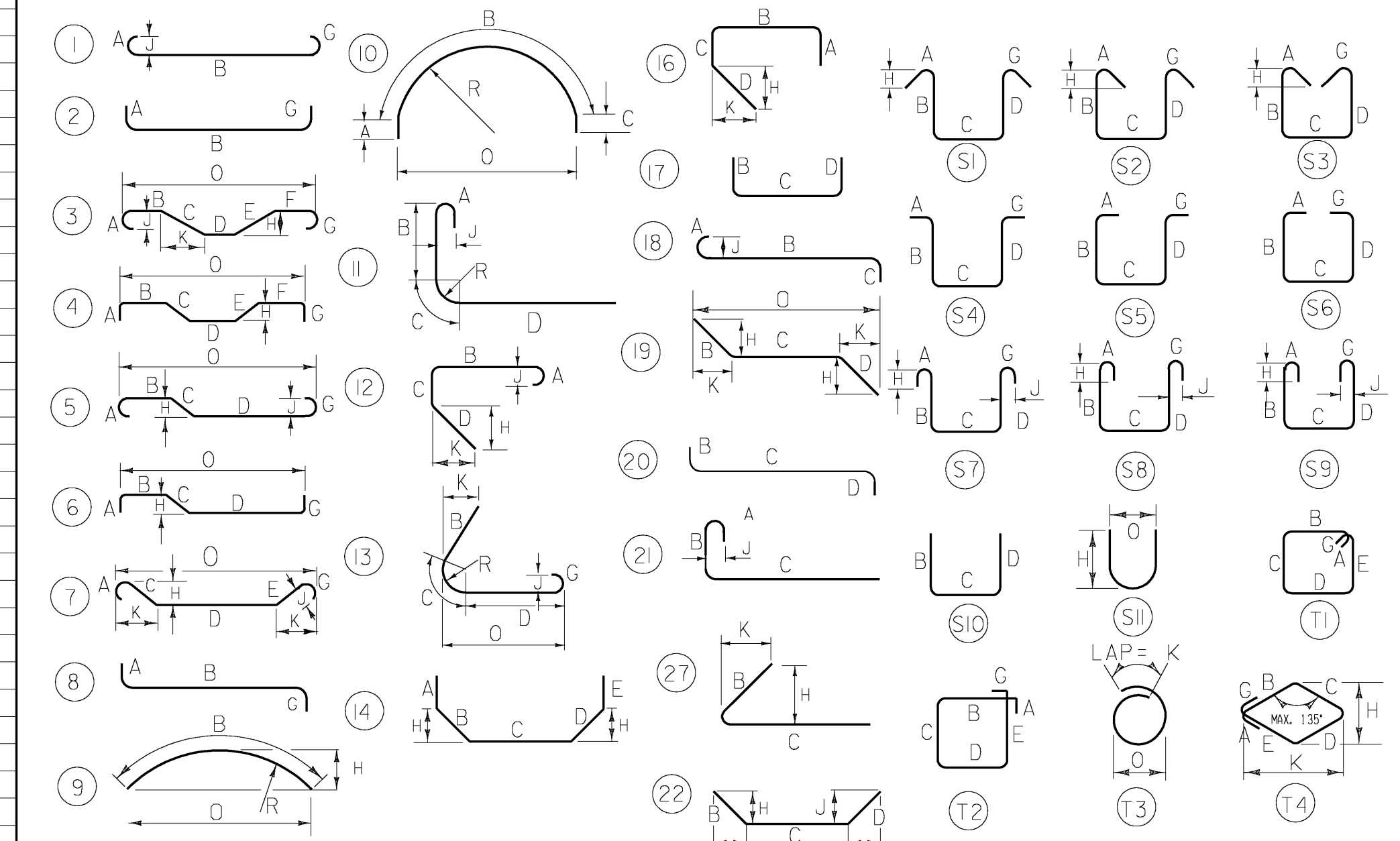


FILE NAME: I:\14596\m\m\p\lens\14596-rebar.dgn
 DATE/TIME: 10/12/2009
 USER: 2352

| NO. | ITEM | PIECES | SIZE | LENGTH | MARK | TYPE | A | B | C | D | E | F | G | H | J | K | R | O | NO. | ITEM | PIECES | SIZE | LENGTH | MARK | TYPE | A | B | C | D | E | F | G | H | J | K | R | O | | | |
|-----------------|------|--------|------|---------|---------|------|---|---|---|---|---|---|---|---|---|---|---|---|-----|------|--------|------|--------|------|------|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|
| | DECK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | * | 677 | 5 | 20'-10" | ES501 | STR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | ▲ | 195 | 5 | 50'-0" | ES502 | STR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | 169 | 5 | 3'-6" | ES503 | I7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | 169 | 5 | 4'-9" | ES504 | STR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | 169 | 5 | 8'-0" | ES505 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | 22 | 5 | 4'-7" | ES506 | S5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | 22 | 5 | 6'-4" | ES507 | S5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | ▲ | 65 | 5 | 30'-0" | ES508 | STR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | * | 13 | 6 | 20'-10" | ES601 | STR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| APPROACH SLAB 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | * | 26 | 9 | 20'-9" | IEAS901 | I | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | 21 | 5 | 19'-6" | IEAS501 | STR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| APPROACH SLAB 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | 25 | 9 | 20'-9" | 2EAS901 | I | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | 11 | 9 | 19'-6" | 2EAS902 | STR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | 21 | 5 | 19'-6" | 2EAS501 | STR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | ▲ | 14 | 5 | 14'-0" | 2EAS502 | STR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | 6 | 5 | 6'-0" | 2EAS503 | STR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ABUTMENT 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | 82 | 5 | 2'-3" | IA501 | I7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | 20 | 5 | 19'-6" | IA502 | STR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | ▲ | 38 | 5 | 9'-6" | IA503 | STR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | 40 | 5 | 3'-6" | IEA504 | I7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 | ▲ | 38 | 5 | 19'-6" | IEA505 | STR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33 | | 38 | 5 | 4'-9" | IEA506 | STR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 34 | | 7 | 5 | 5'-0" | IEA507 | I7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | | 7 | 5 | 6'-4" | IEA508 | I7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36 | | 7 | 5 | 8'-10" | IEA509 | I7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 37 | | 7 | 5 | 10'-2" | IEA510 | I7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 38 | | 22 | 5 | 12'-7" | IEA511 | S5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 39 | | 17 | 5 | 16'-7" | IEA512 | S5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | | 8 | 5 | 2'-6" | IEA513 | STR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 41 | | 8 | 5 | 14'-6" | IEA514 | SIO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 42 | | 8 | 5 | 4'-6" | IEA515 | SIO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 43 | | 8 | 5 | 5'-0" | IEA516 | SIO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 44 | | 22 | 5 | 2'-9" | IEA517 | SIO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | * | 23 | 8 | 3'-6" | IEA801 | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ABUTMENT 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 49 | | 56 | 5 | 2'-3" | 2A501 | I7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | | 17 | 5 | 14'-6" | 2A502 | STR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 51 | | 6 | 5 | 24'-0" | 2A503 | STR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 52 | ▲ | 19 | 5 | 8'-9" | 2A504 | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 53 | | 52 | 5 | 2'-6" | 2A505 | STR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 54 | | 38 | 5 | 3'-6" | 2EAS06 | I7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | ▲ | 27 | 5 | 24'-6" | 2EAS07 | STR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 56 | | 38 | 5 | 4'-9" | 2EAS08 | STR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57 | | 7 | 5 | 12'-10" | 2EAS09 | I7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58 | | 7 | 5 | 14'-0" | 2EAS10 | I7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59 | | 5 | 5 | 9'-10" | 2EAS11 | I7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | | 5 | 5 | 11'-0" | 2EAS12 | I7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 61 | ▲ | 18 | 5 | 14'-7" | 2EAS13 | S5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 62 | | 20 | 5 | 11'-7" | 2EAS14 | S5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 63 | | 20 | 5 | 5'-9" | 2EAS15 | SIO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 64 | | 2 | 5 | 4'-9" | 2EAS16 | STR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | ● | 19 | 5 | 7'-6" | 2A517 | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 66 | | 8 | 5 | 11'-6" | 2EAS18 | SIO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 67 | | 14 | 5 | 6'-0" | 2EAS19 | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 68 | ▲ | 14 | 5 | 6'-0" | 2EAS20 | I7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 69 | | 8 | 5 | 4'-6" | 2EAS21 | SIO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 70 | | 8 | 5 | 5'-0" | 2EAS22 | SIO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 71 | | 8 | 5 | 2'-6" | 2EAS23 | STR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 72 | | 11 | 5 | 9'-5" | 2EAS24 | SIO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 73 | | 20 | 8 | 3'-6" | 2EA801 | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

NOTES:

- UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO. 18 SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M 31 (ASTM A 615-S1). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.
- FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS, AND OTHER STANDARD PRACTICE, SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE".
- BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
- ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS.
- "J" DIMENSION ON 180 DEGREE HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, STANDARD HOOKS ARE TO BE USED.
- "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
- WHERE SLOPE DIFFERS FROM 45 DEGREES, DIMENSIONS "H" AND "K" MUST BE SHOWN.
- ▲ DENOTES BARS TO BE CUT IN FIELD.
- DENOTES BARS TO BE BENT IN FIELD.
- * DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
- △ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.
- "E" IN PREFIX DENOTES EPOXY COATED REINFORCING STEEL.



| ASTM STANDARD REINFORCING BARS | | | | |
|--------------------------------|------------------------|----------------------------------|---------------------------------|------------------|
| BAR SIZE DESIGNATION | WEIGHT POUNDS PER FOOT | NOMINAL DIMENSIONS ROUND SECTION | | |
| | | DIAMETER INCHES | CROSS SECTIONAL AREA SQ. INCHES | PERIMETER INCHES |
| #3 | .376 | .375 | .11 | 1.178 |
| #4 | .668 | .500 | .20 | 1.571 |
| #5 | 1.043 | .625 | .31 | 1.963 |
| | | | | |