

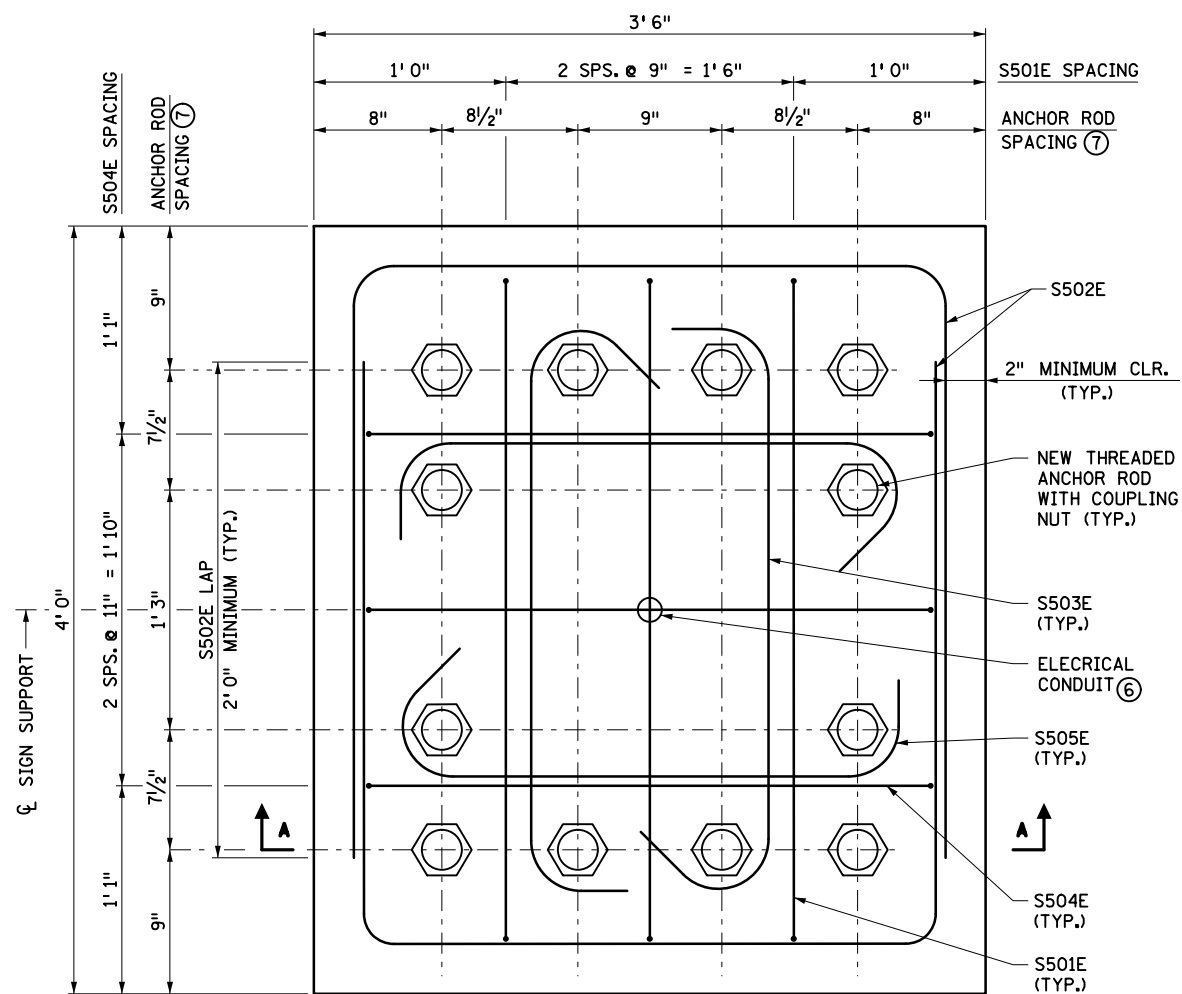
INPLACE ELEVATION AND REMOVALS
INPLACE REINFORCEMENT NOT SHOWN FOR CLARITY

NOTES:

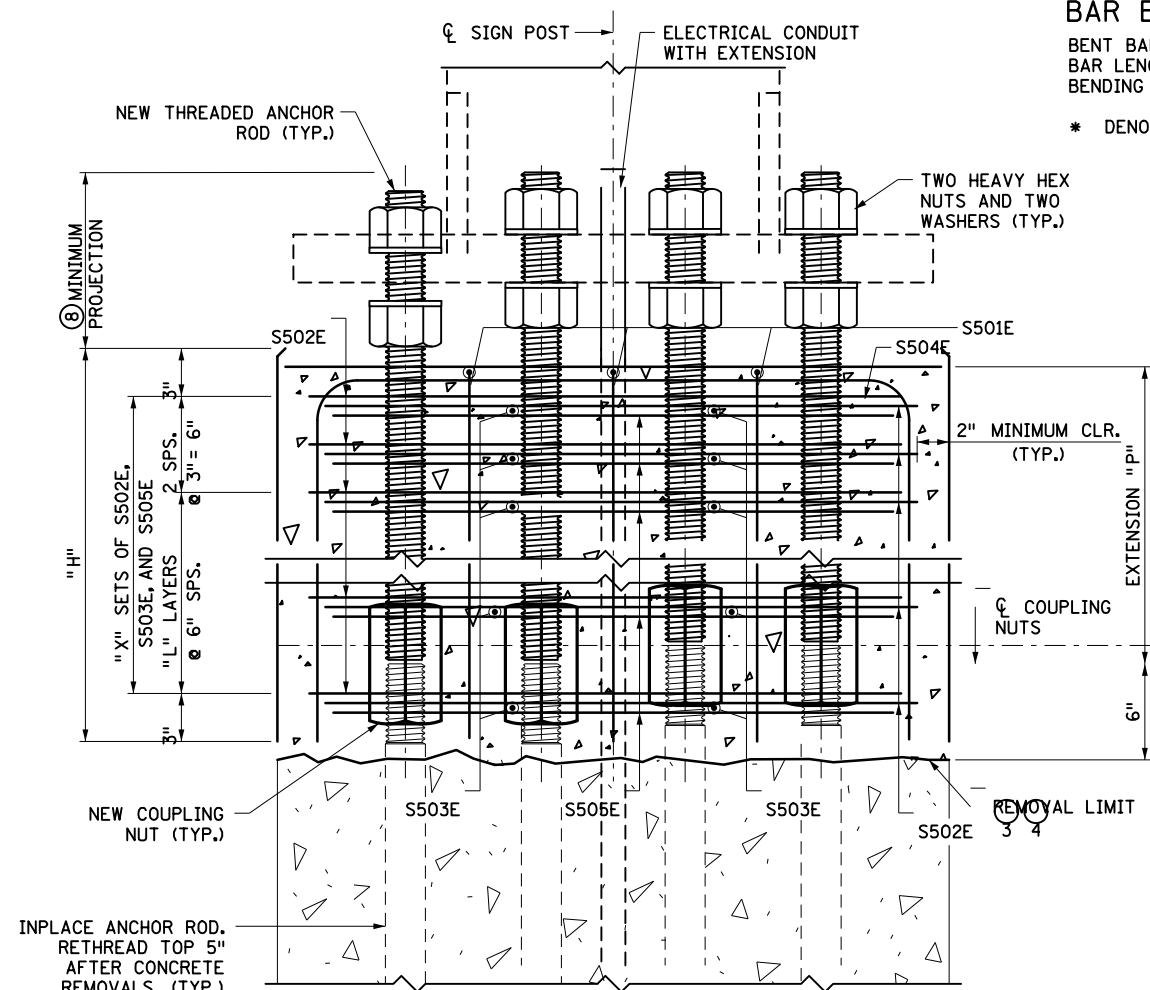
- ☒ DENOTES REMOVAL
- DIMENSIONS FOR NEW WORK BASED ON INPLACE BOLT DIMENSIONS.
- FIELD-VERIFY FOR LENGTH OF REQUIRED THREADED ANCHOR ROD EXTENSION.
- FIELD-ADJUST REBAR LOCATIONS TO AVOID CONDUITS.
- PROVIDE CONCRETE IN ACCORDANCE WITH SPEC. 2461, MIX 3G52.
- CONSTRUCT EXTENSION IN ACCORDANCE WITH THE PLAN, SPEC. 2401, AND SPEC. 2471.
- QUANTITIES PROVIDED ARE FOR ONE POST BASE EXTENSION. REBAR QUANTITIES ARE PROVIDED FOR REFERENCE ONLY.
- MINIMUM FOUNDATION EXTENSION IS 1'0". EXTEND FOUNDATION 1'0", 1'6", OR 2'0" AS REQUIRED. VERIFY WITH THE ENGINEER.
- PROVIDE COUPLING NUTS IN ACCORDANCE WITH ASTM A563 GRADE A AND GALVANIZE IN ACCORDANCE WITH SPEC. 3392. SEE SPECIAL PROVISION FOR SPECIAL INSPECTION OF COUPLING NUT INSTALLATION.
- FURNISH TYPE B ANCHOR RODS IN ACCORDANCE WITH SPEC. 3385.
- FURNISH EPOXY-COATED REINFORCING BARS IN ACCORDANCE WITH SPEC. 3301.

- ① SAWCUT PEDESTAL PERIMETER WITHOUT CUTTING ANY INPLACE REINFORCEMENT BARS BEFORE REMOVING CONCRETE. ALL INPLACE REINFORCEMENT BARS WILL REMAIN. CLEAN AND STRAIGHTEN INPLACE REINFORCEMENT.
- ② REMOVE UNSOUND CONCRETE.
- ③ CLEAN CONCRETE.
- ④ APPLY EPOXY BONDING AGENT BEFORE PLACING NEW CONCRETE.
- ⑤ INPLACE ANCHOR RODS WITH MINIMAL OR NO DETERIORATION MAY REMAIN WITHOUT CUTTING IF COMPATIBLE WITH THE FOUNDATION EXTENSION. PROVIDE 2" MINIMUM COVER FOR COUPLING NUTS.
- ⑥ EXTEND EXISTING CONDUIT AS NEEDED.
- ⑦ 2 1/4" DIAMETER ANCHOR ROD (TYPE 4 POST); 2 1/2" DIAMETER ANCHOR ROD (TYPE 5 POST). FIELD VERIFY.
- ⑧ 10" TYPE 4 POST; 10 1/2" TYPE 5 POST.

EXTENSION DIMENSIONS AND QUANTITIES										
EXTENSION, "P"	"H"	"X"	"L"	"B"	"C"	"D"	"E"	"F"	CONCRETE (CY)	REINF. STEEL (LBS.)
1' 0"	1' 6"	4	1	1' 3"	5' 11"	8	8	5' 5"	0.78	179
1' 6"	2' 0"	5	2	1' 9"	6' 11"	10	10	6' 5"	1.04	222
2' 0"	2' 6"	6	3	2' 3"	7' 11"	12	12	7' 5"	1.30	265



NEW CONSTRUCTION PLAN VIEW

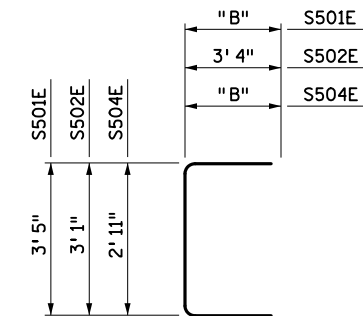


SECTION A-A
INPLACE REINFORCEMENT NOT SHOWN FOR CLARITY

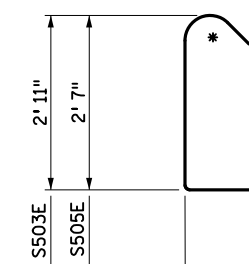
BAR BENDING DIAGRAMS

BENT BAR DIMENSIONS GIVEN ARE OUT-TO-OUT. DETERMINE ACTUAL BAR LENGTHS BASED ON THE DETAIL DIMENSIONS SHOWN IN THE BAR BENDING DIAGRAMS.

* DENOTES STANDARD STIRRUP HOOK.

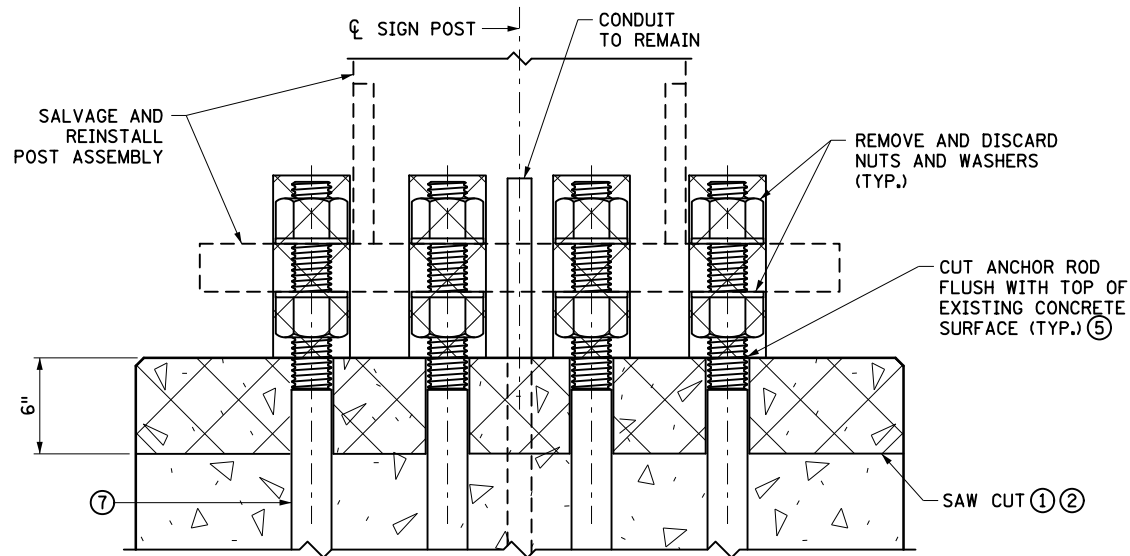


S501E, S502E, & S504E



S503E & S505E

BILL OF REINFORCEMENT				
BAR NO.	LENGTH	SHAPE	LOCATION	
S501E	3 "C"	U	VERTICAL TIE	
S502E	"D" 9' 9"	U	HORIZONTAL TIE	
S503E	"E" 3' 11"	U	HORIZONTAL TIE	
S504E	3 "F"	U	VERTICAL TIE	
S505E	"E" 3' 7"	U	HORIZONTAL TIE	



INPLACE ELEVATION AND REMOVALS
INPLACE REINFORCEMENT NOT SHOWN FOR CLARITY

NOTES:

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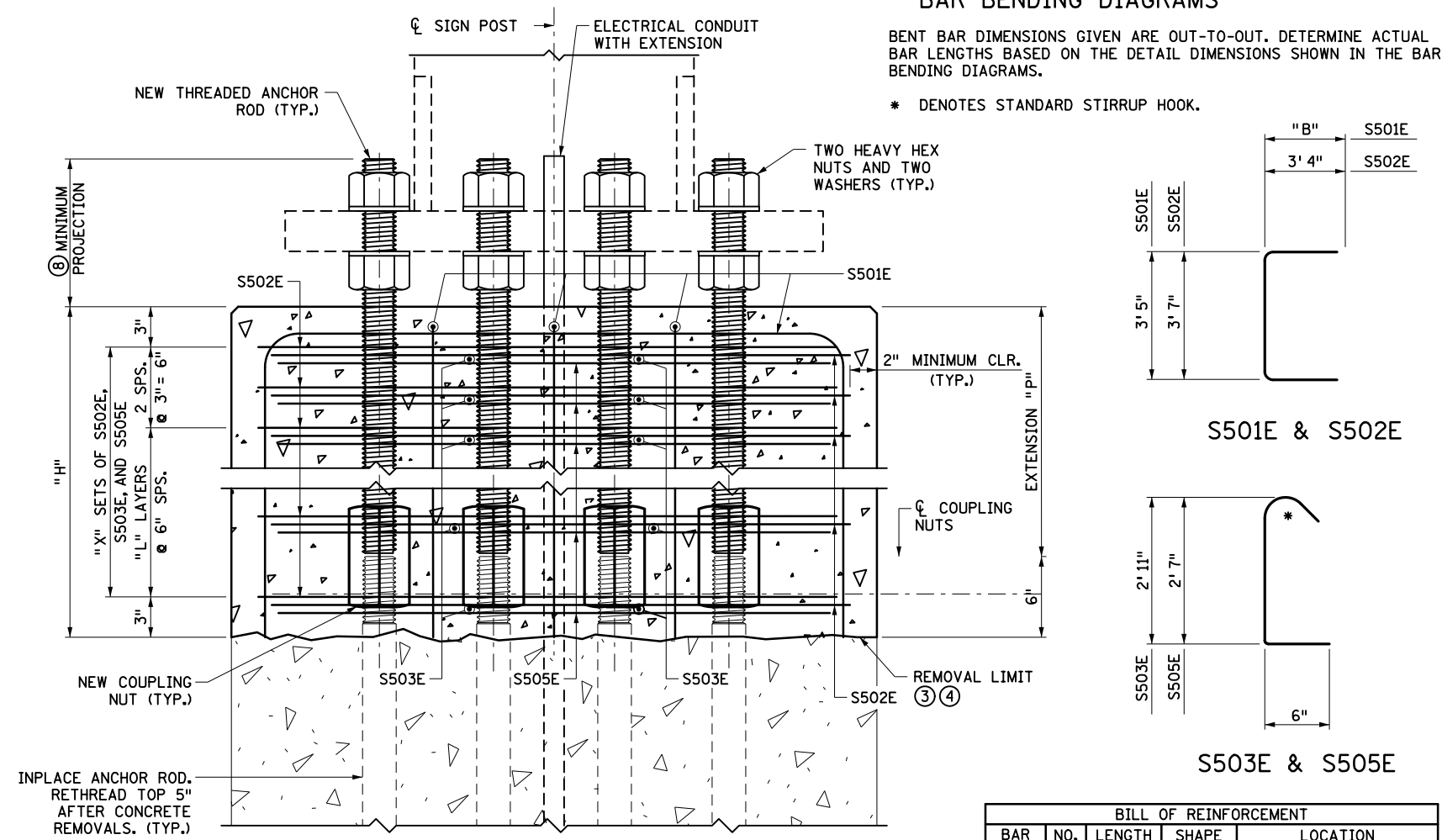
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EXTENSION, "P"	"H"	"X"	"L"	"B"	"C"	"D"	"E"	CONCRETE (CY)	REINF. STEEL (LBS.)
1' 0"	1' 6"	4	1	1' 3"	5' 11"	8	8	0.89	185
1' 6"	2' 0"	5	2	1' 9"	6' 11"	10	10	1.19	228
2' 0"	2' 6"	6	3	2' 3"	7' 11"	12	12	1.49	272

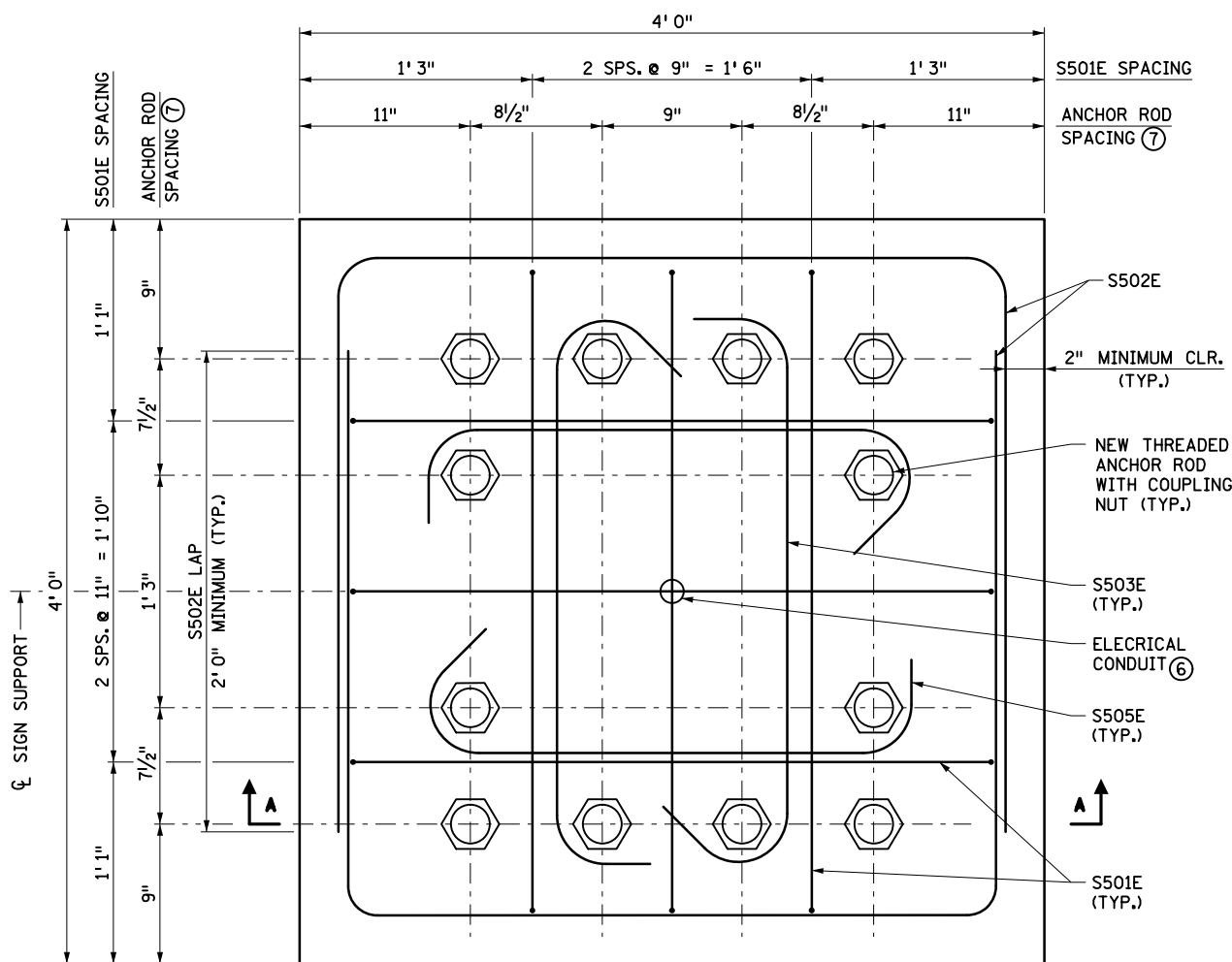
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SECTION A-A
INPLACE REINFORCEMENT NOT SHOWN FOR CLARITY



NEW CONSTRUCTION PLAN VIEW

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S501E	6	"C"	□	VERTICAL TIE
S502E	"D"	10' 3"	□	HORIZONTAL TIE
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S505E	"E"	3' 7"	□	HORIZONTAL TIE

LEAD EXPERT OFFICE
KEVIN WESTERN
STATE BRIDGE ENGINEER



OVERHEAD SIGN STRUCTURES FOUNDATION EXTENSION
DESIGN B EXTENSION DETAILS - TYPE 4-5 POSTS

APPROVED: 01-15-2021
REVISED:

THOMAS STYRBICKI
STATE DESIGN ENGINEER

STANDARD PLAN
5-297.784

2 OF 2

STANDARD PLAN

STATE PROJ. NO.
TRUNK HWY.

SHEET NO.
TOTAL SHEETS