SCALE = 1" = 10' PLOT DATE = 11/11/2014	DRAWN - SVJ CHECKED - JLP DATE - 11/12/14	REVISED - REVISED - REVISED - REVISED -			

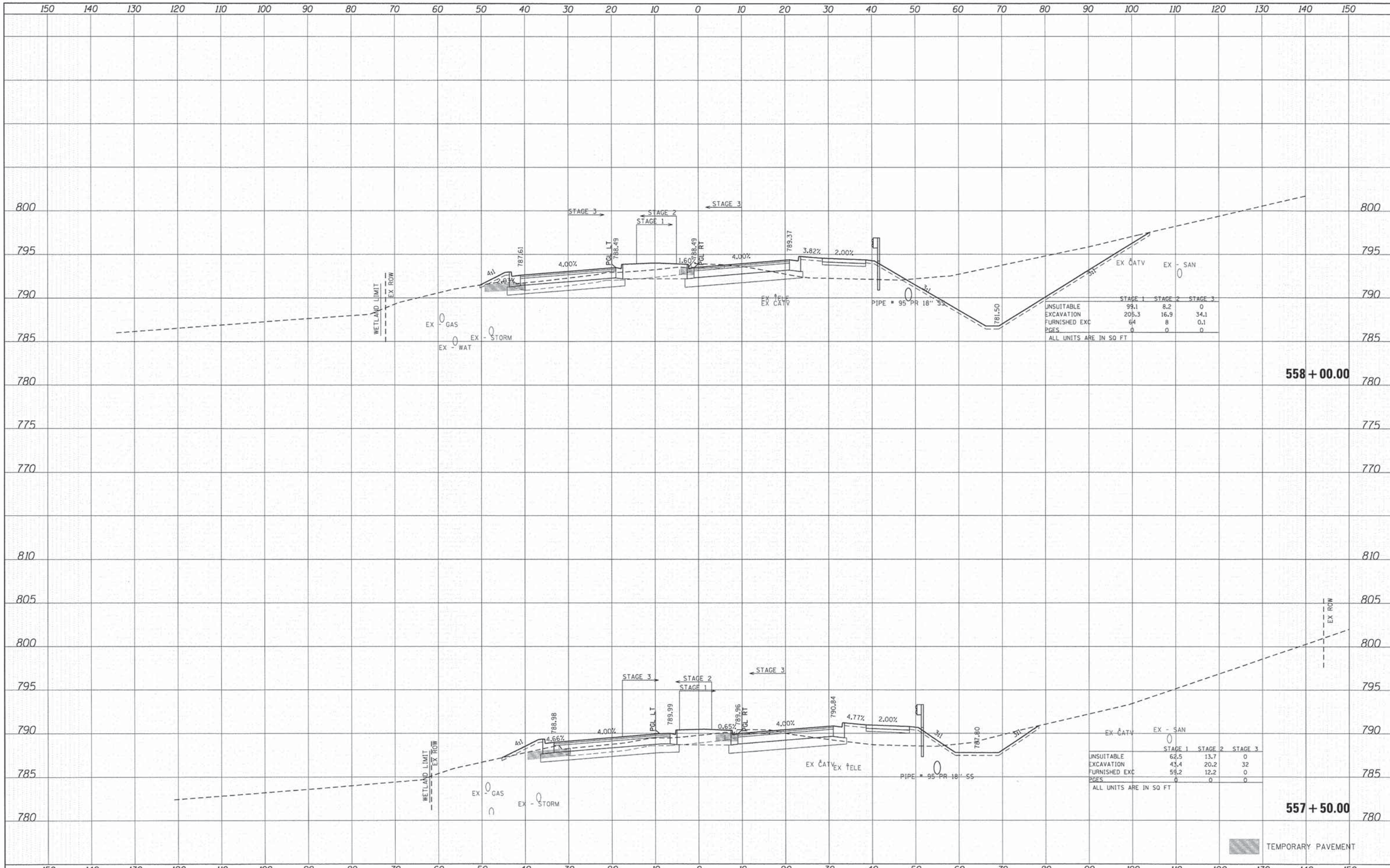
DATE	
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SURVEYED	
TEMPLATE	
AREAS CHECKED	
FINAL SURVEY NOTE BOOK NO.	

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



DATE	
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PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE EXCAVATION	99.1	8.2	0
FURNISHED EXC	205.3	16.9	34.1
PAGES	64	8	0.1
	0	0	0

ALL UNITS ARE IN SQ FT

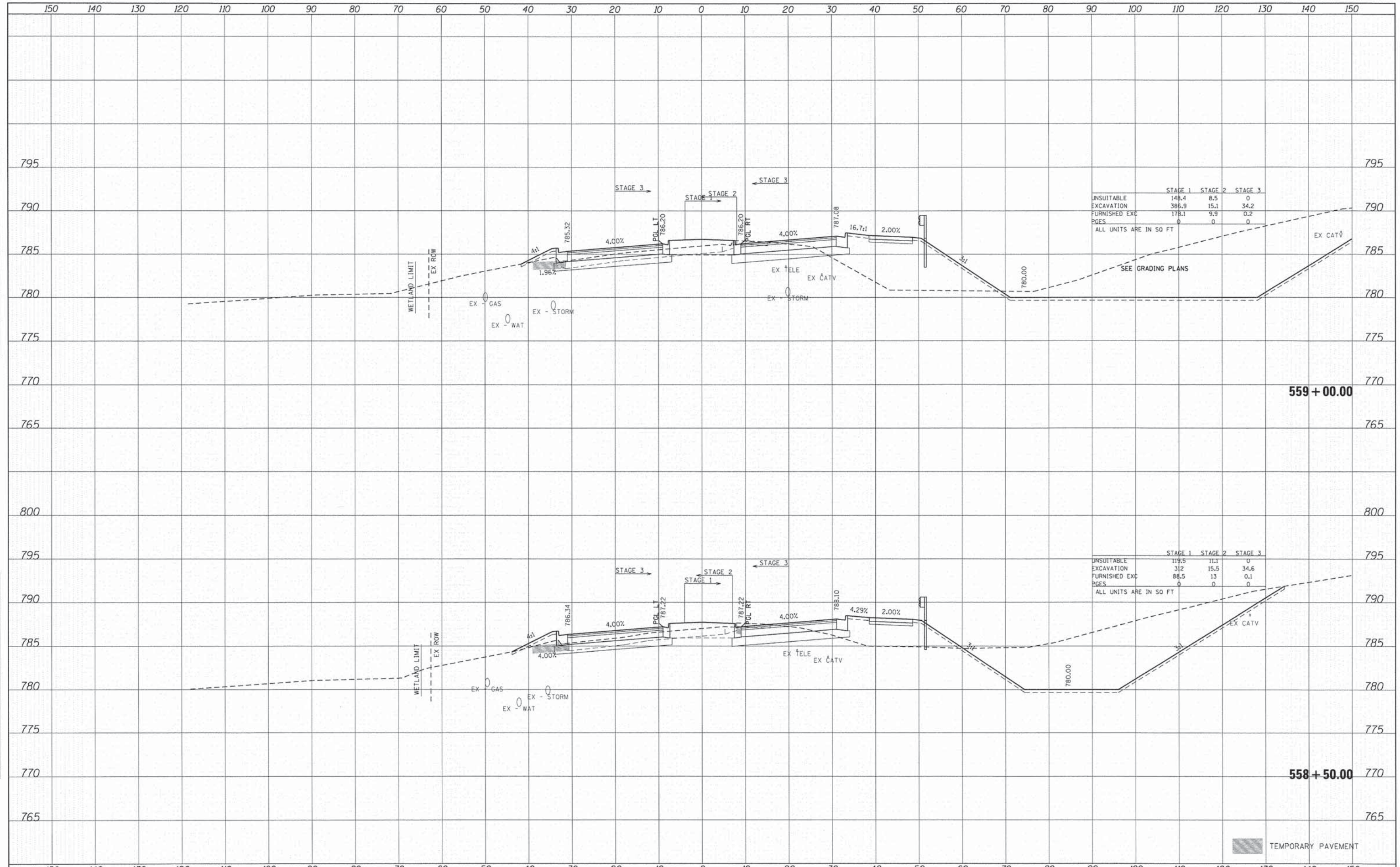
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE EXCAVATION	62.5	13.7	0
FURNISHED EXC	43.4	20.2	32
PAGES	59.2	12.2	0
	0	0	0

ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT

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

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



	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE EXCAVATION	148.4	8.5	0
FURNISHED EXC	386.9	15.1	34.2
PAGES	178.1	9.9	0.2
	0	0	0

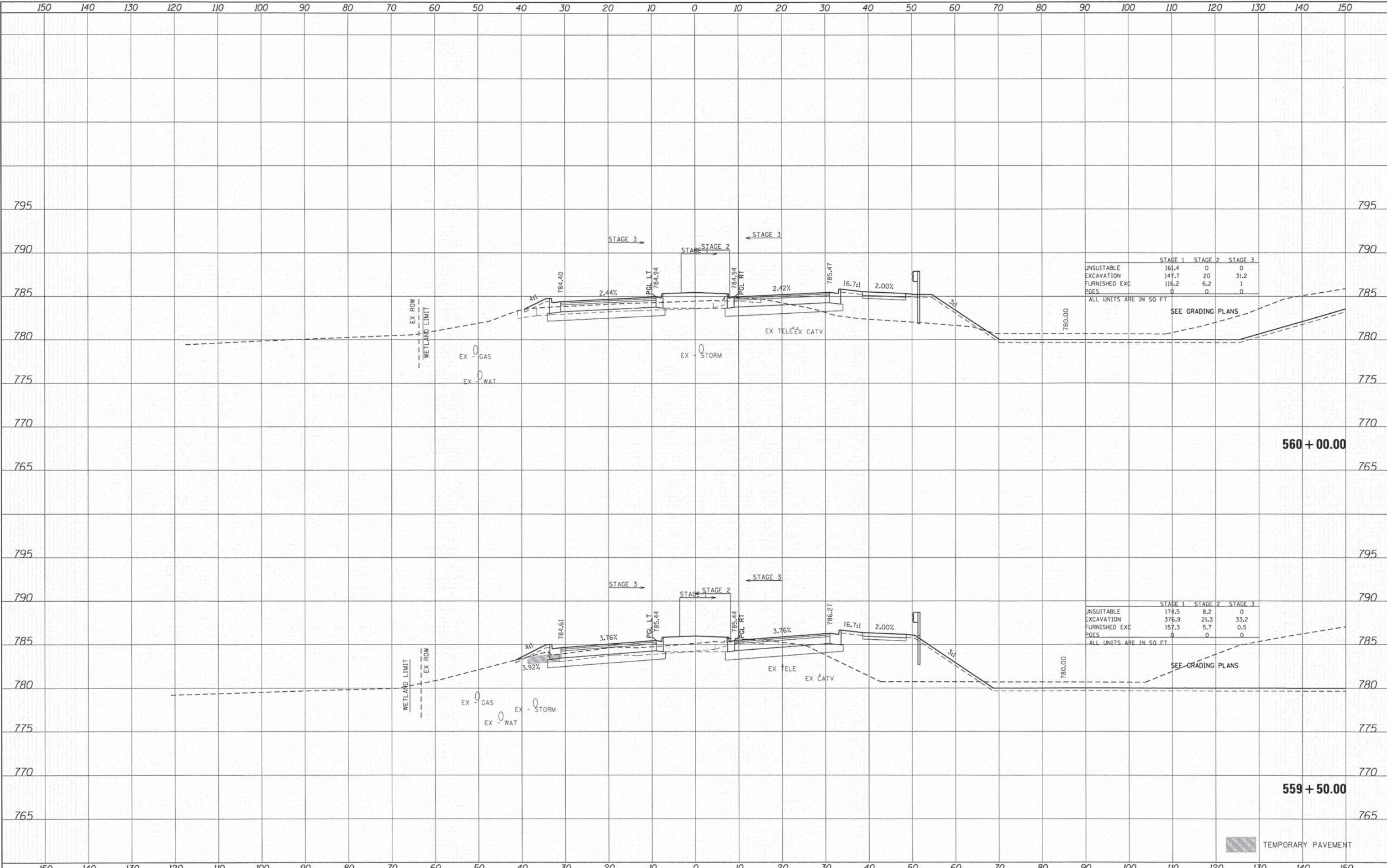
ALL UNITS ARE IN SQ FT

	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE EXCAVATION	119.5	11.1	0
FURNISHED EXC	312	15.5	34.6
PAGES	88.5	13	0.1
	0	0	0

ALL UNITS ARE IN SQ FT

DATE	
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DESIGNED	
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USER NAME	
PLLOT SCALE	
PLLOT DATE	

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	
USER NAME	
PLLOT SCALE	
PLLOT DATE	



	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	161.4	0	0
EXCAVATION	147.7	20	31.2
FURNISHED EXC	116.2	6.2	1
PGES	0	0	0

ALL UNITS ARE IN SQ. FT.
SEE GRADING PLANS

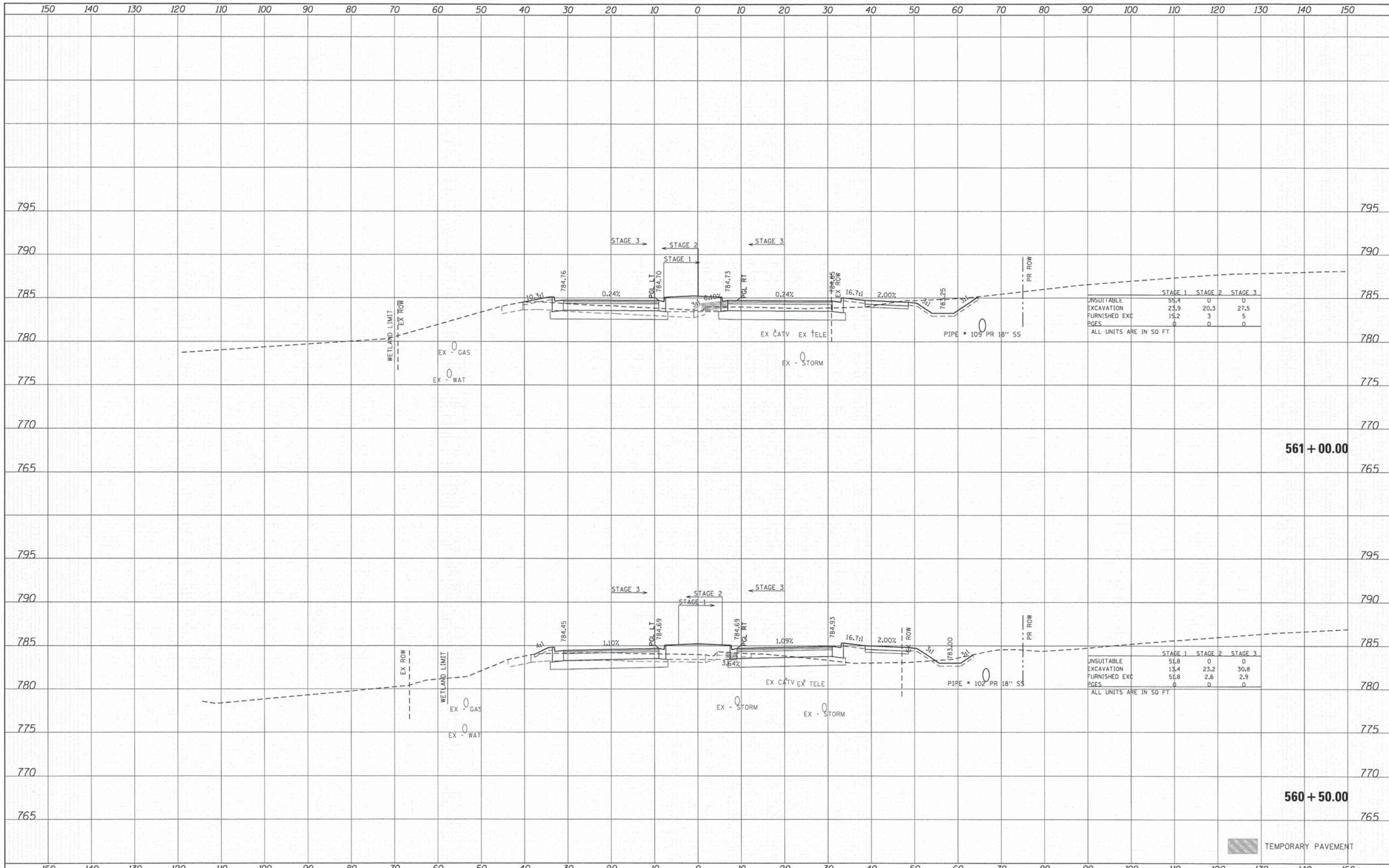
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	174.5	8.2	0
EXCAVATION	376.9	21.3	33.2
FURNISHED EXC	157.3	5.7	0.5
PGES	0	0	0

ALL UNITS ARE IN SQ. FT.
SEE GRADING PLANS

TEMPORARY PAVEMENT

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
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AREAS CHECKED	

DATE	
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ORIGINAL SURVEY	
NOTE BOOK	
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AREAS CHECKED	



	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE EXCAVATION	54.4	0	0
FURNISHED EXC	23.9	20.3	27.5
PAGES	15.2	3	5
	0	0	0

ALL UNITS ARE IN SQ FT

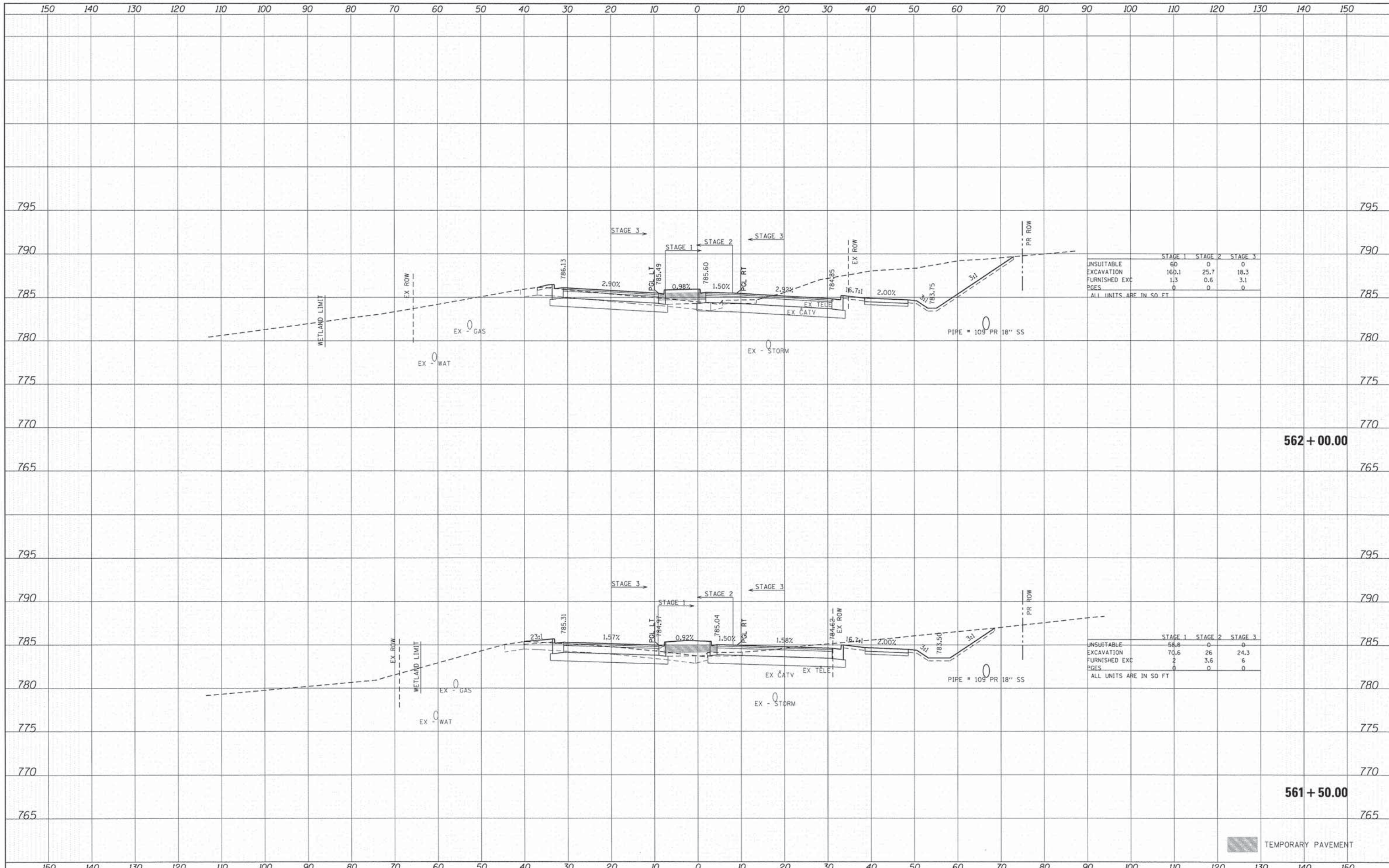
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE EXCAVATION	51.8	0	0
FURNISHED EXC	13.4	23.2	30.8
PAGES	51.8	2.6	2.9
	0	0	0

ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT

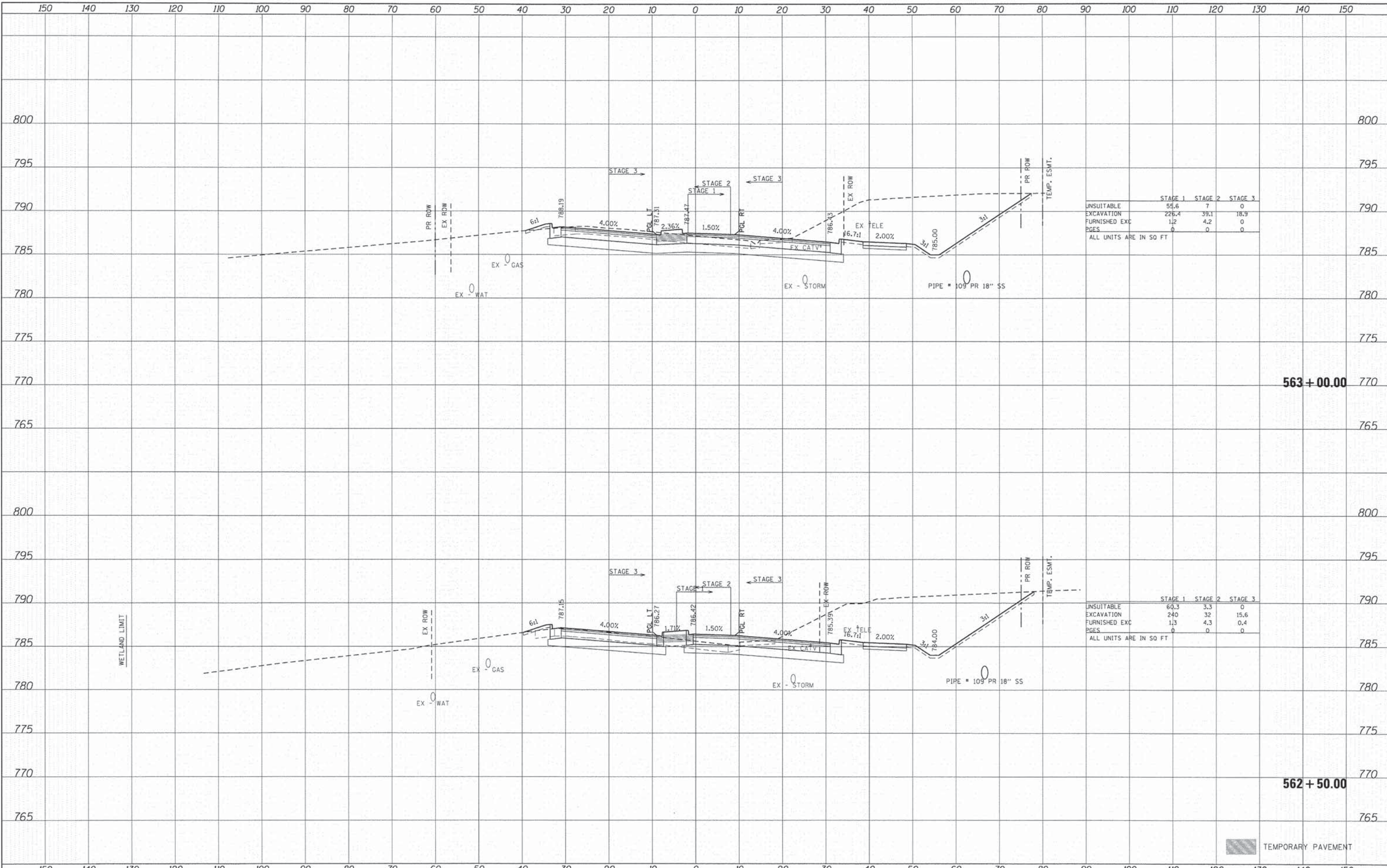
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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	55.6	7	0
EXCAVATION	225.4	39.1	18.9
FURNISHED EXC	1.2	4.2	0
PGES	0	0	0

ALL UNITS ARE IN SQ FT

	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	60.3	3.3	0
EXCAVATION	240	32	15.6
FURNISHED EXC	1.3	4.3	0.4
PGES	0	0	0

ALL UNITS ARE IN SQ FT

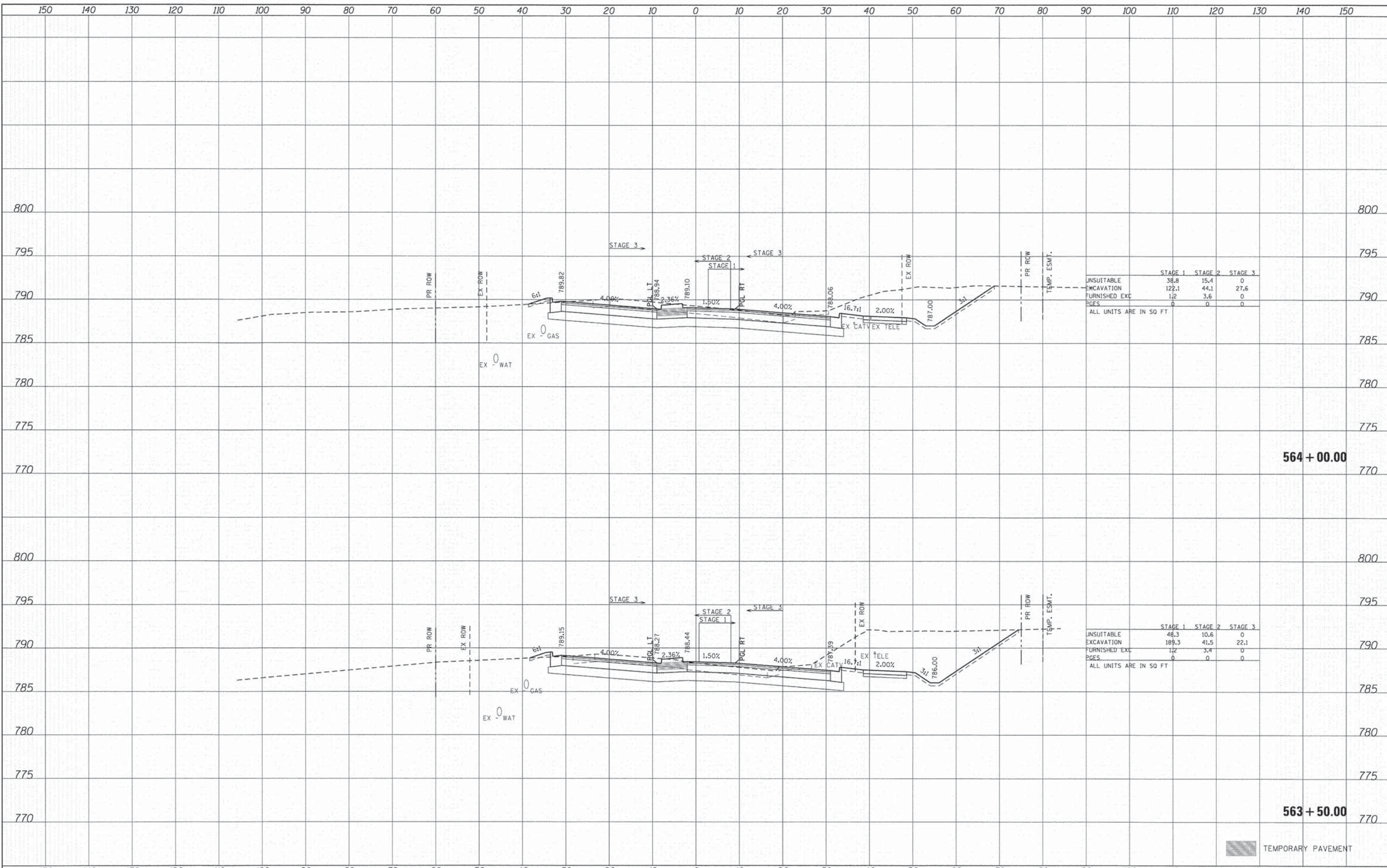
563 + 00.00

562 + 50.00

TEMPORARY PAVEMENT

DATE	
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PLANNED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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PLANNED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	38.8	15.4	0
EXCAVATION	122.1	44.1	27.6
FURNISHED EXC	1.2	3.6	0
PAGES	0	0	0

ALL UNITS ARE IN SQ FT

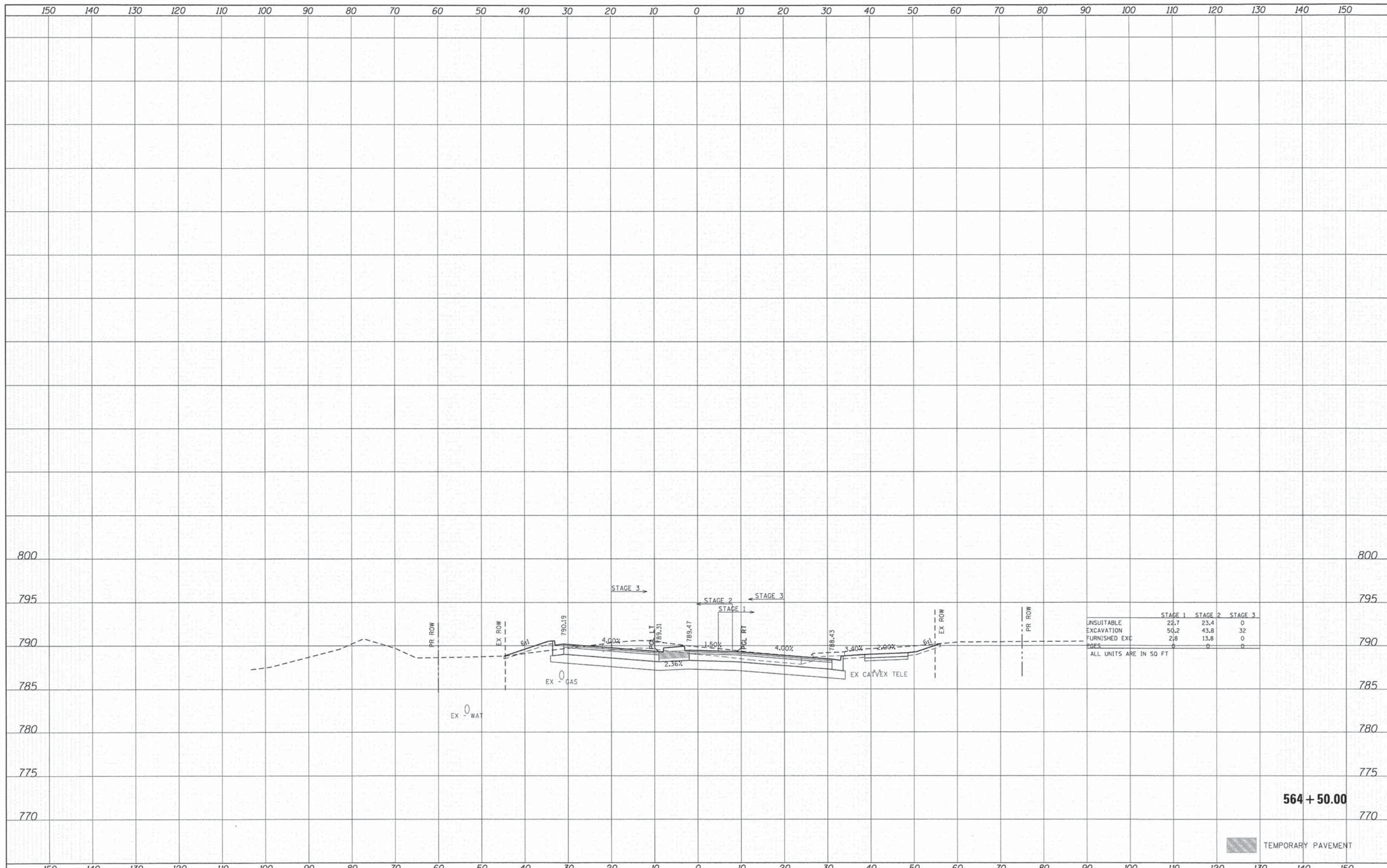
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	48.3	10.6	0
EXCAVATION	189.3	41.5	22.1
FURNISHED EXC	1.2	3.4	0
PAGES	0	0	0

ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT

DATE	
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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE EXCAVATION	22.7	23.4	0
FURNISHED EXCAVATION	50.2	43.8	32
EDGES	2.8	13.8	0
	0	0	0

ALL UNITS ARE IN 50 FT

TEMPORARY PAVEMENT

564 + 50.00

433 NORTH FRONT STREET, SUITE 100 | MCHENRY, ILLINOIS 60050
 Phone: 815.345.1778 | Fax: 815.345.1780 | Email: info@hrgreen.com
 ILLINOIS PROFESSIONAL DESIGN FIRM #184-01322

USER NAME = tyj1ton	DESIGNED - CMH	REVISED -
PLOT SCALE = 1" = 10'	DRAWN - SVJ	REVISED -
PLOT DATE = 11/11/2014	CHECKED - JLP	REVISED -
	DATE - 11/12/14	REVISED -

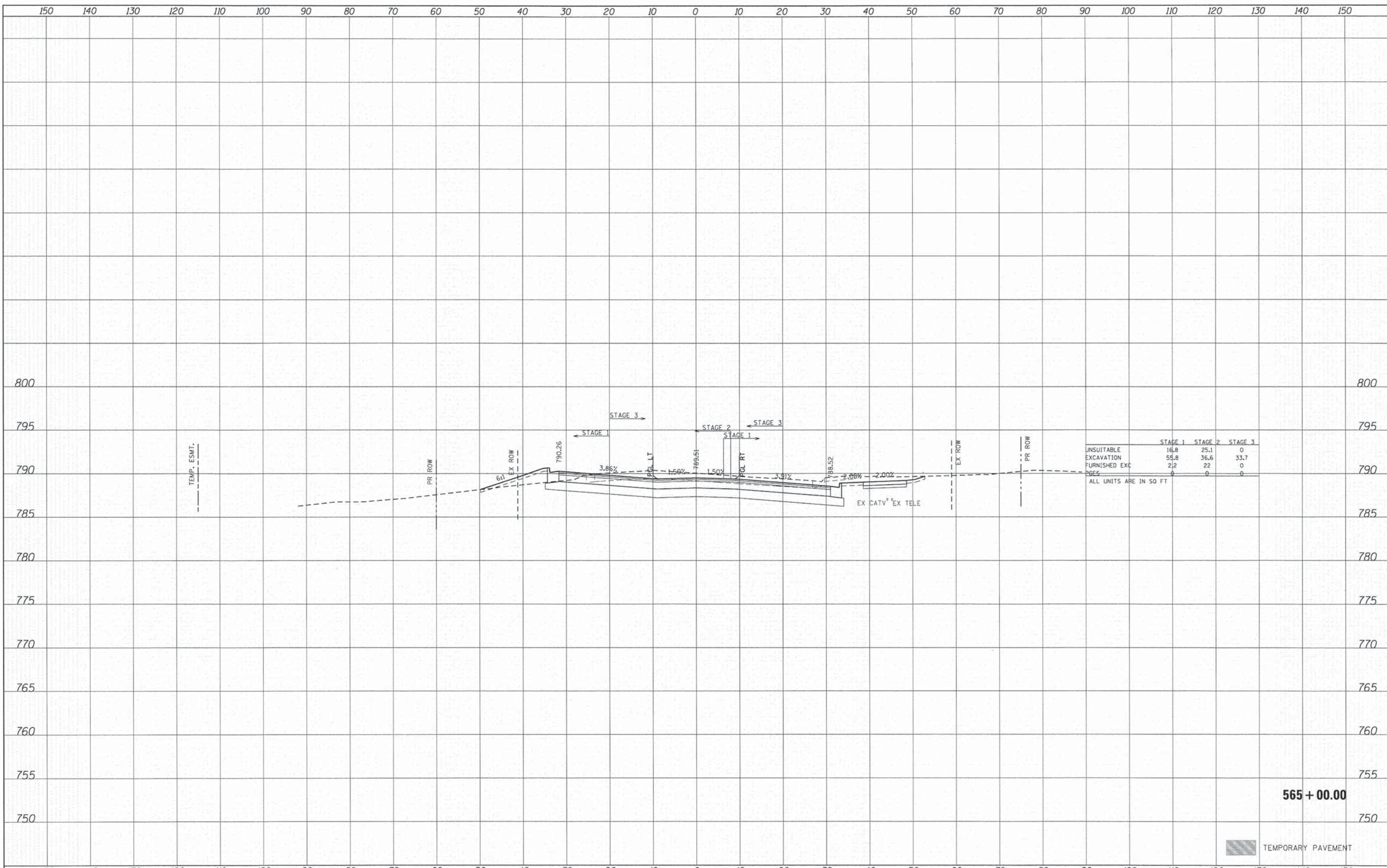
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
CHARLES J. MILLER ROAD
SCALE: 1" = 10' SHEET NO. 61 OF 71 SHEETS STA. 564+50.00 TO STA. 564+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3860	09-00372-01-PW	MCHENRY	358	295
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63892	

FINAL SURVEY
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____

ORIGINAL SURVEY
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____



	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE EXCAVATION	16.8	25.1	0
FURNISHED EXC	55.8	36.6	33.7
PAGES	2,2	22	0
	0	0	0

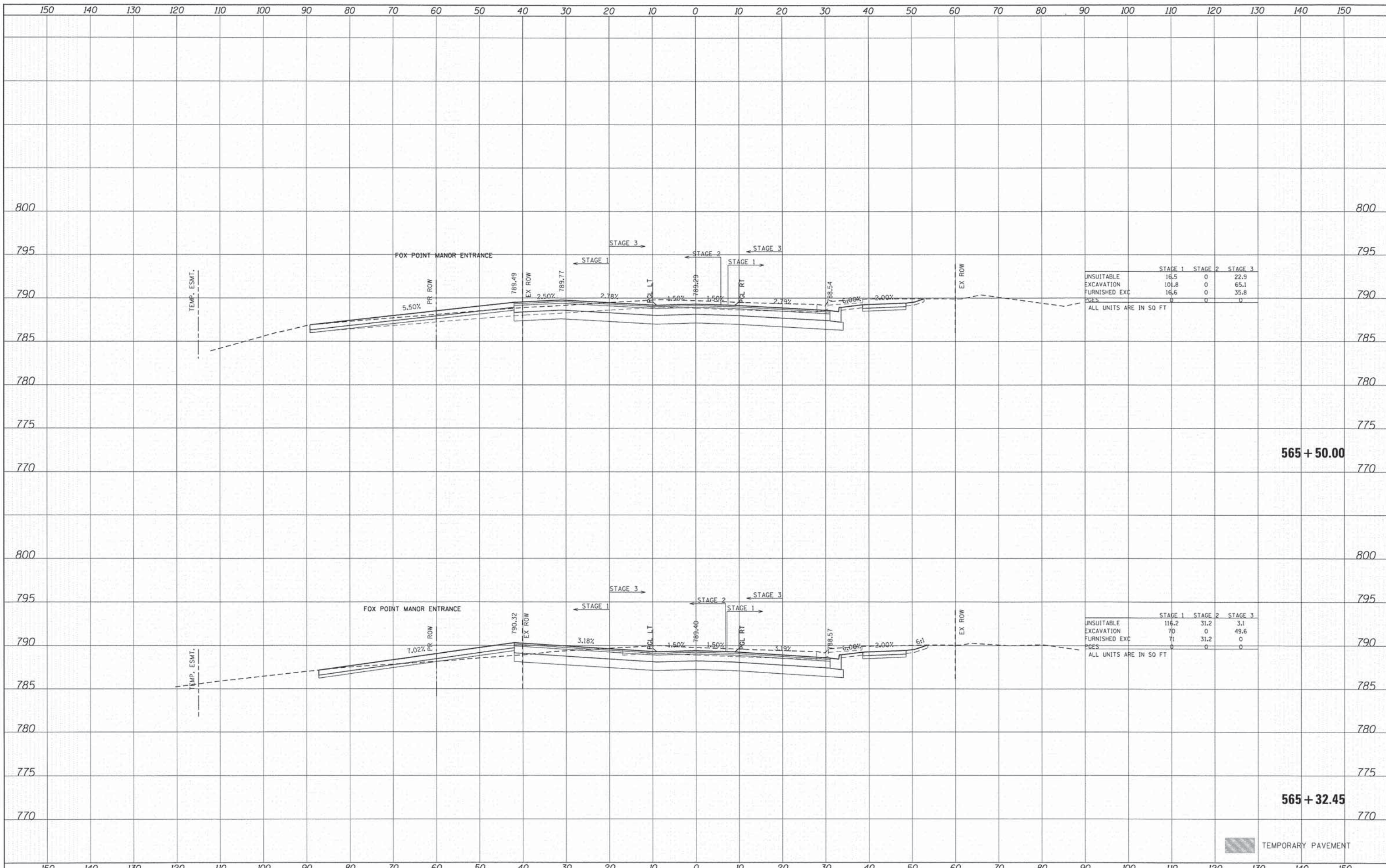
ALL UNITS ARE IN SQ FT

565 + 00.00

TEMPORARY PAVEMENT

DATE	
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DESIGNED	
DRAWN	
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DATE	



	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	16.5	0	22.9
EXCAVATION	101.8	0	65.1
FURNISHED EXC	16.6	0	35.8
PAGES	0	0	0

ALL UNITS ARE IN SQ FT

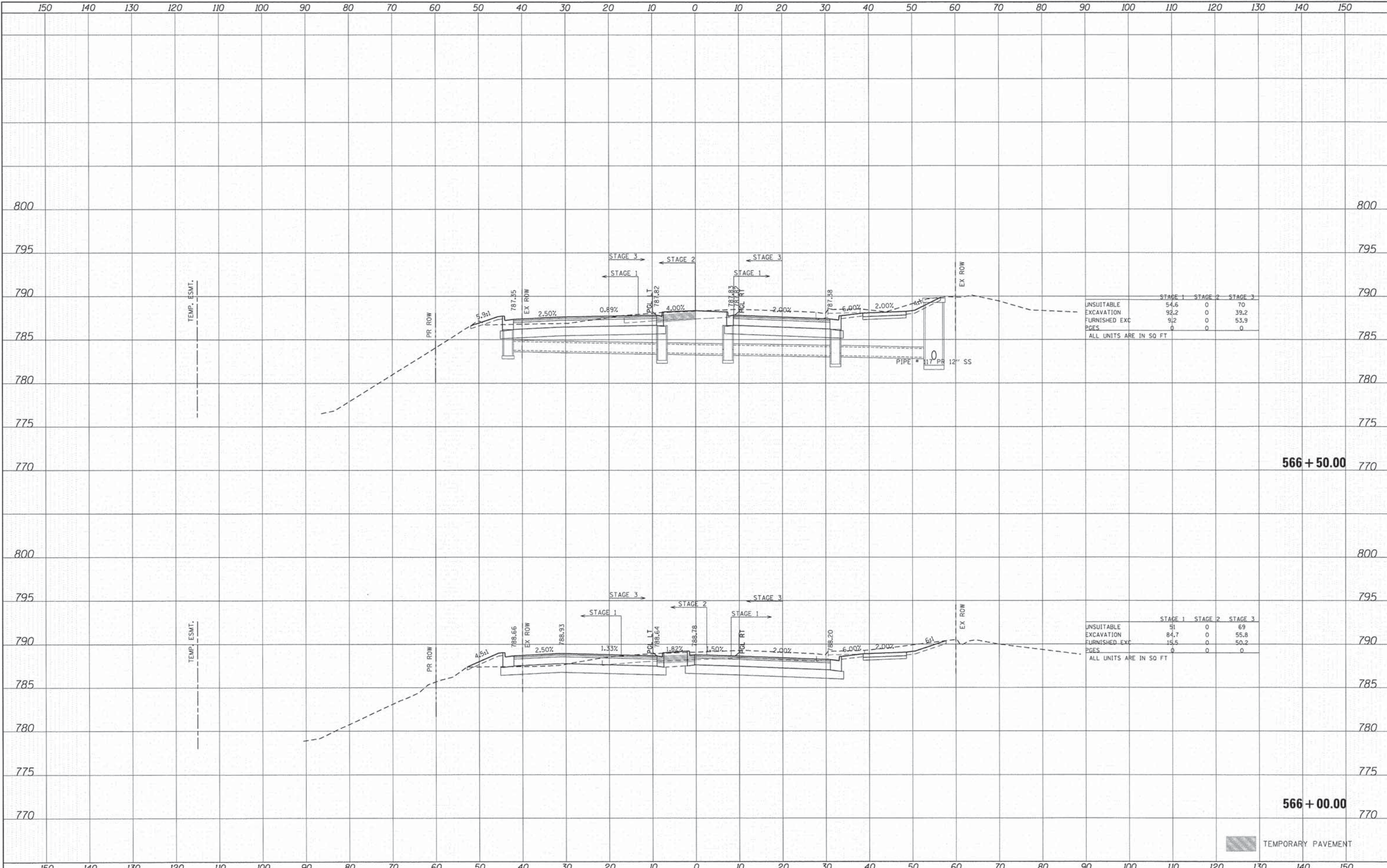
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	116.2	31.2	3.1
EXCAVATION	70	0	49.6
FURNISHED EXC	71	31.2	0
PAGES	0	0	0

ALL UNITS ARE IN SQ FT



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TEMPERATURE	
NOTE BOOK	
AREAS CHECKED	
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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	54.6	0	70
EXCAVATION	92.2	0	39.2
FURNISHED EXC	9.2	0	53.9
PGES	0	0	0

ALL UNITS ARE IN SQ FT

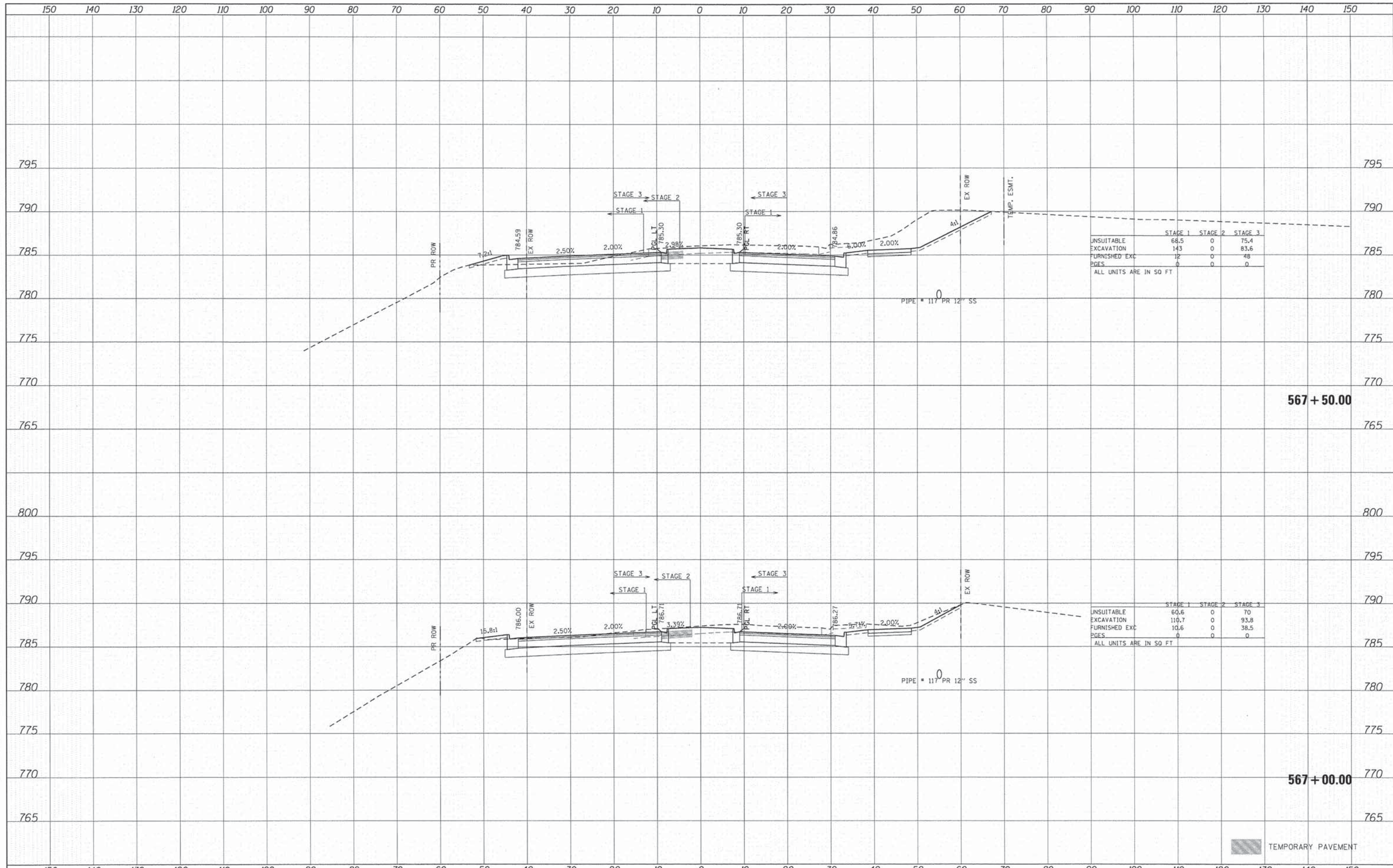
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	51	0	69
EXCAVATION	84.7	0	55.8
FURNISHED EXC	15.5	0	50.2
PGES	0	0	0

ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT

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PLANNED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	68.5	0	75.4
EXCAVATION	143	0	83.6
FURNISHED EXC	12	0	48
PAGES	0	0	0

ALL UNITS ARE IN SQ FT

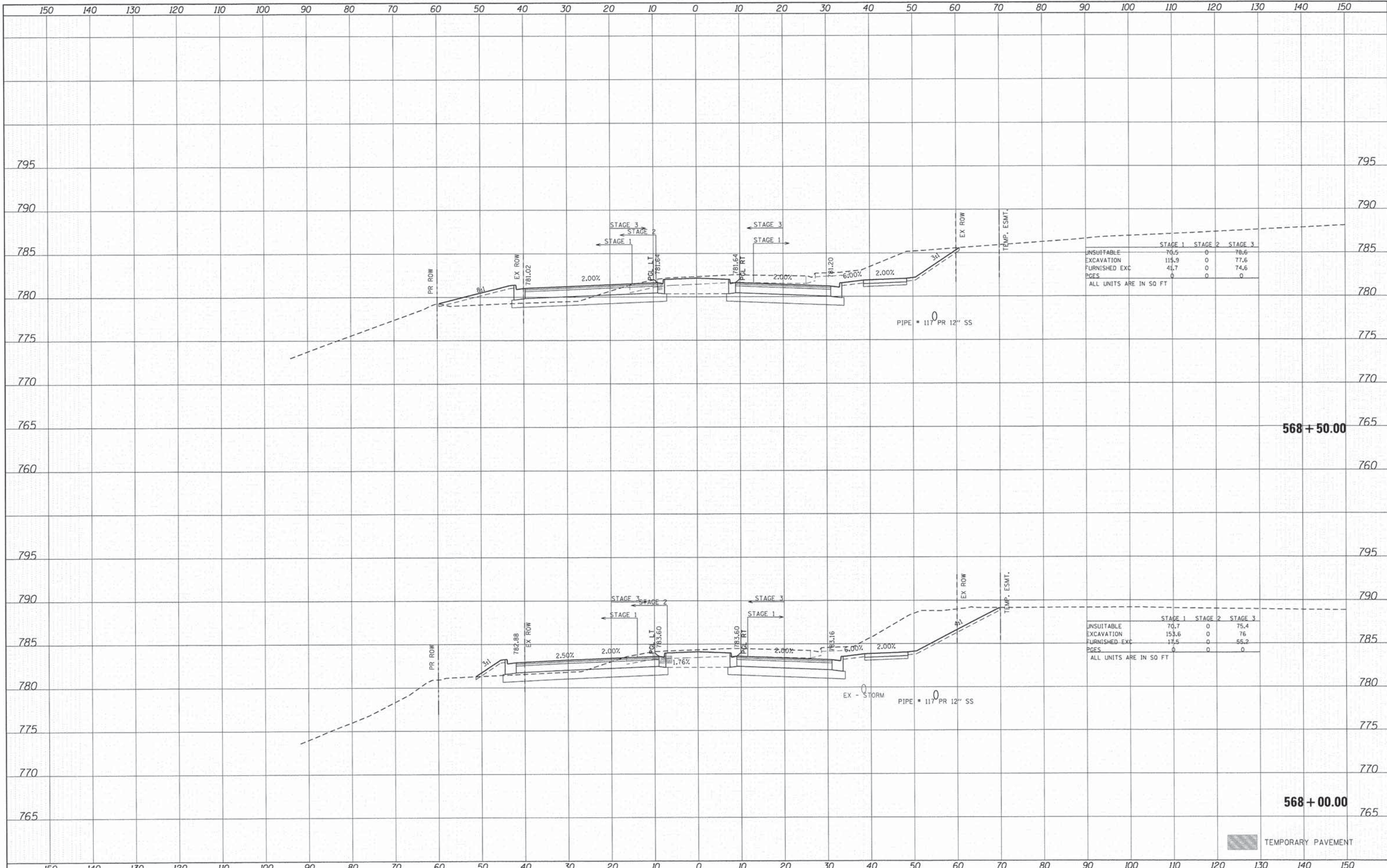
	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	60.6	0	70
EXCAVATION	110.7	0	93.8
FURNISHED EXC	10.6	0	38.5
PAGES	0	0	0

ALL UNITS ARE IN SQ FT

11/11/2014 11:58:11 AM

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PLOTTED	
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PLOTTED	
TEMPLATE	
AREAS	
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	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	70.5	0	70.6
EXCAVATION	115.9	0	77.6
FURNISHED EXC	41.7	0	74.6
PGES	0	0	0

ALL UNITS ARE IN SQ FT

	STAGE 1	STAGE 2	STAGE 3
UNSUITABLE	70.7	0	75.4
EXCAVATION	153.6	0	76
FURNISHED EXC	17.5	0	55.2
PGES	0	0	0

ALL UNITS ARE IN SQ FT

TEMPORARY PAVEMENT