

ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00453-00-BR	SANGAMON	33	1

INDEX OF SHEETS

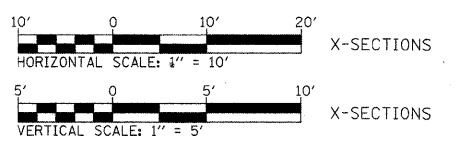
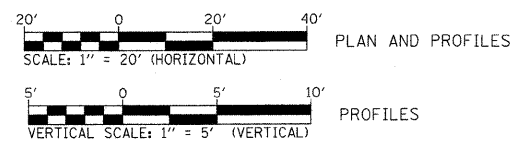
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HIGHWAY STANDARDS

000001-05	604006-04
280001-04	604011-04
424001-05	666001-01
442201-03	701501-05
515001-03	701901-01
542301-02	720001-01
602301-02	720006-02
602306-02	728001-01
602401-02	780001-02
602601-02	B.L.R. 21-8
602701-02	B.L.R. 22-6
604001-03	

STANDARD SYMBOLS

- | | | | |
|---|--------------------------|---------|--|
| ○ | EXISTING MANHOLE | →→→→→ | EXISTING SANITARY SEWER |
| □ | EXISTING INLET | →→→→→ | PROPOSED SANITARY SEWER |
| ⊕ | FIRE HYDRANT | →→→→→ | EXISTING STORM SEWER |
| ⊞ | UTILITY POLE | →→→→→ | PROPOSED STORM SEWER |
| ⊗ | STREET LIGHT | — — — — | EXISTING GAS MAIN |
| ⊙ | TREE | — — — — | EXISTING WATER MAIN |
| ⊗ | TREE TO BE REMOVED | — — — — | PROPOSED WATER MAIN |
| ○ | PROPOSED MANHOLE | — — — — | EXISTING TELEPHONE CABLE |
| ■ | PROPOSED INLET | — — — — | SQUARE YARDS OF DRIVEWAY PAVEMENT REMOVAL |
| Ⓐ | VALVE BOX TO BE ADJUSTED | — — — — | SQUARE YARDS OF PROPOSED DRIVEWAY PAVEMENT |
| | | 15.9 | SQUARE FEET OF SIDEWALK REMOVAL |
| | | 15.0 | SQUARE FEET OF PROPOSED P.C.C. SIDEWALK |
| | | 79 | |
| | | 47 | |

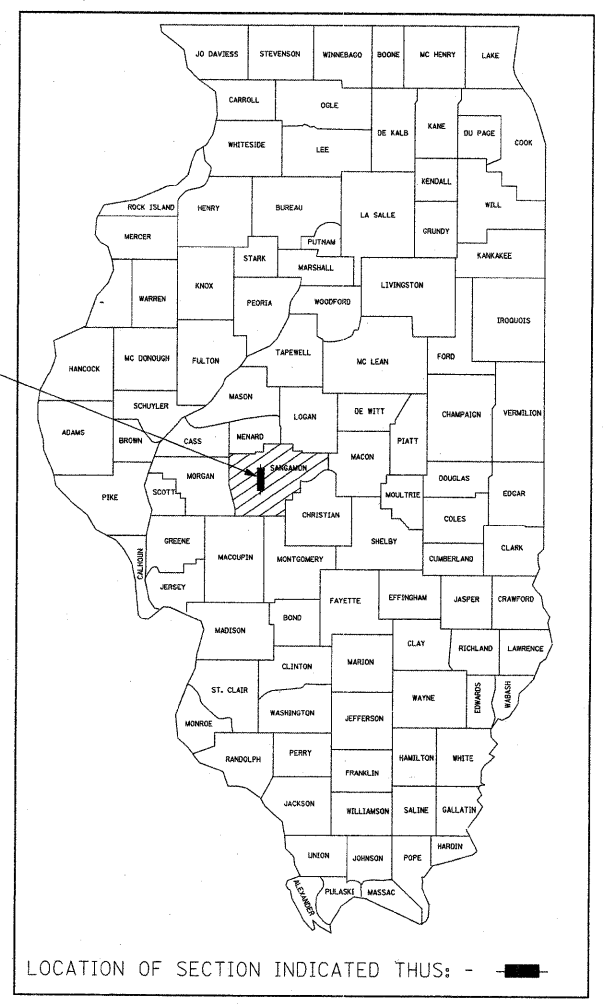


UTILITIES

- | | |
|---|--|
| <p>CURRAN- GARDNER WATER DISTRICT
3382 HAZLET ROAD
SPRINGFIELD, IL. 62707-2522
ATTENTION: LUKE ROY 217-546-3981</p> <p>SPRINGFIELD SANITARY DISTRICT
3017 N. EIGHTH STREET
SPRINGFIELD, IL. 62707
ATTENTION: GREGG HUMPHREY 217-528-0491</p> <p>CITY WATER, LIGHT & POWER- WATER DEPT.
401 N. 11TH STREET
SPRINGFIELD, IL. 62702
ATTENTION: STEVE STEWART 217-789-2022</p> <p>CITY WATER, LIGHT & PCWER- ELECTRIC DEPT.
1008 EAST MILLER STREET
SPRINGFIELD, IL. 62702
ATTENTION: LARRY MINCH 217-757-8520 x 2159</p> | <p>A.T.&T.
529 SO. 7th STREET
3rd FLOOR, B
SPRINGFIELD, IL. 62703
ATTENTION: TERESA MAYER 217-789-8666</p> <p>AMEREN CILCO
825 NORTH MACARTHUR
SPRINGFIELD, IL. 62702
ATTENTION: RICK COMBS 217-753-5187 (GAS)
ATTENTION: SHERRIE GARY 217-753-5182 (ELECTRIC)</p> <p>COMCAST
711 SOUTH DIRKSEN PARKWAY
SPRINGFIELD, IL. 62703
ATTENTION: ROB DAVIS 788-5898 x 636</p> |
|---|--|

STATE OF ILLINOIS
CITY OF SPRINGFIELD DEPARTMENT OF PUBLIC WORKS
PLANS FOR PROPOSED
IMPROVEMENT FOR
SURFACE TRANSPORTATION – URBAN PROGRAM
SECTION: 07-00453-00-BR
PROJECT NO.: M-5146(067)
JOB NO.: C-96-207-08
MEADOWBROOK ROAD BRIDGE REPLACEMENT
SPRINGFIELD, ILLINOIS

PROJECT LOCATION

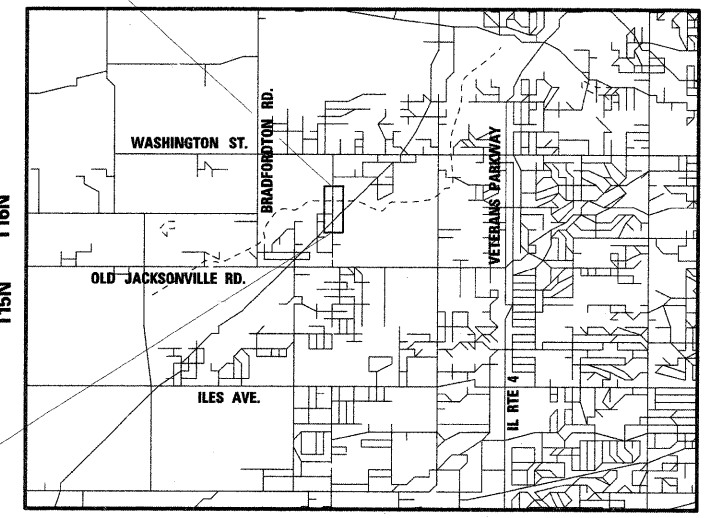


LOCATION OF SECTION INDICATED THIS: -

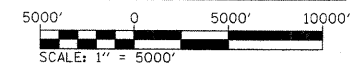
REMOVAL OF A PRESTRESSED CONCRETE DECK BEAM BRIDGE ON EXISTING CONCRETE ANCHOR BLOCKS WITH A BACK TO BACK LENGTH OF 43'-0", AND REPLACEMENT WITH A 32' CLEAR SPAN THREE-SIDED PRECAST CONCRETE ARCH STRUCTURE ON PILE SUPPORTED REINFORCED CONCRETE FOUNDATIONS.
 PROPOSED S.N. 084-6015

END PROJECT
STA. 182+10.00

BEGIN PROJECT
STA. 166+10.00



LOCATION MAP



MEADOWBROOK ROAD
 DESIGN DESIGNATION: MINOR ARTERIAL (URBAN); TWS-2, DESIGN YEAR ADT 1900(28) DHV-285
 DESIGN SPEED = 35 MPH
 LENGTH OF IMPROVEMENT = 1600.00 FEET = 0.303 MILES

CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS

SIGNATURE: *James M. Tilly*
 DATE SIGNED: 10/7/08
 LICENSE EXPIRATION DATE: 11/30/09



SEAL

APPROVED *October 07 20 08*
Charles J. Huber
 CITY ENGINEER, SPRINGFIELD, ILLINOIS

PASSED *OCT 24 20 08*
James F. ...
 DISTRICT SIX ENGINEER OF LOCAL ROADS & STREETS

PASSED *October 24, 20 08*
Don Schambauer
 DISTRICT CONSTRUCTION ENGINEER

Releasing For Bid Based on Limited Review *OCT 24 20 08*
Roger A. ...
 DEPUTY DIRECTOR OF HIGHWAYS, REGION FOUR ENGINEER

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CALL J.U.L.I.E. PRIOR TO ANY CONSTRUCTION OR EXCAVATION
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-892-0123

CONTRACT NO. **93476**

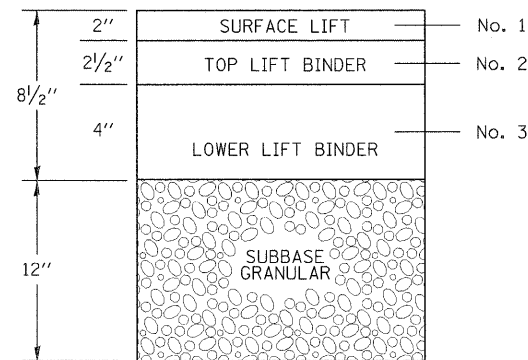
GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION ON JANUARY 1, 2007; AND THE LATEST EDITION OF THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS."
 - WHERE SECTION OR SUB-SECTION STONES OR PROPERTY MARKERS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE STONES ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PROPERTY MARKERS UNTIL AN AUTHORIZED SURVEYOR HAS WITNESSED THEIR LOCATION.
 - EXCAVATION FIGURES INCLUDE EXCAVATION FOR DRIVEWAYS AND SIDEWALKS.
 - DEPRESS CURBS ACROSS ALL ENTRANCES.
 - DOMESTIC BUFFALO BOXES AND METER VAULTS IN THE AREA WHERE THE IMPROVEMENTS ARE TO TAKE PLACE SHALL BE MOVED OR ADJUSTED, IF NECESSARY, BY CURRAN - GARDNER WATER DISTRICT AND C.W.L.P.
 - UTILITY POLES ARE TO BE MOVED, IF NECESSARY, BY THE UTILITY COMPANIES.
 - WHERE PROPOSED CONSTRUCTION ABUTS EXISTING APPURTENANCES, A SAW CUT SHALL BE MADE TO ACHIEVE A NEAT BUTT JOINT. SAW CUTS WILL NOT BE PAID FOR SEPARATELY. COST OF SAW CUTS SHALL BE INCIDENTAL TO THE TYPE OF WORK ENCOUNTERED.
 - ONLY THOSE TREES INDICATED IN THE PLANS TO BE REMOVED SHALL BE REMOVED. THE CONTRACTOR WILL PROTECT ALL REMAINING TREES FROM DAMAGE. ALL TREES AND SHRUBS INDICATED ON PLANS FOR REMOVAL SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
 - ALL ELEVATIONS SHOWN ON PLANS ARE BASED ON U.S.G.S MEAN SEA LEVEL DATUM.
 - THE FOLLOWING HAVE BEEN USED IN CALCULATING THE PLAN QUANTITIES:

AGGREGATE	
- PUGGED AGGREGATE	2.05 TONS/CU.YD.
- ALL OTHER AGGREGATE	1.89 TONS/CU. YD.
BITUMINOUS MATERIALS:	
- ON PAVEMENT	0.00038 TON/SQ. YD. (0.1 GAL/SQ. YD.)
- INTERMEDIATE LIFTS (FOG COAT)	0.00019 TON/SQ. YD. (0.05 GAL/SQ. YD.)
- ON AGGREGATE SURFACE	0.0014 TON/SQ. YD. (0.35 GAL/ SQ. YD.)
AGGREGATE (PRIME COAT)	4 LBS./SQ.YD.
RIPRAP	1.50 TONS/CU. YD.
SEEDING FERTILIZER RATIO (NIT:PHOS:POT)	90:90:90 LBS./AC.
AGRICULTURAL GROUND LIMESTONE	2.00 TONS/AC.
MULCH	2.00 TONS/AC.
 - PLACE SIDEWALK RAMPS FOR THE HANDICAPPED (STD. 424001) AT ALL LOCATIONS WHERE PROPOSED SIDEWALK ABUTS CURB AT STREET ENTRANCES.
 - PROPOSED SIDEWALKS ACROSS DRIVES SHALL MATCH THE DEPTH OF THE ADJACENT DRIVE. COST FOR ADDITIONAL MATERIAL SHALL BE INCLUDED IN UNIT PRICE FOR PCC SIDEWALK, 4".
 - THE FINAL TOP 4 INCHES OF SOIL IN ANY AREA WITHIN THE RIGHT-OF-WAY DISTURBED BY THE CONTRACTOR MUST BE A COHESIVE SOIL CAPABLE OF SUPPORTING VEGETATION.
 - THE LOCATIONS OF BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE AND ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVE GROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. POTENTIAL J.U.L.I.E. MEMBERS ACTIVE IN THE VICINITY OF THE PROJECT ARE LISTED ON THE COVER SHEET.

MIXTURE REQUIREMENTS

MIXTURE NUMBER:	No. 1	No. 2	No. 3
LOCATION(S):			
MIXTURE USE(S):	BITUMINOUS CONCRETE SURFACE LIFT	TOP BINDER LIFT	LOWER BINDER LIFT
AC/PG:	SBS PG 70-22	SBS PG 70-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ Ndesign = 50	4.0% @ Ndesign = 50	4.0% @ Ndesign = 50
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-9.5 OR IL- 12.5	IL-19.0	IL-19.0
FRICTION AGGREGATE:	MIX "C"	N/A	N/A



**MEADOWBROOK ROAD
BITUMINOUS LIFT DIAGRAM**

STRUCTURAL DESIGN INFORMATION (MEADOWBROOK ROAD)

CLASS II STREET
DESIGN TRAFFIC (2018): 1635 TOTAL ADT
P.V. = 1440 S.U. = 115 M.U. = 80
T.F. = 0.4417 (80,000 LB. LOAD LIMIT)
DESIGN STRAIN = 180 (MICROSTRAIN)

CONSTRUCT: HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 8-1/2"
WITH SUBBASE GRANULAR MATERIAL, TYPE B, 12"

SUMMARY OF QUANTITIES					
SP	CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	381	I000-2A X023-2A
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	396	396
	20200100	EARTH EXCAVATION	CU YD	4,482	4,482
	20300100	CHANNEL EXCAVATION	CU YD	365	365
	20400800	FURNISHED EXCAVATION	CU YD	7,105	7,105
	20700110	POROUS GRANULAR EMBANKMENT	TON	1,186	1,186
	20800150	TRENCH BACKFILL	CU YD	411	411
	21400100	GRADING AND SHAPING DITCHES	FOOT	200	200
	25000200	SEEDING, CLASS 2	ACRE	0.9	0.9
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	81	81
	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	81	81
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	81	81
	25000700	AGRICULTURAL GROUND LIMESTONE	TON	1.8	1.8
	25100115	MULCH, METHOD 2	ACRE	0.9	0.9
	25100630	EROSION CONTROL BLANKET	SQ YD	4,840	4,840
	28000300	TEMPORARY DITCH CHECKS	EACH	15	15
	28000400	PERIMETER EROSION BARRIER	FOOT	1,075	1,075
	28000500	INLET AND PIPE PROTECTION	EACH	3	3
	28100107	STONE RIPRAP, CLASS A4	SQ YD	796	796
	28200200	FILTER FABRIC	SQ YD	796	796
	31101810	SUB-BASE GRANULAR MATERIAL, TYPE B 12"	SQ YD	9,150	9,150
	40200500	AGGREGATE SURFACE COURSE, TYPE A 6"	SQ YD	95	95
	40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	250	250
	40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	4,600	4,600
	40600300	AGGREGATE (PRIME COAT)	TON	17	17
	40701851	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 8 1/2"	SQ YD	8,250	8,250
	40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	80	80
	42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	15,586	15,586
	42400800	DETECTABLE WARNINGS	SQ FT	65	65
	44000100	PAVEMENT REMOVAL	SQ YD	586	586
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	361	361
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	352	352
	44000600	SIDEWALK REMOVAL	SQ FT	155	155
	44201717	CLASS D PATCHES, TYPE II, 6 INCH	SQ YD	170	170
	50100200	REMOVAL OF EXISTING STRUCTURES	L SUM	1	1
	50105220	PIPE CULVERT REMOVAL	FOOT	379	379
	50200100	STRUCTURE EXCAVATION	CU YD	920	920
	50300225	CONCRETE STRUCTURES	CU YD	188	188
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	20,625	20,625
	50900805	PEDESTRIAN RAILING	FOOT	246	246
	51201600	FURNISHING STEEL PILES HP 12X53	FOOT	635	635
	51202305	DRIVING PILES	FOOT	635	635

*SP = SEE SPECIAL PROVISION
 Δ = SPECIALTY ITEMS

SUMMARY OF QUANTITIES					
SP	CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE
	51203600	TEST PILE STEEL HP 12X53	EACH	1	I000-2A X023-2A
	51500100	NAME PLATES	EACH	1	1
	54200220	PIPE CULVERTS, CLASS D, TYPE 1 15" (CSCP)	FOOT	65	65
	54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	1	1
	54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1	1
	54213870	STEEL END SECTIONS 15"	EACH	4	4
	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	306	306
	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	155	155
	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	715	715
	550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	390	390
	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	46	46
	60224700	RESTRICTED DEPTH MANHOLES, 4'-DIAMETER, TYPE 3 FRAME AND GRATE	EACH	6	6
	60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	1	1
	60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	6	6
	60240220	INLETS, TYPE B, TYPE 3 FRAME AND GRATE	EACH	6	6
	60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	3,235	3,235
	66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	9	9
	67100100	MOBILIZATION	L SUM	1	0.5 0.5
	70103700	TRAFFIC CONTROL COMPLETE	L SUM	1	0.5 0.5
	70300230	TEMPORARY PAVEMENT MARKING - LINE 5'	FOOT	6,825	6,825
	70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	230	230
	70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	360	360
	70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	457	457
	70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	38	38
	72000100	SIGN PANEL - TYPE 1	SQ FT	102	102
	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	375	375
	78000300	THERMOPLASTIC PAVEMENT MARKING - LINE 5"	FOOT	6,825	6,825
	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	196	196
	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	360	360
	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	457	457
	78004200	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS AND SYMBOLS	SQ FT	260	260
	78004280	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"	FOOT	38	38
	X0322033	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	323	323
	X0322034	STORM SEWER (WATER MAIN REQUIREMENTS) 15 INCH	FOOT	38	38
	X0322035	STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH	FOOT	38	38
	X0323330	PRECAST CONCRETE SUBSTRUCTURE	L SUM	1	1
	X0325574	THREE-SIDED PRECAST CONCRETE STRUCTURES, 32'X9'	FOOT	68	68
	XX006806	HOT-MIX ASPHALT DRIVEWAY PAVEMENT	SQ YD	336	336
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.5 0.5

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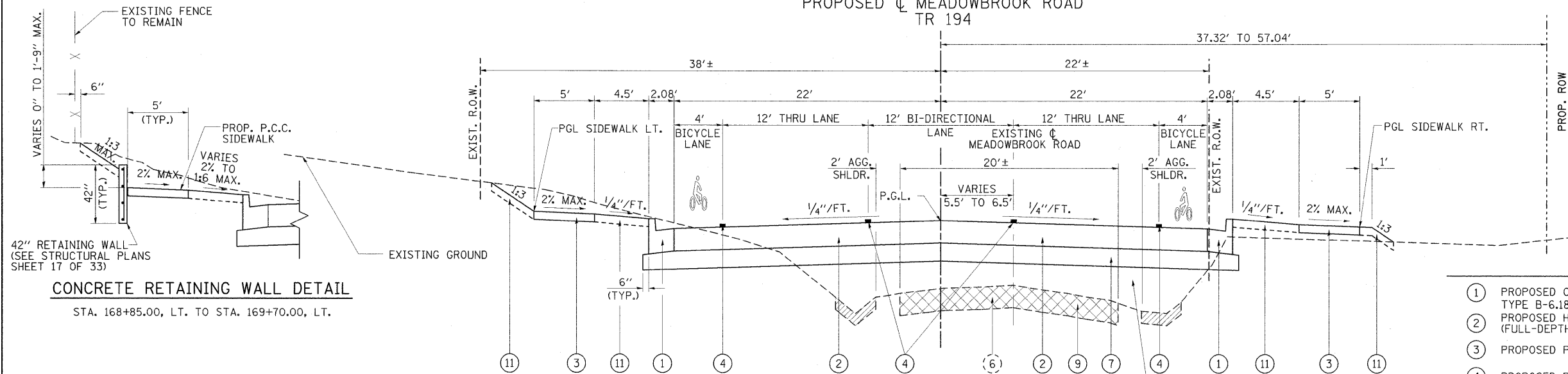
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**MEADOWBROOK ROAD
 CITY OF SPRINGFIELD
 SPRINGFIELD, ILLINOIS**

SUMMARY OF QUANTITIES

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PROPOSED ϕ MEADOWBROOK ROAD
TR 194



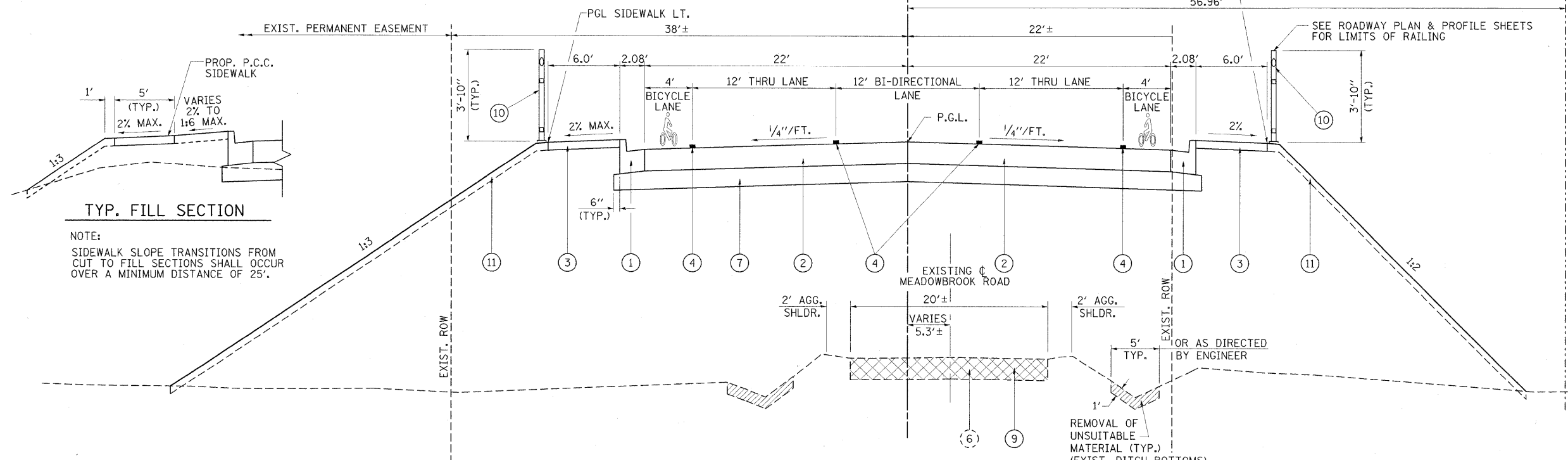
PROPOSED TYPICAL SECTION
MEADOWBROOK ROAD

STA. 166+10.00 TO STA. 172+00±

LEGEND

- ① PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
- ② PROPOSED HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 8 1/2"
- ③ PROPOSED P.C.C. SIDEWALK 4"
- ④ PROPOSED PAVEMENT MARKING (SEE PAVEMENT MARKING SHEETS)
- ⑤ PROPOSED STRUCTURE CONCRETE WING WALL & FOUNDATION
- ⑥ EXISTING OIL & CHIP SURFACE PAVEMENT
- ⑦ PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B 12"
- ⑧ STONE RIP-RAP CLASS A4 WITH FILTER FABRIC
- ⑨ PAVEMENT REMOVAL IN ACCORDANCE WITH EARTH EXCAVATION SPECIAL PROVISION
- ⑩ PROPOSED PEDESTRIAN RAILING (SEE STRUCTURAL PLANS)
- ⑪ TOPSOIL, 4"; SEEDING CLASS 2; MULCH METHOD 2; $\leq 1:3$ SLOPES; EROSION CONTROL BLANKET; $> 1:3$ SLOPES

PROPOSED ϕ MEADOWBROOK ROAD
TR 194



PROPOSED TYPICAL SECTION
MEADOWBROOK ROAD

STA. 172+00± TO STA. 174+00.00

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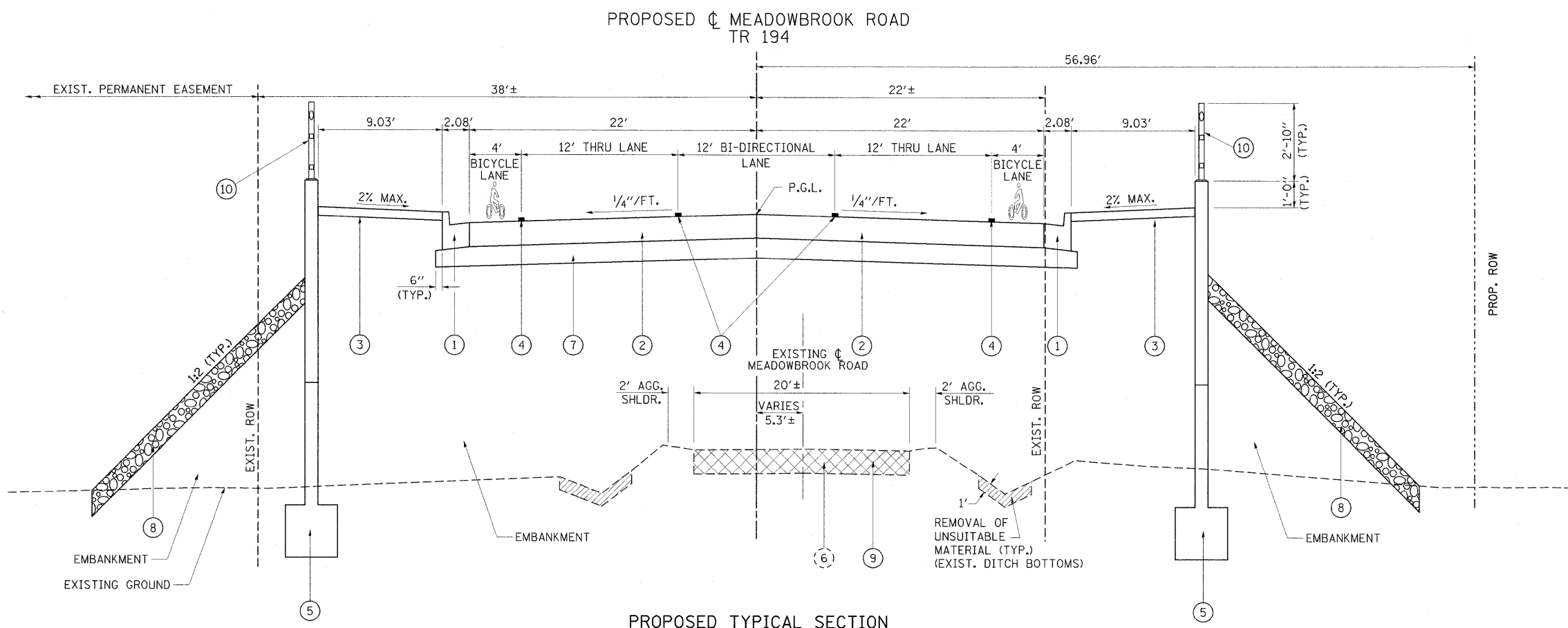
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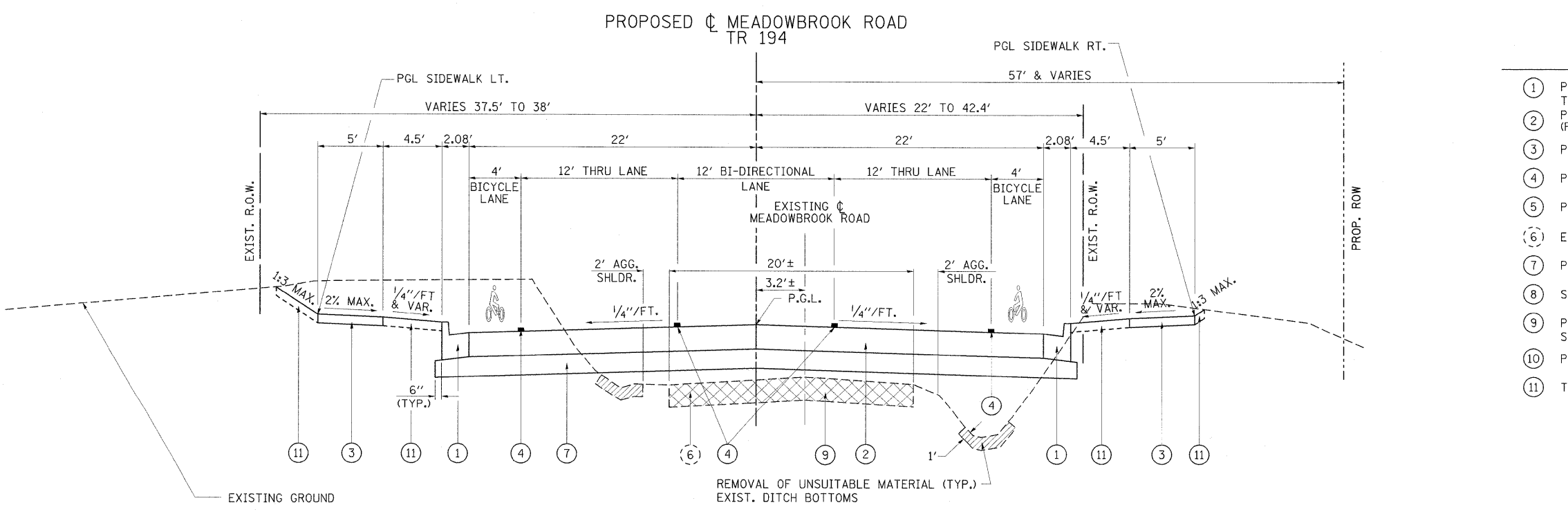
MEADOWBROOK ROAD
CITY OF SPRINGFIELD
SPRINGFIELD, ILLINOIS

TYPICAL SECTIONS

SCALE: N/A SHEET NO. 4 OF 33 SHEETS STA. N/A TO STA. N/A



**PROPOSED TYPICAL SECTION
MEADOWBROOK ROAD**
STA. 172+62.15 TO STA. 173+27.85



**PROPOSED TYPICAL SECTION
MEADOWBROOK ROAD**
STA. 174+00.00 TO STA. 182+10.00

- LEGEND**
- ① PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
 - ② PROPOSED HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 8 1/2"
 - ③ PROPOSED P.C.C. SIDEWALK 4"
 - ④ PROPOSED PAVEMENT MARKING (SEE PAVEMENT MARKING SHEETS)
 - ⑤ PROPOSED STRUCTURE CONCRETE WING WALL & FOUNDATION
 - ⑥ EXISTING OIL & CHIP SURFACE PAVEMENT
 - ⑦ PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B 12"
 - ⑧ STONE RIP-RAP CLASS A4 WITH FILTER FABRIC
 - ⑨ PAVEMENT REMOVAL IN ACCORDANCE WITH EARTH EXCAVATION SPECIAL PROVISION
 - ⑩ PROPOSED PEDESTRIAN RAILING (SEE STRUCTURAL PLANS)
 - ⑪ TOPSOIL, 4"; SEEDING CLASS 2; MULCH METHOD 2; ≤ 1:3 SLOPES; EROSION CONTROL BLANKET; > 1:3 SLOPES

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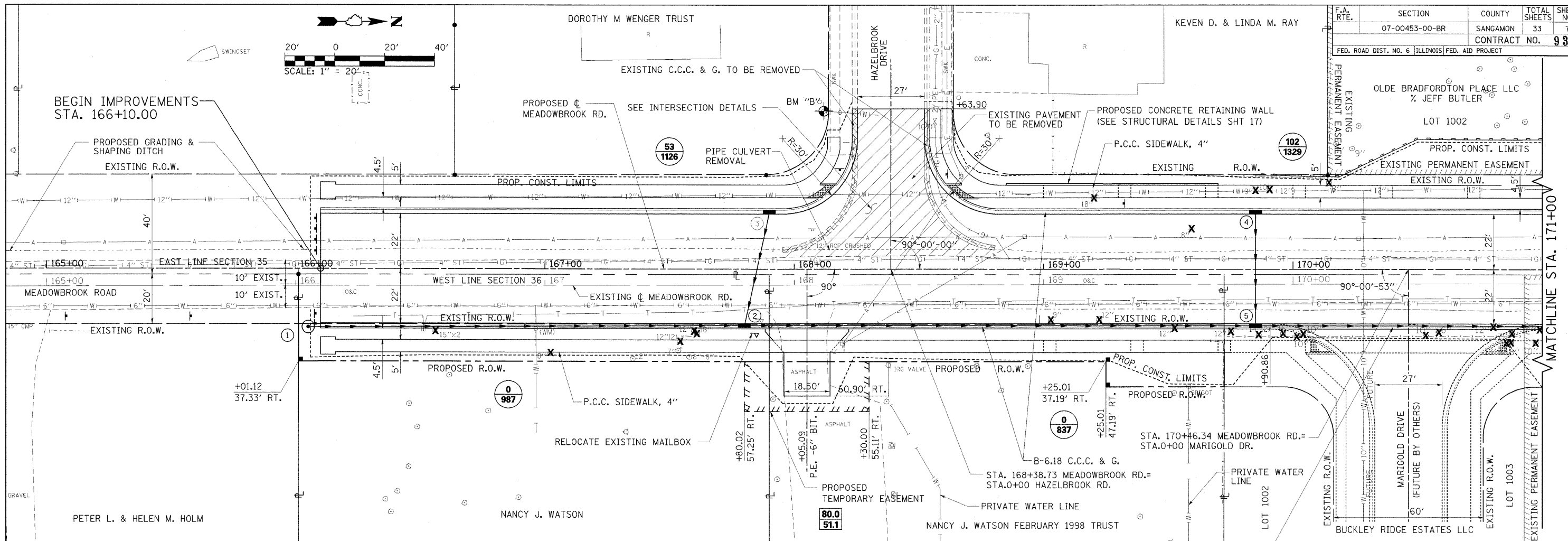
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DRAWN - GLD
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**MEADOWBROOK ROAD
CITY OF SPRINGFIELD
SPRINGFIELD, ILLINOIS**

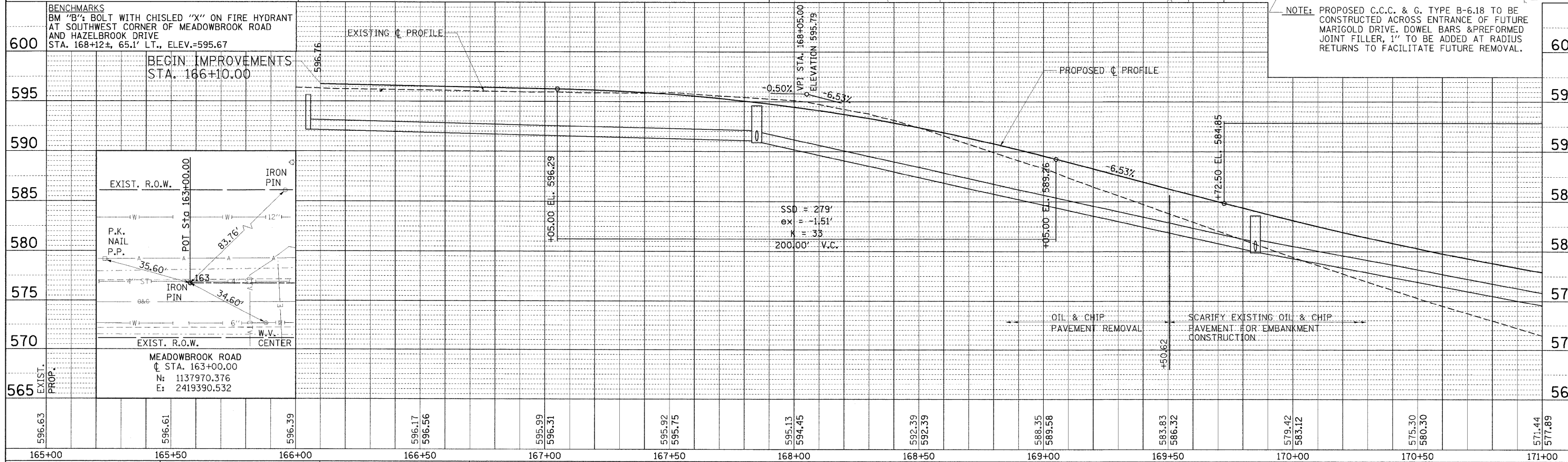
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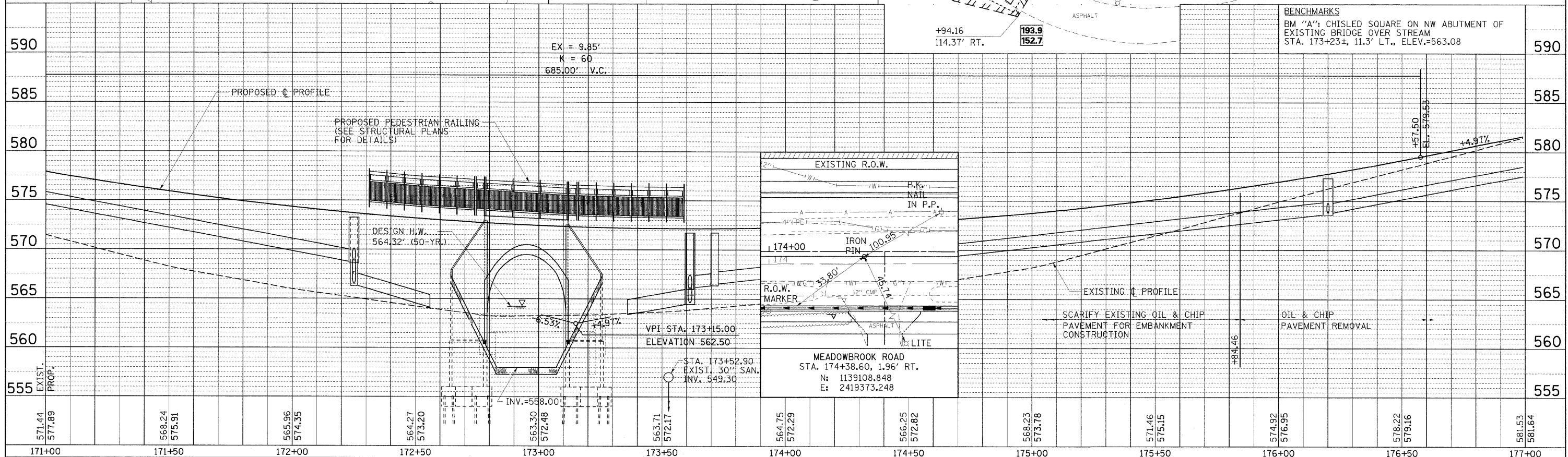
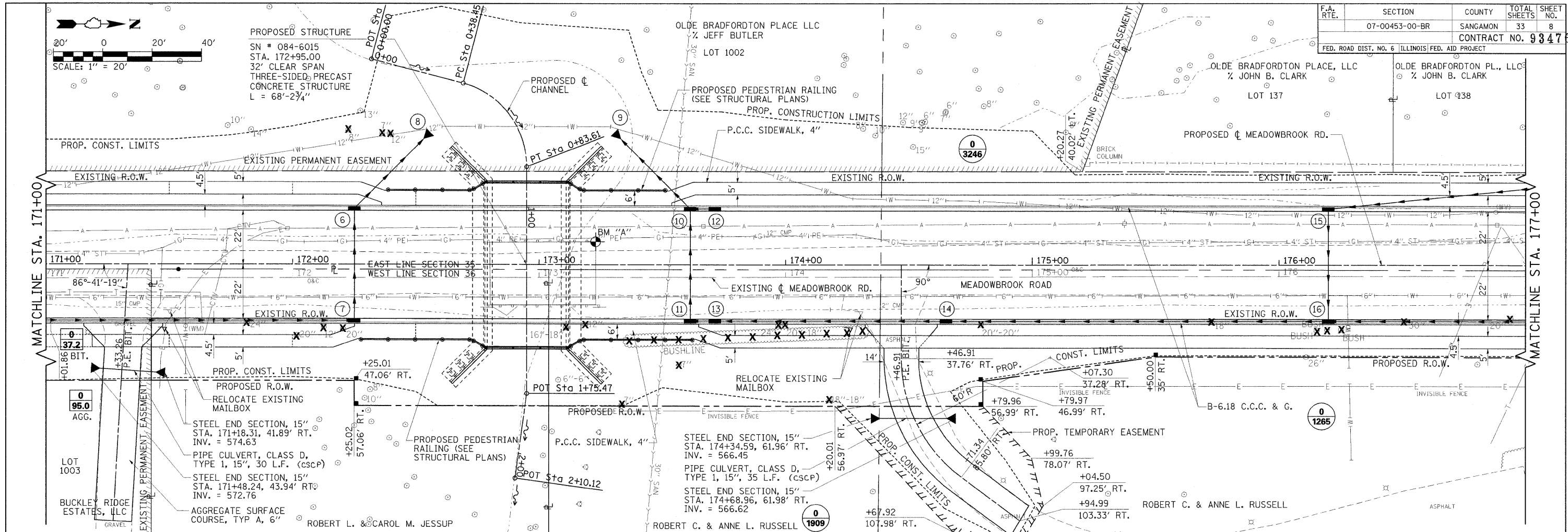
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 CHECKED BY: _____
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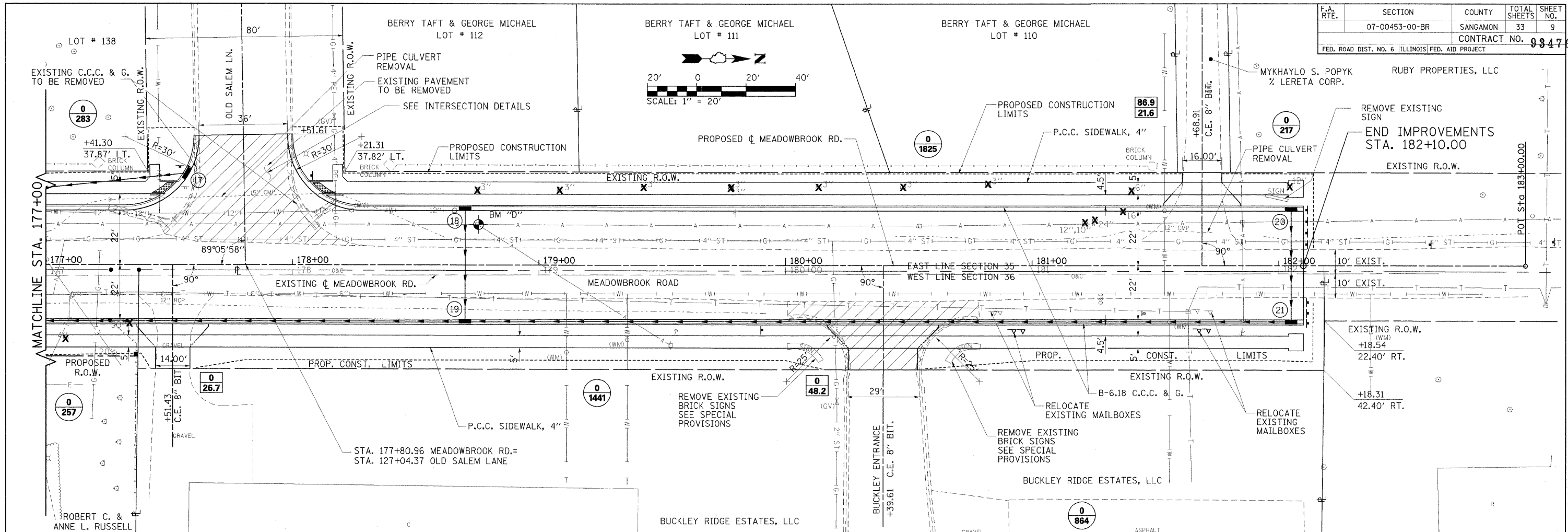
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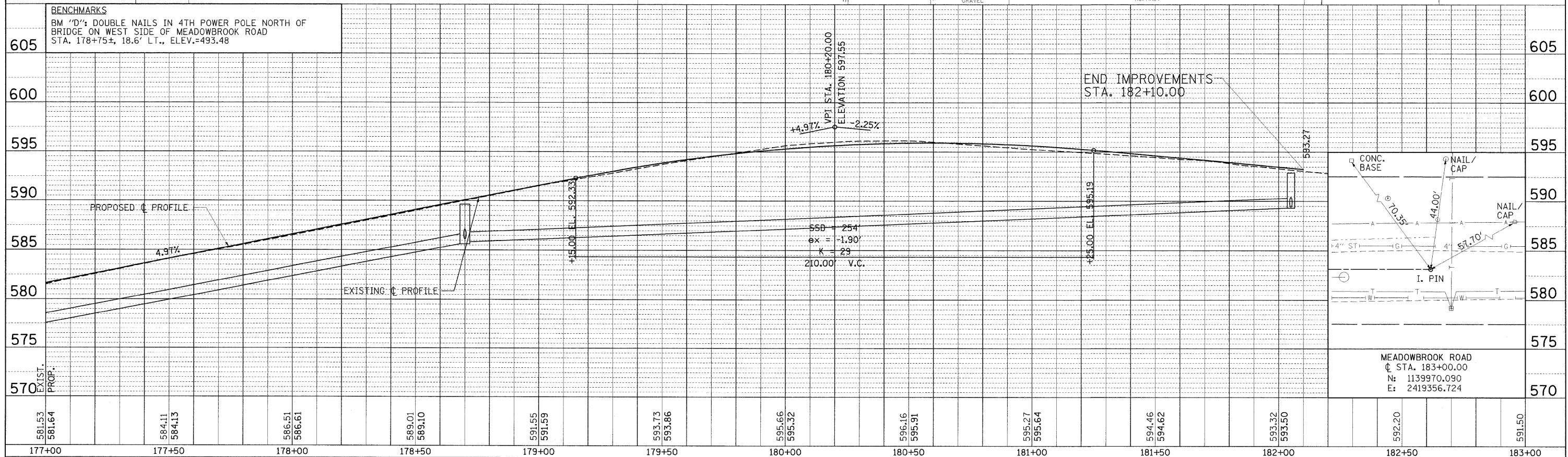
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	NO. 12		
	NO. 13		
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	NO. 15		
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	NO. 17		
	NO. 18		
	NO. 19		
	NO. 20		

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	NO. 20		



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 NO. CAD FILE NAME

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 SURVEYED
 PLOTTED
 CHECKED
 B.M. NOTED
 STRUCTURE NOTATIONS CHECKED
 NO. NO.



581.53 581.64	584.11 584.13	586.51 586.61	589.01 589.10	591.55 591.59	593.73 593.86	595.66 595.32	596.16 595.91	595.27 595.64	594.46 594.62	593.32 593.50	592.20	591.50
177+00	177+50	178+00	178+50	179+00	179+50	180+00	180+50	181+00	181+50	182+00	182+50	183+00

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USER NAME = Rob Heady
 DESIGNED - JMM
 DRAWN - GLD
 CHECKED - SPH
 DATE - 8/2008

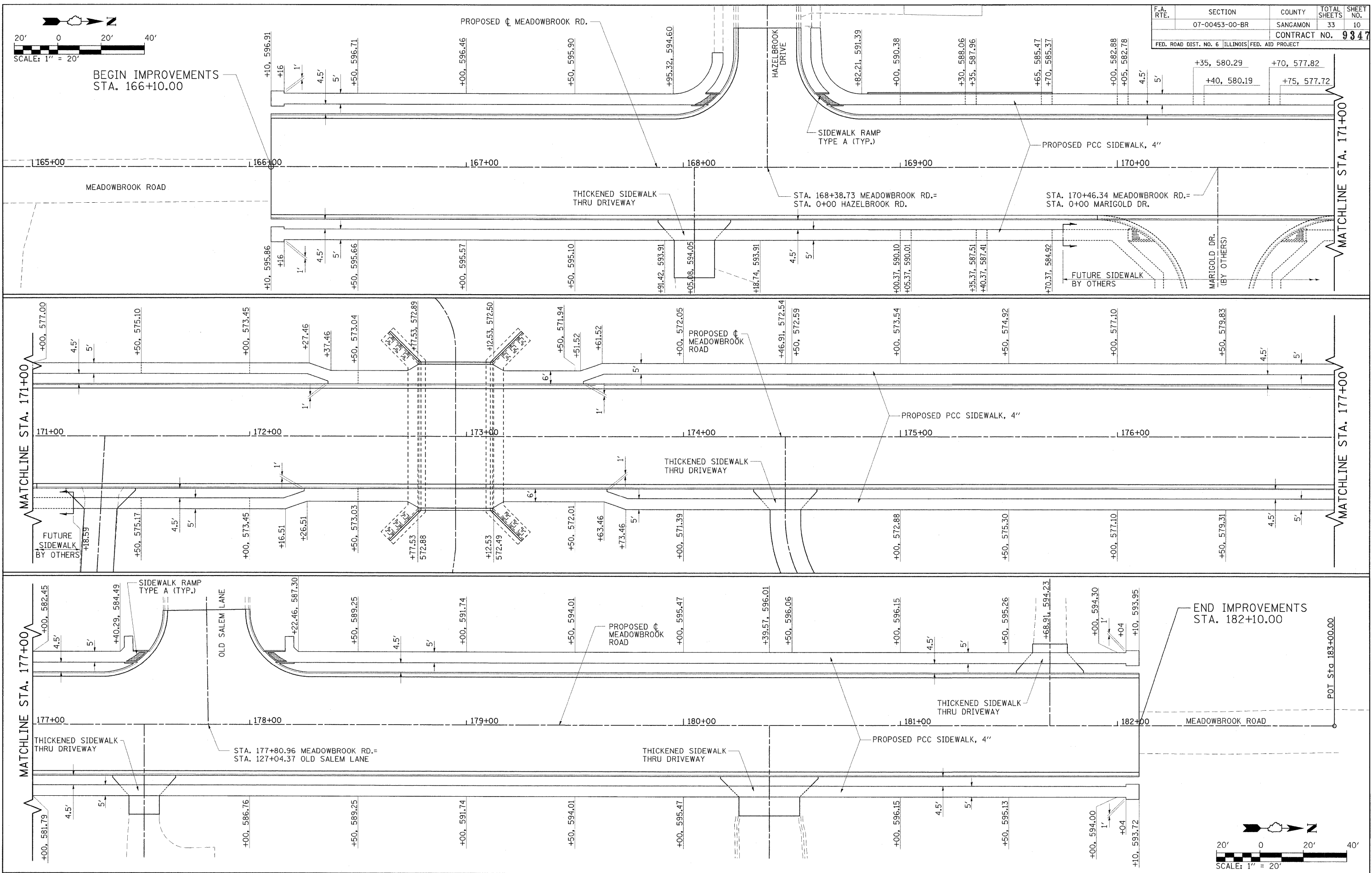
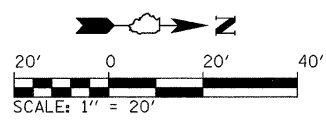
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**MEADOWBROOK ROAD
 CITY OF SPRINGFIELD
 SPRINGFIELD, ILLINOIS**

**ROADWAY PLAN AND PROFILE
 STA 177+00.00 TO STA 183+00.00**

SCALE: 1"=20' SHEET NO. 9 OF 33 SHEETS STA.177+00 TO STA.183+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00453-00-BR	SANGAMON	33	10
FED. ROAD DIST. NO. 6 [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 93476	



BEGIN IMPROVEMENTS
STA. 166+10.00

MATCHLINE STA. 171+00

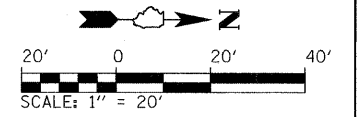
MATCHLINE STA. 171+00

MATCHLINE STA. 177+00

MATCHLINE STA. 177+00

END IMPROVEMENTS
STA. 182+10.00

POT Sta. 183+00.00



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DESIGNED - JMM
DRAWN - RAH
CHECKED - SPH
DATE - 10/2008

REVISED -
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REVISED -

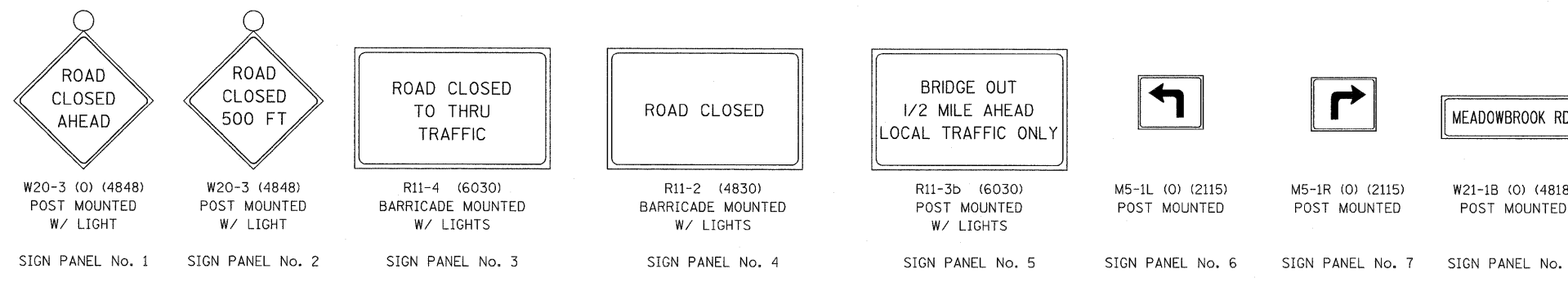
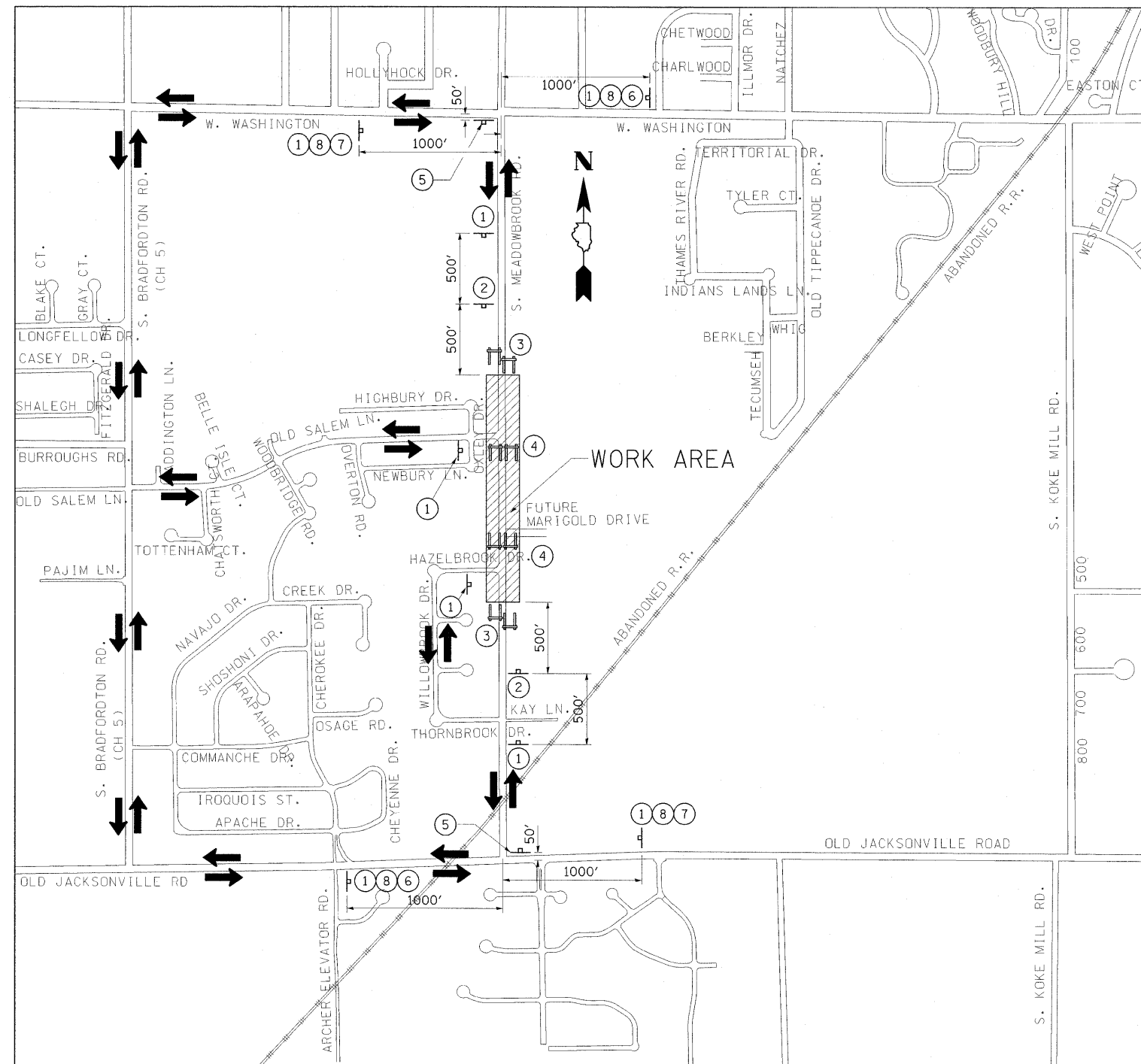
**MEADOWBROOK ROAD
CITY OF SPRINGFIELD
SPRINGFIELD, ILLINOIS**

SIDEWALK PROFILE ELEVATIONS

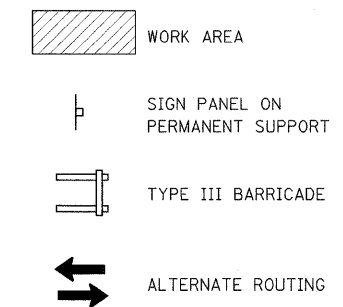
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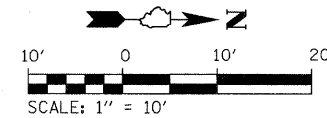
MAINTENANCE OF TRAFFIC GENERAL NOTES

- ALL SIGNING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2007, THE DETAILS IN THESE PLANS AND THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- ALL MAINTENANCE OF TRAFFIC SIGNS SHALL BE PROVIDED, PLACED AND MAINTAINED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL PROCEED WITH THE WORK IN AN EXPEDIENT MANNER TO MINIMIZE THE TIME THAT THE CLOSURE IS IN EFFECT.
- THE ENGINEER SHALL BE NOTIFIED IN WRITING AT LEAST TWO WEEKS PRIOR TO THE DAY THAT THE ROAD IS TO BE CLOSED. THE ENGINEER WILL COORDINATE WITH THE CITY AND ANY APPROPRIATE LOCAL AGENCIES.
- THE CONTRACTOR SHALL SUPPLY TO THE ENGINEER THE NAMES AND PHONE NUMBERS OF HIS REPRESENTATIVES ON THE CONSTRUCTION SITE AND HIS REPRESENTATIVES RESPONSIBLE FOR THE DETOUR SIGNING AND MAINTENANCE OF TRAFFIC PRIOR TO THE START OF WORK.
- LONGITUDINAL DIMENSIONS SHOWN ON THESE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- THE ROAD SHALL NOT BE CLOSED UNTIL ALL SIGNING IS ERECTED IN ACCORDANCE WITH THE ROAD CLOSURE PLAN AND INSPECTED AND APPROVED BY THE ENGINEER.
- ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE ROAD CLOSURE IS IN EFFECT SHALL BE REMOVED OR COMPLETELY COVERED BY THE CONTRACTOR. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF TRAFFIC CONTROL COMPLETE.
- ALL ROAD CLOSURE SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE NOTED.
- ALL ROAD CLOSURE SIGNING, EXCEPT REGULATORY SIGNS, SHALL HAVE BLACK LEGNEDS ON FLUORESCENT ORANGE BACKGROUNDS AND STANDARD BLACK BORDERS. ALL ROAD CLOSURE SIGNS SHALL BE NEW OR LIKE NEW CONDITION.
- AS A MINIMUM, ALL AMBER FLASHING LIGHTS THAT ARE REQUIRED FOR THE CLOSURE SIGNAGE SHALL MEET THE REQUIREMENTS FOR TYPE A-LOW INTENSITY FLASHING LIGHTS PER ARTICLE 1106.02(g) OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING HOURS OF DARKNESS. ONLY LIGHTS THAT HAVE BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND THE CITY OF SPRINGFIELD SHALL BE USED.
- THE TYPE III BARRICADES USED AT POINTS OF CLOSURE TO THRU TRAFFIC ONLY SHALL NOT EXCEED 8 FEET IN WIDTH FOR A SINGLE APPROACH LANE. ALL BARRICADES AT THESE LOCATIONS SHALL HAVE REFLECTORIZED STRIPING ON BOTH SIDES OF THE BARRICADE.
- THE "ROAD CLOSED" SIGN ON A TYPE III BARRICADE SHALL BE MOUNTED ACCORDING TO STANDARD 701901. ALL TYPE III BARRICADES SHALL HAVE TWO AMBER TYPE A-LOW INTENSITY FLASHING LIGHTS.
- CONSTRUCTION EQUIPMENT SHALL NOT BE PARKED IMMEDIATELY BEHIND THE TYPE III BARRICADES DURING NON-WORKING HOURS. IN ANY EVENT, ARTICLES 701 THRU 703 OF THE STANDARD SPECIFICATIONS SHALL APPLY.
- THE ENGINEER SHALL BE NOTIFIED AT LEAST TWO WEEKS BEFORE THE ROAD IS TO BE OPENED TO TRAFFIC. THE ENGINEER WILL COORDINATE WITH THE CITY AND THE APPROPRIATE LOCAL AGENCIES.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAY AND POINTS OF ACCESS DURING ALL PERIODS OF CONSTRUCTION.
- FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF 8 SANDBAGS PER BARRICADE.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACCESS WITHIN THE PROJECT LIMITS FOR THE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE ADJACENT RESIDENTIAL DEVELOPMENT. THE FUTURE MARIGOLD DRIVE SERVES AS THE CONSTRUCTION ENTRANCE FOR THIS SITE IMPROVEMENT.

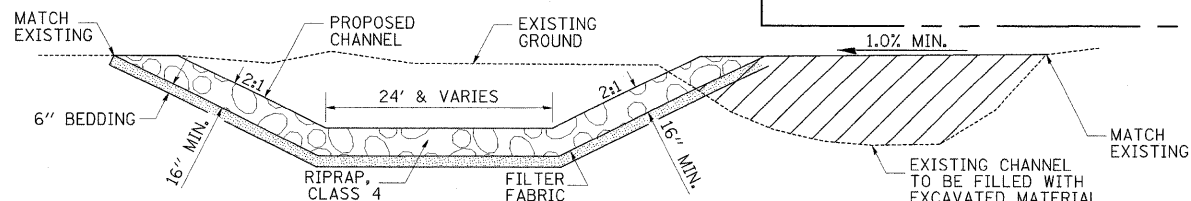
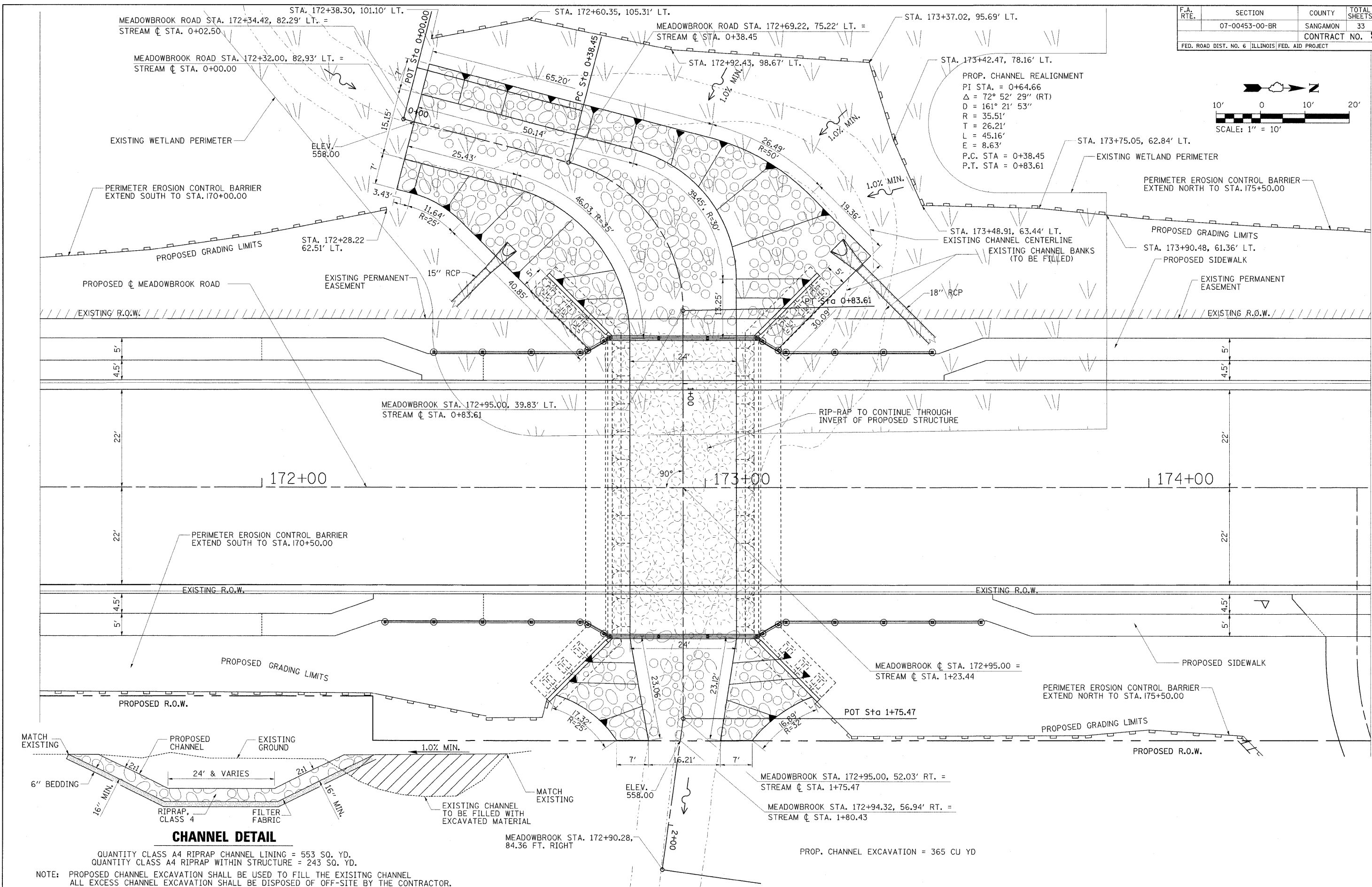


LEGEND





PROP. CHANNEL REALIGNMENT
 PI STA. = 0+64.66
 $\Delta = 72^\circ 52' 29''$ (RT)
 $D = 161' 21' 53''$
 $R = 35.51'$
 $T = 26.21'$
 $L = 45.16'$
 $E = 8.63'$
 P.C. STA = 0+38.45
 P.T. STA = 0+83.61



CHANNEL DETAIL

QUANTITY CLASS A4 RIPRAP CHANNEL LINING = 553 SQ. YD.
 QUANTITY CLASS A4 RIPRAP WITHIN STRUCTURE = 243 SQ. YD.

NOTE: PROPOSED CHANNEL EXCAVATION SHALL BE USED TO FILL THE EXISTING CHANNEL
 ALL EXCESS CHANNEL EXCAVATION SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR.

MEADOWBROOK STA. 172+95.00, 52.03' RT. =
 STREAM ϕ STA. 1+75.47
 MEADOWBROOK STA. 172+94.32, 56.94' RT. =
 STREAM ϕ STA. 1+80.43
 PROP. CHANNEL EXCAVATION = 365 CU YD

FILE NAME = ...sheets\channel realignment.dgn	USER NAME = Rob Heady	DESIGNED - EDS / JMM	REVISED -
		DRAWN - GLD	REVISED -
		CHECKED - JMM	REVISED -
		DATE - 08/2008	REVISED -

**MEADOWBROOK ROAD
 CITY OF SPRINGFIELD
 SPRINGFIELD, ILLINOIS**

CHANNEL REALIGNMENT PLAN

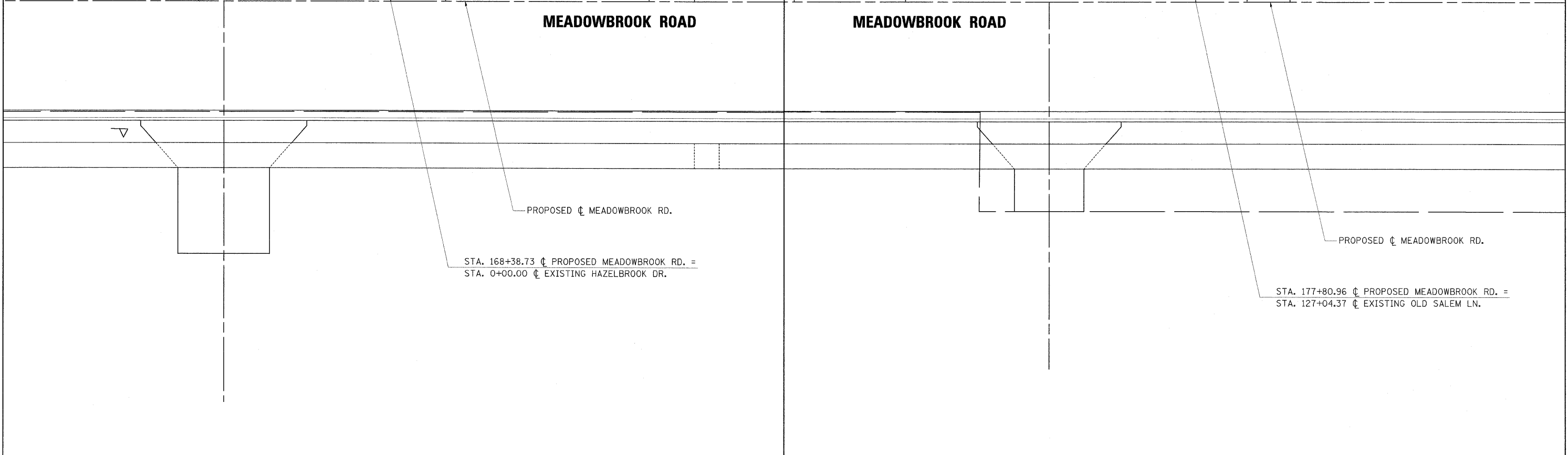
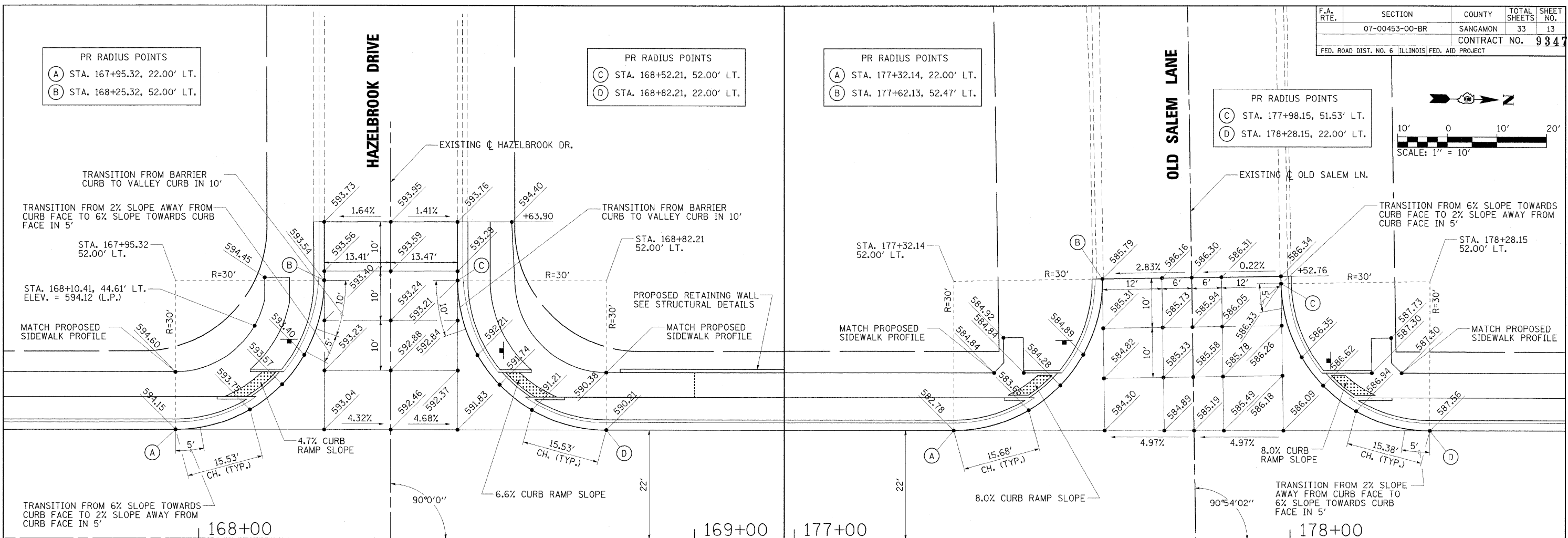
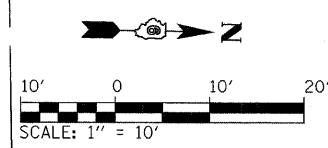
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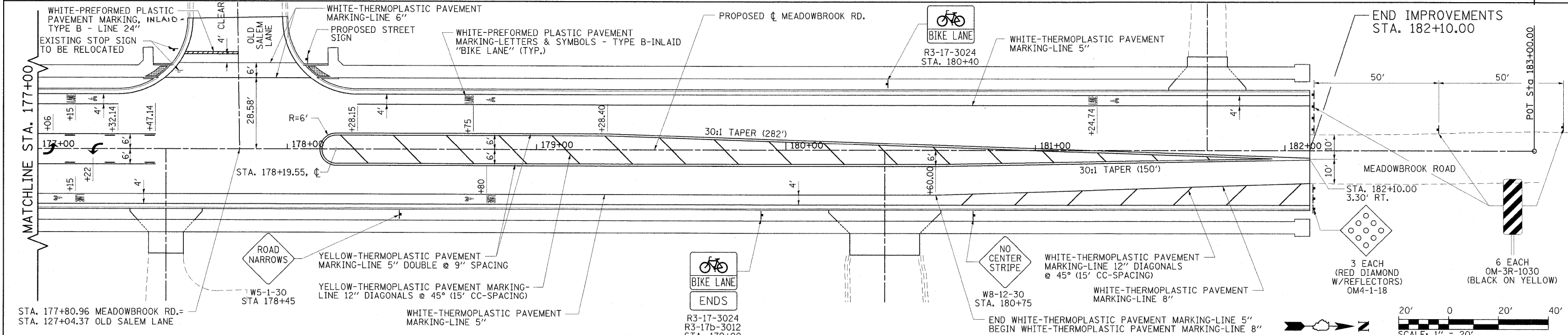
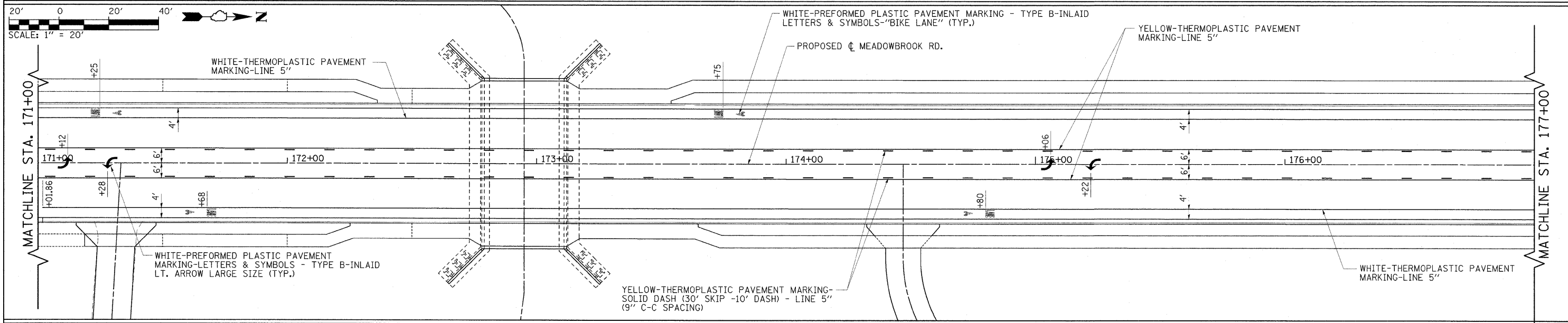
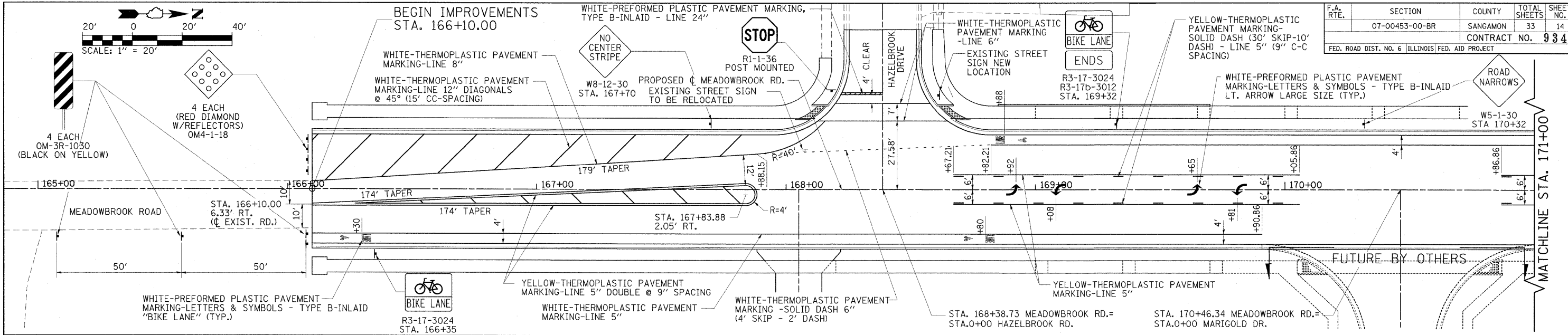
PR RADIUS POINTS
 (A) STA. 167+95.32, 22.00' LT.
 (B) STA. 168+25.32, 52.00' LT.

PR RADIUS POINTS
 (C) STA. 168+52.21, 52.00' LT.
 (D) STA. 168+82.21, 22.00' LT.

PR RADIUS POINTS
 (A) STA. 177+32.14, 22.00' LT.
 (B) STA. 177+62.13, 52.47' LT.

PR RADIUS POINTS
 (C) STA. 177+98.15, 51.53' LT.
 (D) STA. 178+28.15, 22.00' LT.





F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00453-00-BR	SANGAMON	33	15
CONTRACT NO. 93476				
FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT				

Sheet 1 of 9 Sheets

BENCH MARKS:

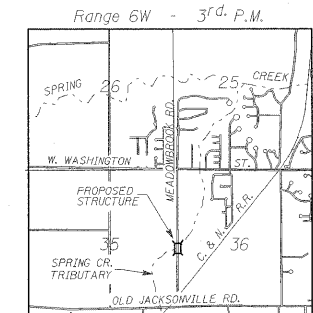
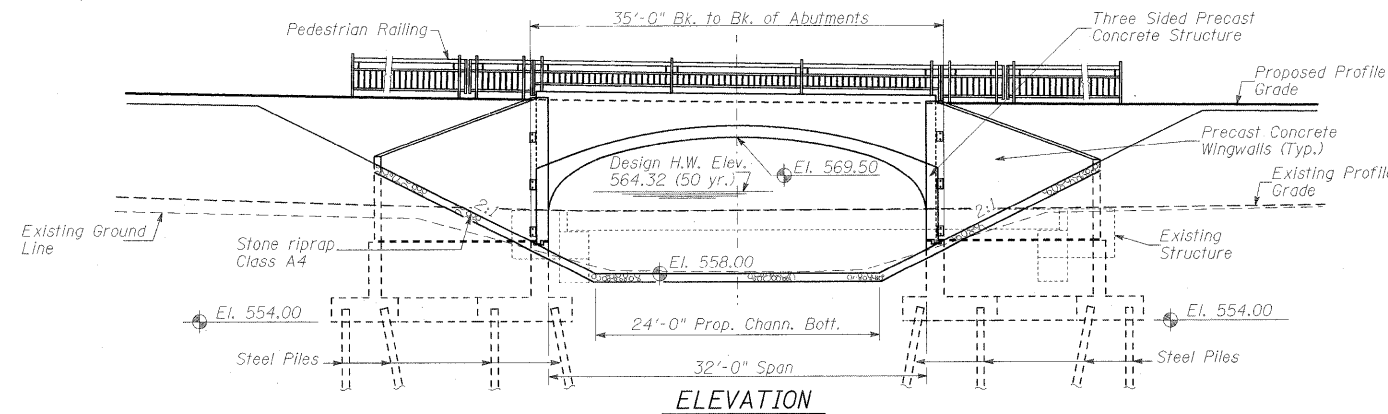
Chiseled "□" N.W. Abutment of Existing Bridge over Spring Creek Tributary at Meadowbrook Rd. Elev. = 563.08

EXISTING STRUCTURE:

Original structure was a single span reinforced concrete deck beam bridge on concrete abutments with bk.-to-bk. of abutment length of ±22'-0". The structure was widened in 1990 under Section 89-13112-00-BR, on both sides using prestressed concrete deck beams on concrete anchor blocks with bk.-to-bk. of anchor block length of 43'-0". Existing total clear deck width is 24'-10". No skew.

PROPOSED IMPROVEMENTS:

Existing structure to be removed and replaced with a three-sided precast concrete structure on pile supported reinforced concrete foundations. The road will be closed to traffic during construction period. No salvage of existing structure.



NAME PLATE
See Std. 515001

SPRING CREEK TRIBUTARY
BUILT 200 BY
CITY OF SPRINGFIELD
SEC. 07-00453-00-BR
STATION 172+95.00
STR. NO. 084-6015 LOADING HS 20

DESIGN SPECIFICATIONS

2002 AASHTO "Standard Specifications for Highway Bridges"

DESIGN STRESSES

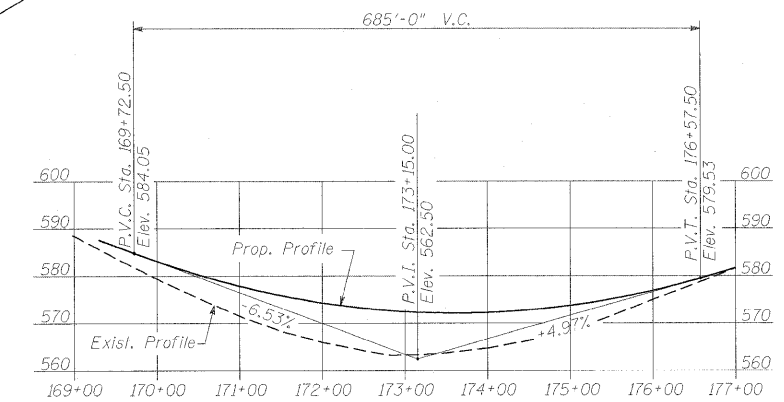
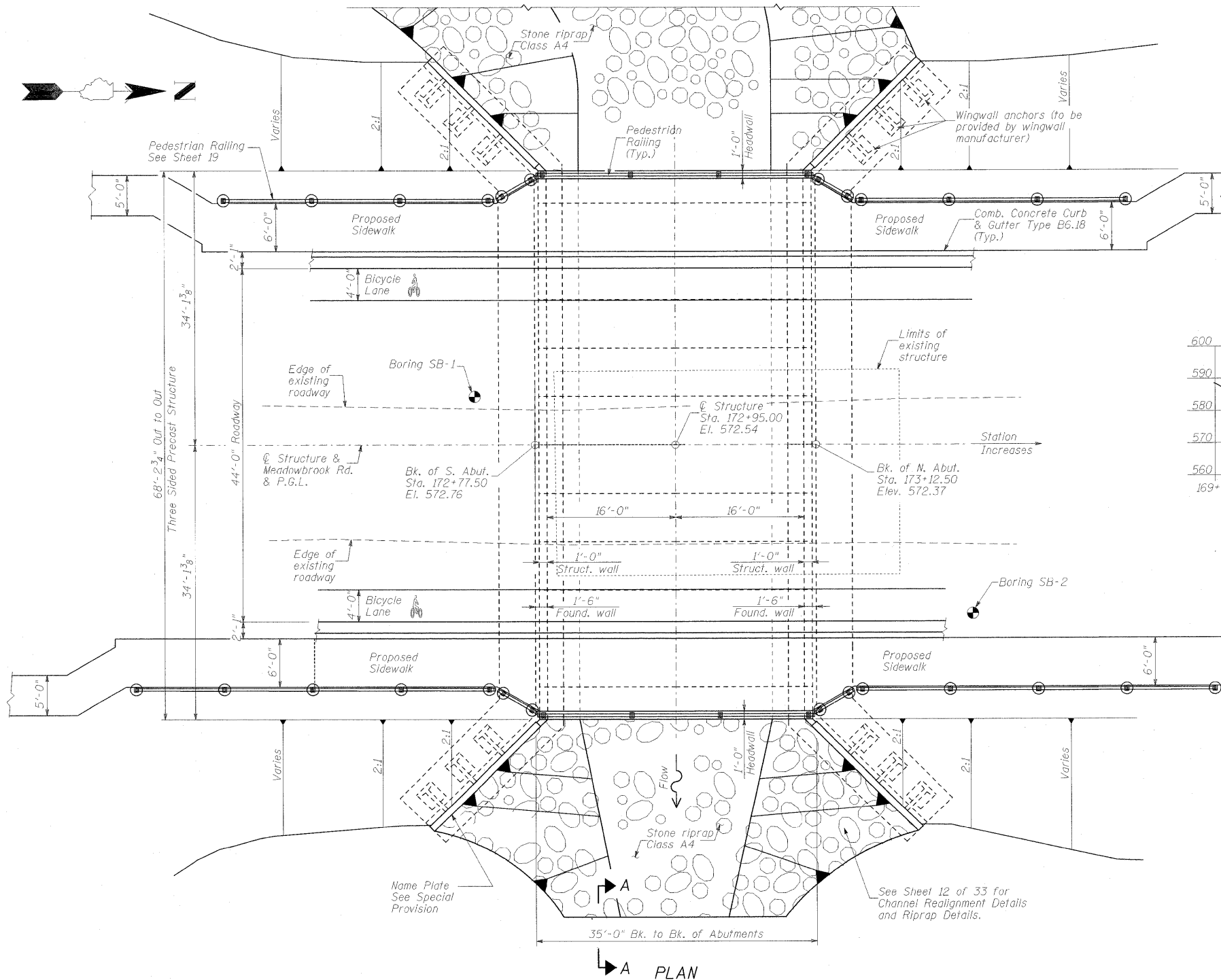
FIELD UNITS

f'_c = 3,500 psi (Cast-in-place)
 f'_c = 4,000 psi (Precast)
 f_y = 60,000 psi (reinforcement)
 f_y = 36,000 psi (AASHTO M270 Grade 36)

SEISMIC DATA

Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.05
 Site Coefficient (S) = 1.2

LOADING HS20-44



BORING DATA

BORING NO.	STATION	OFFSET
SB-1	172+70	8' LT. ϕ
SB-2	173+32	19' RT. ϕ

I certify that to the best of my knowledge, information and belief, this bridge 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 "AASHTO Standard Specifications for Highway Bridges."



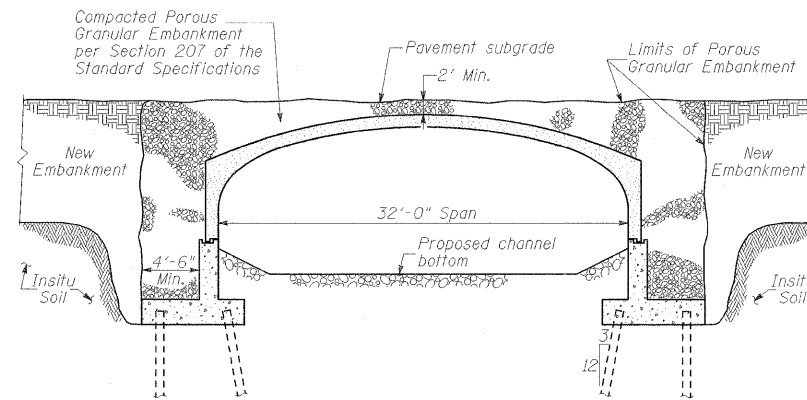
William L. Bailey, Jr.
 William L. Bailey, Jr., P.E., S.E.
 Illinois Licensed Structural Engineer
 License Number: 081-005087
 Expiration Date: November 30, 2008

GENERAL NOTES

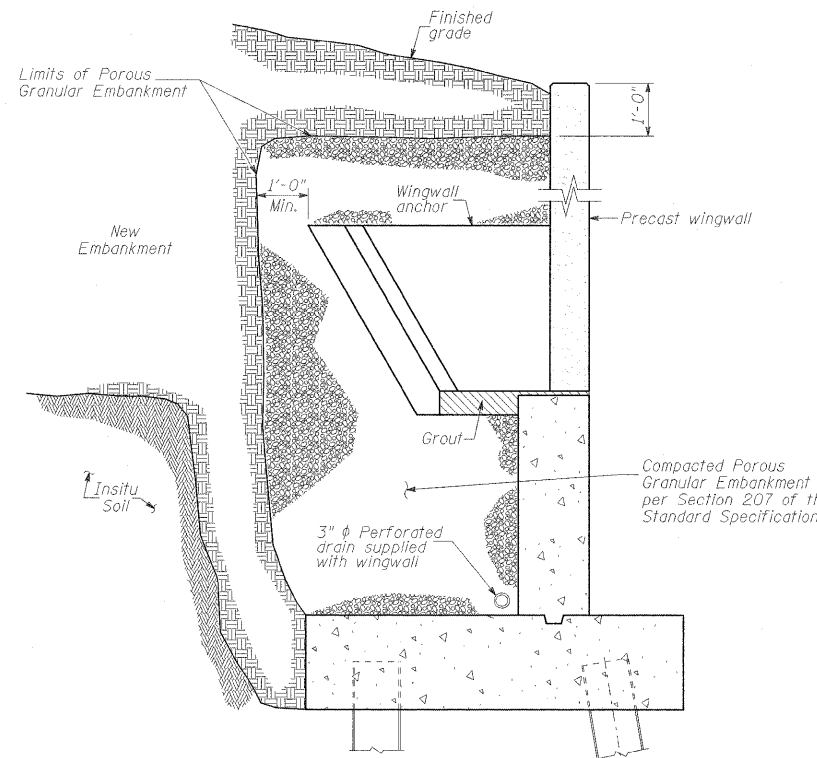
- Reinforcement bars shall conform to the requirements of ASTM A706, Grade 60, See Special Provisions.
- Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
- The Contractor shall drive one steel HP 12x53 test pile to 110% of the nominal required bearing specified in a permanent location at the North abutment as directed by the Engineer before ordering the remainder of piles.
- Each precast unit shall be clearly marked by waterproof paint. The following shall be shown on the inside of the vertical leg of the units:
 - Unit span x Rise
 - Date of manufacture
 - Name or trademark of the manufacturer.

CONSTRUCTION REQUIREMENTS

- The Three Sided Precast Concrete Structures shall be installed on pile supported cast-in-place concrete footings as detailed in the Plans. The foundation walls shall be given a smooth float finish and shall reach a compressive strength of 2,500 psi before placement of precast concrete sections. The completed foundation surface shall be constructed in accordance with grades shown on the plans. When tested with a 10-foot straight edge, the surface shall not vary more than 1/4 inch in 10 feet. Precast concrete foundations may not be substituted for cast-in-place foundations.
- The Three Sided Precast Concrete Structures shall be placed as shown on the Plans. Special care shall be taken in setting the precast concrete structures to the true line and grade. The structures shall be set on 6" x 6" masonite or steel shims. A minimum of 1/2 inch gap shall be provided between the foundation and the bottom of the structures vertical legs. The gap shall be filled with cement grout. (Portland cement and water or cement mortar composed of one part Portland cement and three parts of sand, by volume, and water.) See structure manufacturer's instructions.
- The butt joint made by two adjoining structure segments shall be covered with a 7/8" x 1 3/8" (1/4" round equivalent) piece of butyl rope and a minimum of a 9-inch wide joint wrap. The surface shall be free of dirt before applying the joint material. A primer compatible with the joint wrap to be used shall be applied for a minimum width of nine inches on each side of the joint. The external wrap shall be either EZ-WRAP RUBBER by PRESS-SEAL GASKET CORPORATION, SEAL WRAP by MAR MAC MANUFACTURING CO. INC. or approved equal. The joint shall be covered continuously from the bottom of one structure segment leg, across the top of the arch and to the opposite structure segment leg. Any laps that result in the joint wrap shall be a minimum of six inches long with the overlap running downhill.
- In addition to the joints between segments, the joint between the end units and the headwalls shall also be sealed. The joint between the end structure segments and the wingwalls shall be sealed with this type of wrap or at the discretion of the Engineer filter fabric may be substituted.
- During the backfilling operation, care shall be taken to keep the joint wrap in its proper location over the joint.
- Backfill shall be considered as all replaced and new embankment adjacent to the Three Sided Precast Concrete Structure units and wingwalls. The 1001 Standard Specifications, which include the specifications for excavation for structures and roadway excavation and embankment construction, shall apply except as modified herein. No backfill shall be placed against any structural elements until they have been approved by the Engineer.
- Mechanical tampers or approved compacting equipment shall be used to compact all backfill and embankment immediately adjacent to each side of the structure and over the top of the structure until it is covered to a minimum depth of one foot. The backfill within four feet of each side of the structure shall be placed in lifts of eight inches or less (loose depth). Heavy compaction equipment shall not be operated in this area or over the structure until it is covered to a depth of one foot. See Backfill Limits Detail this sheet.
- Lightweight dozers and graders may be operated over the structure having one foot of compacted cover, but heavy earth moving equipment (larger than a D-4 Dozer weighing in excess of 12 tons and having track pressures of eight psi or greater) shall require two feet of cover unless the design cover is less than two feet. In no case shall equipment operating in excess of the design load (HS 20) be permitted over the structure unless approved by the precast structure manufacturer.
- Any additional fill and subsequent excavation required to provide this minimum cover shall be made at no additional cost to the project.
- As a precaution against introducing unbalanced stresses in the culvert when placing backfill, at no time shall the difference between the heights of fill on opposite sides of the structure exceed 24 inches.
- Backfill in front of wingwalls shall be carried to finish grade lines shown in the Plans.



ELEVATION - BRIDGE BACKFILL/EMBANKMENT REQUIREMENTS



WINGWALL BACKFILL/EMBANKMENT REQUIREMENTS

TOTAL BILL OF MATERIAL

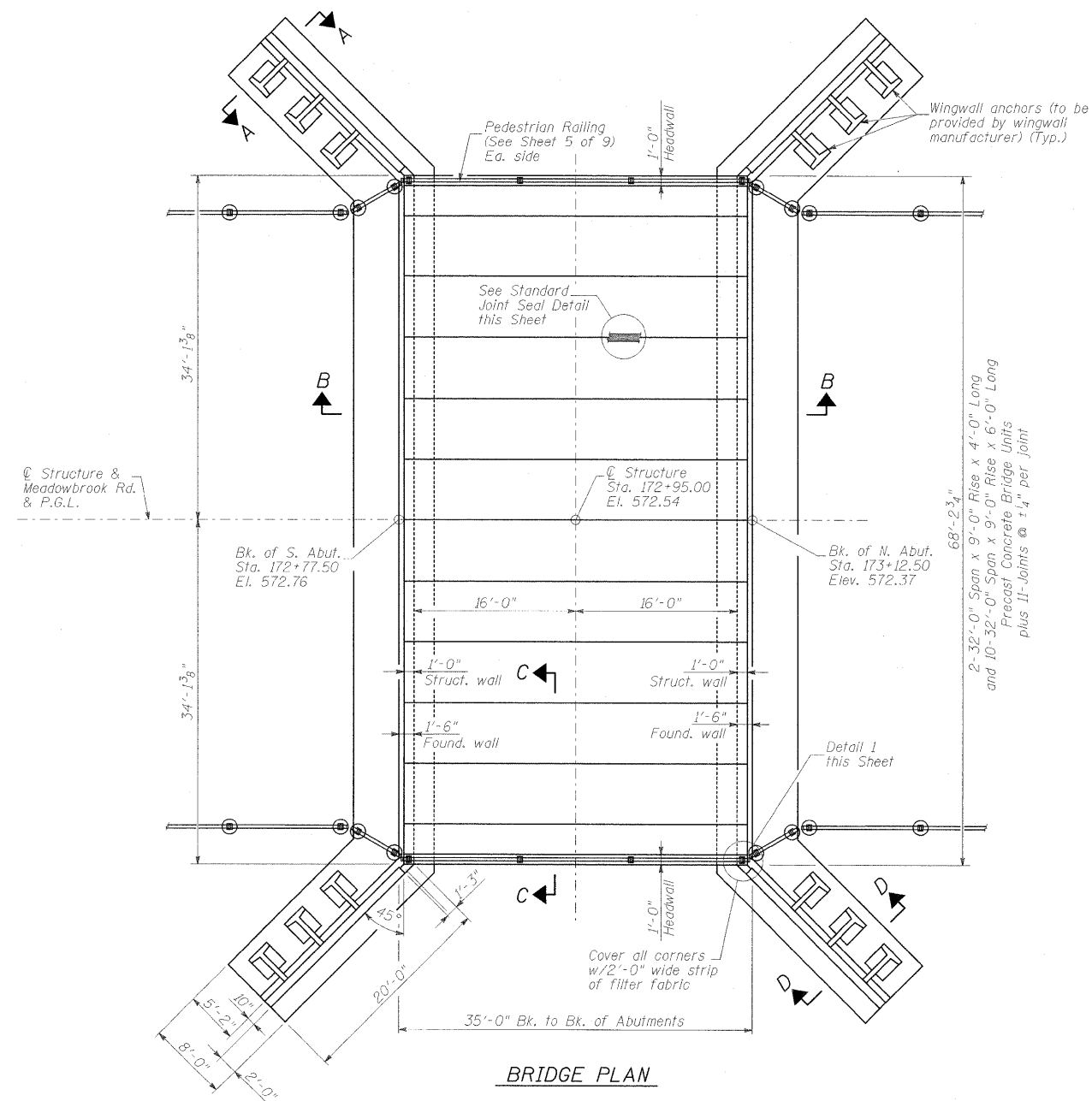
ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment	Ton		1186	1186
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		920	920
Concrete Structures	Cu. Yd.		180.0	180.0
Reinforcement Bars, Epoxy Coated	Pound		20,260	20,260
Furnishing Steel Piles HP 12x53	Foot		635	635
Driving Piles	Foot		635	635
Test Pile Steel HP 12x53	Each		1	1
Name Plates	Each		1	1
Pedestrian Railing	Foot	246		246
Three Sided Precast Concrete Structures, 32'x9'	Foot	68		68
Precast Concrete Substructure	L. Sum		1	1

WATERWAY INFORMATION TABLE

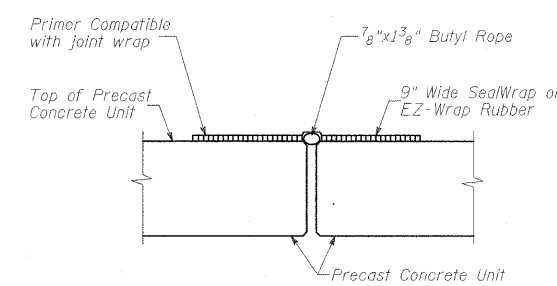
Flood		Freq. (year)	Q (cfs)	Opening (Sq. Ft.)		Natural HWE	Head (FT.)		Head Water Elev.	
				Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
DESIGN		50	1315	416*	235	565.47	0.24	-0.05	565.71	565.42
BASE		100	1521	485*	244	565.83	0.18	-0.08	566.01	565.75
OVER TOPPING		-	-	-	-	-	-	-	-	-
MAX CALC.		500	2050	673*	265	566.60	0.14	-0.14	566.74	566.46

* Area includes roadway overtopping. Existing structure opening is 86 Sq. Ft.

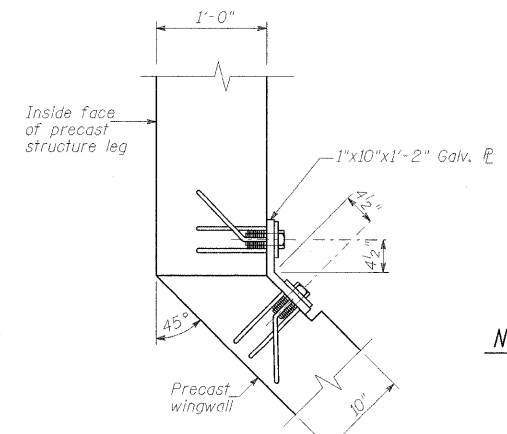
IDNR/OWR has issued Permit DS2008044 for construction of this project.



BRIDGE PLAN

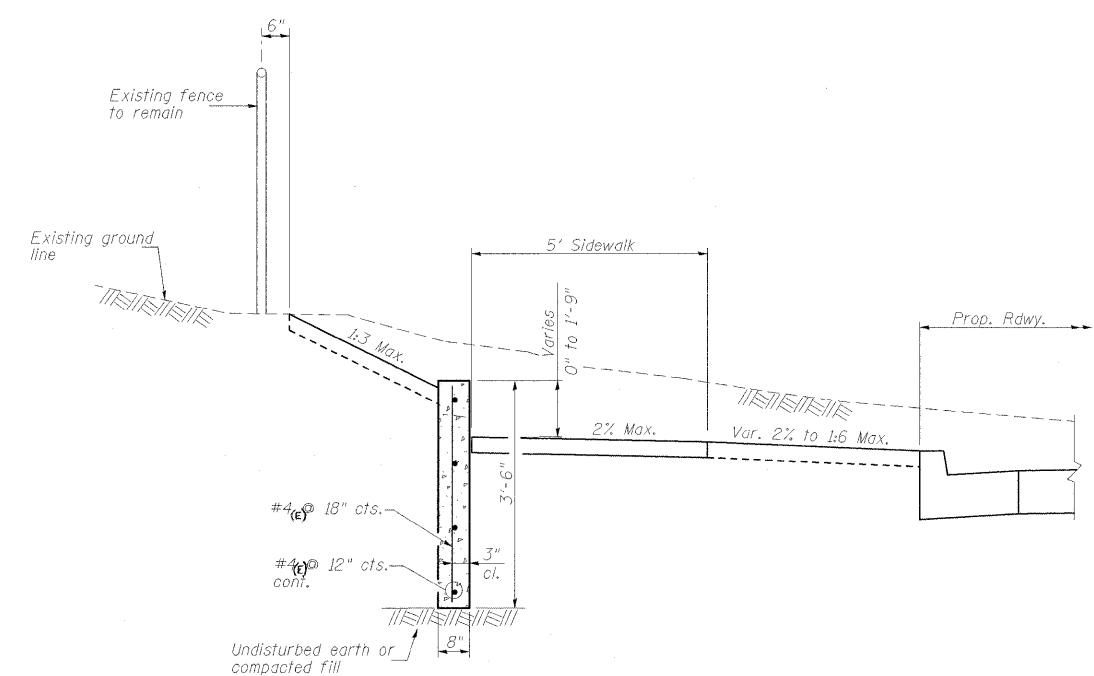


STANDARD JOINT SEAL DETAIL



DETAIL - 1

NOTE:
Wingwall connectors to be provided by precast manufacturer.

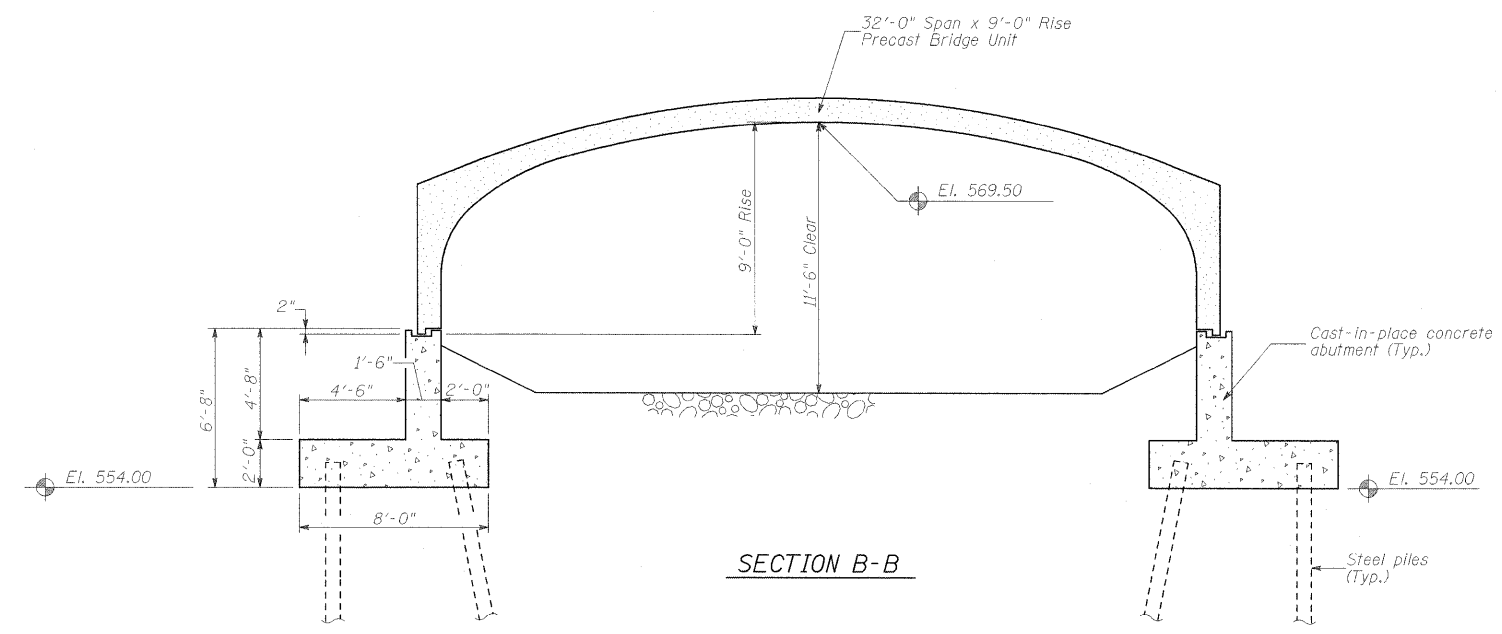


CONCRETE RETAINING WALL DETAIL

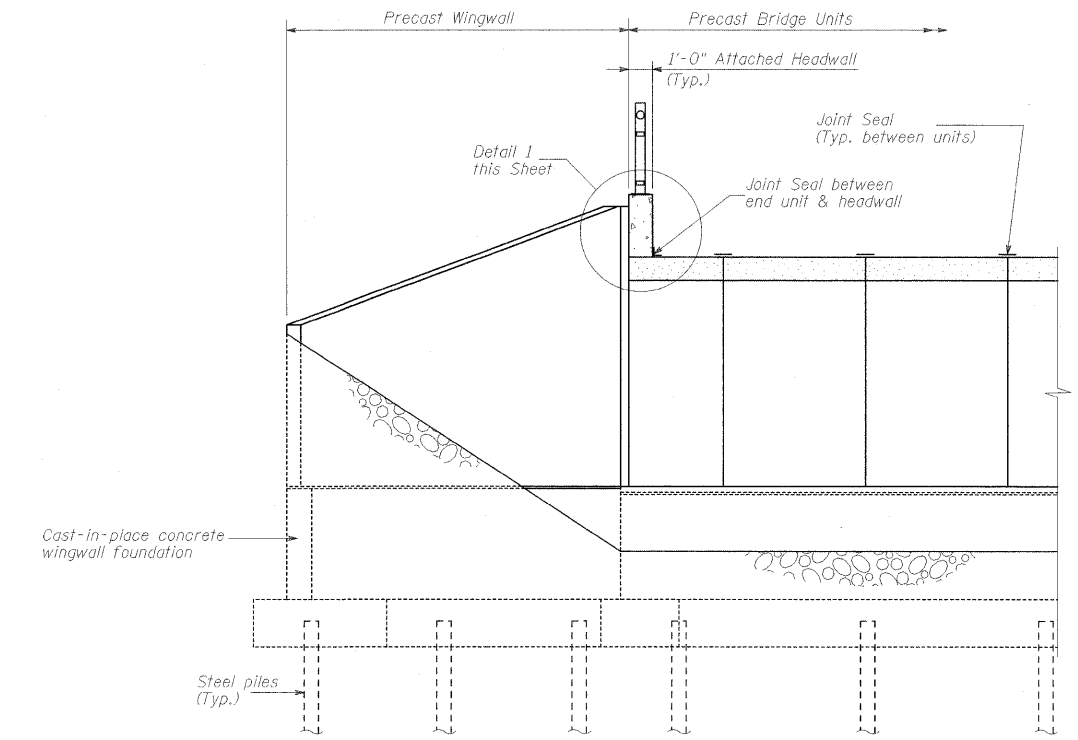
STA. 168+85.00, LT. TO STA. 169+70.00, LT.
(APPROX. QTY'S: Concrete Structures = 8.0 C.Y.
Reinforcement Bars, Epoxy C'd = 365 LBS.)

- NOTES:**
1. See Sheet 6 of 9 for Section A-A.
 2. See Sheet 7 of 9 for Section D-D.
 3. See Sheet 4 of 9 for End Elevation, Section B-B and Section C-C.

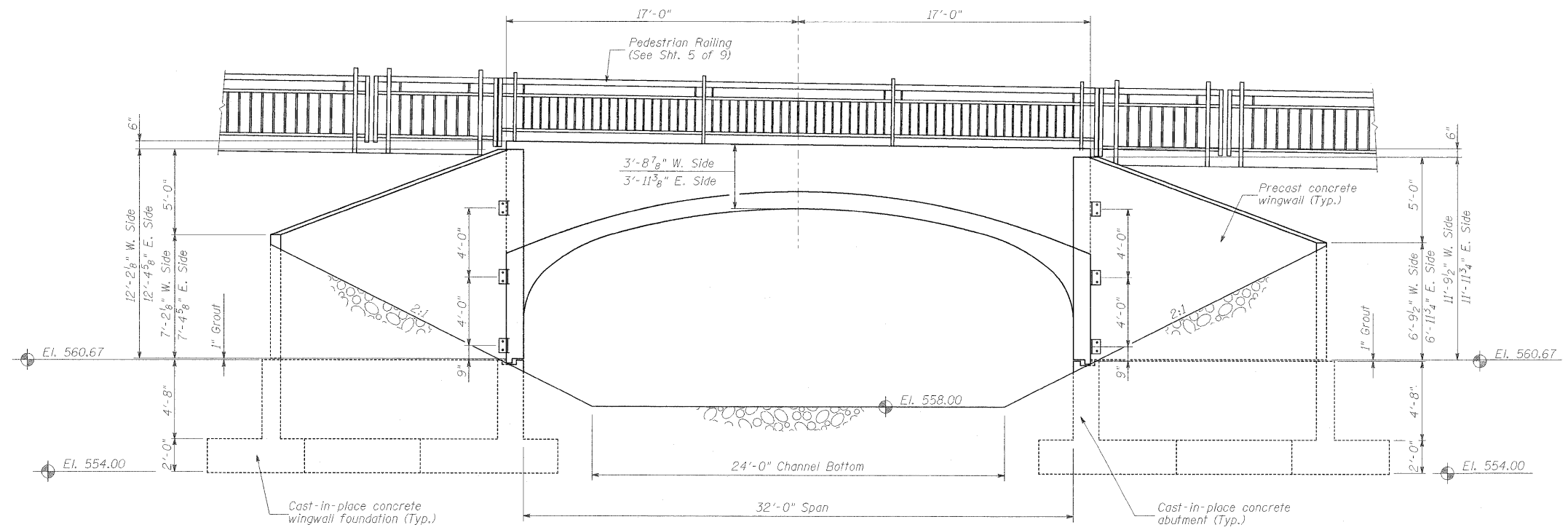
FILE NAME = ...draw\sheets\Bridge Plan.dgn	USER NAME = Rob Healdj	DESIGNED - WLB / WK	REVISIONS -	MEADOWBROOK ROAD CITY OF SPRINGFIELD SPRINGFIELD, ILLINOIS	BRIDGE PLAN - RETAINING WALL STATION 172+95.00 S.N. 084-6015 MEADOWBROOK RD. (TR 194) OVER SPRING CREEK TRIBUTARY	
PLOT SCALE = 8,0000 "/ IN.	DRAWN - GLD	REVISIONS -	SCALE: N/A			SHEET NO. 17 OF 33 SHEETS
PLOT DATE = 10/9/2008	CHECKED - WLB	REVISIONS -	STA. N/A			TO STA. N/A
	DATE - 10/2008	REVISIONS -				



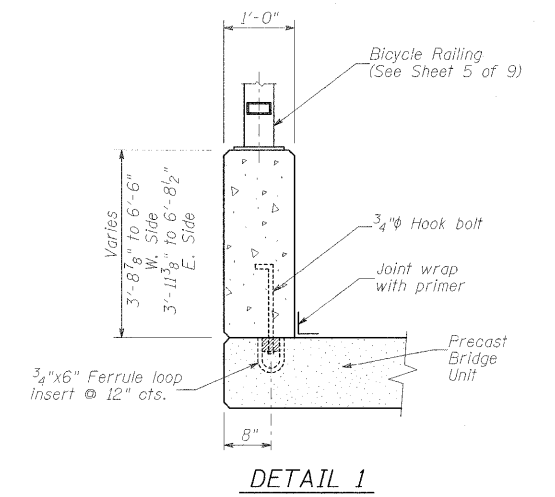
SECTION B-B



SECTION C-C



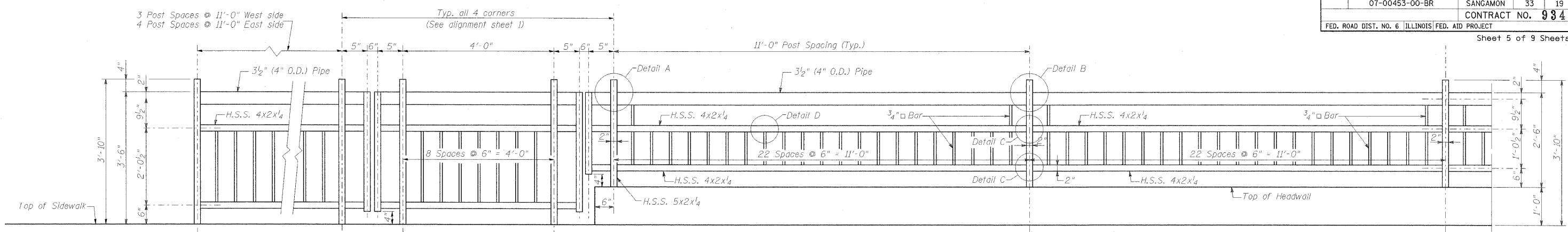
END ELEVATION



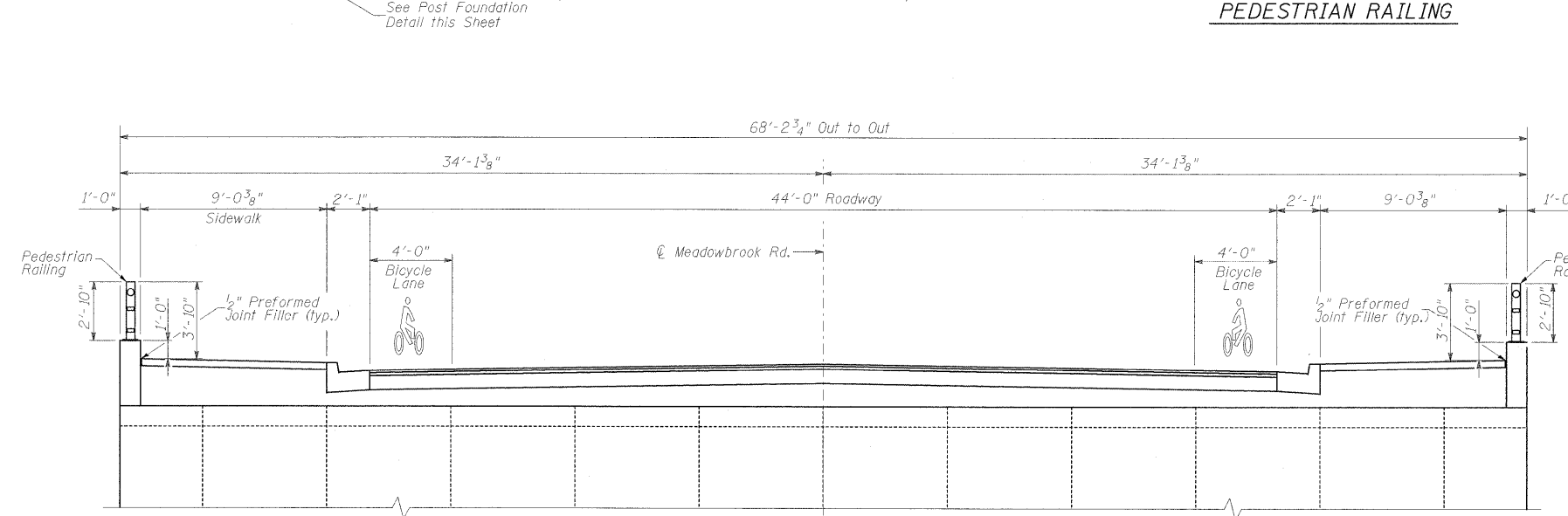
DETAIL 1

- NOTES:**
- See Sheet 3 of 9 for location of Section B-B and Section C-C.
 - See Sheets 6 of 9 and 7 of 9 for abutment and wingwall foundation details.

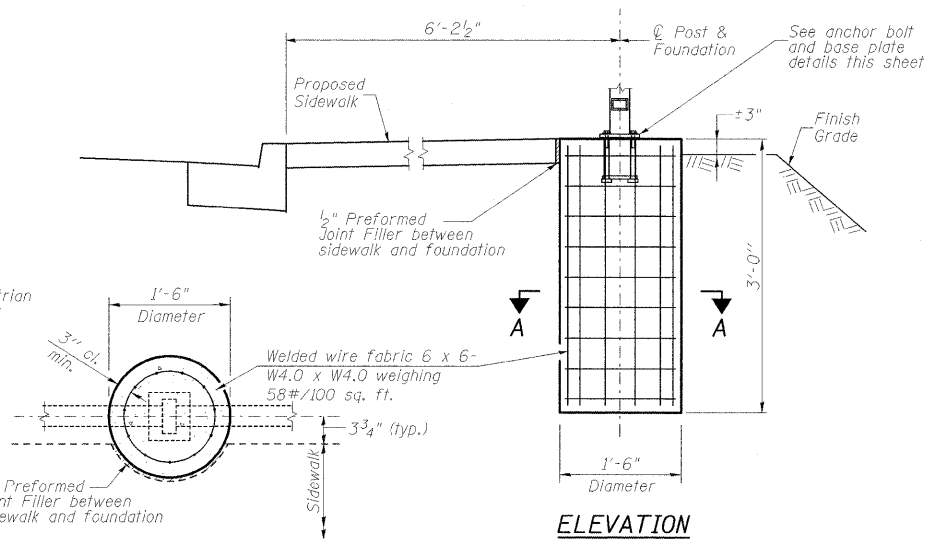
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...Bridge Elevation and Section.dgn		DRAWN - GLD	REVISED -		STATION 172+95.00 S.N. 084-6015	
		CHECKED - WLB	REVISED -		MEADOWBROOK RD. (TR 194) OVER SPRING CREEK TRIBUTARY	
		DATE - 10/2008	REVISED -		SCALE: N/A	SHEET NO. 18 OF 33 SHEETS
					STA. N/A	TO STA. N/A



PEDESTRIAN RAILING



SECTION THRU ROADWAY AT BRIDGE
(Looking North)



SECTION A-A
POST FOUNDATION

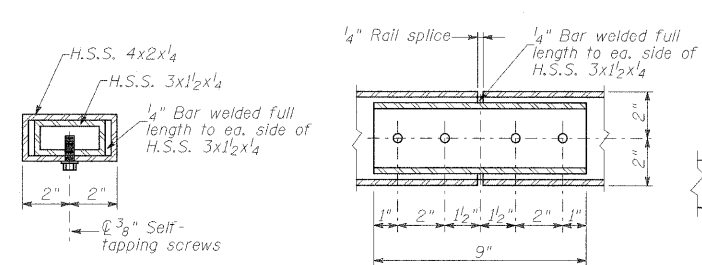
NOTE:
All necessary excavation, backfilling, disposal of unsuitable or surplus material, formwork and furnishing and placing the Class SI Concrete and reinforcement shall be included in the Pay Item "Pedestrian Railing".

BILL OF MATERIAL

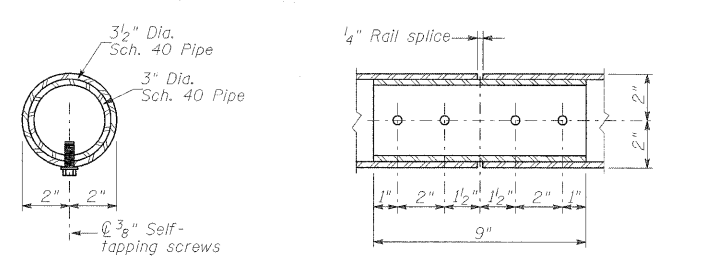
Item	Unit	Quantity
Pedestrian Railing	Foot	246

NOTES:

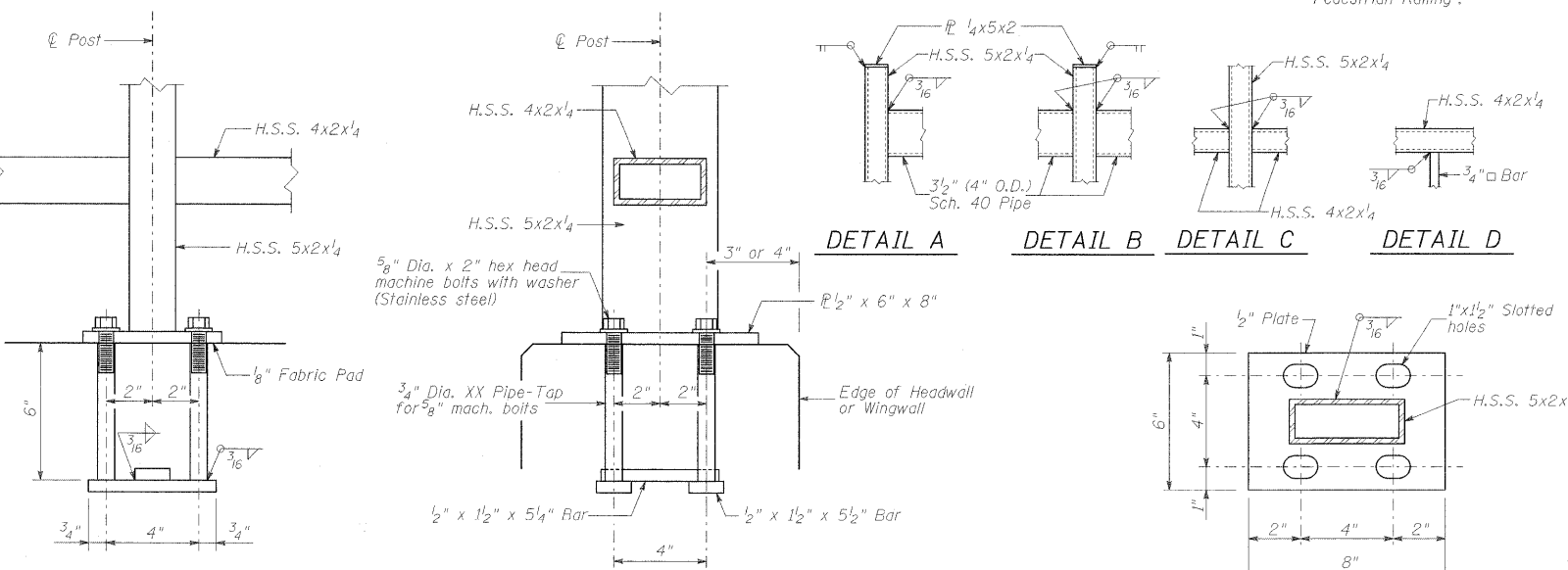
- Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the Contract Unit Price per foot for Pedestrian Railing.
- Hollow structural steel tubing shall conform to the requirements of ASTM designation A 500, Grade B, structural steel tubing.
- Hollow steel pipes shall conform to the requirements of ASTM A53 and shall be "standard weight."
- All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36.
- All posts, railing, splices, anchor devices, and bent plates shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. All bolts, nuts, washers, and anchor rods shall be galvanized according to AASHTO M 232 except stainless steel bolts as noted.
- Vent holes for galvanizing shall be placed in the posts and rails at locations that will not allow the accumulation of moisture in the members.
- If the option of drilling and epoxy grouting the anchor rods is chosen, the Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or the adhesive cartridge shall be sealed with premeasured amounts of the adhesive chemical.
- Space reinforcement to miss anchor rods.



RAIL SPLICE - HSS 4x2x4

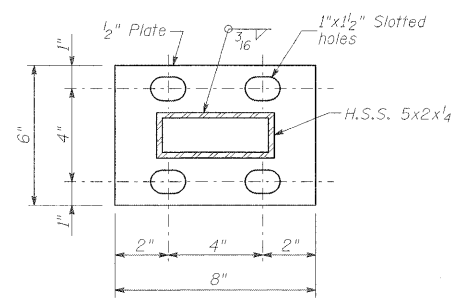


RAIL SPLICE - 3/2" (4" O.D.) PIPE

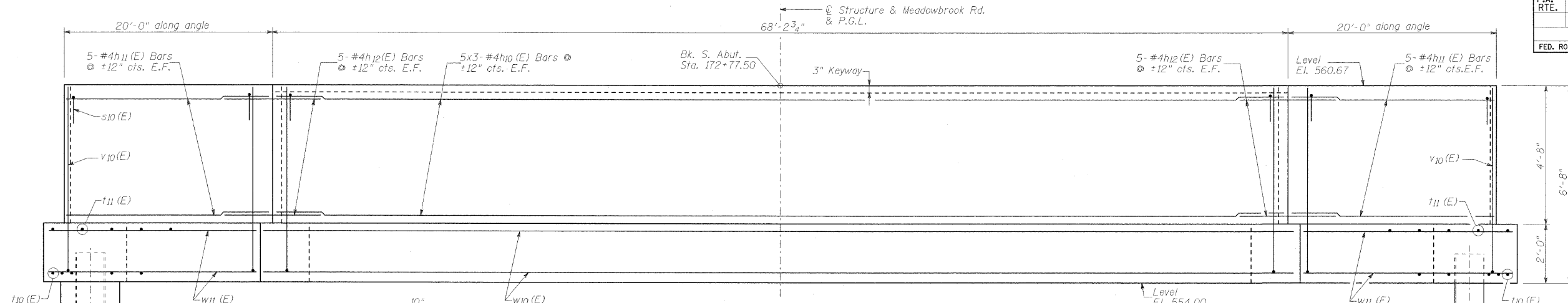


ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and epoxy grouting 3/8 inch dia. anchor rods. Embedment shall be according to the manufacturer's specifications.



BASE PLATE

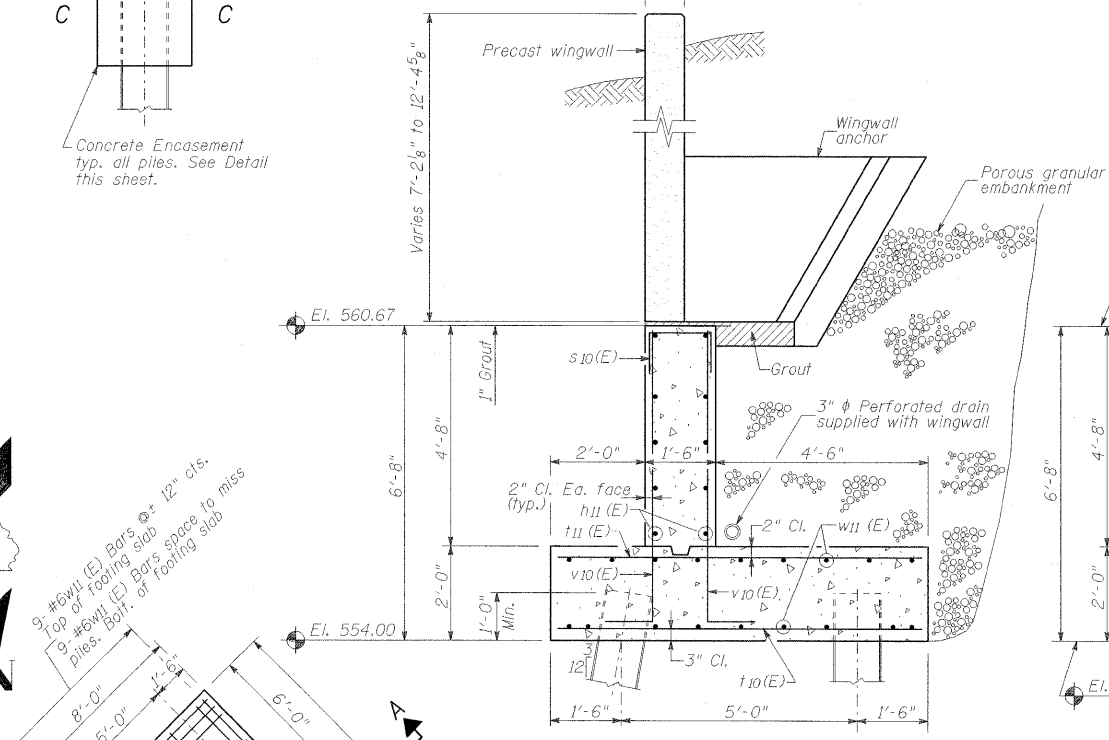


ELEVATION

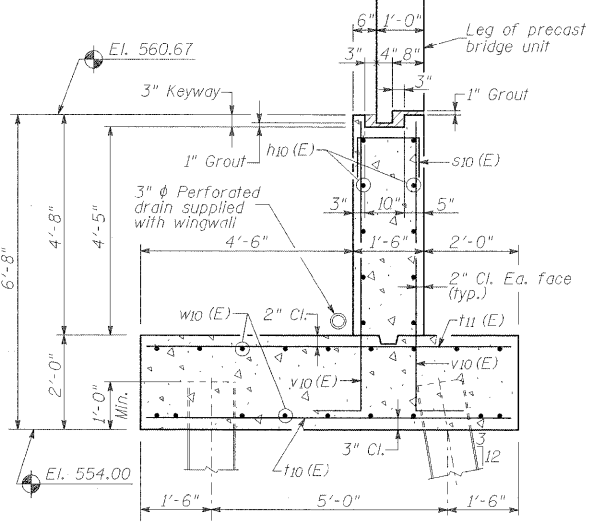
PILE DATA
 TYPE: STEEL HP 12x53
 NOMINAL REQUIRED BEARING: 419 KIPS
 ALLOWABLE RESISTANCE AVAILABLE: 140 KIPS
 EST. LENGTH: 11'
 NO. REQUIRED: 27
 STEEL H-PILES SHALL BE ACCORDING TO AASHTO M270 GRADE 50

SOUTH ABUT. BILL OF MATERIAL

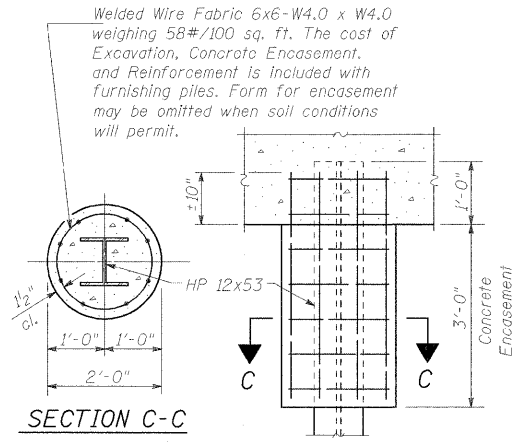
Bar	No.	Size	Length	Shape
h10(E)	30	#4	24'-0"	—
h11(E)	20	#4	19'-1"	—
h12(E)	20	#4	4'-0"	—
s10(E)	108	#5	2'-10"	—
t10(E)	110	#8	7'-8"	—
t11(E)	112	#6	7'-8"	—
v10(E)	220	#6	7'-1"	—
w10(E)	54	#6	25'-0"	—
w11(E)	36	#6	20'-6"	—
Concrete Structures		Cu. Yd.	90.0	
Reinforcement Bars, Epoxy Coated		Pound	10,130	
Structure Excavation		Cu. Yd.	460	
Furnishing Steel Piles HP 12x53		Foot	297	
Driving Piles		Foot	297	



SECTION A-A

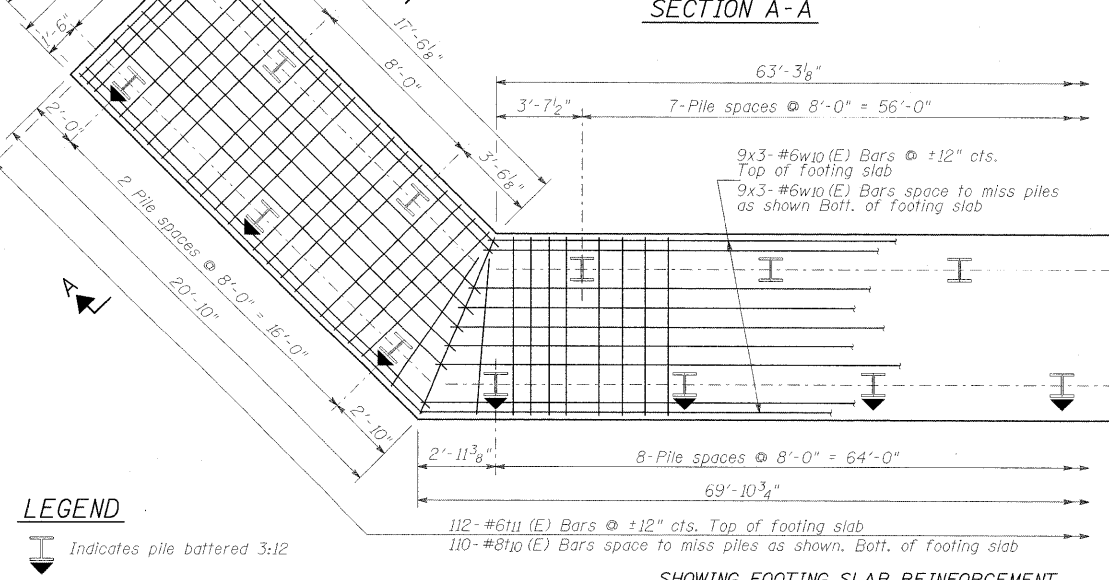


SECTION B-B



SECTION C-C

TYP. PILE ENCASEMENT DETAIL



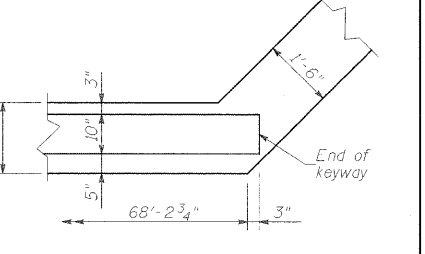
PLAN

LEGEND

Indicates pile battered 3:12

MIN. BAR LAP

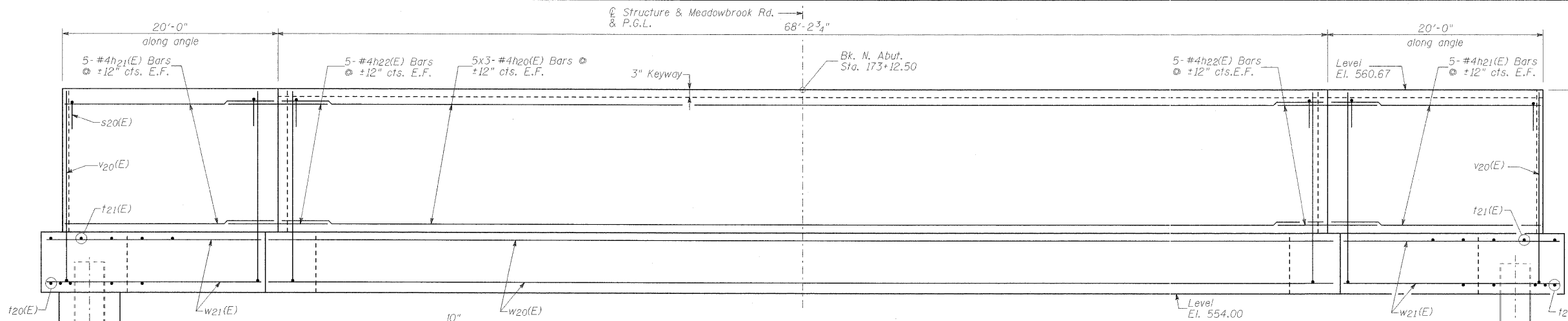
#4 bar = 1'-8"
 #6 bar = 2'-7"



DETAIL 1

NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Bars indicated thus 20x2-#5 etc. indicates 20 lines of bars with 2 lengths per line.

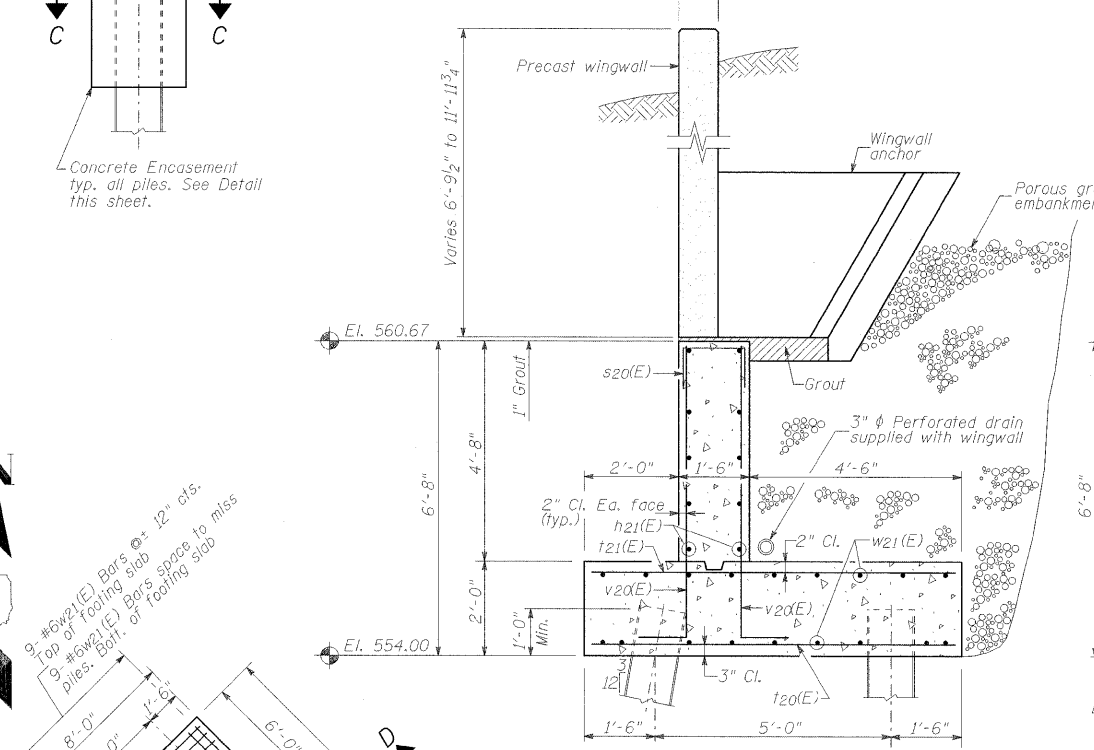


ELEVATION

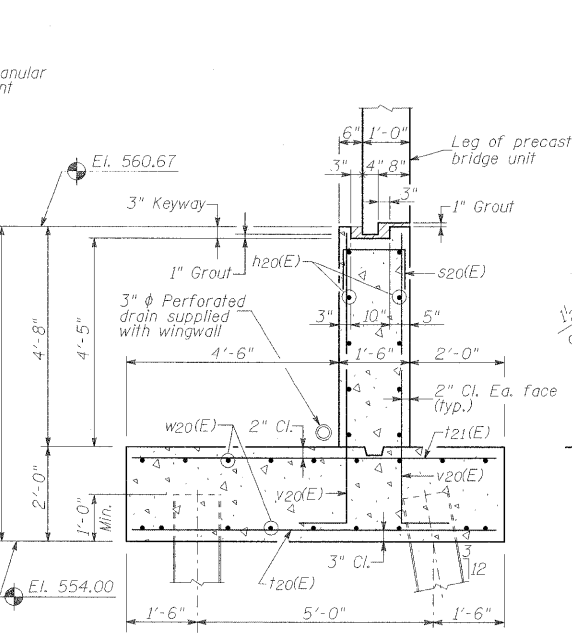
PILE DATA
 TYPE: STEEL HP 12x53
 NOMINAL REQUIRED BEARING: 419 KIPS
 ALLOWABLE RESISTANCE AVAILABLE: 140 KIPS
 EST. LENGTH: 13'
 NO. REQUIRED: 27 (INCLUDES 1 TEST PILE)
 STEEL H-PILES SHALL BE ACCORDING TO AASHTO M270 GRADE 50

NORTH ABUT. BILL OF MATERIAL

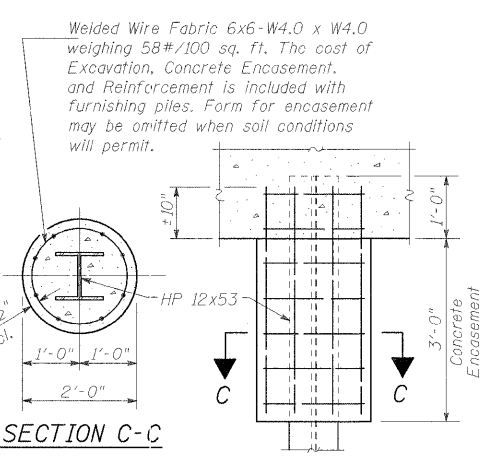
Bar	No.	Size	Length	Shape
h20(E)	30	#4	24'-0"	—
h21(E)	20	#4	19'-1"	—
h22(E)	20	#4	4'-0"	—
s20(E)	108	#5	2'-10"	┌
t20(E)	110	#8	7'-8"	—
t21(E)	112	#6	7'-8"	—
v20(E)	220	#6	7'-1"	┌
w20(E)	54	#6	25'-0"	—
w21(E)	36	#6	20'-6"	—
Concrete Structures		Cu. Yd.	90.0	
Reinforcement Bars, Epoxy Coated		Pound	10,130	
Structure Excavation		Cu. Yd.	460	
Furnishing Steel Piles HP 12x53		Foot	338	
Driving Piles		Foot	338	
Test Pile Steel HP 12x53		Each	1	



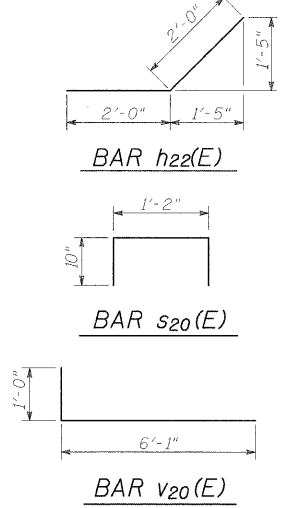
SECTION D-D



SECTION B-B



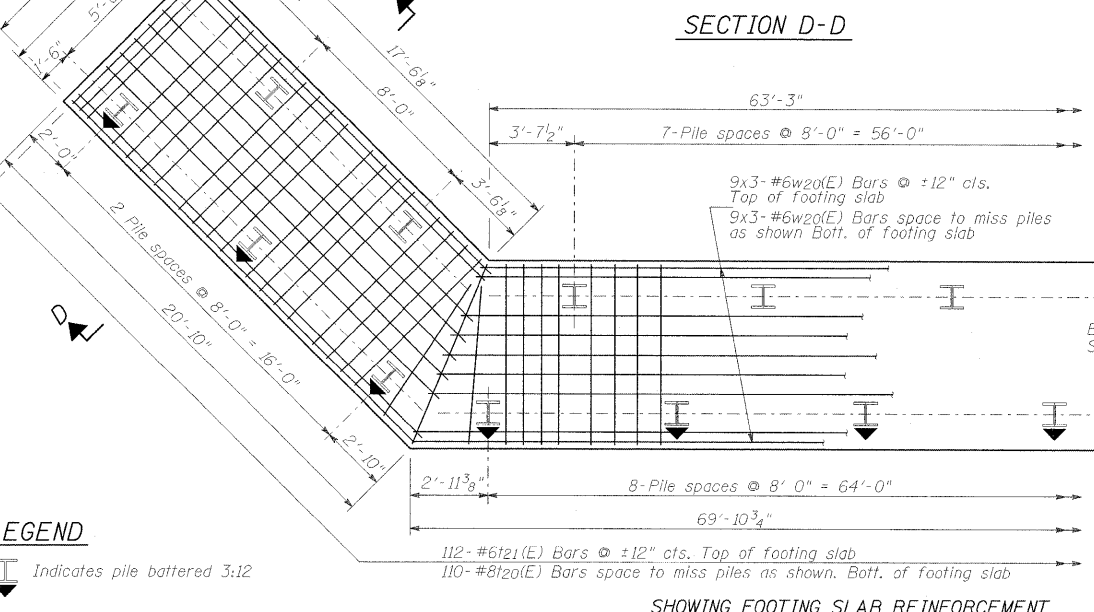
SECTION C-C
TYP. PILE ENCASEMENT DETAIL



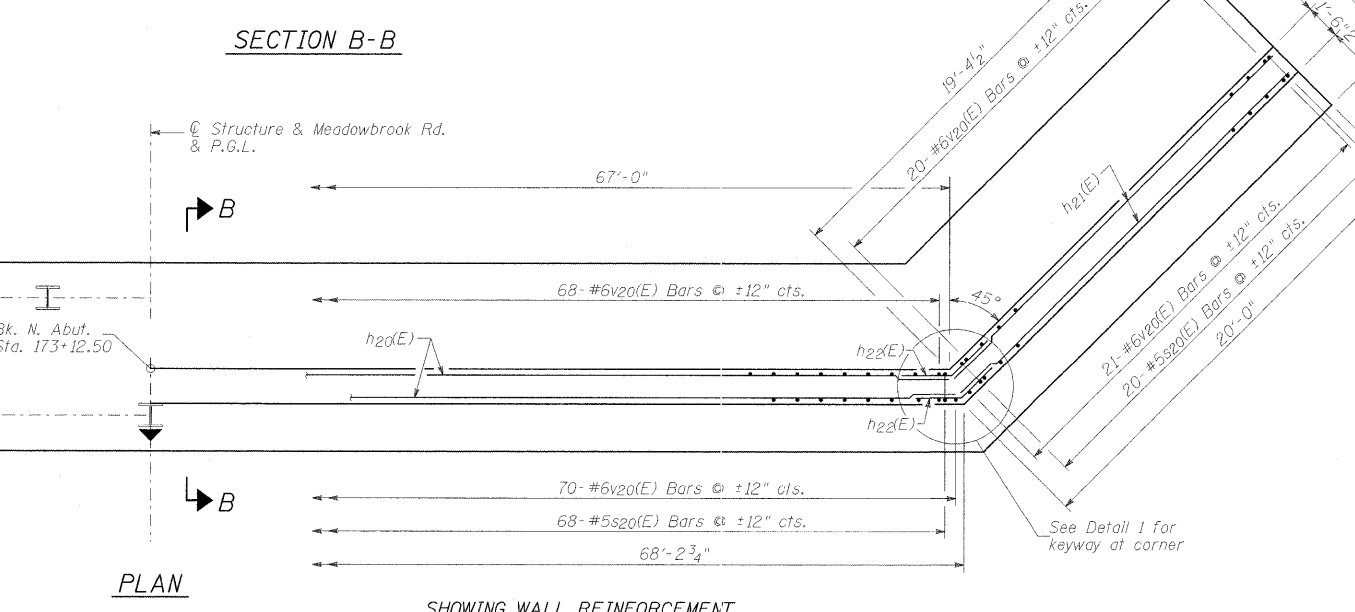
BAR h22(E)

BAR s20(E)

BAR v20(E)

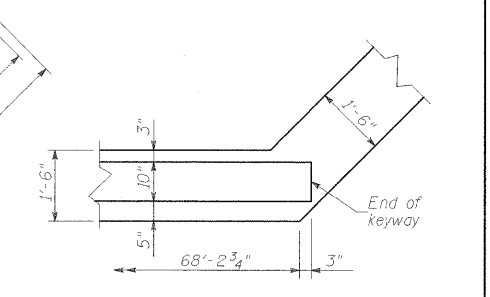


SHOWING FOOTING SLAB REINFORCEMENT



SHOWING WALL REINFORCEMENT

MIN. BAR LAP
 #4 bar = 1'-8"
 #6 bar = 2'-7"



DETAIL 1

NOTES:
 1. Reinforcement bars designated (E) shall be epoxy coated.
 2. Bars indicated thus 20x2-#5 etc. indicates 20 lines of bars with 2 lengths per line.

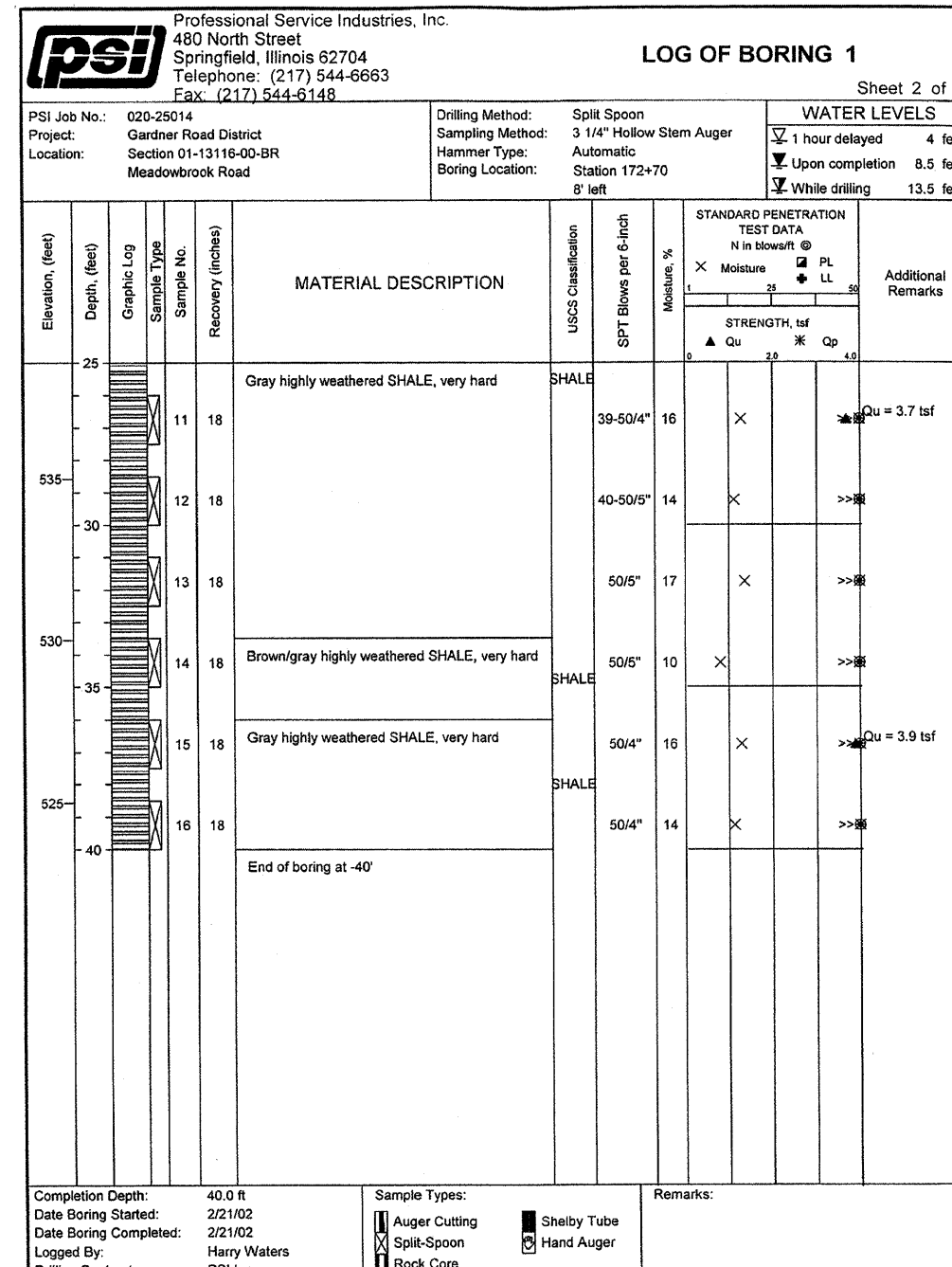
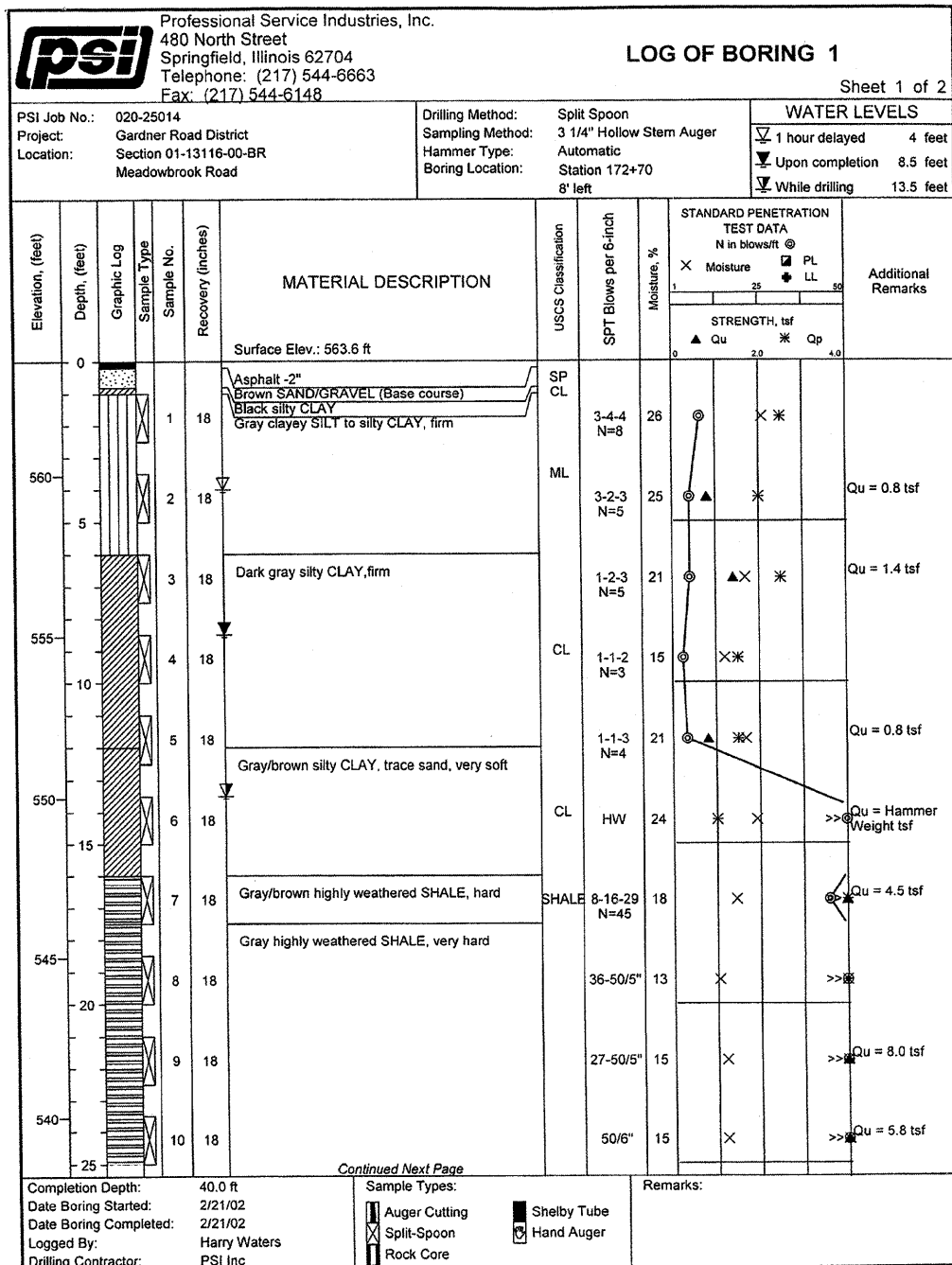
LEGEND

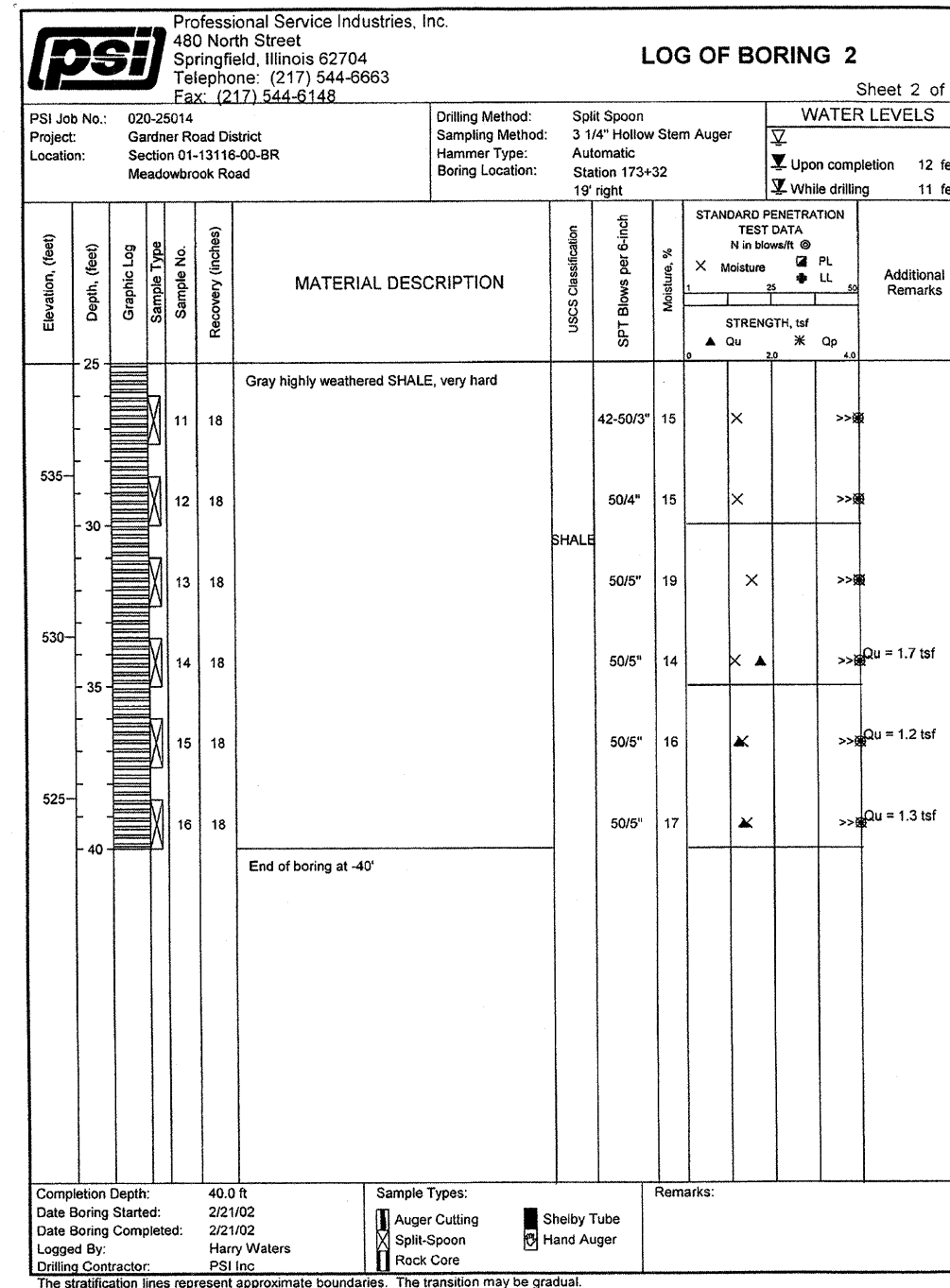
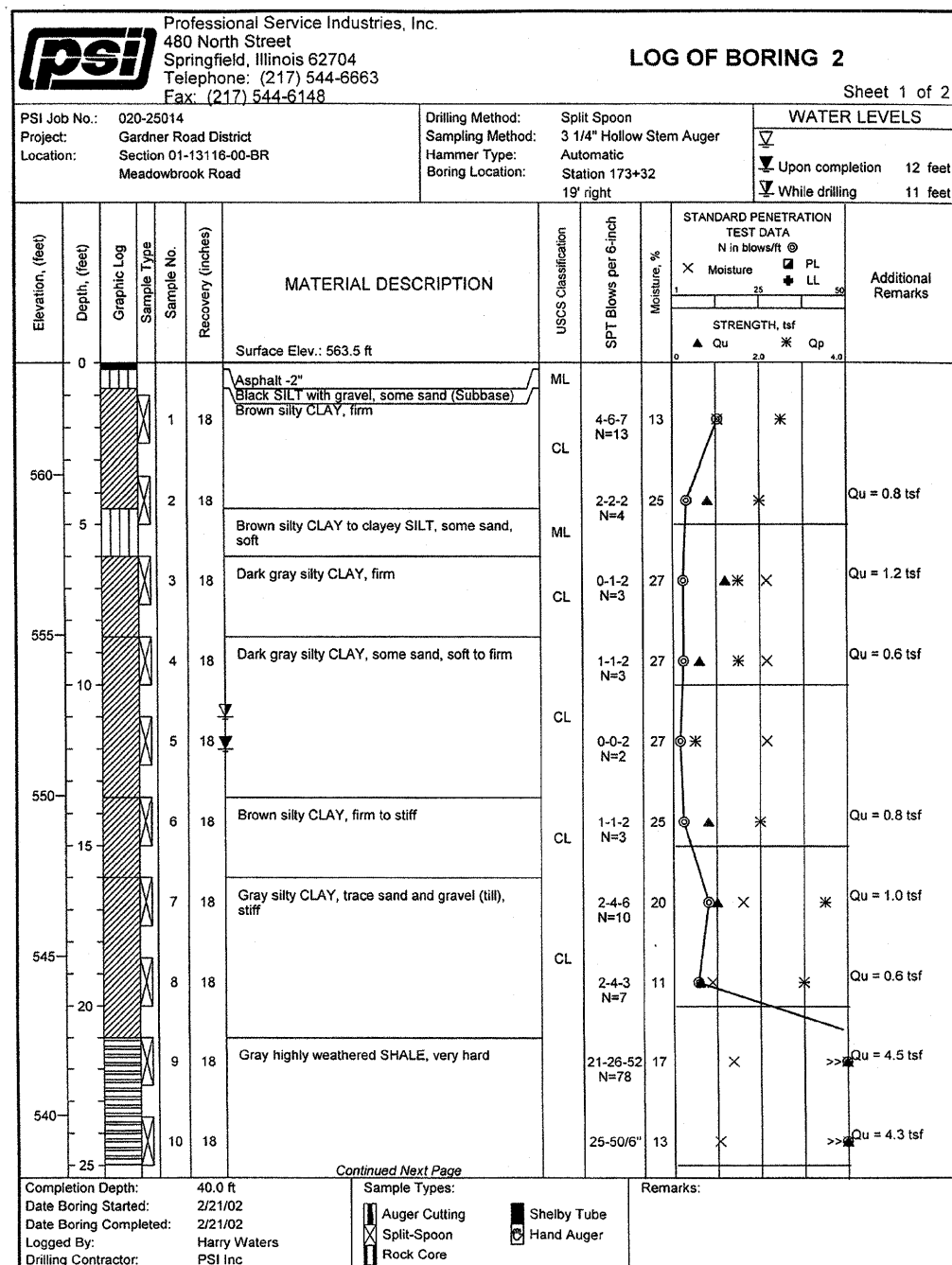
Indicates pile battered 3:12

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PLOT DATE = 10/8/2008	DATE - 10/2008		

**MEADOWBROOK ROAD
 CITY OF SPRINGFIELD
 SPRINGFIELD, ILLINOIS**

**NORTH ABUTMENT
 STATION 172+95.00 S.N. 084-6015
 MEADOWBROOK RD. (TR 194) OVER SPRING CREEK TRIBUTARY**
 SCALE: N/A SHEET NO. 21 OF 33 SHEETS STA. N/A TO STA. N/A

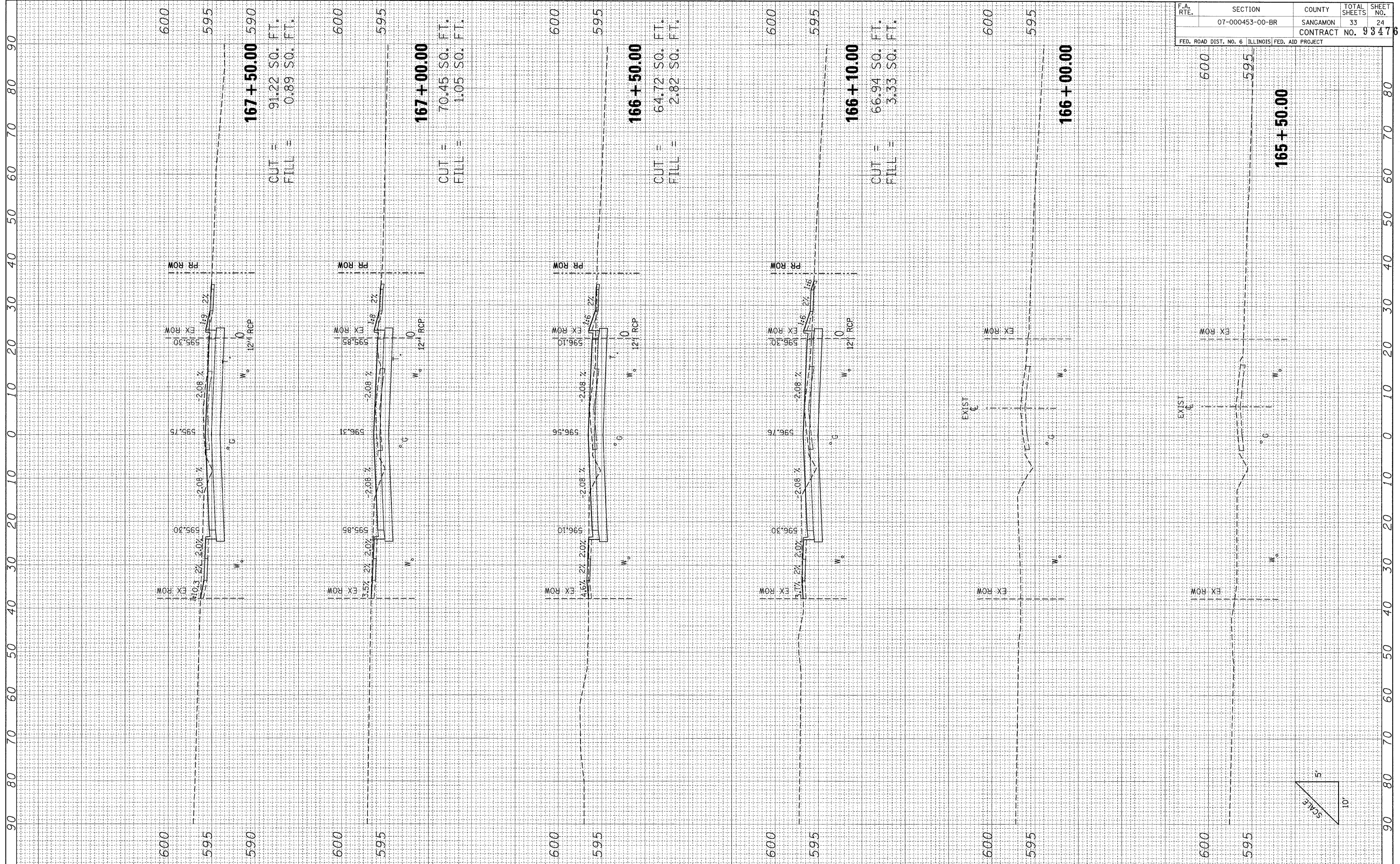




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NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
NO.	AREAS CHECKED		

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT			CONTRACT NO. 93476	



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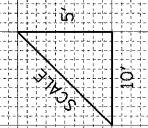
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 DESIGNED - BMB
 DRAWN - RAH
 CHECKED - JMM
 DATE - 8/2008

REVISIONS:
 REVISED -
 REVISED -
 REVISED -
 REVISED -

**MEADOWBROOK ROADWAY
 CITY OF SPRINGFIELD
 SPRINGFIELD, ILLINOIS**

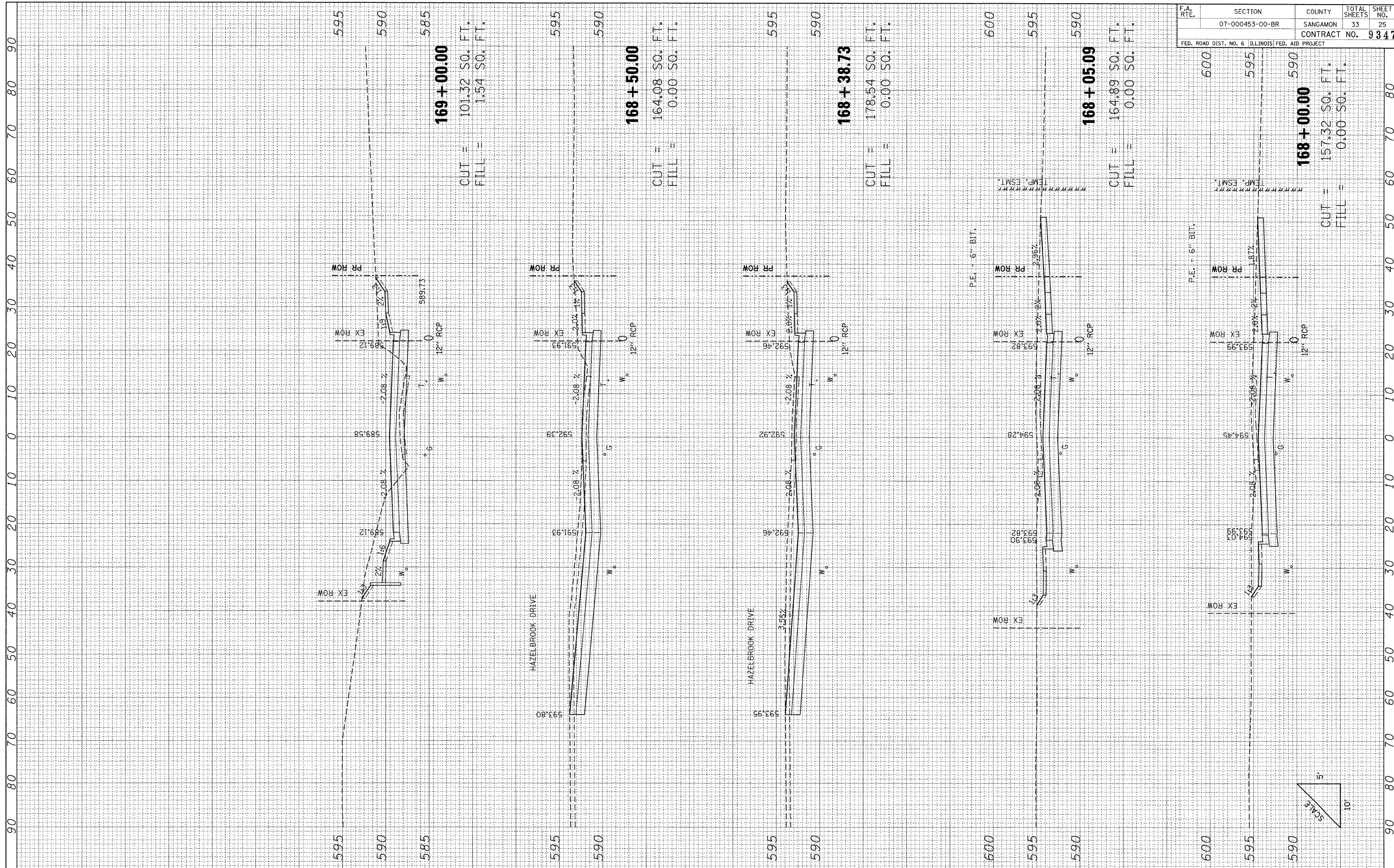
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 STA. 165+50 TO 167+50**

SCALE: 10' H; 5' V SHEET NO. 24 OF 33 SHEETS STA. 165+50.00 TO STA. 167+50.00



FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
AREAS CHECKED	TEMPLATE	
AREAS CHECKED	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
AREAS CHECKED	TEMPLATE	
AREAS CHECKED	AREAS CHECKED	



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT			CONTRACT NO. 93476	

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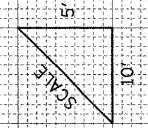
DESIGNED - BMB
 DRAWN - RAH
 CHECKED - JMM
 DATE - 8/2008

REVISED -
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**MEADOWBROOK ROAD
 CITY OF SPRINGFIELD
 SPRINGFIELD, ILLINOIS**

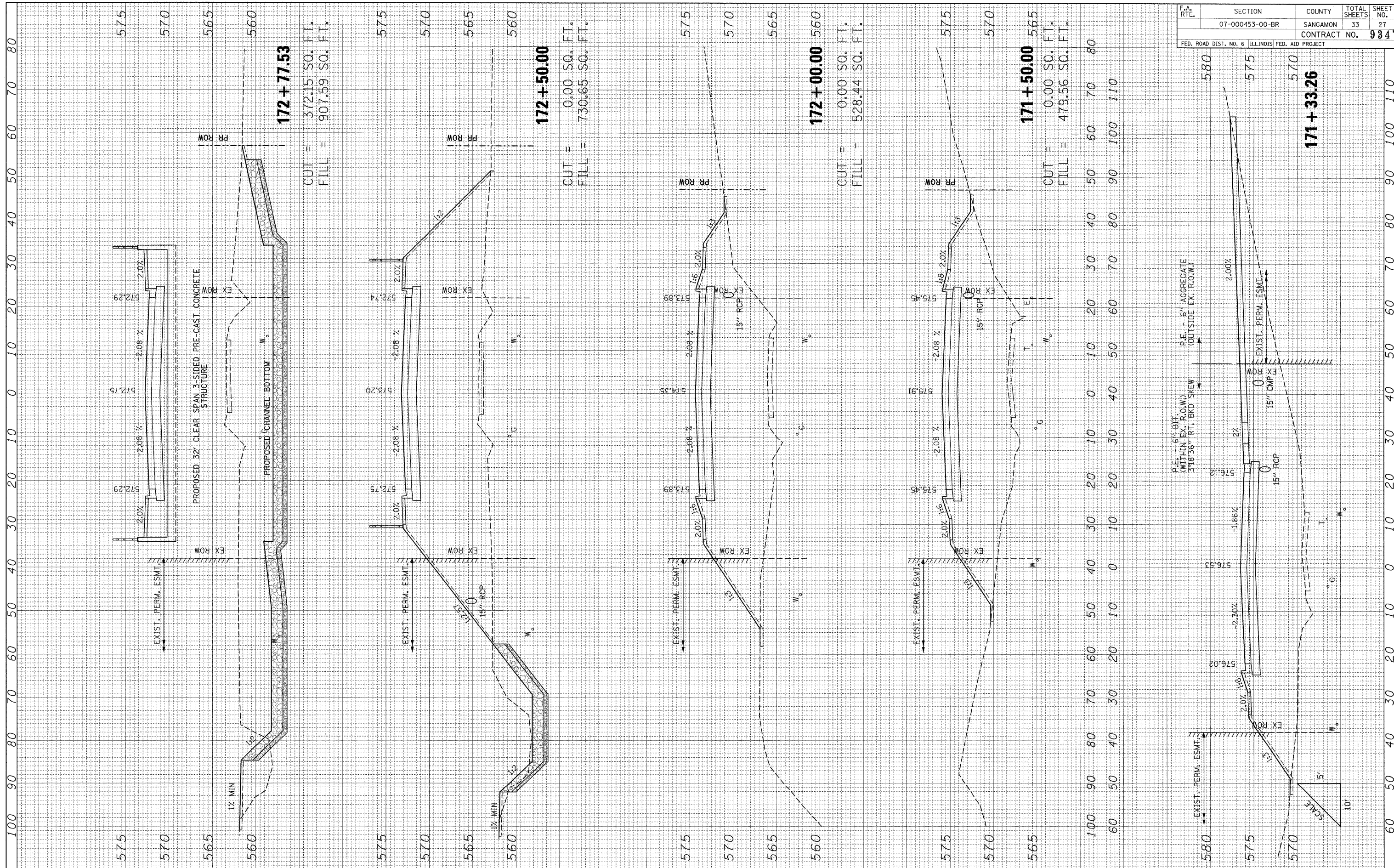
**MEADOWBROOK ROADWAY CROSS SECTIONS
 STA. 168+00 TO 169+00**

SCALE: 10' H; 5' V SHEET NO. 25 OF 33 SHEETS STA. 168+00.00 TO STA. 169+00.00



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

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



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. 6 ILLINOIS		CONTRACT NO. 93476		

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 DATE - 8/2008

REVISED -
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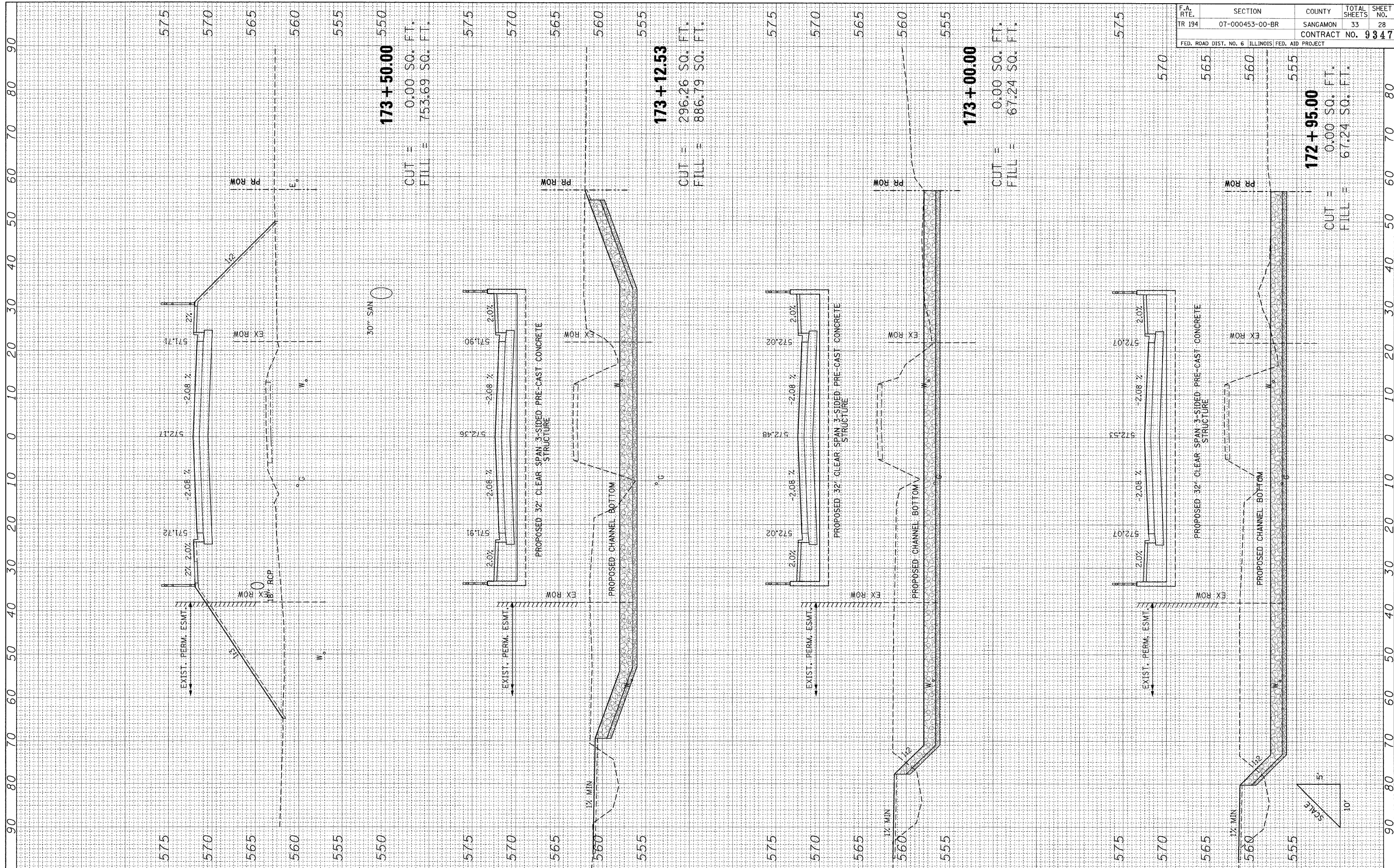
**MEADOWBROOK ROAD
 CITY OF SPRINGFIELD
 SPRINGFIELD, ILLINOIS**

**MEADOWBROOK ROADWAY CROSS SECTIONS
 STA. 171+33.26 TO 172+77.53**

SCALE: 10' H; 5' V | SHEET NO. 27 OF 33 SHEETS | STA. 171+33.26 TO STA. 172+77.53

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 194	07-00453-00-BR	SANGAMON	33	28
FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT			CONTRACT NO. 93476	

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 CHECKED - JMM
 DATE - 8/2008

REVISED -
 REVISED -
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 REVISED -

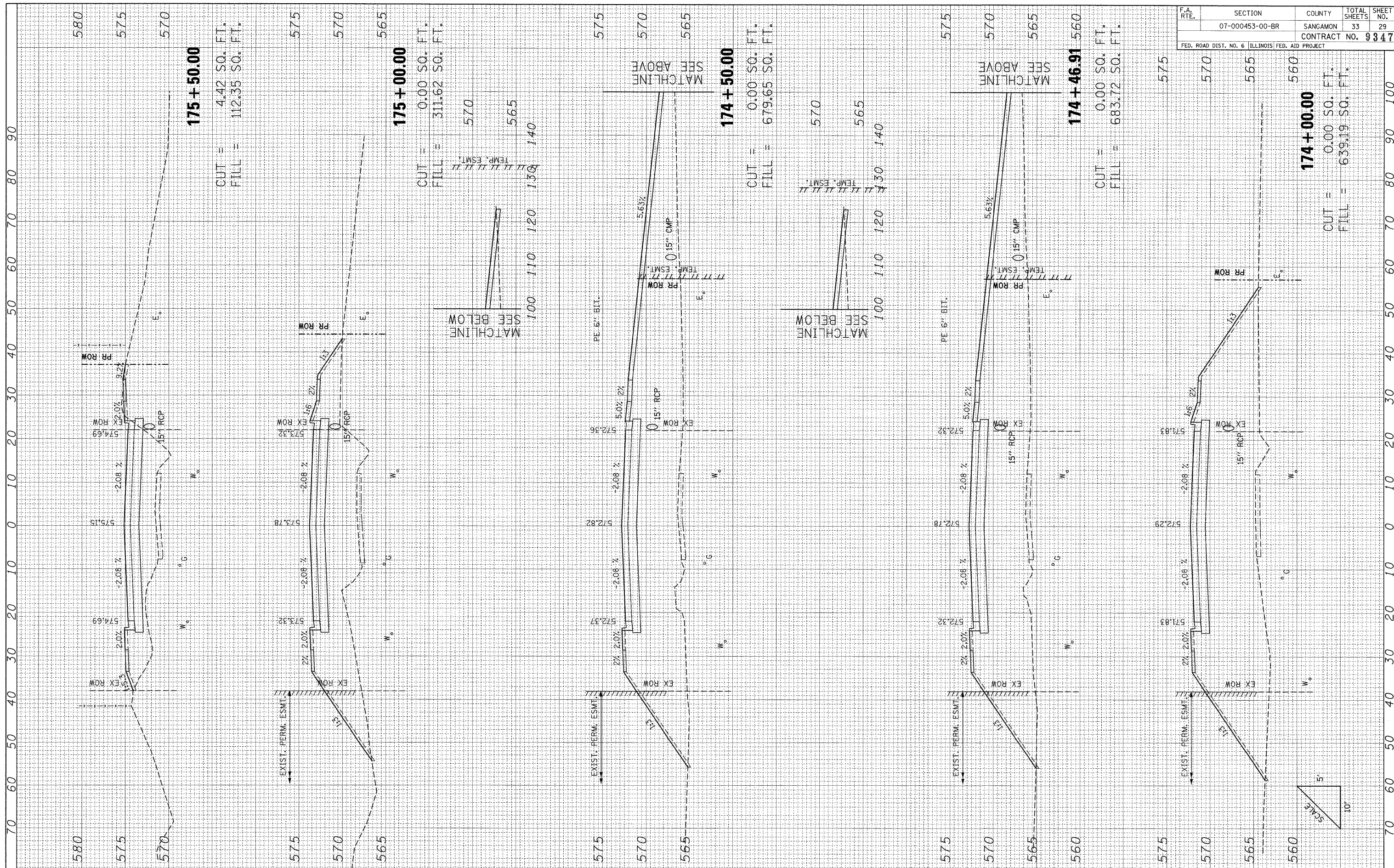
**MEADOWBROOK ROAD
 CITY OF SPRINGFIELD
 SPRINGFIELD, ILLINOIS**

**MEADOWBROOK ROADWAY CROSS SECTIONS
 STA. 172+95 TO 173+50**

SCALE: 10' H: 5' V SHEET NO. 28 OF 33 SHEETS STA. 172+95.00 TO STA. 173+50.00

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



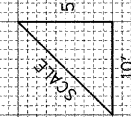
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CONTRACT NO. 93476				
FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT				

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		CHECKED - JMM	REVISED -
		DATE - 8/2008	REVISED -

**MEADOWBROOK ROADWAY
CITY OF SPRINGFIELD
SPRINGFIELD, ILLINOIS**

**MEADOWBROOK ROADWAY CROSS SECTIONS
STA. 174+00 TO 175+50**

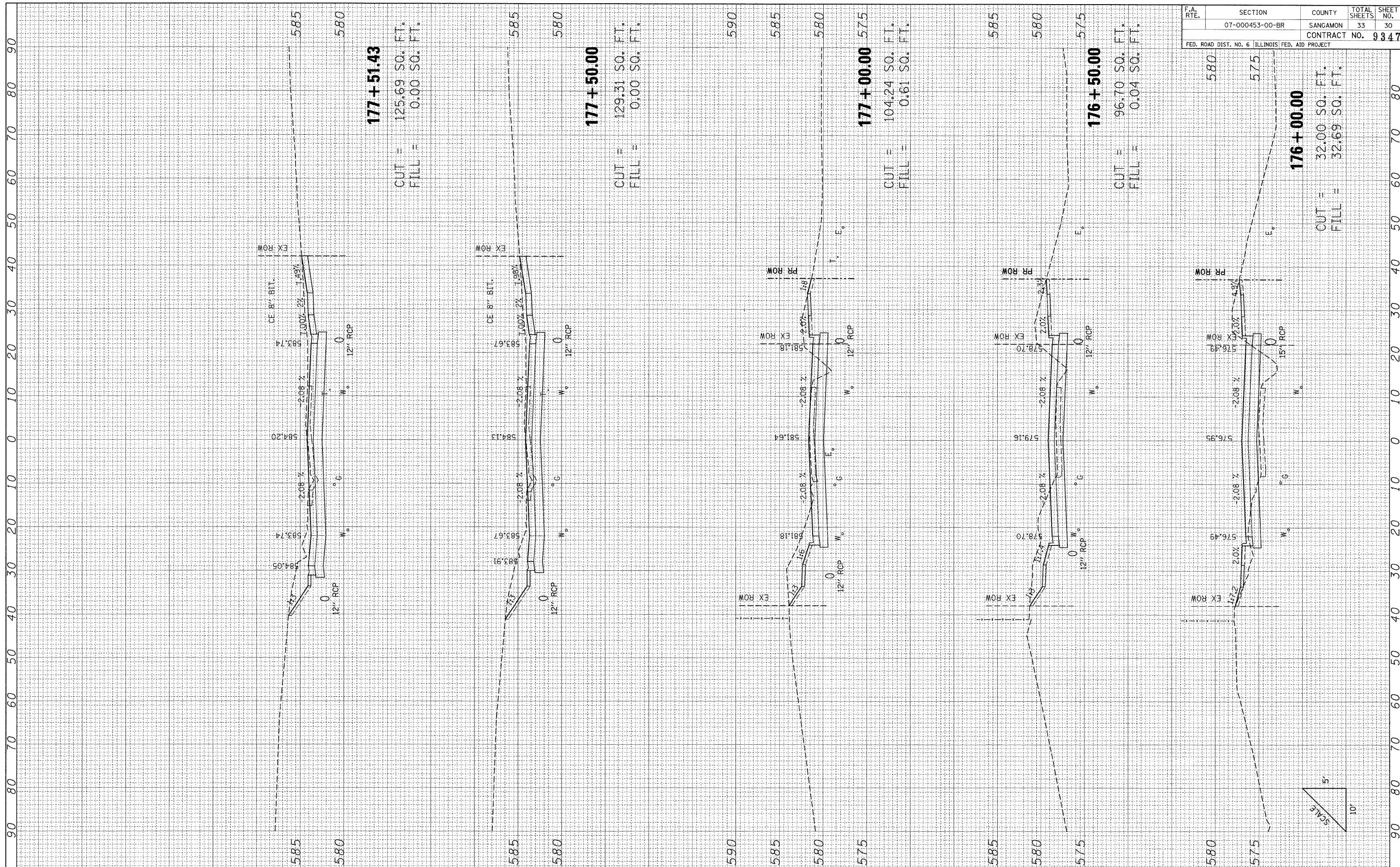
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FINAL SURVEY SURVEYED PLOTTED NOTE BOOK AREAS CHECKED

ORIGINAL SURVEY SURVEYED PLOTTED NOTE BOOK AREAS CHECKED

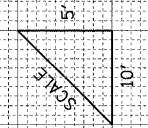
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FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT			CONTRACT NO. 93476	



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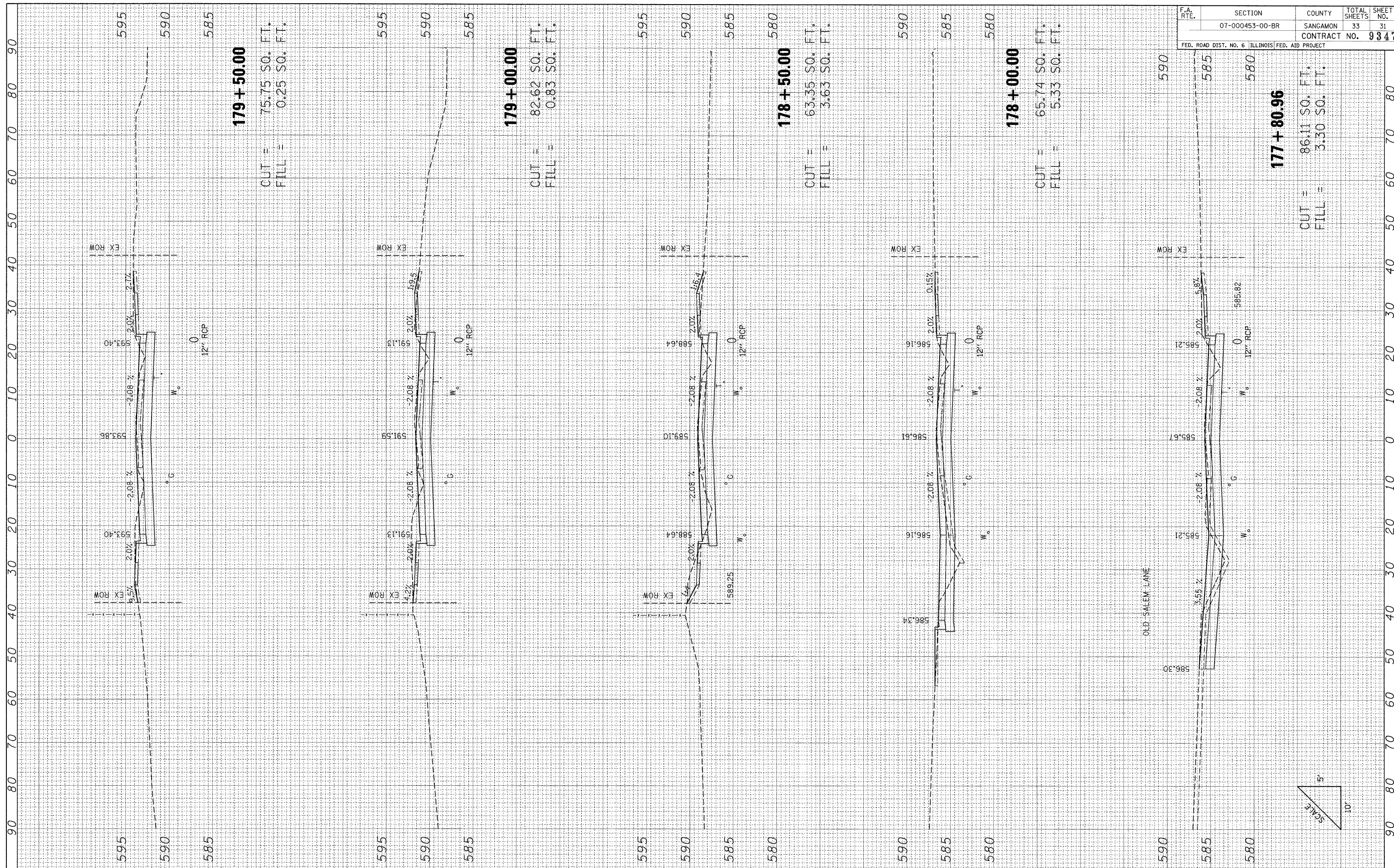
**MEADOWBROOK ROAD
CITY OF SPRINGFIELD
SPRINGFIELD, ILLINOIS**

**MEADOWBROOK ROADWAY CROSS SECTIONS
STA. 176+00 TO 177+51.43**
SCALE: 10' H: 5' V | SHEET NO. 30 OF 33 SHEETS | STA. 176+00.00 TO STA. 177+51.43



FINAL SURVEY SUPERVIEWED BY DATE
 PLOTTED TEMPLATE NO. 33
 NOTE BOOK AREAS CHECKED

ORIGINAL SURVEY SUPERVIEWED BY DATE
 PLOTTED TEMPLATE NO. 33
 NOTE BOOK AREAS CHECKED



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT			CONTRACT NO. 93476	

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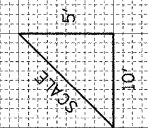
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 CHECKED - JMM
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REVISED -
 REVISED -
 REVISED -
 REVISED -

**MEADOWBROOK ROADWAY
 CITY OF SPRINGFIELD
 SPRINGFIELD, ILLINOIS**

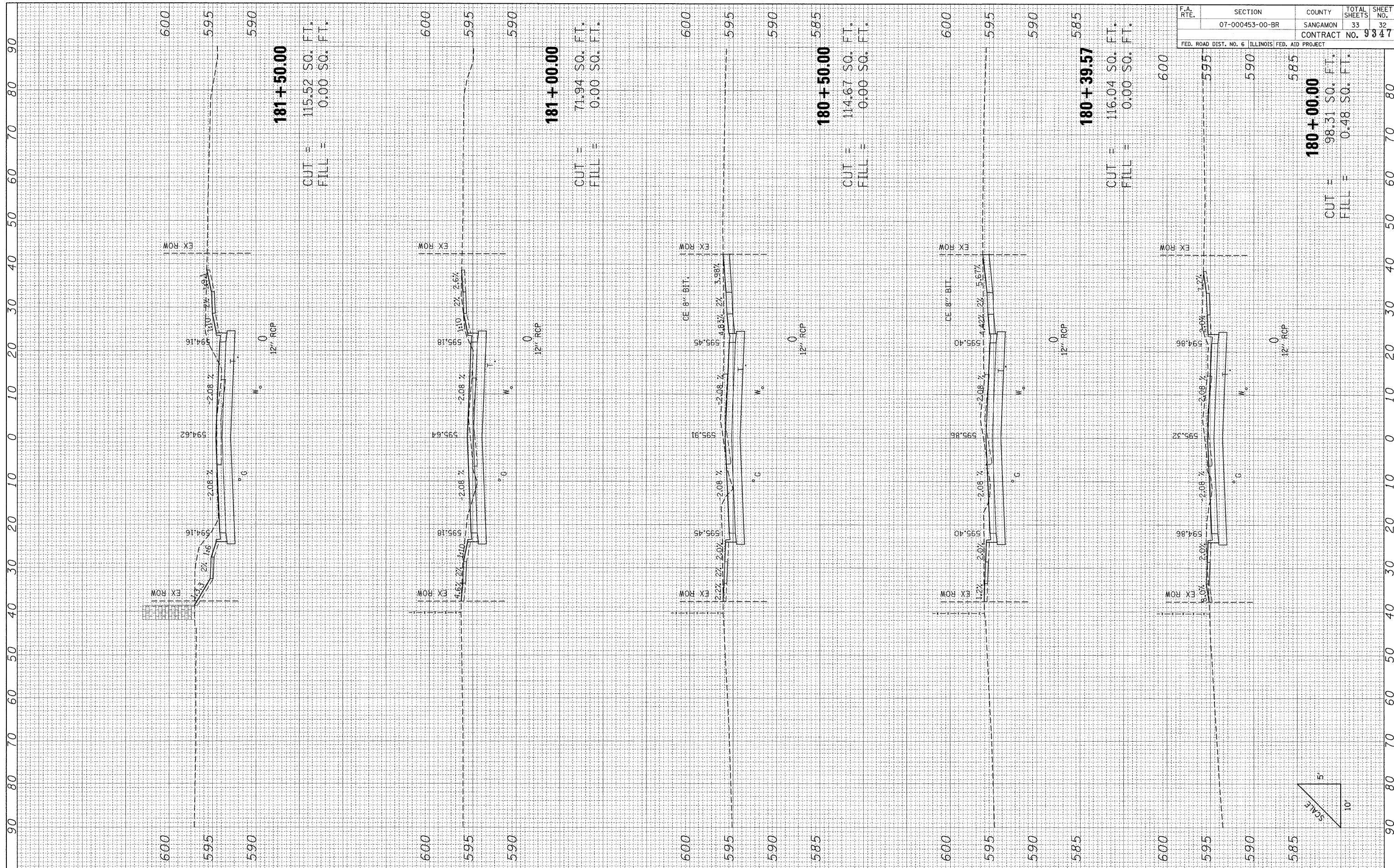
**MEADOWBROOK ROADWAY CROSS SECTIONS
 STA. 177+80.96 TO 179+50**

SCALE: 10' H; 5' V SHEET NO. 31 OF 33 SHEETS STA. 177+80.96 TO STA. 179+50.00



FINAL SURVEY
 SURVEYED PLOTTED
 NOTE BOOK TEMPLATE
 AREAS CHECKED

ORIGINAL SURVEY
 SURVEYED PLOTTED
 NOTE BOOK TEMPLATE
 AREAS CHECKED



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-000453-00-BR	SANGAMON	33	32
FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT			CONTRACT NO. 93478	

FILE NAME = L:\Springfield\0702502\Draw\Sheets\XSEC_SHTS_MAD0V.dgn

USER NAME = Brian Bond
 PLOT SCALE = 10.0000' / IN.
 PLOT DATE = 10/8/2008

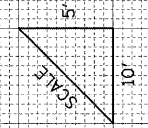
DESIGNED - BMB
 DRAWN - RAH
 CHECKED - JMM
 DATE - 8/2008

REVISED -
 REVISED -
 REVISED -
 REVISED -

**MEADOWBROOK ROAD
 CITY OF SPRINGFIELD
 SPRINGFIELD, ILLINOIS**

**MEADOWBROOK ROADWAY CROSS SECTIONS
 STA. 180+00 TO 181+50**

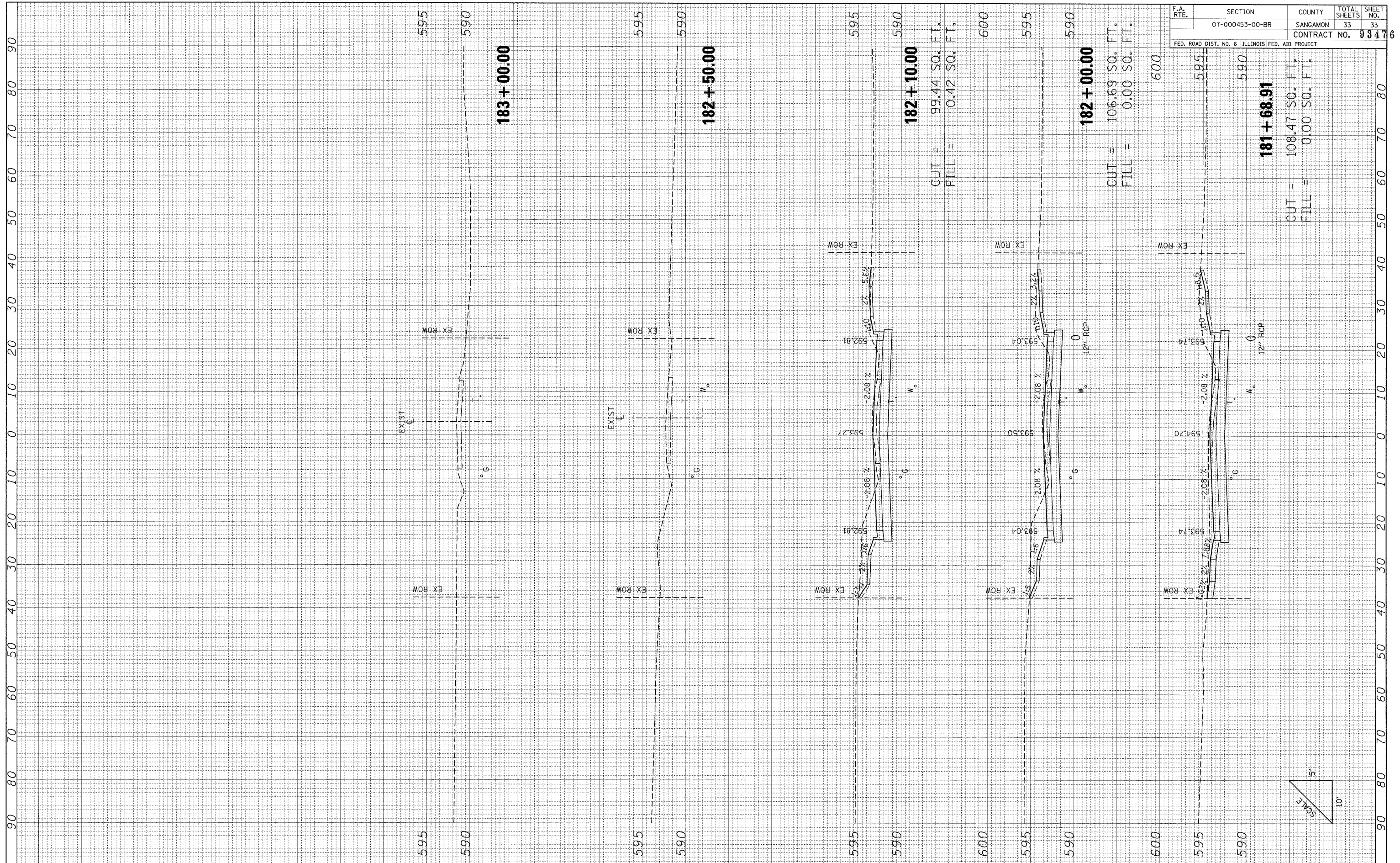
SCALE: 10' H: 5' V SHEET NO. 32 OF 33 SHEETS STA. 180+00.00 TO STA. 181+50.00



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

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-000453-00-BR	SANGAMON	33	33
FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT			CONTRACT NO. 93476	



FILE NAME = L:\Springfield\07\02502\Draw\Sheets\XSEC_SHTS_Meadow.dgn

USER NAME = Brian Bond
 FLOT SCALE = 10.0000' / 1".
 FLOT DATE = 10/8/2008

DESIGNED - BMB
 DRAWN - RAH
 CHECKED - JMM
 DATE - 8/2008

REVISED -
 REVISED -
 REVISED -
 REVISED -

**MEADOWBROOK ROAD
 CITY OF SPRINGFIELD
 SPRINGFIELD, ILLINOIS**

**MEADOWBROOK ROADWAY CROSS SECTIONS
 STA. 181+68.91 TO 183+00**

SCALE: 10' H; 5' V | SHEET NO. 33 OF 33 SHEETS | STA. 181+68.91 TO STA. 183+00.00

