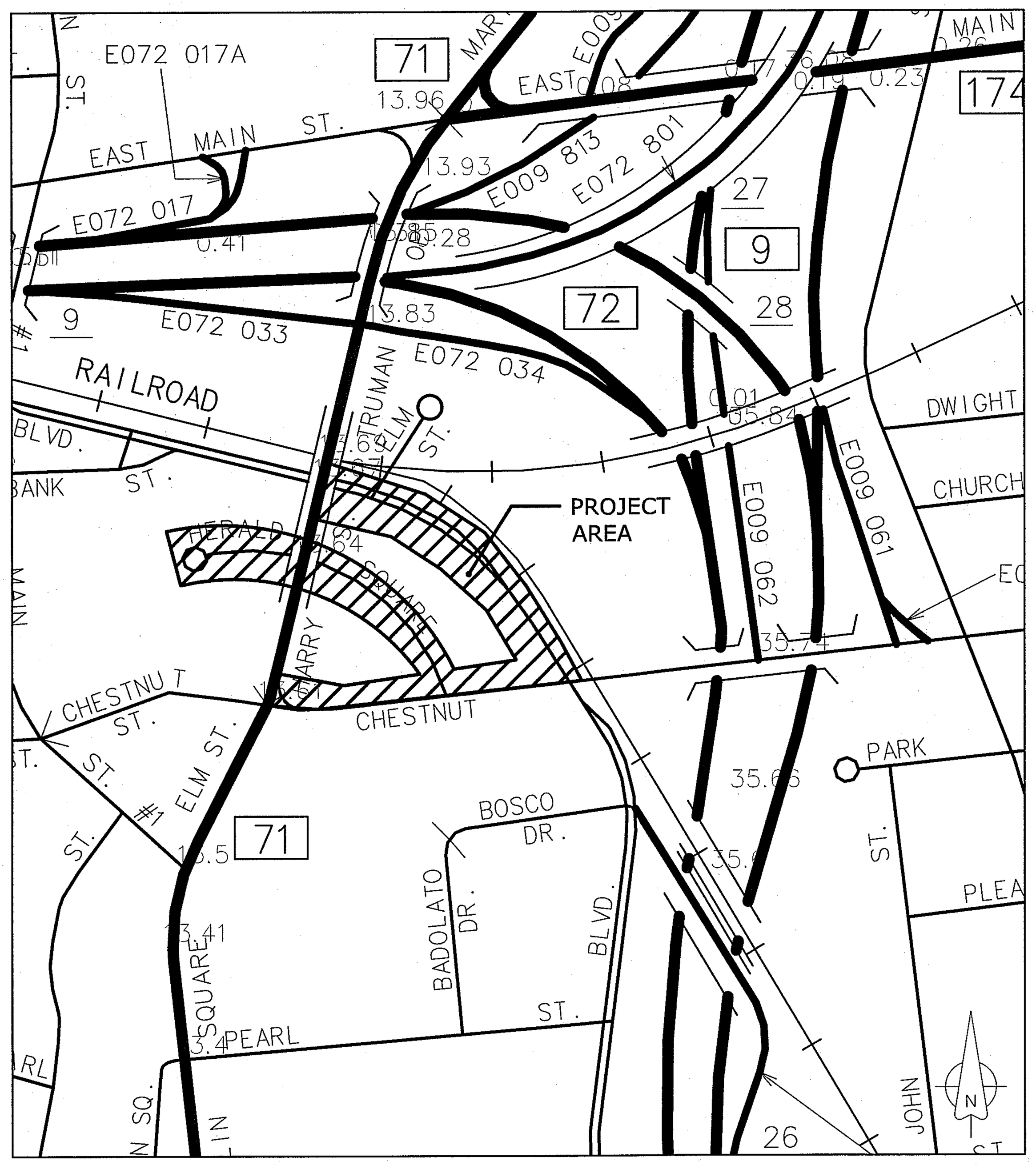


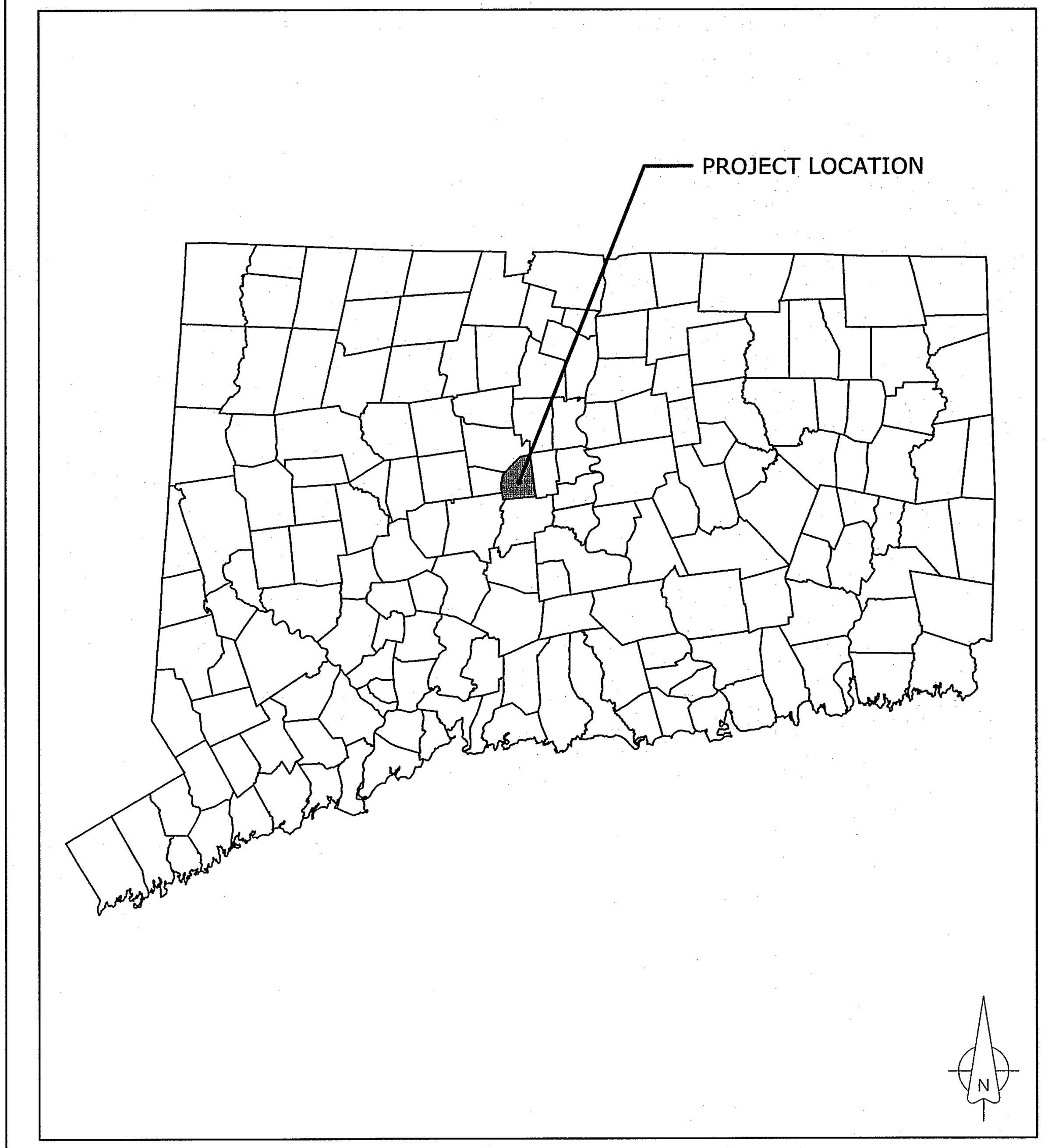
LOCATION MAP

(NOT TO SCALE)

CITY OF NEW BRITAIN
DEPARTMENT OF PUBLIC WORKS
PLANS FOR
COLUMBUS BOULEVARD & CHESTNUT STREET - PHASE VII DOWNTOWN COMPLETE STREETS
IN THE CITY OF NEW BRITAIN, CONNECTICUT
FEBRUARY 2020

SEAL OF THE CITY OF NEW BRITAIN, CT. 1871

BID NO. 3951



CITY OF NEW BRITAIN

(NOT TO SCALE)

NOTES:

1) ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88)
2) NORTH ARROW AND BEARING ARE BASED ON THE CONNECTICUT STATE PLANE COORDINATE SYSTEM (NAD 1983)

GOVERNING SPECIFICATIONS AND STANDARD DETAILS:

1) THE CTDOT "STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION" FORM 817 DATED 2016, WITH JULY 2019 SUPPLEMENT.

LIST OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE
CVR-01	COVER SHEET
IND-01	INDEX OF PLANS
SVY-01 TO 03	EXISTING CONDITIONS
TYP-01	TYPICAL CROSS SECTIONS
MDS-01 TO 04	MISCELLANEOUS DETAILS
RWY-01 TO 04	ROADWAY PLANS
DRN-01 TO 04	DRAINAGE AND UTILITIES
SPM-01 TO 03	SIGNING AND PAVEMENT MARKING
	BICYCLE FACILITIES TYPICAL STD DETAILS
	CONCRETE SIDEWALK RAMP STD SHEETS
	HIGHWAY STANDARD SHEETS
	TRAFFIC STANDARD SHEETS

PROJECT LIMITS

COLUMBUS BOULEVARD - STA. 100+00 TO STA. 109+70
CHESTNUT STREET - STA. 200+50 TO STA. 209+49
HERALD SQUARE - STA. 308+79 TO STA. 309+96

DESIGN SPEED

COLUMBUS BOULEVARD, CHESTNUT STREET & HERALD SQUARE
V= 25 MPH

HONORABLE ERIN E. STEWART - MAYOR
MARK E. MORIARTY, P.E. - DIRECTOR OF PUBLIC WORKS
ROBERT TROTTIER, P.E. - CITY ENGINEER

STATE OF CONNECTICUT ROBERT D. TROTTIER NO. 21295 LICENSED PROFESSIONAL ENGINEER

Submitted By: Robert Trottier
City Engineer

PREPARED BY:

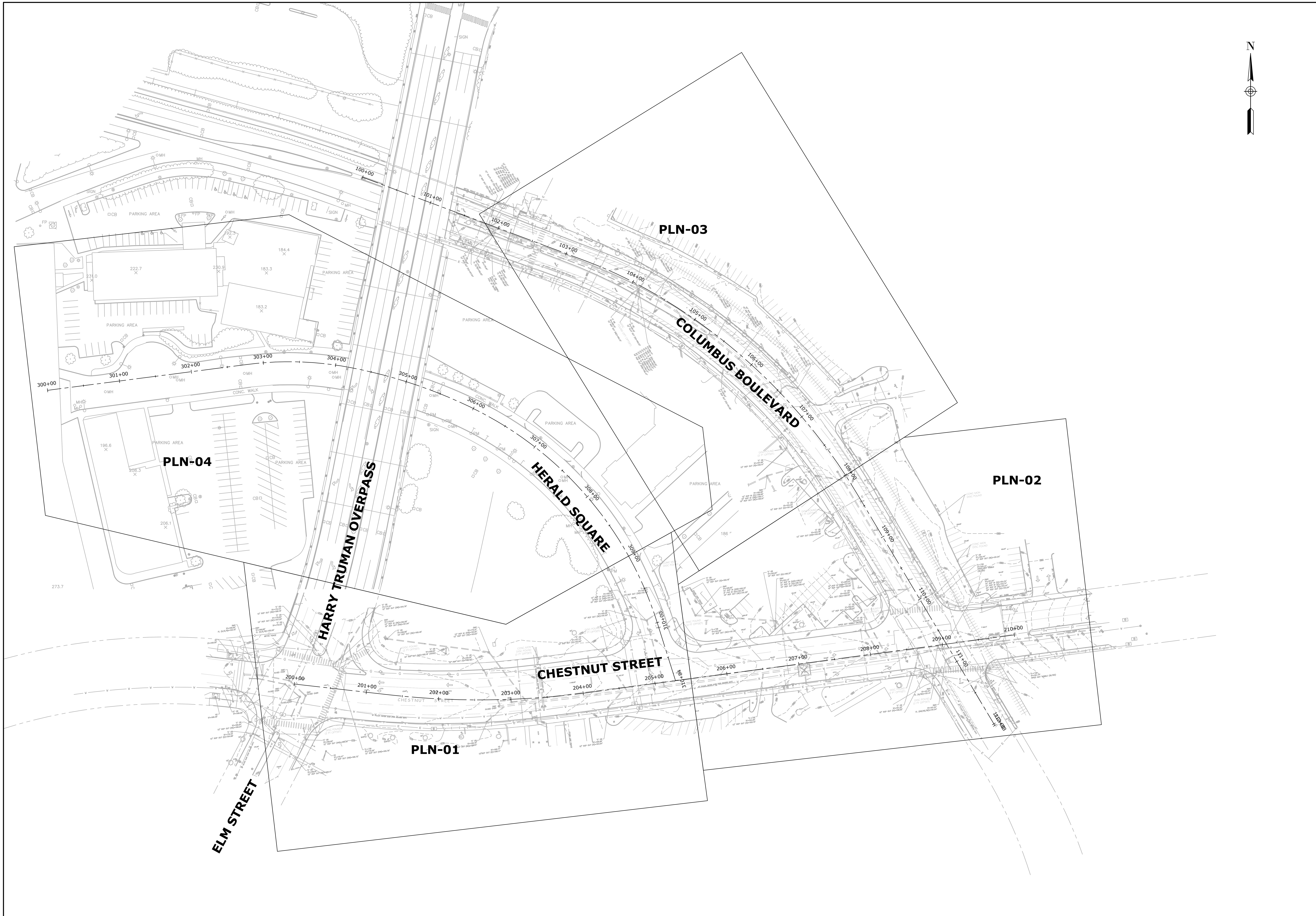
DEPARTMENT OF PUBLIC WORKS
CITY HALL
27W. MAIN ST.
NEW BRITAIN, CT. 06051
(860) 826 - 3350

STANDARD CONVENTIONS

North Arrow
Lot Line
Property Line
Street Line
Highway Line
Easement Line
Taking Line
Town Line
Edge of Road
Granite Stone Curb
Concrete Sidewalk
Retaining Wall
Stone Wall
Chain Link Fence
Water Edge
Stream
100 YR *100 Year Floodplain*
500 YR *500 Year Floodplain*
Wetlands Flagged
Wetlands Approximated
Tree Line

STANDARD ABBREVIATIONS

ANCH.	ANCHORAGE
BIT. CONC.	BITUMINOUS CONCRETE
BCLC	BITUMINOUS CONCRETE LIP CURBING
BL	BASE LINE
BM	BENCH MARK
C.C.	CONCRETE CURBING
CCMP	COATED CORRUGATED METAL PIPE
CB	CATCH BASIN
CP	CONTROL POINT
D.R.O.W.	DRAINAGE RIGHT OF WAY
GG	GAS GATE
LVC	LENGTH OF VERTICAL CURVE
MBR	METAL BEAM RAIL
MH	MANHOLE
MOD. RIPRAP	MODIFIED RIPRAP
PC	POINT OF HORIZONTAL CURVATURE
PI	POINT OF HORIZONTAL INTERSECTION
PL	PROPERTY LINE
PT	POINT OF HORIZONTAL TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
RCCE	REINFORCED CONCRETE CULVERT END
RCP	REINFORCED CONCRETE PIPE
S.L.	STREET LINE
S.C.S.	SEDIMENTATION CONTROL SYSTEM
STA.	STATION
T.L.	TAKING LINE
TEMP.	TEMPORARY
WG	WATER GATE
C	CUT - APPROXIMATE SLOPE LIMIT
F	FILL - APPROXIMATE SLOPE LIMIT
◪	TEST PIT LOCATION
⊕	BORING LOCATION



CITY OF NEW BRITAIN
27 WEST MAIN STREET
NEW BRITAIN, CT 06051
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

SEAL OF THE CITY OF NEW BRITAIN, CT. 1871

PROJECT TITLE
COLUMBUS BOULEVARD & CHESTNUT STREET
PHASE VII - DOWNTOWN COMPLETE STREETS

DRAWING TITLE
INDEX OF PLANS

REFERENCES

DRAWN BY J OUTLAW
CHECKED BY R TROTTIER

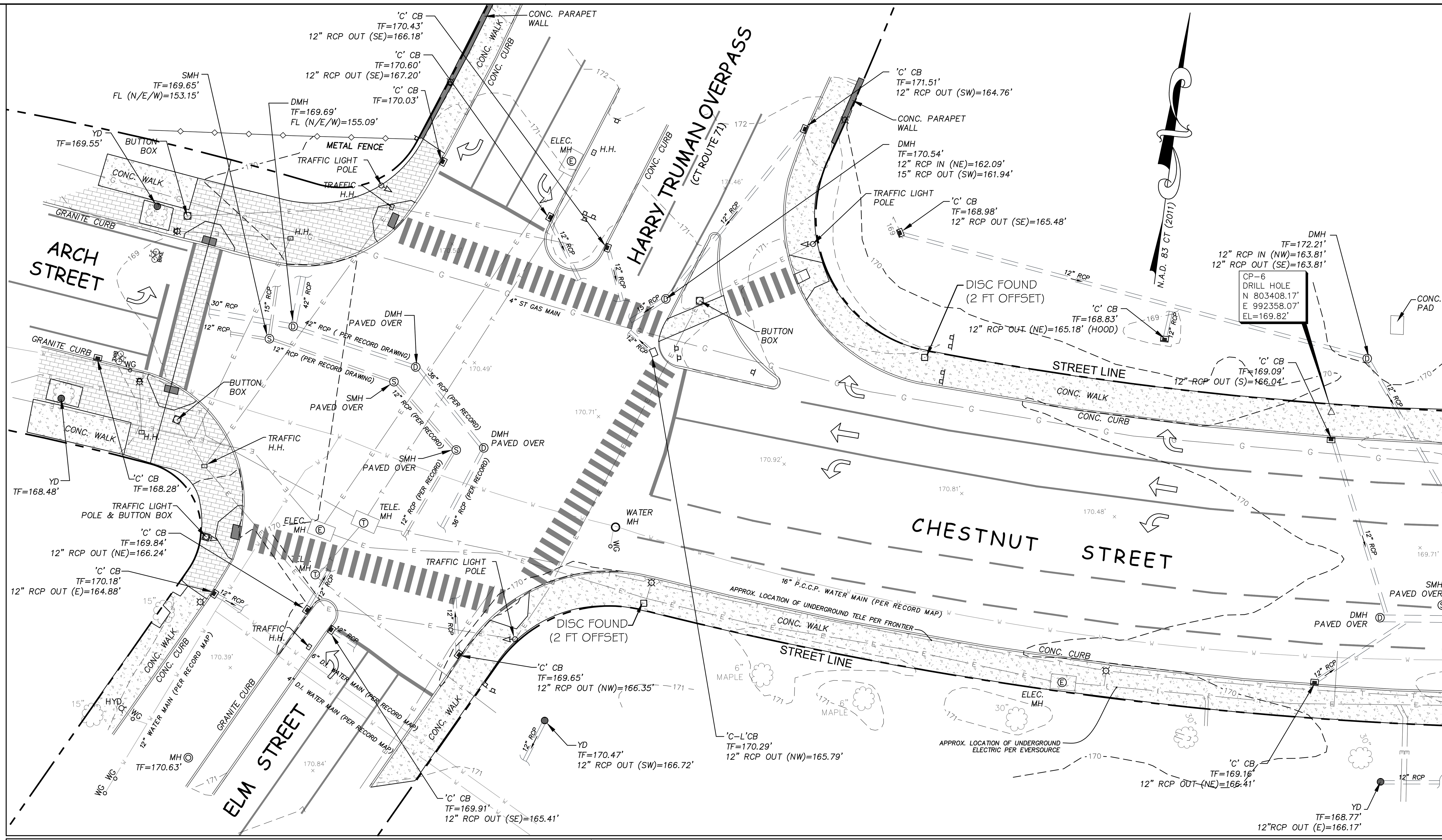
1" = 60'
0 50 100
SCALE

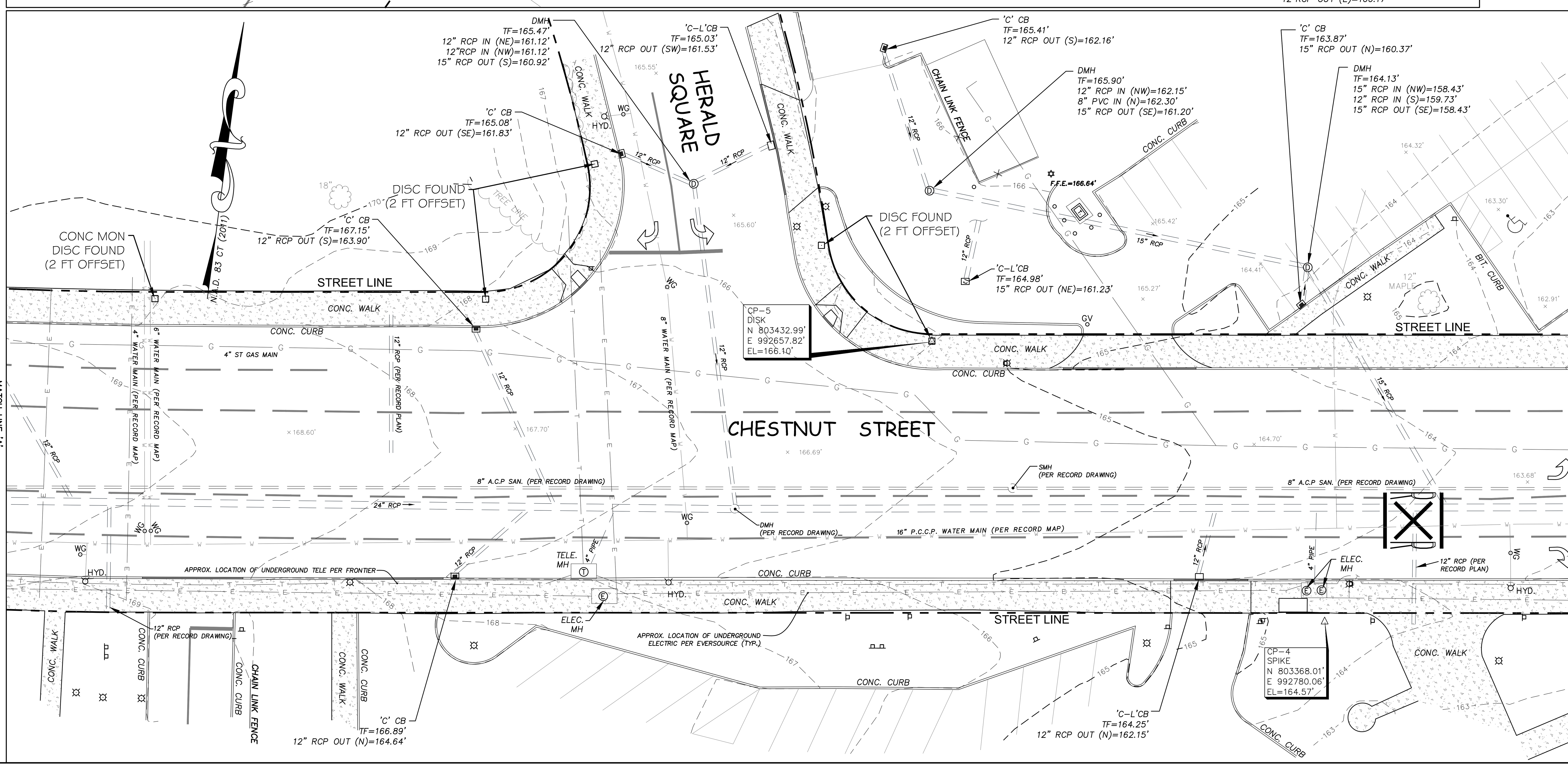
REV.	DATE	REVISION DESCRIPTION

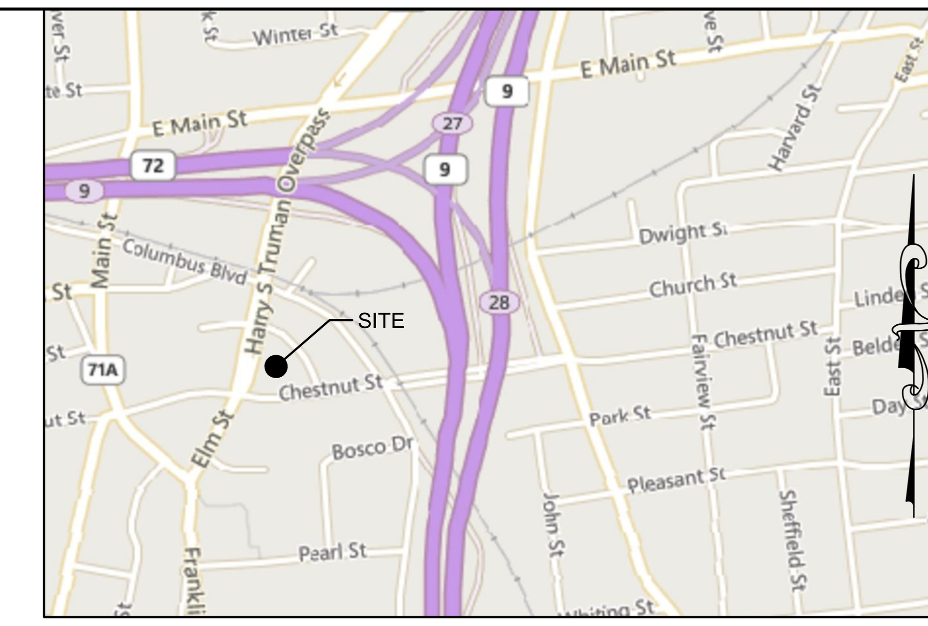
PROJECT NUMBER
3951

DRAWING NUMBER
IND-01

FILENAME







SITE LOCATION MAP (NOT TO SCALE)

LEGEND:

- IRON PIN (FOUND)
- Rebar/Drill Hole (To Be Set)
- MONUMENT (FOUND)
- MANHOLE
- DRAINAGE MANHOLE
- SANITARY MANHOLE
- ELEC. MANHOLE
- TELE. MANHOLE
- "C" CATCH BASIN
- "C–L" CATCH BASIN
- DECIDUOUS TREES
- EVERGREEN TREES
- SHRUB/BUSH
- FLAG POLE
- CBX TRAFFIC CONTROL BOX
- SIGN
- POST
- LIGHT POLE
- GUY ANCHOR
- UTILITY POLE
- WG WATER GATE
- WM WATER METER
- GV GAS VALVE
- GM GAS METER
- T TRANSFORMER
- EM ELEC. METER
- MAIL BOX
- HAND HOLE
- BUTTON BOX
- A.C. UNIT
- TRAFFIC LIGHT POLE

- BOUNDARY LINE
- GUARD RAIL
- UNDERGROUND PIPING (San.,Stm.)
- G U/G GAS LINE
- E U/G ELEC. LINE
- W WATER LINE
- OVERHEAD UTILITIES
- T U/G TELE. LINE
- CHAIN LINK FENCE
- TREE LINE

MAP NOTES:

1. THIS MAP AND SURVEY HAVE BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND "THE MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" ADOPTED JUNE 21, 1996; AMENDED OCTOBER 26, 2018.
2. THE TYPE OF SURVEY PERFORMED AND THE MAPPED FEATURES DEPICTED HEREON ARE IN ACCORDANCE WITH THE REQUIREMENTS OF A TOPOGRAPHIC/ RIGHT OF WAY SURVEY AND IS INDENTED TO DEPICT EXISTING FEATURES WITHIN A SCOPE DEFINED BY THE CLIENT.
3. THE HORIZONTAL BASELINE CONFORMS TO A CLASS A-2 ACCURACY. THE VERTICAL BASELINE CONFORMS TO A CLASS V-2 ACCURACY. THE TOPOGRAPHIC FEATURES CONFORM TO A CLASS T-2 ACCURACY.
4. THE STREET LINES DEPICTED HEREON CONFORM TO A CLASS D AND HAVE BEEN COMPILED FROM RESEARCH, RECORD MAPPING, AND OTHER SOURCES OF INFORMATION. IT IS NOT TO BE CONSTRUED AS HAVING BEEN OBTAINED AS THE RESULT OF A FIELD SURVEY AND IS SUBJECT TO CHANGE AS AN ACCURATE FIELD SURVEY MAY DISCLOSE.
5. THE NORTH ARROW AND BEARINGS ARE BASED UPON THE CONNECTICUT STATE COORDINATE SYSTEM N.A.D. 1983 (2011). THE ELEVATIONS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) USING GEOID 12B. COORDINATES AND ELEVATIONS WERE DETERMINED FROM RTK GPS OBSERVATIONS MADE ON JULY APRIL 26, 2019, USING THE CT DOT RTK NETWORK KNOWN AS ACORN (CTNE BASE), HAVING THE FOLLOWING VALUES:

   LATITUDE = N 41° 40' 24.71719"
   LONGITUDE = W 72° 42' 52.25224"
   ELLIPSOID HEIGHT = 41.746M

6. UNDERGROUND UTILITIES, STRUCTURES AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON HAVE BEEN COMPILED, IN PART FROM RECORD MAPPING SUPPLIED BY THE RESPECTIVE COMPANIES OR GOVERNMENTAL AGENCIES, OBSERVABLE FIELD EVIDENCE, AND FROM OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED AS APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE, THE EXISTENCE WHICH IS UNKNOWN TO MARTIN SURVEYING ASSOCIATES, LLC.. ALL CONTRACTORS ARE REQUIRED TO CONTACT CALL-BEFORE-YOU-DIG AT 1-800-922-4455 FOR LOCATION AND OR STAKEOUT OF ANY UTILITY PRIOR TO ANY EXCAVATION.

martin
Surveying Associates, LLC
201 CHRISTIAN LANE BERLIN, CT 06037
860-832-9328 860-357-4604 (FAX)

REVISIONS:

TOPOGRAPHIC & RIGHT OF WAY SURVEY

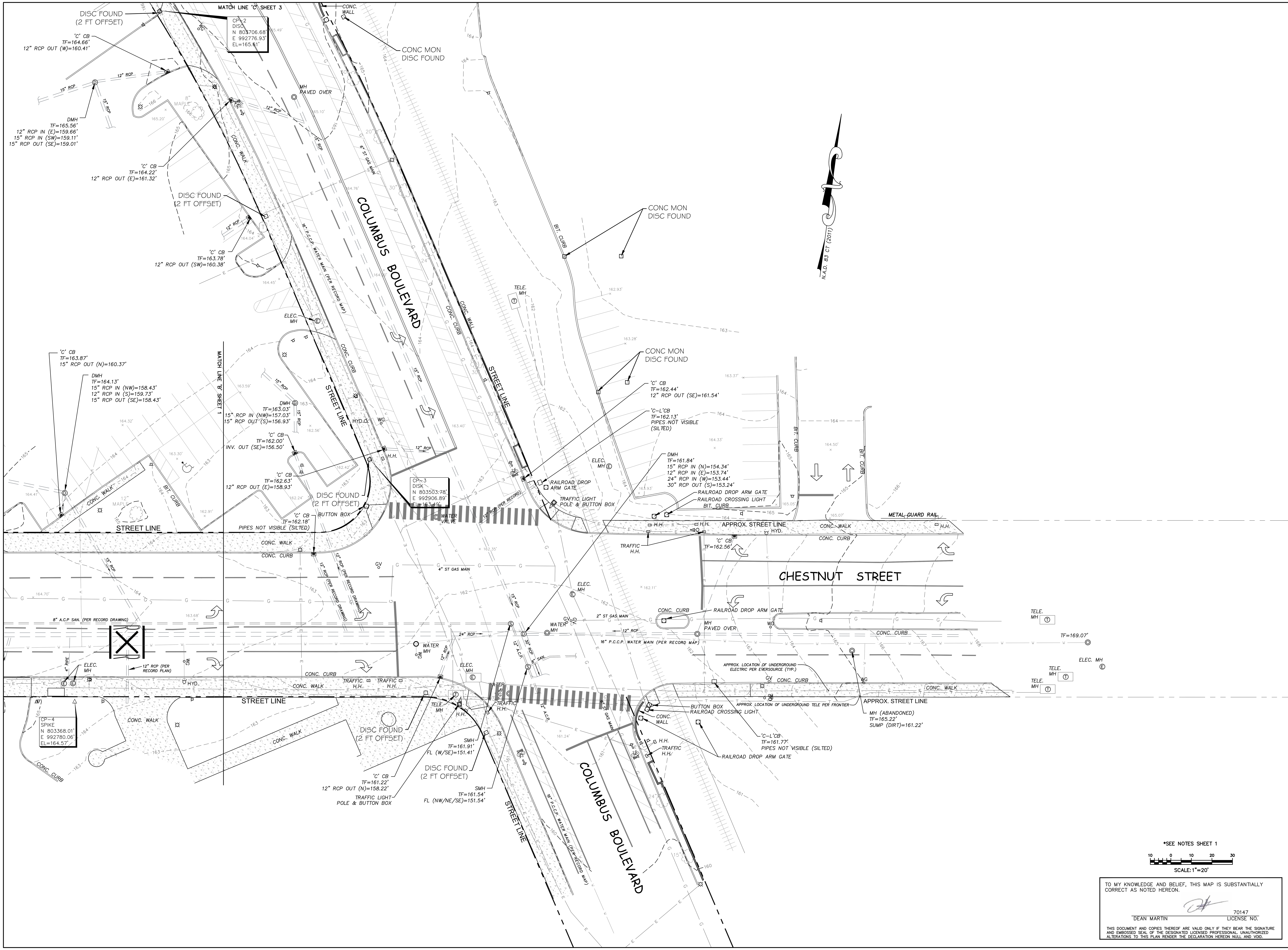
CHESTNUT STREET & COLUMBUS BOULEVARD NEW BRITAIN, CONNECTICUT

SCALE: 1"=20'

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

DEAN MARTIN — 70147 LICENSE NO.

MSA PROJECT NO: 19-037	
SCALE: 1" = 20'	DRAWN BY: G.S.D.
DATE: 5/13/2019	CHECKED BY: D.G.M.
STATE OF CONNECTICUT DEAN G. MARTIN No.70147 LICENSED LAND SURVEYOR	SHEET: 1 OF 3



LEGEND:

- IRON PIN (FOUND)
- Rebar/Drill Hole (To Be Set)
- MONUMENT (FOUND)
- MANHOLE
- DRAINAGE MANHOLE
- SANITARY MANHOLE
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- EVERGREEN TREES
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- LIGHT POLE
- GUY ANCHOR
- UTILITY POLE
- WATER GATE
- WATER METER
- GAS VALVE
- GAS METER
- TRANSFORMER
- ELEC. METER
- MAIL BOX
- HAND HOLE
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- OVERHEAD UTILITIES
- U/G TELE. LINE
- CHAIN LINK FENCE
- TREE LINE

martin
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REVISIONS:

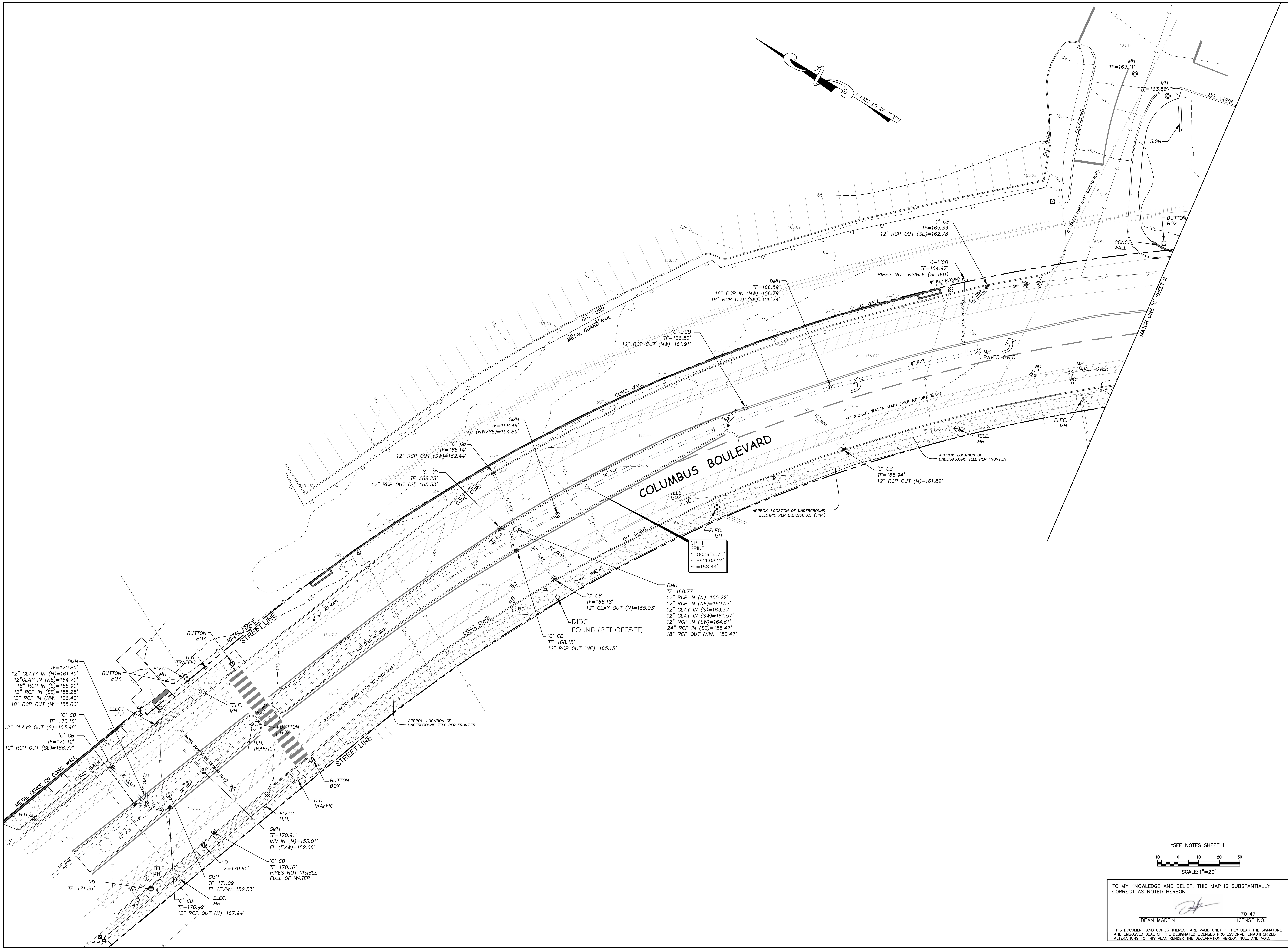
TOPOGRAPHIC & RIGHT OF WAY SURVEY
CHESTNUT STREET & COLUMBUS BOULEVARD NEW BRITAIN, CONNECTICUT

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

DEAN MARTIN 70147
LICENSE NO.

STATE OF CONNECTICUT DEAN G. MARTIN No.70147 LICENSED LAND SURVEYOR

MSA PROJECT NO: 19-037	
SCALE: 1" = 20'	DRAWN BY: G.S.D.
DATE: 5/13/2019	CHECKED BY: D.G.M.
	SHEET: 2 OF 3



*SEE NOTES SHEET 1

SCALE: 1"=20'

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

DEAN MARTIN — 70147 LICENSE NO.

THIS DOCUMENT AND COPIES THEREOF ARE VALID ONLY IF THEY BEAR THE SIGNATURE AND EMBOSSED SEAL OF THE DESIGNATED LICENSED PROFESSIONAL. UNAUTHORIZED ALTERATIONS TO THIS PLAN RENDER THE DECLARATION HEREON NULL AND VOID.

LEGEND:

- IRON PIN (FOUND)
- Rebar/Drill Hole (To Be Set)
- MONUMENT (FOUND)
- MANHOLE
- DRAINAGE MANHOLE
- SANITARY MANHOLE
- ELEC. MANHOLE
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REVISIONS:

TOPOGRAPHIC & RIGHT OF WAY SURVEY

CHESTNUT STREET & COLUMBUS BOULEVARD NEW BRITAIN, CONNECTICUT

MSA PROJECT NO: 19-037

SCALE: 1" = 20'

DRAWN BY: G.S.D.

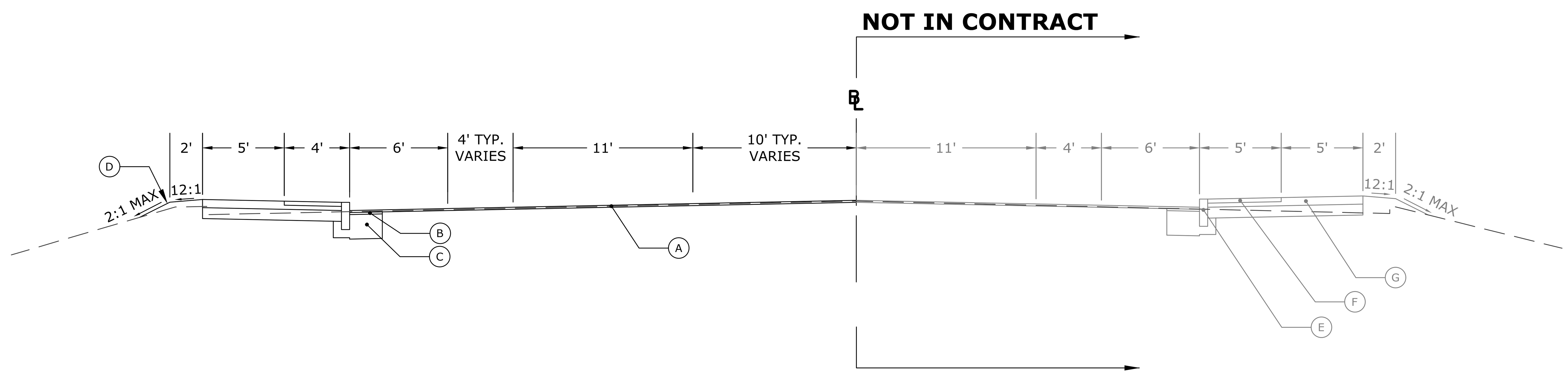
DATE: 5/13/2019

CHECKED BY: D.G.M.

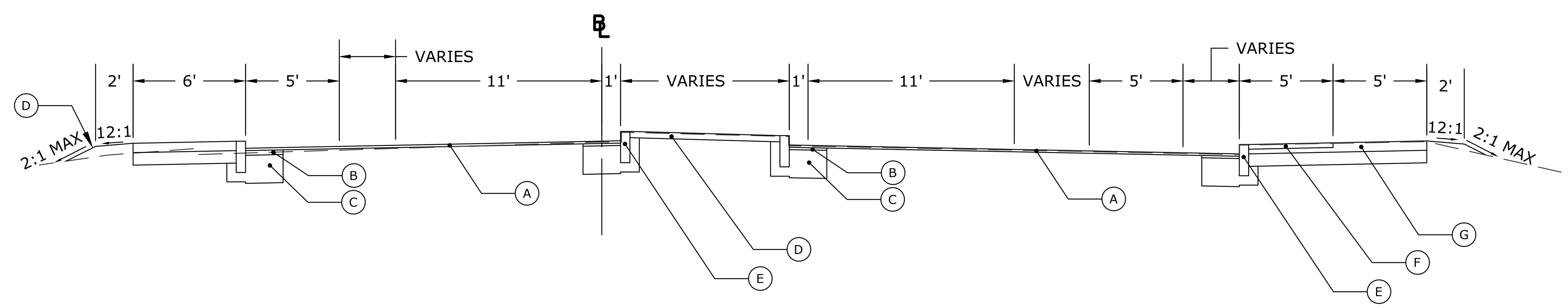
STATE OF CONNECTICUT DEAN G. MARTIN No.70147 LICENSED LAND SURVEYOR

SHEET:

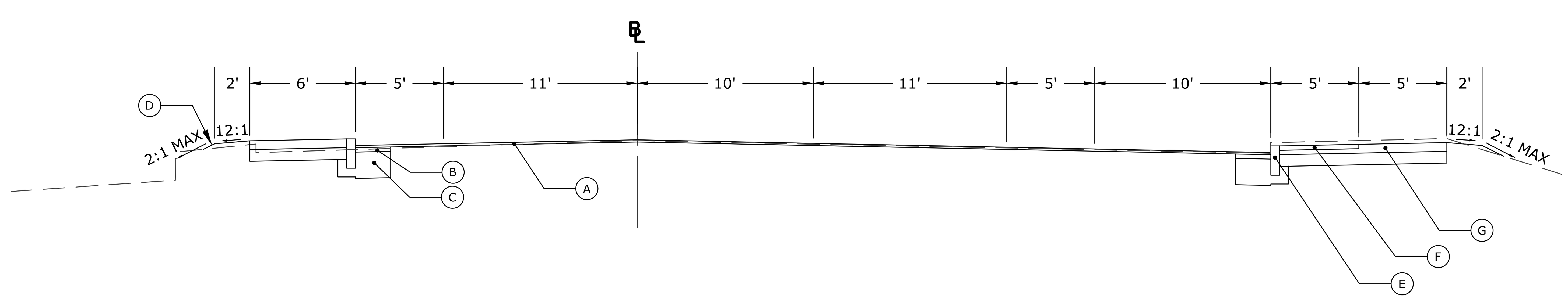
3 OF 3



CHESTNUT STREET
STA. 200+50 TO STA. 208+10



COLUMBUS BOULEVARD
STA. 102+65 TO STA. 103+12



COLUMBUS BOULEVARD
STA. 103+12 TO STA. 109+70

LEGEND:

A. 2" HMA S0.5 (MILL AND OVERLAY)
B. 3" HMA S0.5
C. 18" PROCESSED AGGREGATE BASE
D. TOPSOIL AND TURF ESTABLISHMENT
E. GRANITE CURB
F. BRICK PAVER SIDEWALK
G. CONCRETE SIDEWALK

CITY OF NEW BRITAIN
27 WEST MAIN STREET
NEW BRITAIN, CT 06051
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

SEAL OF THE CITY OF NEW BRITAIN, CT. 1871

PROJECT TITLE
COLUMBUS BOULEVARD & CHESTNUT STREET
PHASE VII - DOWNTOWN COMPLETE STREETS

DRAWING TITLE
TYPICAL CROSS SECTIONS

REFERENCES

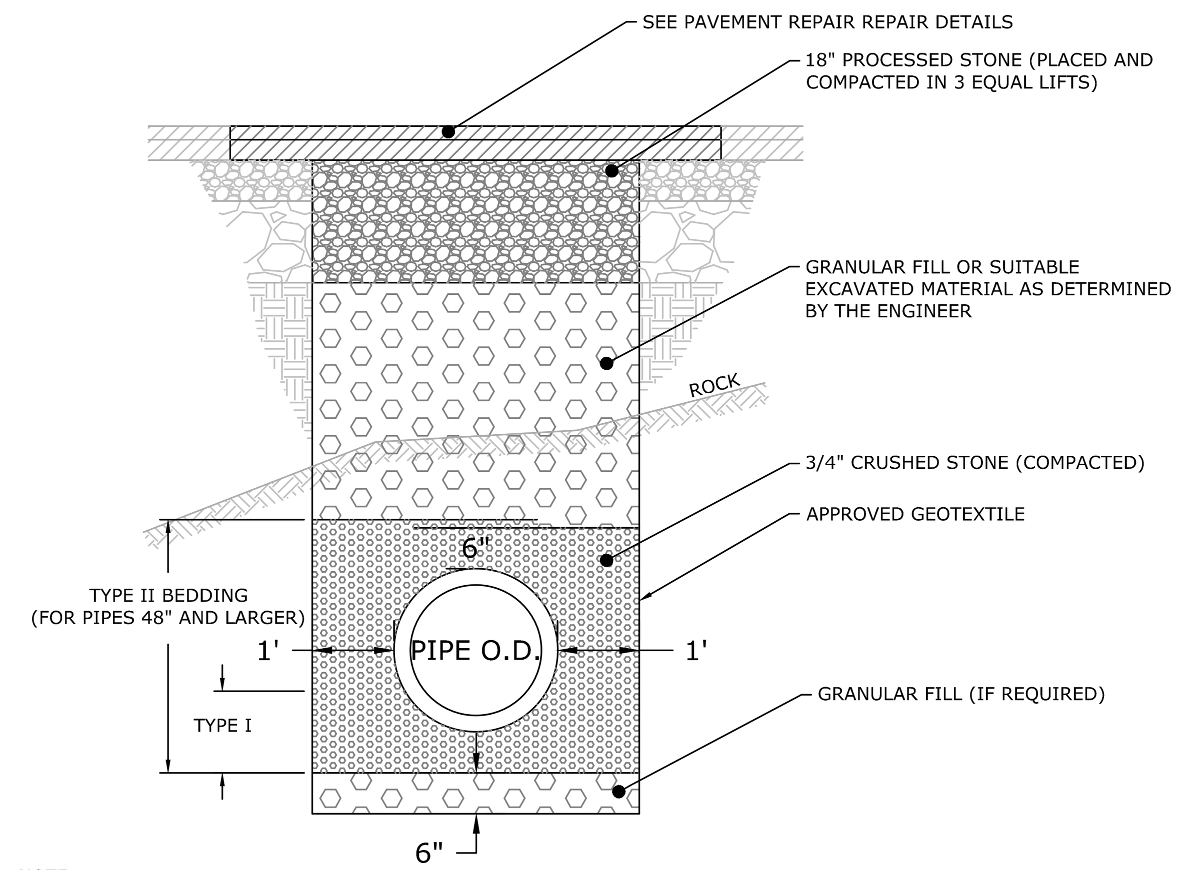
DRAWN BY J. OUTLAW
CHECKED BY R.TROTTIER
NOT TO SCALE
SCALE

REV.	DATE	REVISION DESCRIPTION

PROJECT NUMBER
3951

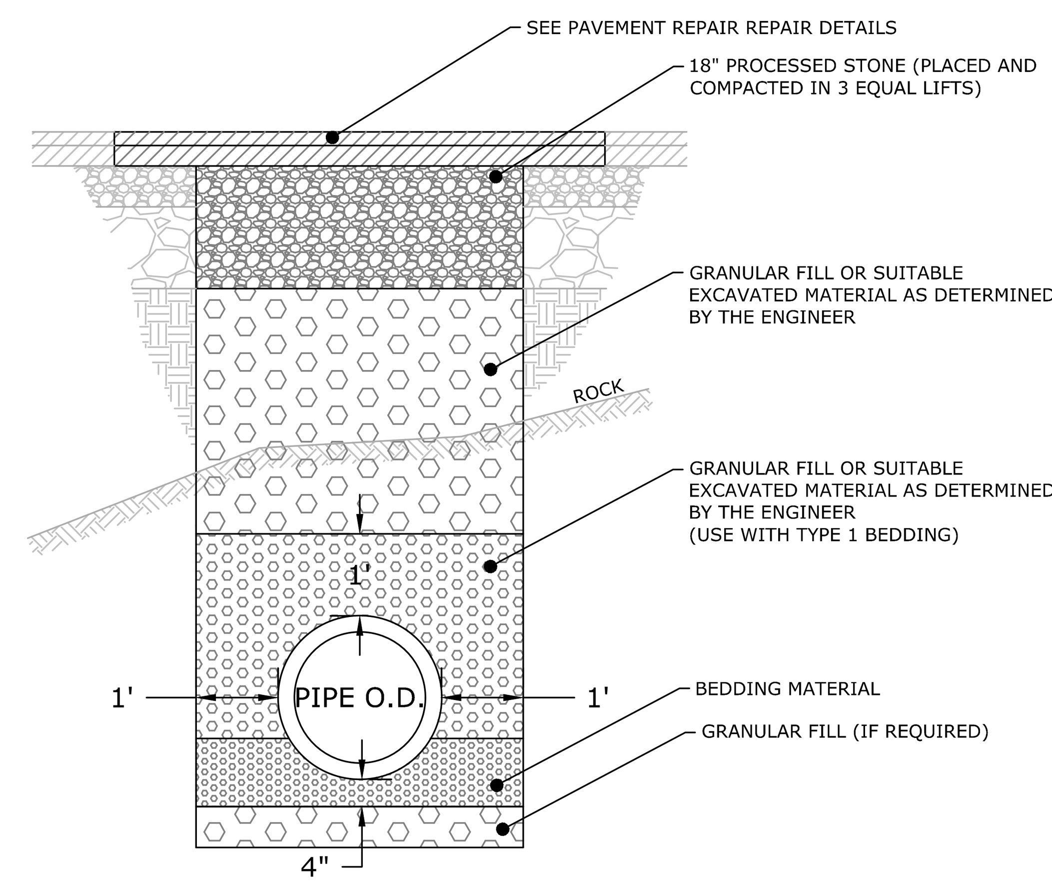
DRAWING NUMBER
TYP-01

FILENAME



NOTE:
1. EXAMPLES OF FLEXIBLE PIPE ARE P.V.C. AND H.D.P.E. USED FOR STORM AND SANITARY INSTALLATIONS.
2. H.D.P.E. PIPE SHALL ONLY BE USED WITH APPROVAL FROM THE CITY ENGINEER
3. THE GEOTEXTILE SHALL BE FITTED AROUND MANHOLES AND EXTEND 1' UP THE MANHOLE. ALL LAPS SHALL BE MINIMUM OF 18".
4. FOLLOW PROCEDURE AND SPECIFICATIONS IN ASTM D2321 AND ASTM D3034 SDR35 FOR 6" - 15" AND ASTM F679, TYPE 1, SDR35 FOR LARGER PIPE.
5. ALL NEW SANITARY AND STORM INSTALLATIONS SHALL BE TELEVISED.
6. IN AREAS WHERE THE PIPE IS LOCATED WITHIN ROCK EXCAVATION, THE GEOTEXTILE NEED ONLY BE PLACED ALONG THE TOP OF THE 3/4" CRUSHED STONE, EXTENDING UP 6" ALONG EITHER SIDE OF THE TRENCH.
7. IN CASES WHERE PIPE MANUFACTURER'S RECOMMENDATIONS ARE DIFFERENT FROM THE DETAIL CONSULT WITH THE CITY ENGINEER FOR APPROVAL.

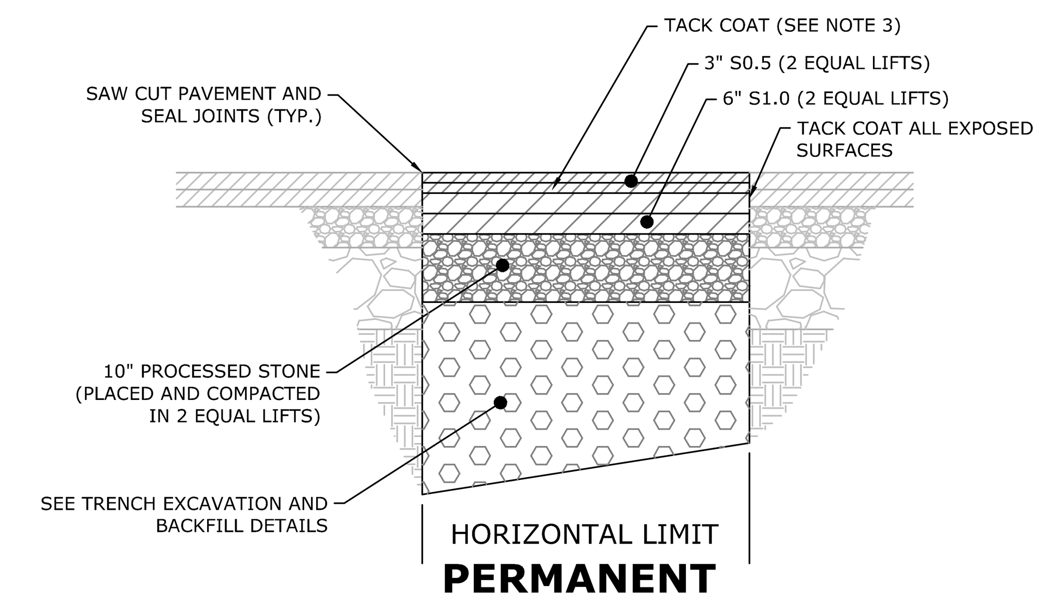
TRENCH EXCAVATION AND BACKFILL - FLEXIBLE PIPE
NOT TO SCALE



NOTE:
1. EXAMPLES OF RIGID PIPE ARE R.C.P. AND D.I.P.
2. ALL NEW SANITARY AND STORM INSTALLATIONS SHALL BE TELEVISED
3. PIPE BEDDING SHALL CONFORM TO SECTION M.08.03
4. GRANULAR FILL SHALL CONFORM TO SECTION M.02.01 GRADING C

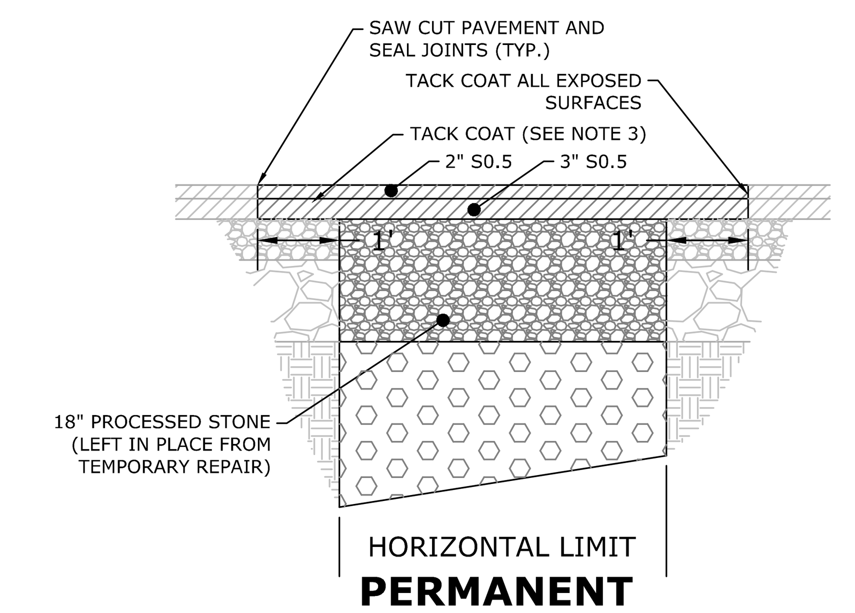
BEDDING TYPE PLACEMENT CHART				
BEDDING TYPE	PIPE SIZE	DEPTH BELOW PIPE	HEIGHT ABOVE INV.	HEIGHT ABOVE PIPE
TYPE I	LESS THAN 48"	4" (EARTH) 12" (ROCK)	25% PIPE O.D.	-
TYPE II	48" AND LARGER	4" (EARTH) 12" (ROCK)	-	12"

TRENCH EXCAVATION AND BACKFILL - RIGID PIPE
NOT TO SCALE



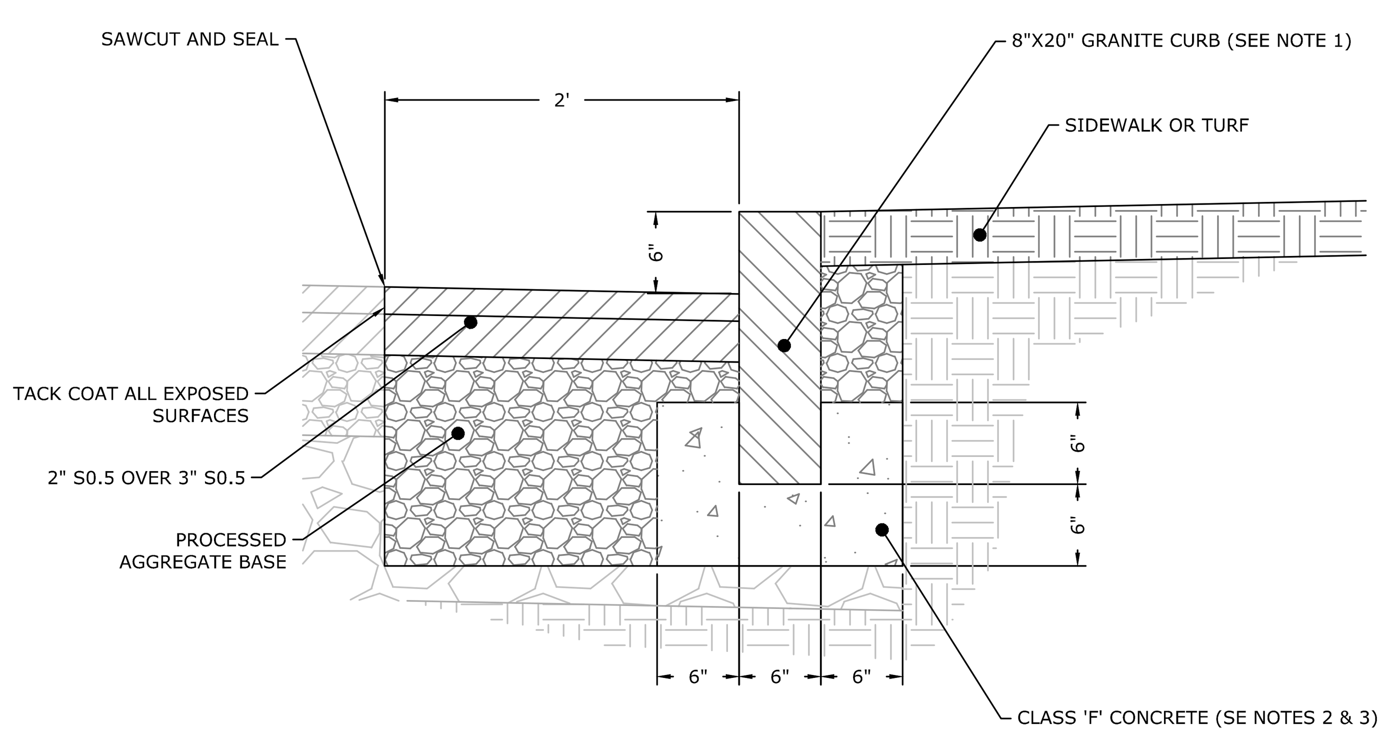
NOTE:
1. TACK COAT REQUIRED BETWEEN PAVEMENT LIFTS WHEN BINDER COARSE IS INSTALLED MORE THAN 24 HOURS BEFORE SURFACE COARSE.

BIT. CONC. PATCHCING - FULL DEPTH - STATE
NOT TO SCALE

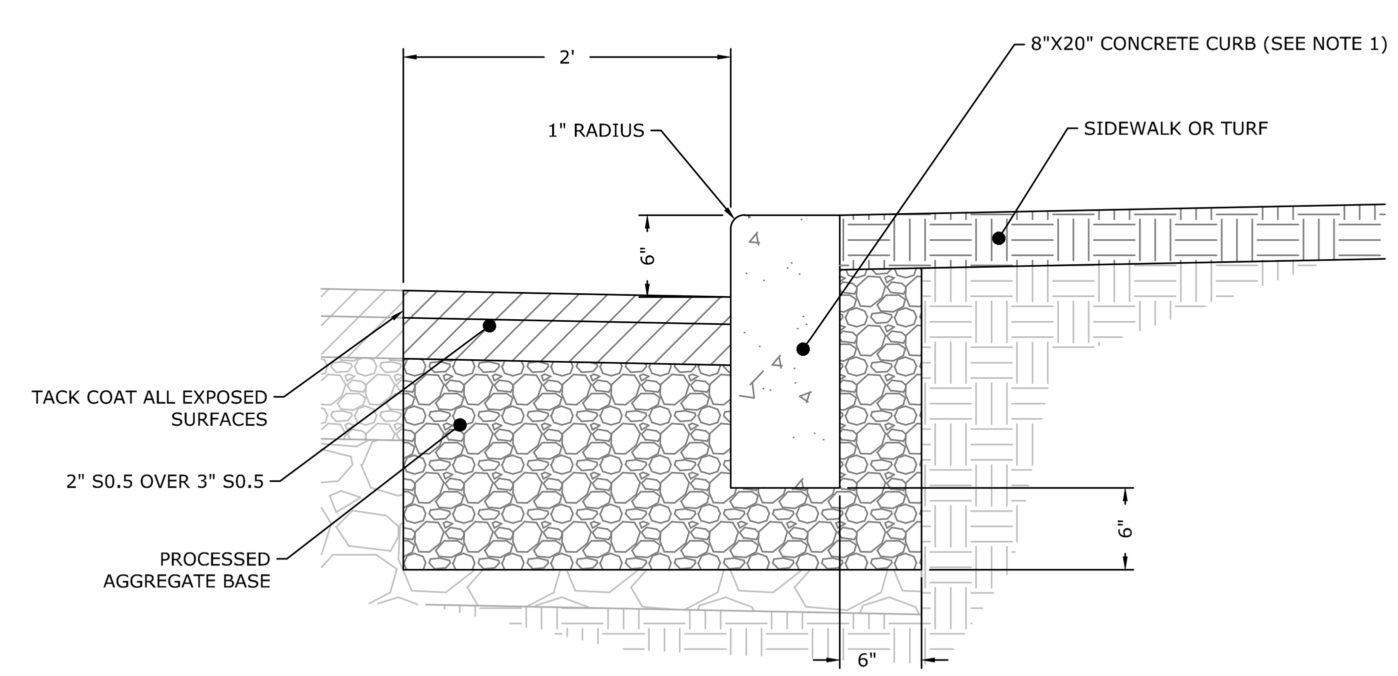


NOTE:
1. TACK COAT REQUIRED BETWEEN PAVEMENT LIFTS WHEN BINDER COARSE IS INSTALLED MORE THAN 24 HOURS BEFORE SURFACE COARSE.
2. BITUMINOUS CONCRETE CLASS 1 MAY BE USED IN PLACE OF SUPERPAVE S0.5 WHEN APPROVED BY THE CITY ENGINEER.

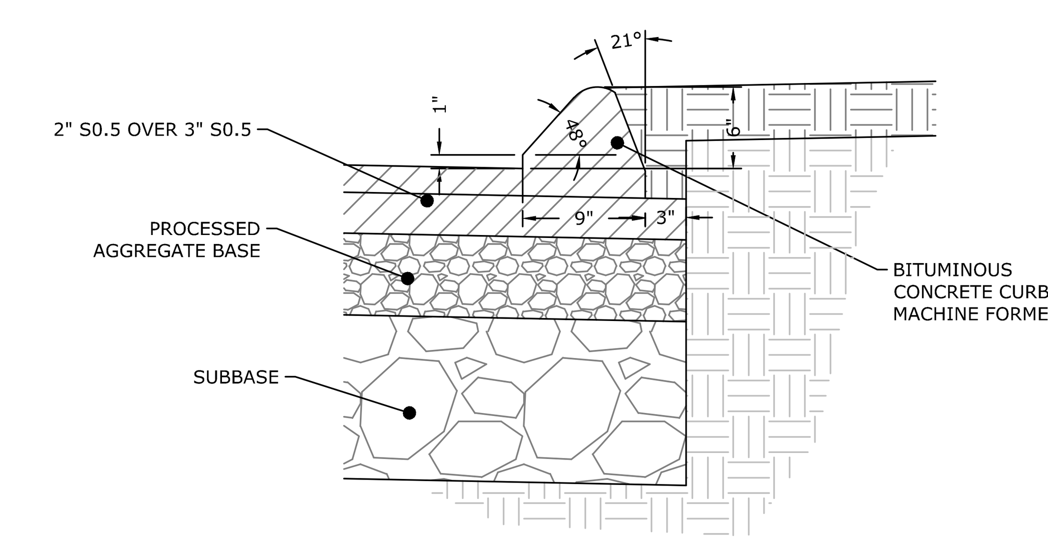
BIT. CONC. PATCHING - FULL DEPTH
NOT TO SCALE



EXISTING ROAD



EXISTING ROAD WITH PAVEMENT REPAIR



LIP CURB

NOTE:
1. GRANITE CURB TO BE 6"X18" IN STRAIGHT SECTIONS AND 6"X20" IN CURVED SECTIONS
2. FOR STRAIGHT CURBING, PLACE CONCRETE ONLY AT JOINTS, REMAINDER PROCESSED AGGREAGATE
3. FOR RADIUS CURBING (R<100') PLACE CONCRETE CONTINUOUS.
4. TACK COAT REQUIRED BETWEEN PAVEMENT LIFTS WHEN BINDER COARSE IS INSTALLED MORE THAN 24 HOURS BEFORE SURFACE COARSE.
5. BITUMINOUS CONCRETE CLASS 1 MAY BE USED IN PLACE OF SUPERPAVE S0.5 WHEN APPROVED BY THE CITY ENGINEER.

GRANITE CURB
NOT TO SCALE

NOTE:
1. 24" WIDE PAVEMENT REPAIR MAY BE ELIMINATED FOR CONCRETE CURB WHEN APPROVED BY THE CITY ENGINEER
3. TACK COAT REQUIRED BETWEEN PAVEMENT LIFTS WHEN BINDER COARSE IS INSTALLED MORE THAN 24 HOURS BEFORE SURFACE COARSE.
4. BITUMINOUS CONCRETE CLASS 1 MAY BE USED IN PLACE OF SUPERPAVE S0.5 WHEN APPROVED BY THE CITY ENGINEER.

CONCRETE CURB
NOT TO SCALE

NOTE:
1. 24" WIDE PAVEMENT REPAIR MAY BE ELIMINATED FOR CONCRETE CURB WHEN APPROVED BY THE CITY ENGINEER
3. TACK COAT REQUIRED BETWEEN PAVEMENT LIFTS WHEN BINDER COARSE IS INSTALLED MORE THAN 24 HOURS BEFORE SURFACE COARSE.
4. BITUMINOUS CONCRETE CLASS 1 MAY BE USED IN PLACE OF SUPERPAVE S0.5 WHEN APPROVED BY THE CITY ENGINEER.

BITUMINOUS CURB
NOT TO SCALE

CITY OF NEW BRITAIN
27 WEST MAIN STREET
NEW BRITAIN, CT 06051
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

PROJECT TITLE
COLUMBUS BOULEVARD & CHESTNUT STREET
PHASE VII - DOWNTOWN COMPLETE STREETS

DRAWING TITLE
MISCELLANEOUS DETAILS

REFERENCES

DRAWN BY J. OUTLAW
CHECKED BY R. TROTTIER

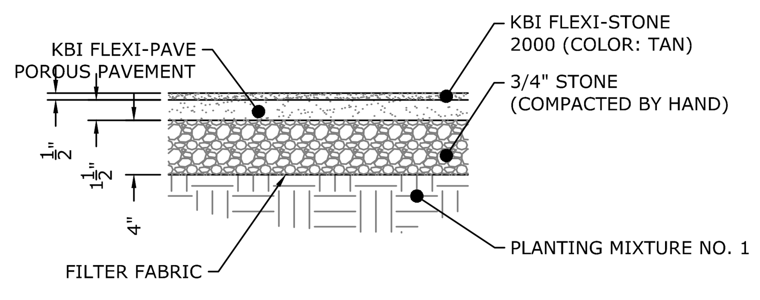
NOT TO SCALE
SCALE

REV. | DATE | REVISION DESCRIPTION

PROJECT NUMBER
3951

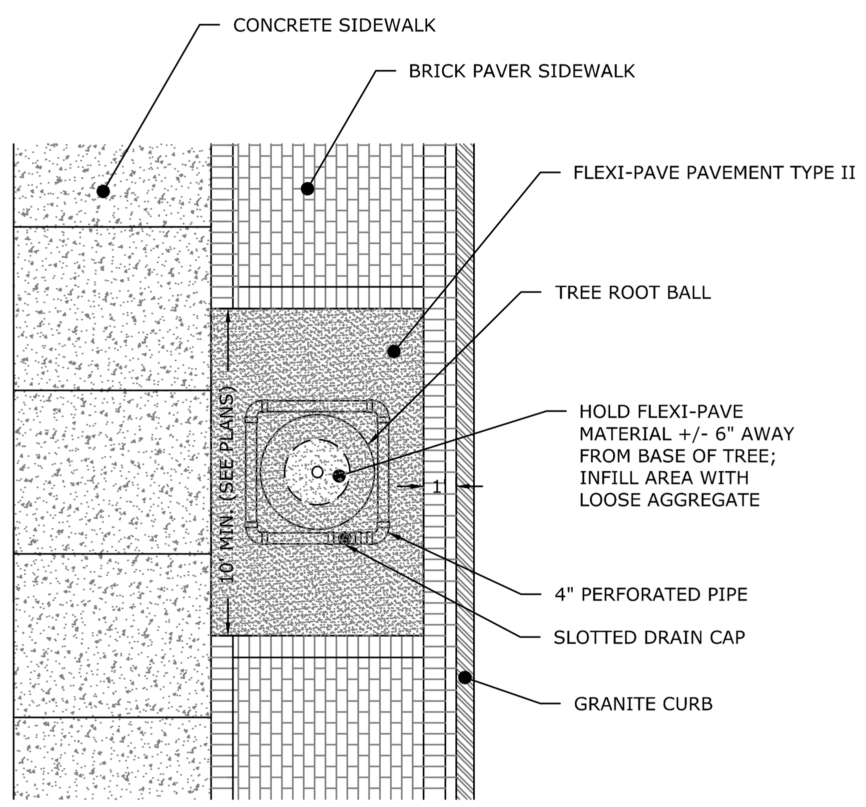
DRAWING NUMBER
MDS-01

FILENAME

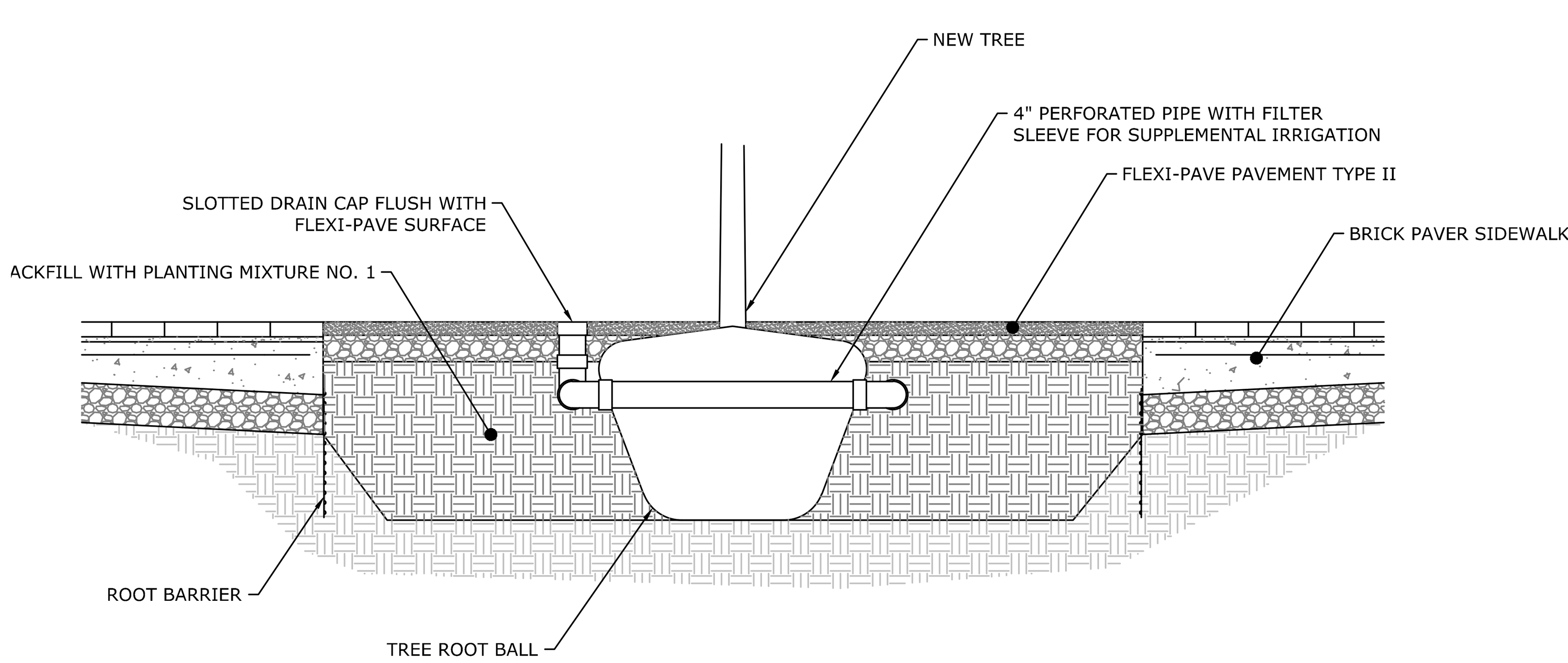


TYPE II

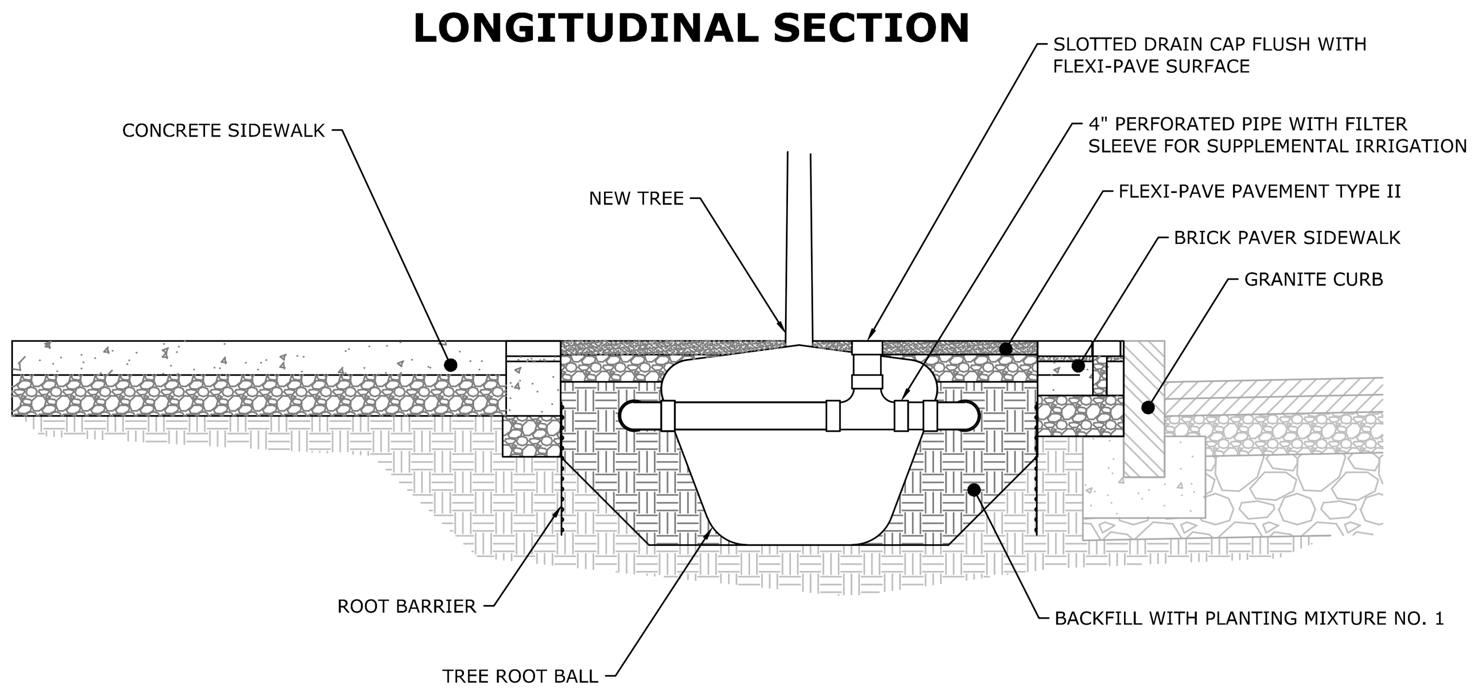
FLEXI-PAVE PAVEMENT
NOT TO SCALE



FLEXI-PAVE PAVEMENT AT NEW TREE
NOT TO SCALE

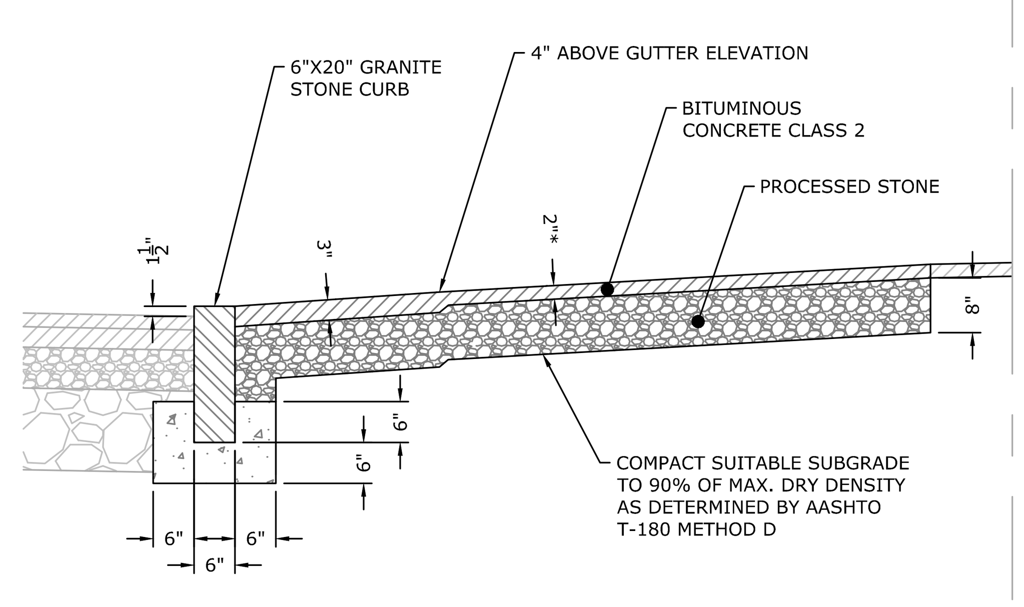


LONGITUDINAL SECTION

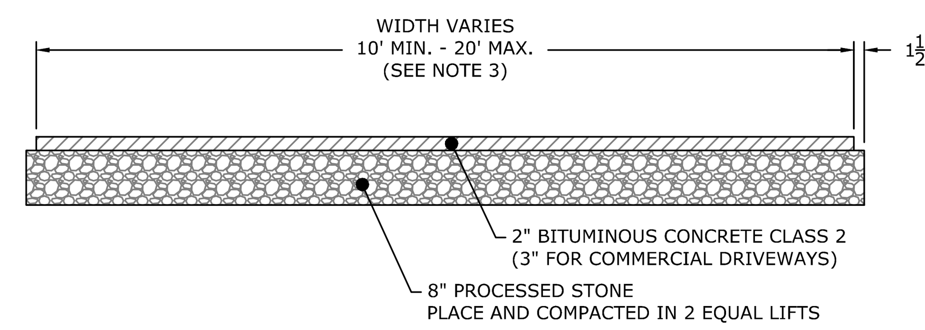


TRANSVERSE SECTION

FLEXI-PAVE PAVEMENT AT NEW TREE
NOT TO SCALE



ROADWAY WITH GRANITE CURB

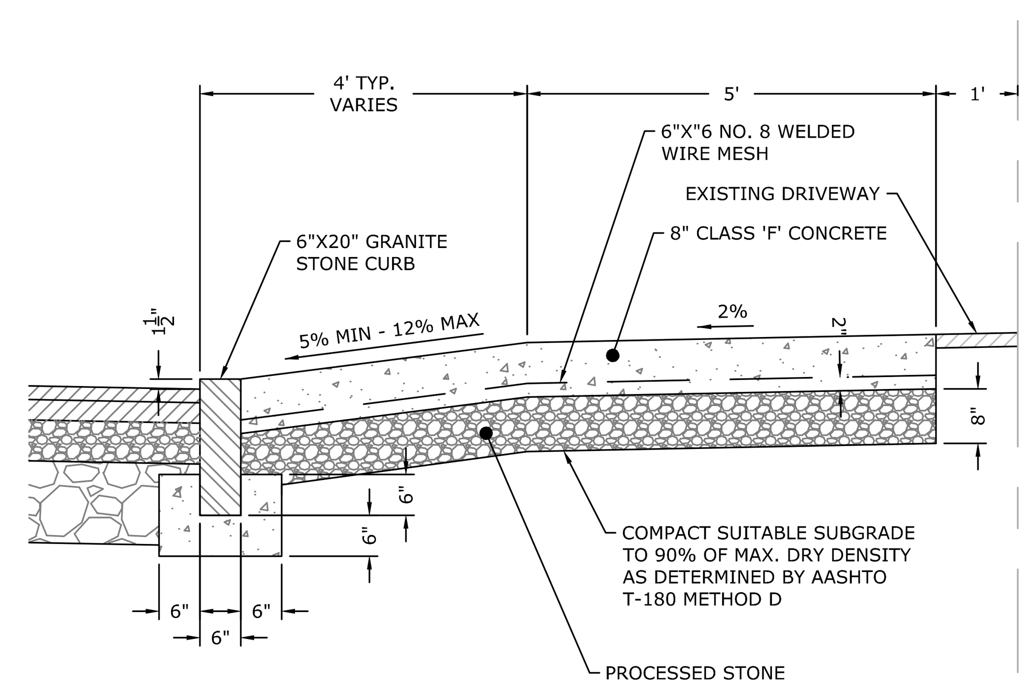


TYPICAL SECTION

NOTE:
1. CONCRETE TO BE PLACED CONTINUOUSLY AT BASE OF GRANITE CURBING FOR ENTIRE WIDTH OF DRIVEWAY APRON INCLUDING FLARED SECTIONS TO BE INCLUDED IN THE L.F. PRICE OF GRANITE STONE CURB
2. SEE GRANITE CURB DETAILS FOR INSTALLATION ON EXISTING ROADS
3. DRIVEWAY WIDTHS - MIN. 10', MAX. 20'. DRIVEWAYS GREATER THAN 20' REQUIRE APPROVAL FROM THE CITY ENGINEER

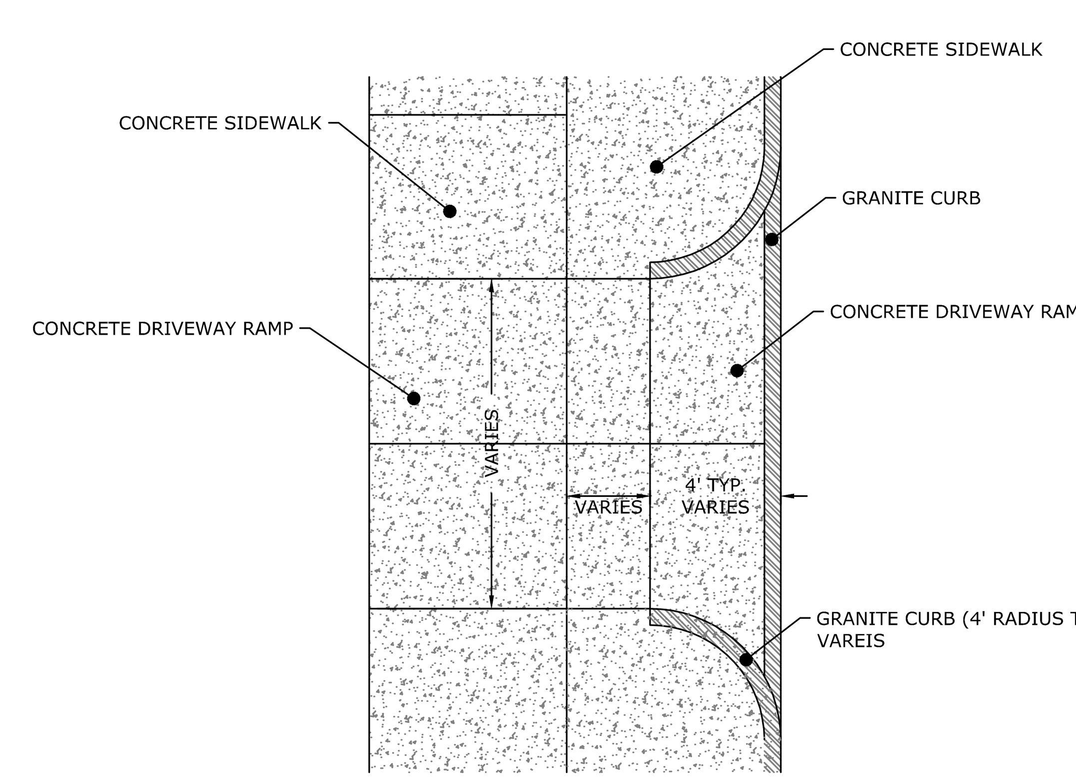
* 3" FOR COMMERCIAL DRIVEWAYS

BITUMINOUS CONCRETE DRIVEWAY
NOT TO SCALE



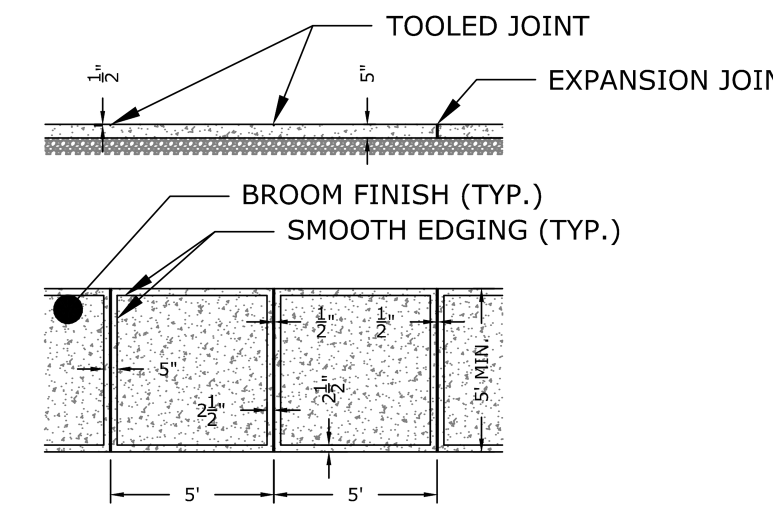
NOTE:
1. CONCRETE TO BE PLACED CONTINUOUSLY AT BASE OF GRANITE CURBING FOR ENTIRE WIDTH OF CONCRETE DRIVEWAY APRON INCLUDING FLARED SECTIONS OR CURVED RETURNS TO BE INCLUDED IN THE L.F. PRICE OF 6" GRANITE STONE CURB
2. SEE GRANITE CURB DETAILS FOR INSTALLATION ON EXISTING ROADS
3. DRIVEWAY WIDTHS - MIN. 10', MAX. 20'. DRIVEWAYS GREATER THAN 20' REQUIRE APPROVAL FROM THE CITY ENGINEER

CONCRETE DRIVEWAY RAMP WITH GRANITE CURB
NOT TO SCALE



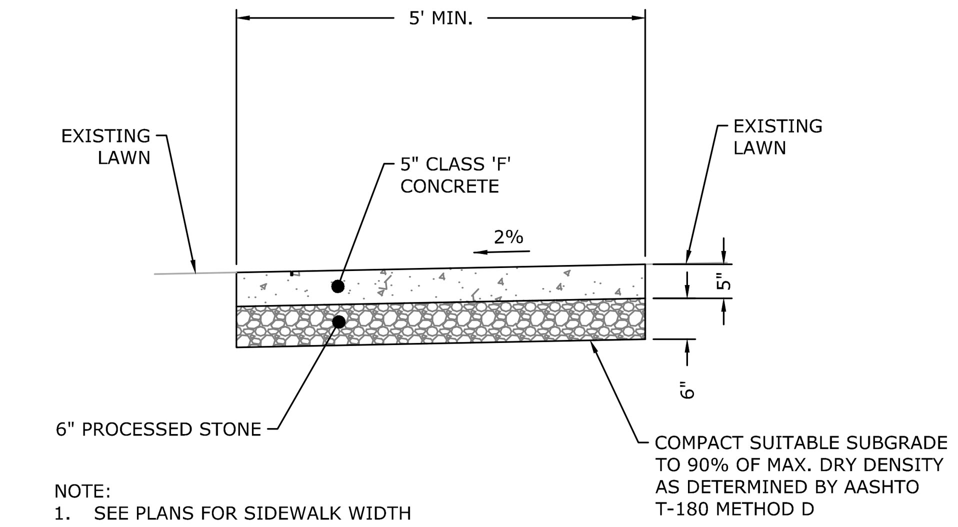
NOTE:
1. CONCRETE TO BE PLACED CONTINUOUSLY AT BASE OF GRANITE CURBING FOR ENTIRE WIDTH OF CONCRETE DRIVEWAY APRON INCLUDING CURVED RETURNS TO BE INCLUDED IN THE L.F. PRICE OF 6" GRANITE STONE CURB
2. SEE GRANITE CURB DETAILS FOR INSTALLATION ON EXISTING ROADS
3. DRIVEWAY WIDTHS - MIN. 10', MAX. 20'. DRIVEWAYS GREATER THAN 20' REQUIRE APPROVAL FROM THE CITY ENGINEER

CONCRETE DRIVEWAY RAMP WITH GRANITE CURB (CURVED RETURNS)
NOT TO SCALE



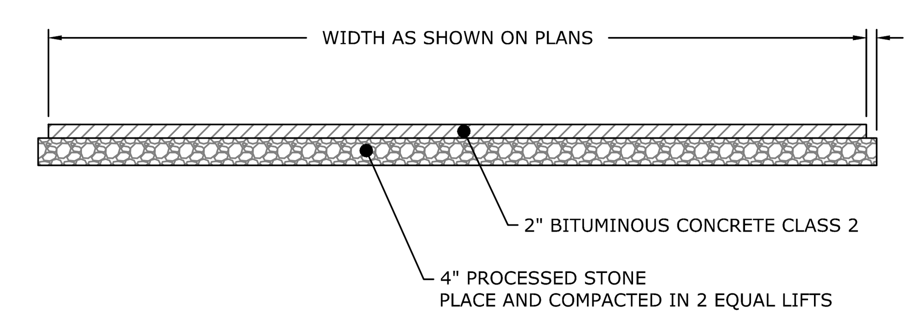
1. MAXIMUM 20' SPACING BETWEEN EXPANSION JOINTS FOR SIDEWALKS UP TO 7'. SIDEWALKS GREATER THAN 7' MAXIMUM SPACING OF 15'

CONC. SIDEWALK JOINTING AND EDGING
NOT TO SCALE

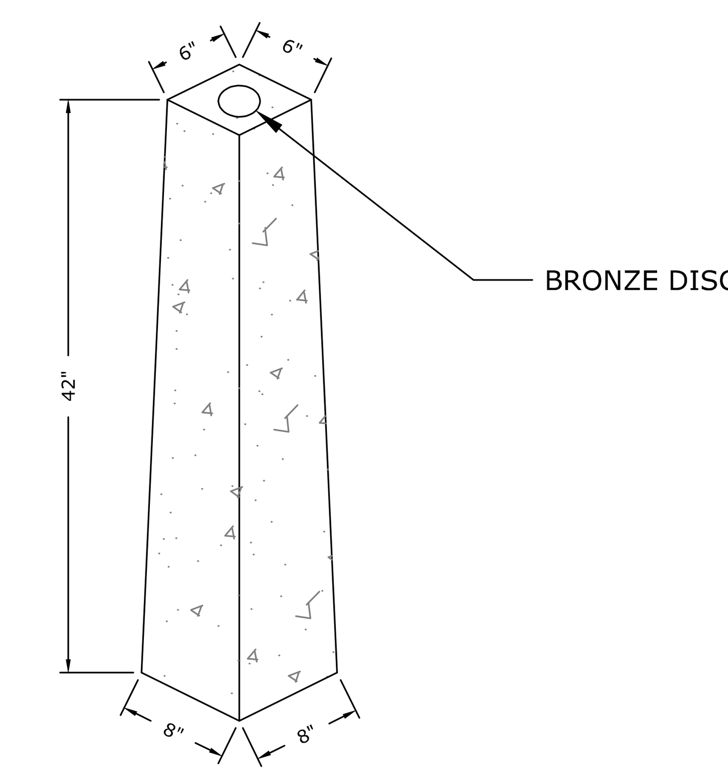


NOTE:
1. SEE PLANS FOR SIDEWALK WIDTH

CONCRETE SIDEWALK
NOT TO SCALE

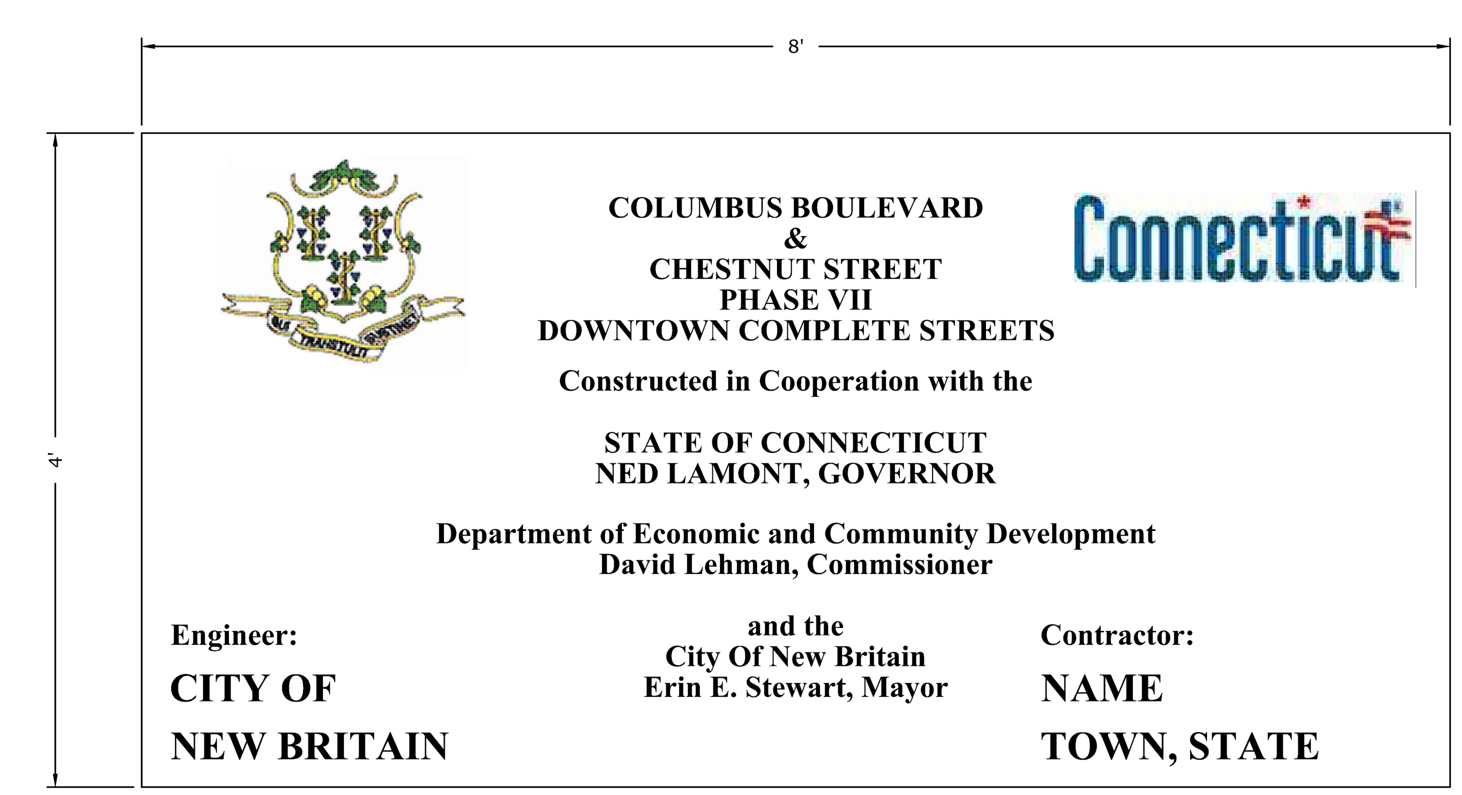


TEMPORARY BIT. CONC. SIDEWALK
NOT TO SCALE



NOTES:
1. CONCRETE REINFORCED WITH 5 -#5 BARS.
2. CITY OF NEW BRITAIN BRONZE DISC MUST BE PURCHASED FROM DPW FOR MANUFACTURING MONUMENTS.

STANDARD NEW BRITAIN CONC. MONUMENT
NOT TO SCALE



NOTES:
CONTRACTOR TO SUBMIT SHOP DRAWING FOR REVIEW AND APPROVAL.
TO BE PAID FOR AT THE CONTRACT UNIT PRICE FOR CONSTRUCTION SIGNS

SIGN PANEL: ¾" MDO-EXT-APA PLYWOOD SUPPORTED WITH (2) 4X4 TREATED WOOD COLUMNS AND SECURED 4' INTO GRADE. TOP OF SIGN AT 8'-0" ABOVE GRADE.
COLORS: ALL LETTERS AND SYMBOLS ARE TO BE ROYAL BLUE. THE BACKGROUND WILL BE WHITE
ENAMEL: BACK OF PLYWOOD AND SUPPORT STRUCTURE SHALL BE PAINTED MATTE BLACK.
TYPEFACE: HELVETICA MEDIUM
LOCATION: SIGN MUST BE LOCATED TO BE CLEARLY VISIBLE TO THE PUBLIC.
TIMING: INSTALL AT THE START OF CONSTRUCTION AND REMOVE AT CONSTRUCTION COMPLETION.

DECD PROJECT SIGN
NOT TO SCALE

CITY OF NEW BRITAIN
27 WEST MAIN STREET
NEW BRITAIN, CT 06051
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

SEAL OF THE CITY OF NEW BRITAIN, CT. 1871

PROJECT TITLE: COLUMBUS BOULEVARD & CHESTNUT STREET PHASE VII - DOWNTOWN COMPLETE STREETS

DRAWING TITLE: MISCELLANEOUS DETAILS

REFERENCES

DRAWN BY: J. OUTLAW

CHECKED BY: R. TROTTIER

NOT TO SCALE

SCALE

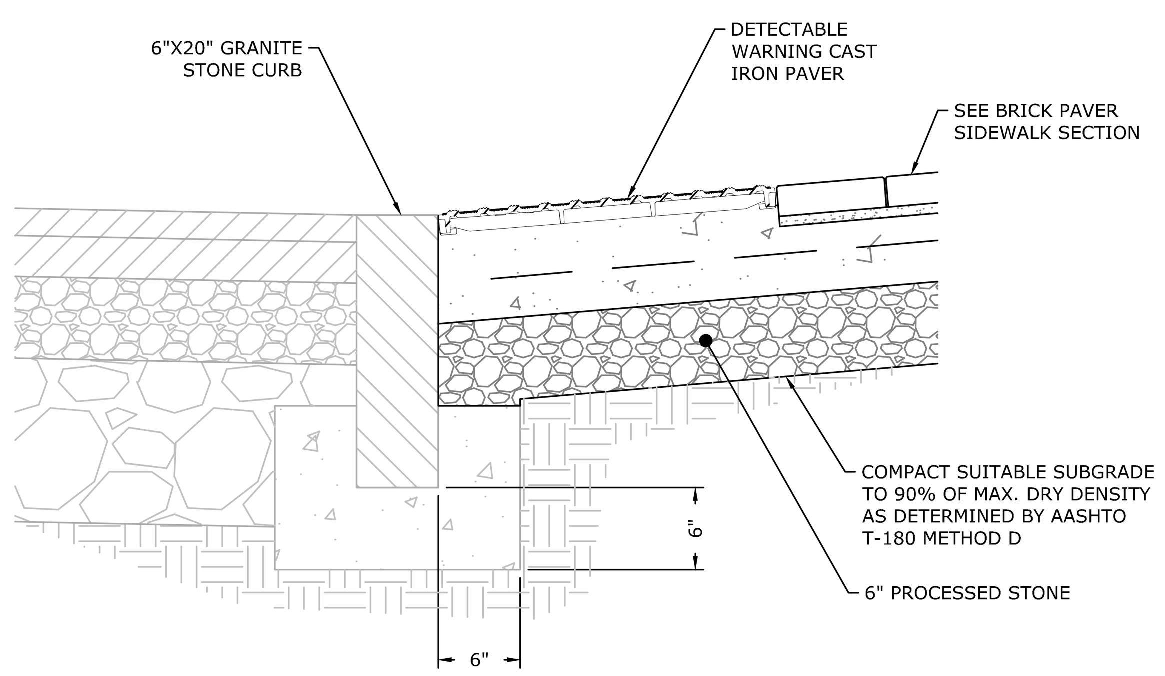
REVISION DESCRIPTION

REV. DATE

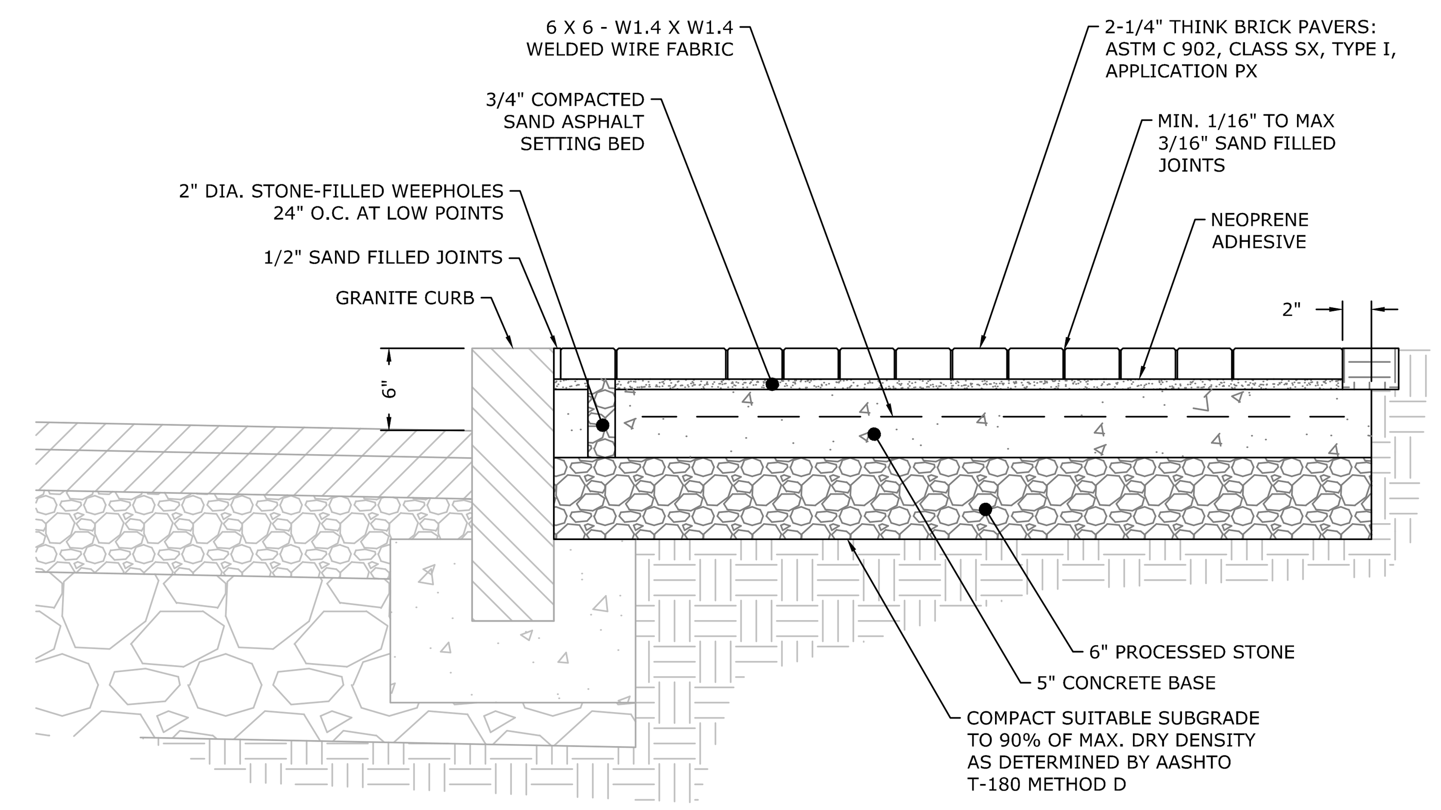
PROJECT NUMBER: 3951

DRAWING NUMBER: MDS-02

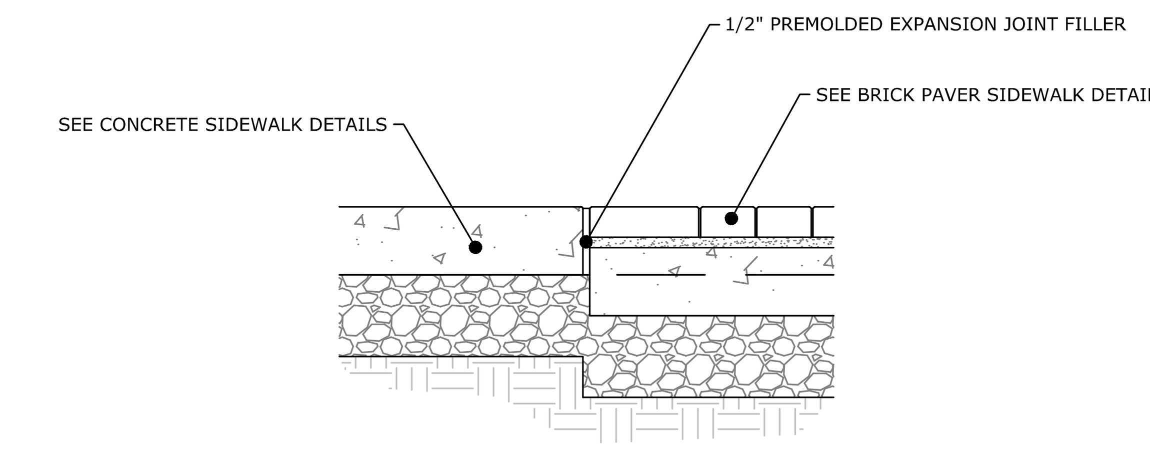
FILENAME



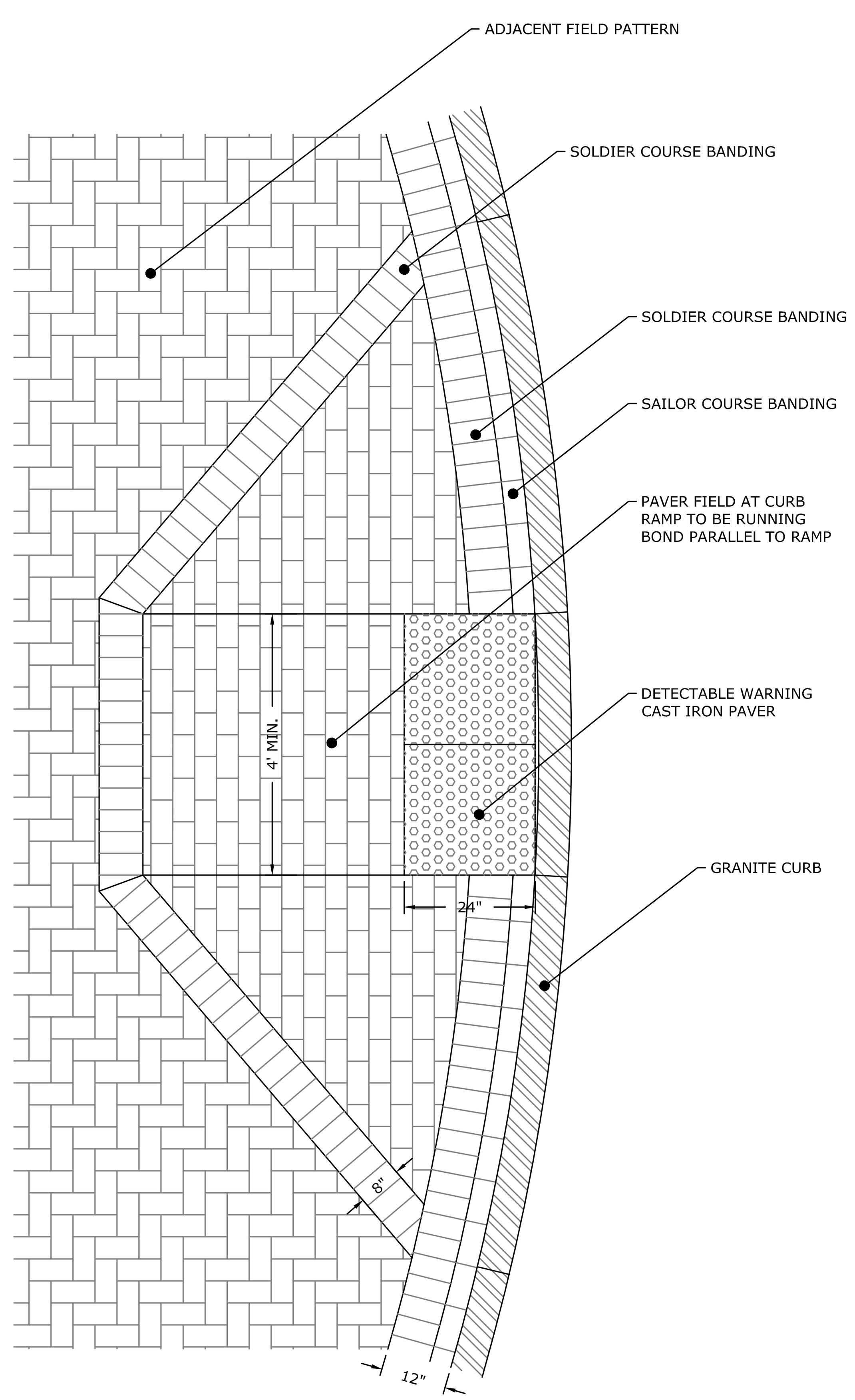
BRICK PAVER SIDEWALK RAMP
NOT TO SCALE



BRICK PAVER SIDEWALK
NOT TO SCALE

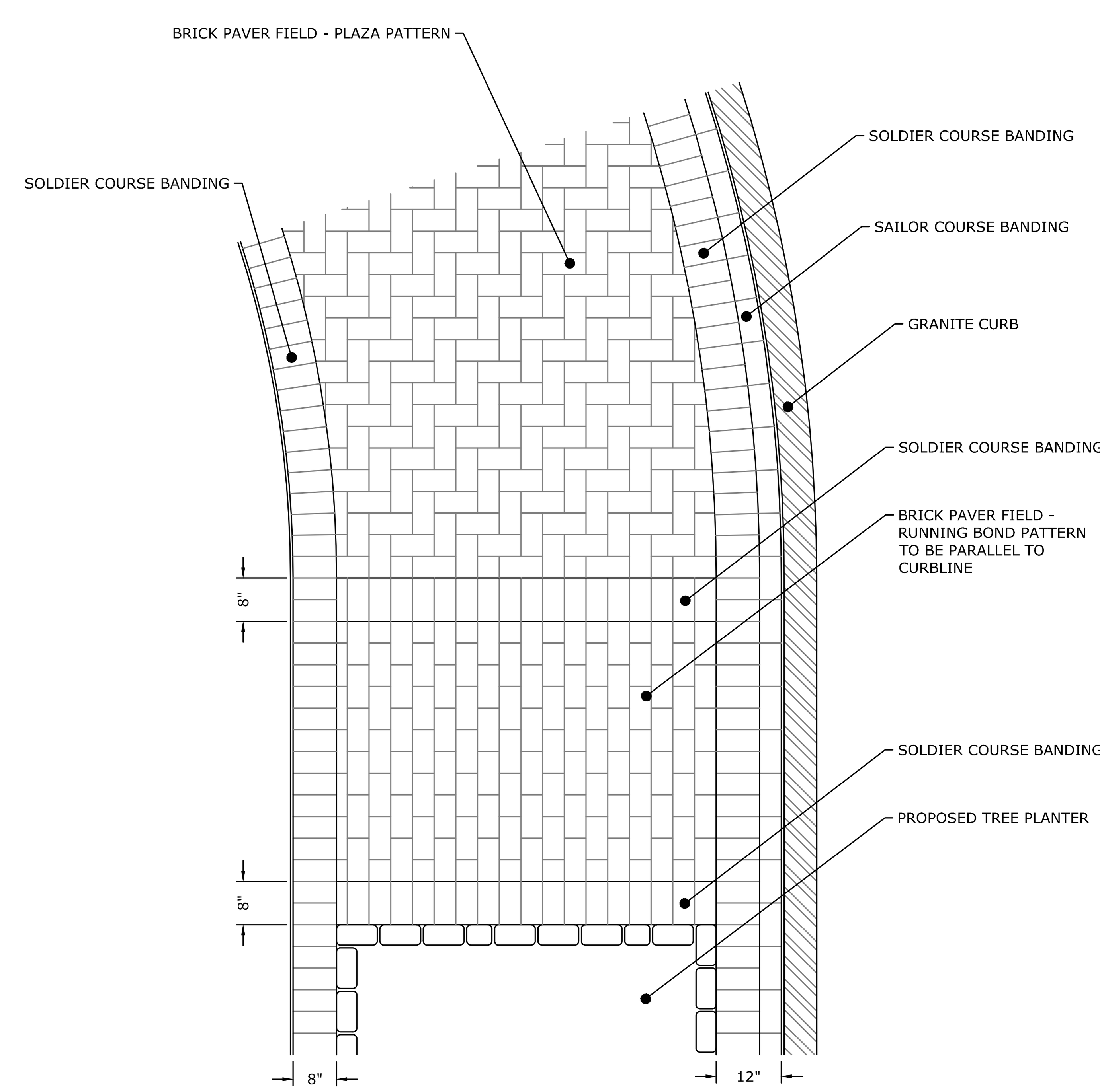


BRICK PAVER SIDEWALK AT CONCRETE SIDEWALK
NOT TO SCALE



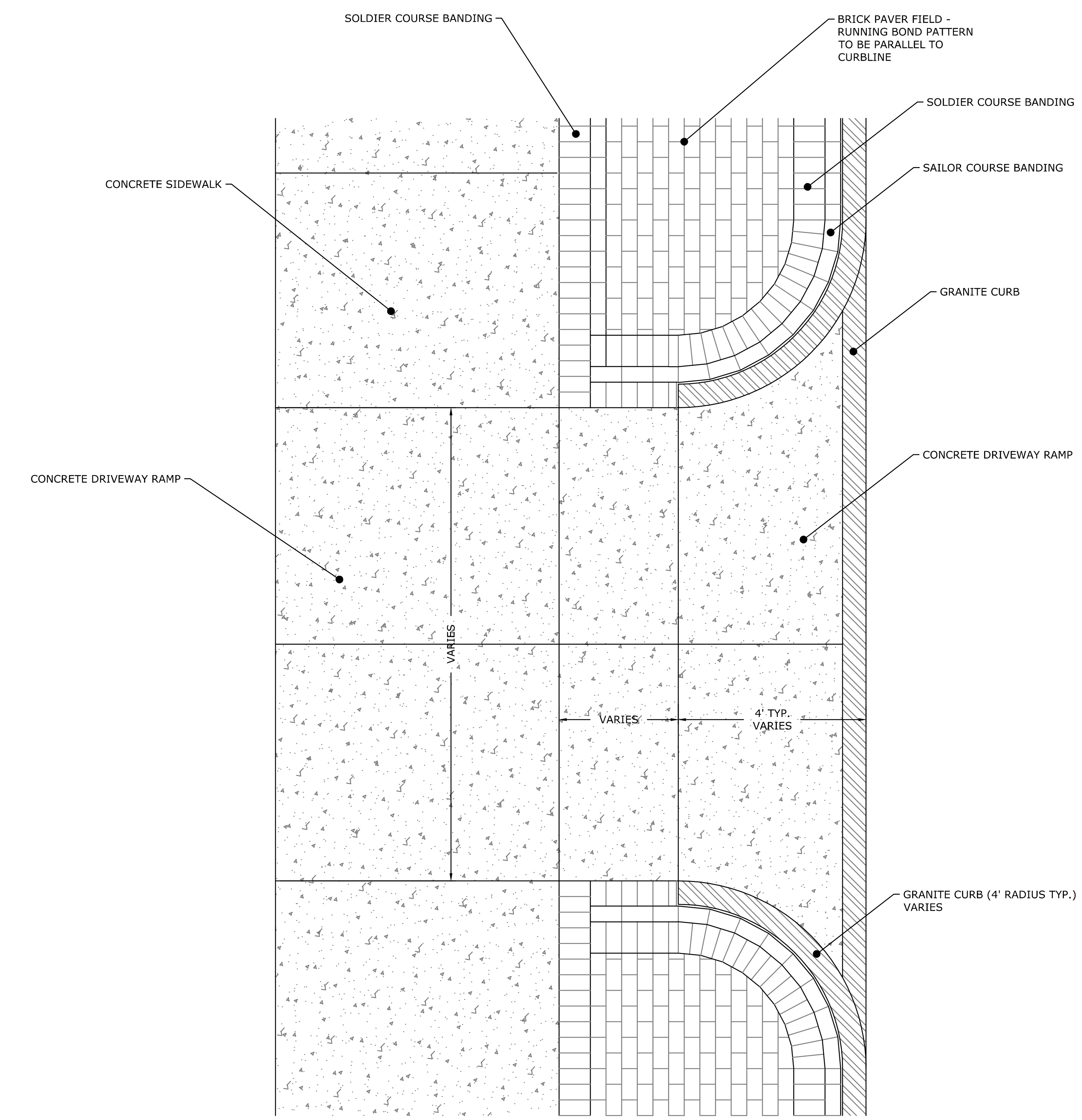
NOTE:
1. SEE CTDOT RAMP STANDARD DETAILS FOR SLOPED AND GRADING INFORMATION.
2. ALL BRICKS TO BE 4" X" 8" UNLESS OTHERWISE NOTED ON PLANS.
3. SEE PLANS FOR ADJACENT FIELD PATTERN TYPE.
4. BRICK PAVER SIDEWALK RAMP TO BE PAID FOR UNDER BRICK PAVER SIDEWALK.

BRICK PAVER SIDEWALK RAMP
NOT TO SCALE



NOTE:
1. ALL PATTERNS TO BE INCLUDED IN COST OF BRICK PAVER SIDEWALK.
2. FIELD PATTERN TO BE APPROVED BY THE ENGINEER.
3. FULL PAVERS TO START AT EDGE CLOSEST TO STREET. CUT PAVER, WHEN REQUIRED, SHALL BE PLACED AT EDGE FURTHEST FROM THE STREET.
4. ALL PAVERS TO BE 4" X 8" UNLESS OTHERWISE NOTED ON THE PLANS.

BRICK PAVER SIDEWALK
NOT TO SCALE



NOTE:
1. ALL PATTERNS TO BE INCLUDED IN COST OF BRICK PAVER SIDEWALK.
2. FIELD PATTERN TO BE APPROVED BY THE ENGINEER.
3. FULL PAVERS TO START AT EDGE CLOSEST TO STREET. CUT PAVER, WHEN REQUIRED, SHALL BE PLACED AT EDGE FURTHEST FROM THE STREET.
4. ALL PAVERS TO BE 4" X 8" UNLESS OTHERWISE NOTED ON THE PLANS.

CONCRETE DRIVEWAY RAMP AT BRICK PAVER SIDEWALK
NOT TO SCALE

CITY OF NEW BRITAIN
27 WEST MAIN STREET
NEW BRITAIN, CT 06051
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

SEAL OF THE CITY OF NEW BRITAIN, CT. 1871

PROJECT TITLE
COLUMBUS BOULEVARD & CHESTNUT STREET
PHASE VII - DOWNTOWN COMPLETE STREETS

DRAWING TITLE
MISCELLANEOUS DETAILS

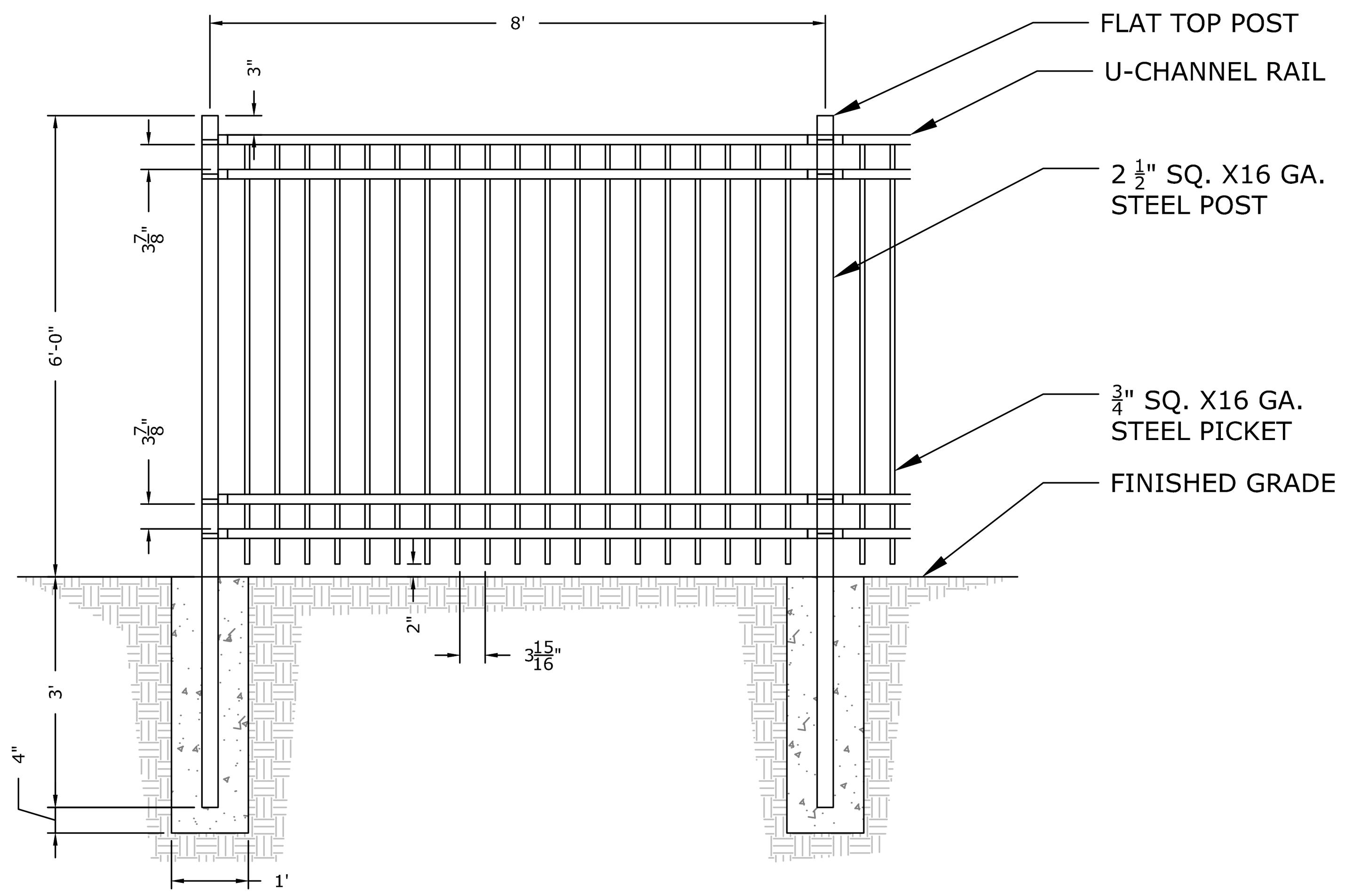
REFERENCES
DRAWN BY J. OUTLAW
CHECKED BY R. TROTTIER
NOT TO SCALE
SCALE

REV.	DATE	REVISION DESCRIPTION

PROJECT NUMBER
3951

FILENAME

DRAWING NUMBER
MDS-03

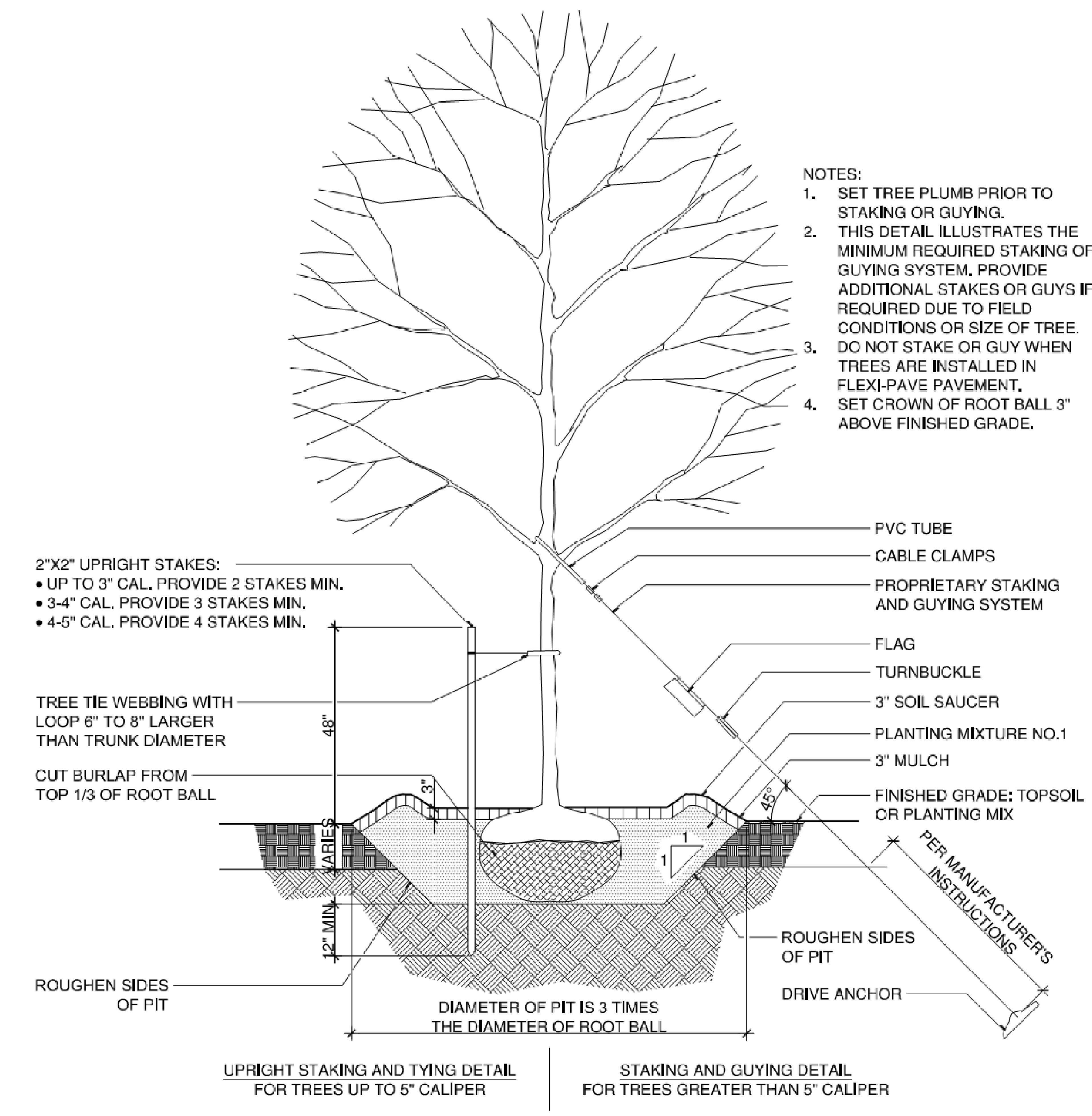


NOTE:
1. FENCE SHALL BE MANUFACTURED BY MONUMENTAL IRON WORKS (MASTER HALCO) OR APPROVED EQUAL.
2. STYLE: IMPERIAL FENCE STYLE E: 4 RAIL
3. HEIGHT: 6 FEET
4. COLOR: BLACK
5. INSTALL PER MANUFACTURES WRITTEN INSTALLATION INSTRUCTIONS.

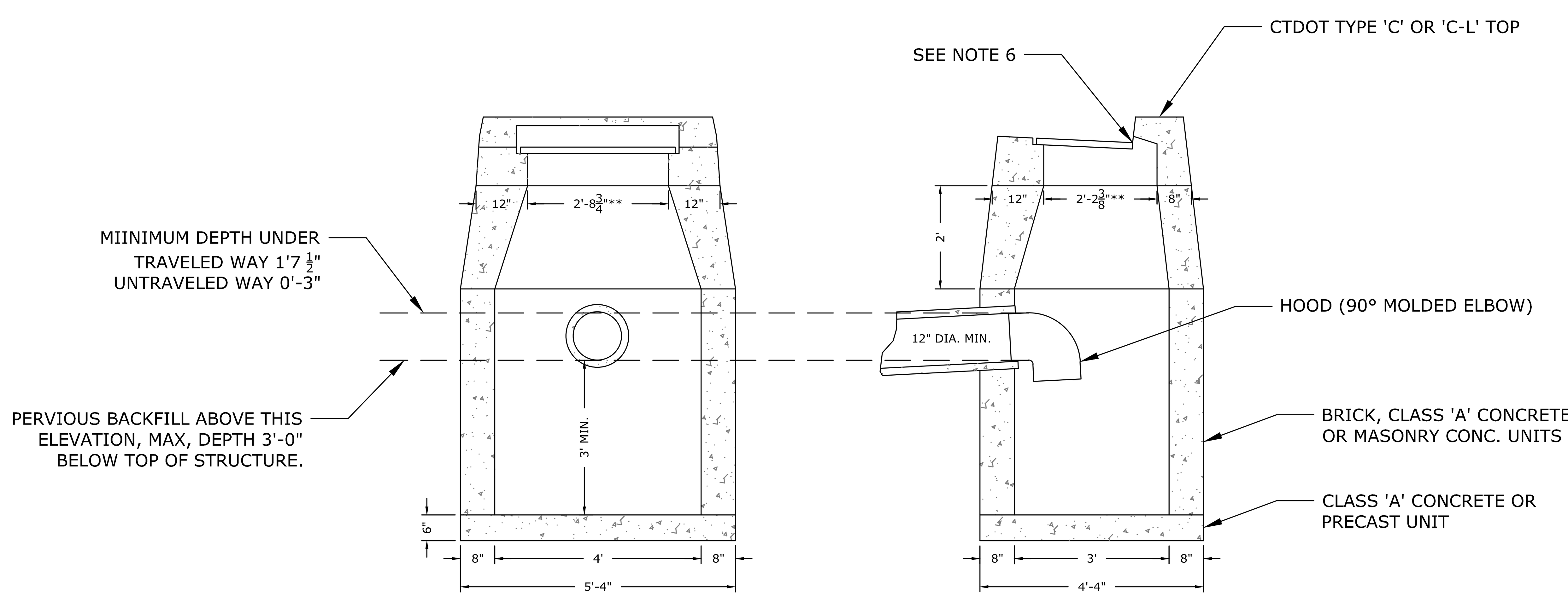
PROVIDE CONCRETE FOOTING TO DEPTH OF 40" MINIMUM FOR ALL FENCE POSTS OR CUSTOM BRACKETS TO MOUNT TO EXISTING CONCRETE FOOTING

ORNAMENTAL FENCE
NOT TO SCALE

NOTES:
1. SET TREE PLUMB PRIOR TO STAKING OR GUYING.
2. THIS DETAIL ILLUSTRATES THE MINIMUM REQUIRED STAKING OR GUYING SYSTEM. PROVIDE ADDITIONAL STAKES OR GUYS IF REQUIRED DUE TO FIELD CONDITIONS OR SIZE OF TREE.
3. DO NOT STAKE OR GUY WHEN TREES ARE INSTALLED IN FLEXI-PAVE PAVEMENT.
4. SET CROWN OF ROOT BALL 3" ABOVE FINISHED GRADE.

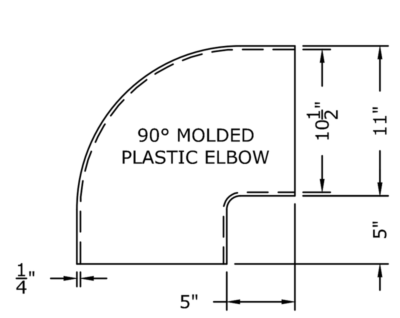


TREE PLANTING
SCALE: 1/2"=1'

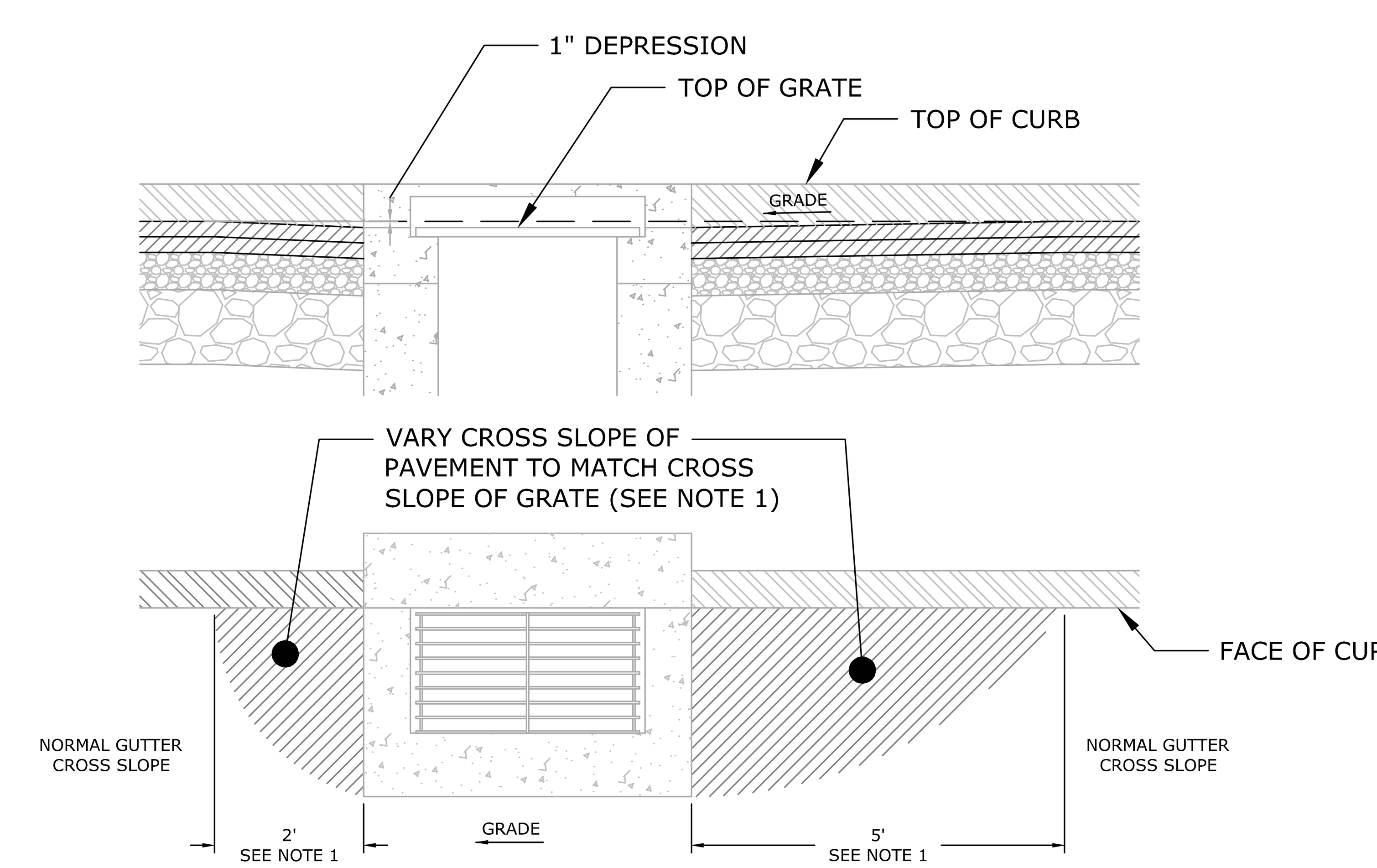


NOTES:
1. WALLS OF ALL CATCH BASINS OVER 10' DEEP SHALL BE INCREASE TO 12" THICKNESS. INSIDE DIMENSIONS SHALL REMAIN THE SAME.
2. PROVIDE DRAINAGE OPENING IN EACH WALL AT LOWEST INVERT ELEVATION
3. WHERE BRICK OR MASONRY CONCRETE UNITS ARE USED, CORBELLING WILL BE PERMITTED, MAXIMUM CORBEL SHALL BE 3". NO PROJECTION SHALL EXTEND INSIDE OF LIMITS NOTED BY **.
4. PRECAST CONCRETE CATCH BASIN UNITS MAY BE USED, AS DESCRIBED IN THE STANDARD SPECIFICATIONS.
5. WHERE PRECAST CONCRETE UNIT IS USED FOR THE SUMP, THE TOP OF THE UNITS SHALL BE AT LEAST 6" BELOW THE BOTTOM OF THE PIPE OUTLETTING FROM THE CATCH BASINS.
6. TOP OF FRAME ELEVATION SHALL BE DEPRESSED 1" BELOW NORMAL GUTTER GRADE.
7. PROVIDED 6" (MIN.) GRANULAR FILL UNDER STRUCTURE TO REPLACE UNSUITABLE MATERIAL.

CATCH BASIN
NOT TO SCALE



CATCH BASIN HOOD
NOT TO SCALE



NOTE:
1. WHEN CATCH BASIN IS AT LOW POINT, VARY CROSS-SLOPE OF PAVEMENT 4' EITHER SIDE OF C.B. TO SET GRADE WITH 1" DEPRESSION.

GUTTER DEPRESSION AT CATCH BASIN
NOT TO SCALE

CITY OF NEW BRITAIN	27 WEST MAIN STREET, NEW BRITAIN, CT 06051
DEPARTMENT OF PUBLIC WORKS	DIVISION OF ENGINEERING
PROJECT TITLE	COLUMBUS BOULEVARD & CHESTNUT STREET PHASE VII - DOWNTOWN COMPLETE STREETS
DRAWING TITLE	MISCELLANEOUS DETAILS
DRAWN BY	J. OUTLAW
CHECKED BY	R. TROTTIER
SCALE	NOT TO SCALE
REFERENCES	
REV.	DATE	REVISION DESCRIPTION
PROJECT NUMBER	3951
DRAWING NUMBER	MDS-04
FILENAME	

SEAL OF THE CITY OF NEW BRITAIN, CT. 1871

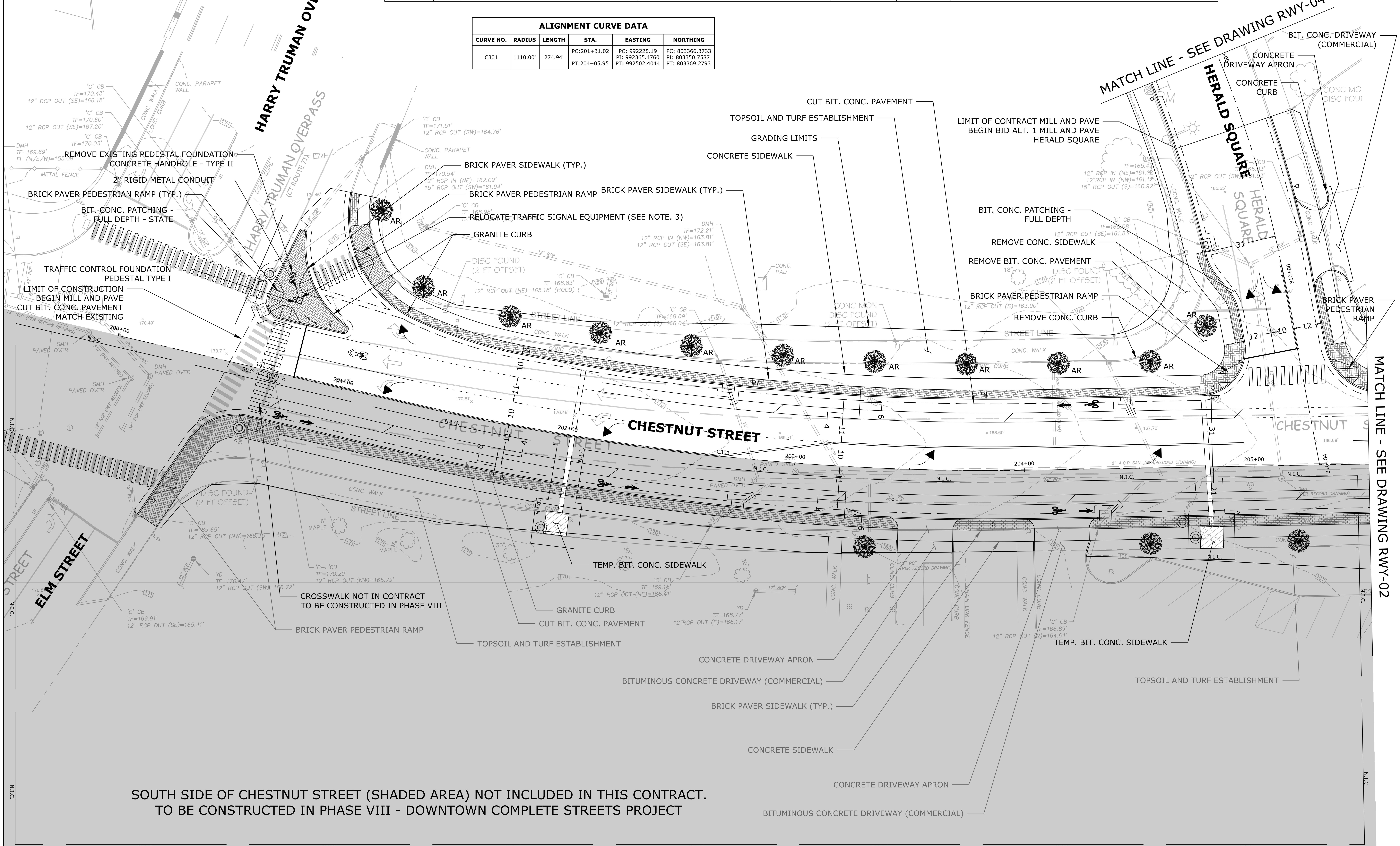
NOTES:
1. BRICK PAVER PEDESTRIAN RAMPS TO BE PAID FOR UNDER BRICK PAVER SIDEWALK
2. REMOVE ALL EXISTING LIGHT FOUNDATIONS WITHIN PROJECT LIMITS
3. REMOVAL AND/OR RELOCATION OF TRAFFIC SIGNAL EQUIPMENT TO INCLUDE REMOVAL OF EXISTING PEDESTAL FOUNDATION, AND NEW HOME RUN WIRE FROM THE RELOCATED PEDESTAL TO THE EXISTING TRAFFIC CABINET. A NEW CONCRETE HANDHOLE AND COVER TO BE INSTALLED AT THE EXISTING PEDESTAL FOUNDATION LOCATION SHALL BE PAID SEPARATELY.

PLANT SCHEDULE

ITEM NO.	SYM	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	COMMENTS
0949799A	PA	PLATANUS ACERIFOLIA 'BLOODGOOD'	BLOODGOOD LONDON PLANETREE	9	2½-3" CAL.	B&B; UNIFORM, HEAVY SPECIMEN; HIGH BRANCHED TO 6'
0949071A	PC	PYRUS CALLERYANA	CHANTICLEER PEAR ('CLEVELAND SELECT')	8	2½-3" CAL.	B&B; UNIFORM, HEAVY SPECIMEN; HIGH BRANCHED TO 6'
0949837A	AR	ACER RUBRUM 'OCTOBER GLORY'	RED MAPLE ('OCTOBER GLORY')	11	2½-3" CAL.	B&B; UNIFORM, HEAVY SPECIMEN; HIGH BRANCHED TO 6'

ALIGNMENT CURVE DATA

CURVE NO.	RADIUS	LENGTH	STA.	EASTING	NORTHING
C301	1110.00'	274.94'	PC:201+31.02 PT:204+05.95	PC: 992228.19 PI: 992365.4760 PT: 992502.4044	PC: 803366.3733 PI: 803350.7587 PT: 803369.2793



SOUTH SIDE OF CHESTNUT STREET (SHADED AREA) NOT INCLUDED IN THIS CONTRACT.
TO BE CONSTRUCTED IN PHASE VIII - DOWNTOWN COMPLETE STREETS PROJECT

CITY OF NEW BRITAIN
27 WEST MAIN STREET
NEW BRITAIN, CT 06051
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

SEAL OF THE CITY OF NEW BRITAIN, CT. 1871

PROJECT TITLE
COLUMBUS BOULEVARD & CHESTNUT STREET
PHASE VII - DOWNTOWN COMPLETE STREETS

DRAWING TITLE
ROADWAY PLAN

DRAWN BY J OUTLAW
CHECKED BY R TROTTIER
SCALE 1" = 20'
0 20 40

REFERENCES

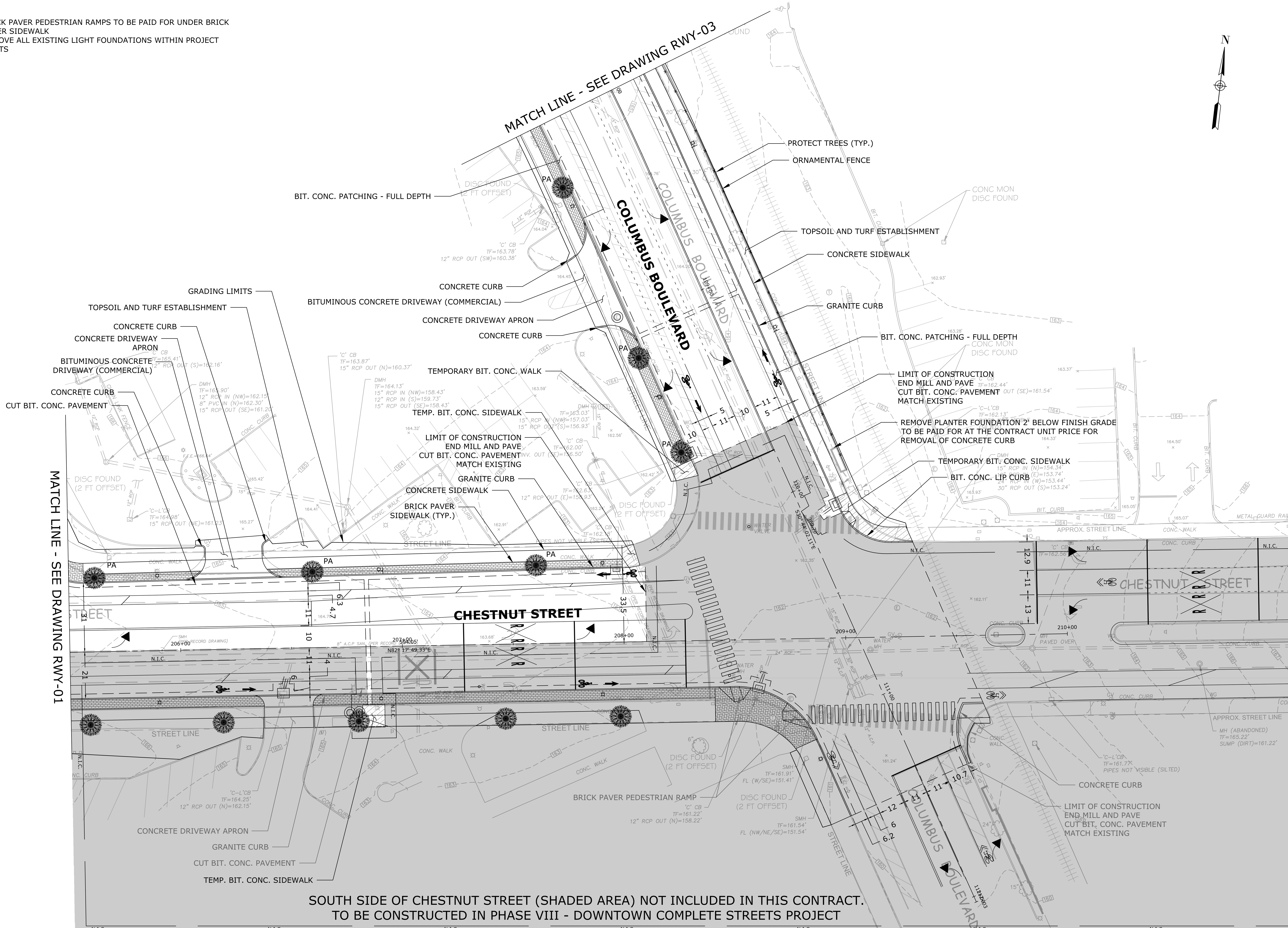
REV. | DATE | REVISION DESCRIPTION

PROJECT NUMBER 3951

FILENAME

DRAWING NUMBER RWY-01

NOTES:
1. BRICK PAVER PEDESTRIAN RAMPS TO BE PAID FOR UNDER BRICK PAVER SIDEWALK
2. REMOVE ALL EXISTING LIGHT FOUNDATIONS WITHIN PROJECT LIMITS



SOUTH SIDE OF CHESTNUT STREET (SHADED AREA) NOT INCLUDED IN THIS CONTRACT.
TO BE CONSTRUCTED IN PHASE VIII - DOWNTOWN COMPLETE STREETS PROJECT

CITY OF NEW BRITAIN
27 WEST MAIN STREET
NEW BRITAIN, CT 06051
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

SEAL OF THE CITY OF NEW BRITAIN, CT. 1871

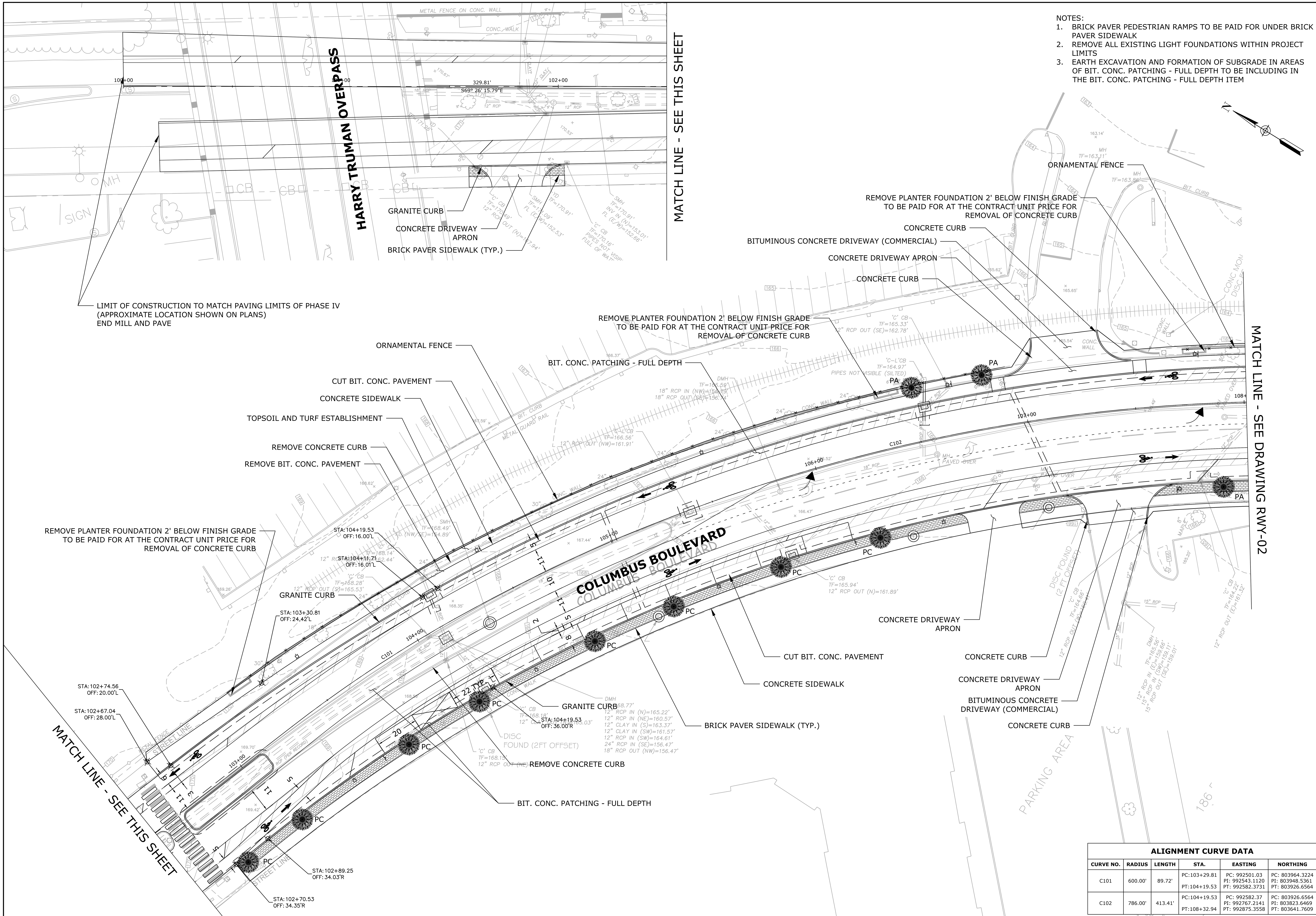
PROJECT TITLE
COLUMBUS BOULEVARD & CHESTNUT STREET
PHASE VII - DOWNTOWN COMPLETE STREETS

DRAWING TITLE
ROADWAY PLAN

DRAWN BY: J OUTLAW
CHECKED BY: R TROTTIER
SCALE: 1" = 20'

REV.	DATE	REVISION DESCRIPTION

PROJECT NUMBER: 3951
DRAWING NUMBER: RWY-02



NOTES:

1. BRICK PAVER PEDESTRIAN RAMPS TO BE PAID FOR UNDER BRICK PAVER SIDEWALK
2. REMOVE ALL EXISTING LIGHT FOUNDATIONS WITHIN PROJECT LIMITS
3. EARTH EXCAVATION AND FORMATION OF SUBGRADE IN AREAS OF BIT. CONC. PATCHING - FULL DEPTH TO BE INCLUDING IN THE BIT. CONC. PATCHING - FULL DEPTH ITEM

ALIGNMENT CURVE DATA

CURVE NO.	RADIUS	LENGTH	STA.	EASTING	NORTHING
C101	600.00'	89.72'	PC:103+29.81 PT:104+19.53	PC: 992501.03 PI: 992543.1120 PT: 992582.3731	PC: 803964.3224 PI: 803948.5361 PT: 803926.6564
C102	786.00'	413.41'	PC:104+19.53 PT:108+32.94	PC: 992582.37 PI: 992767.2141 PT: 992875.3558	PC: 803926.6564 PI: 803823.6469 PT: 803641.7609

CITY OF NEW BRITAIN
27 WEST MAIN STREET
NEW BRITAIN, CT 06051
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

SEAL OF THE CITY OF NEW BRITAIN, CT. 1871

PROJECT TITLE
COLUMBUS BOULEVARD & CHESTNUT STREET
PHASE VII - DOWNTOWN COMPLETE STREETS

DRAWING TITLE
ROADWAY PLAN

REFERENCES

DRAWN BY J OUTLAW

CHECKED BY R TROTTIER

1" = 20'

0 20 40

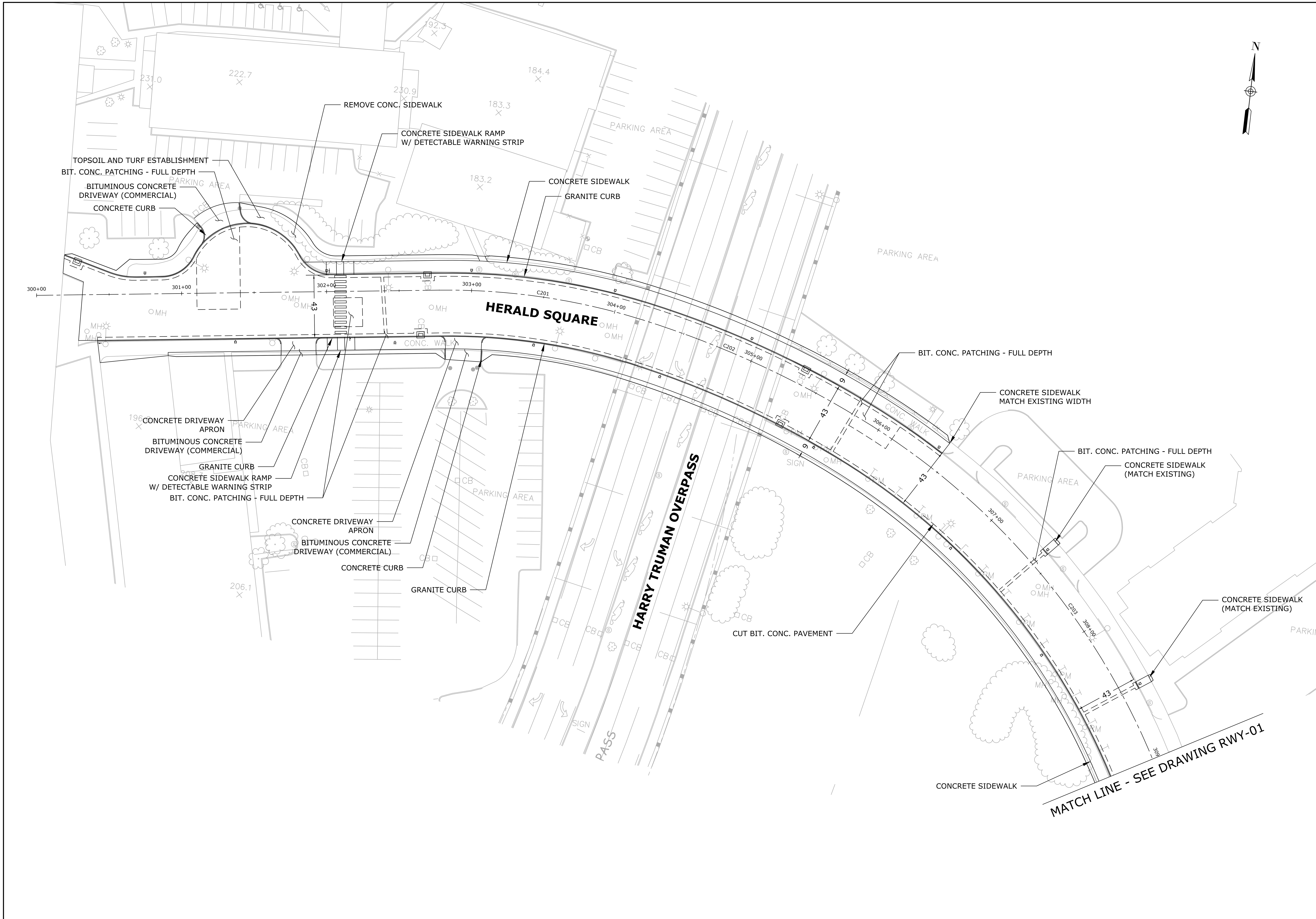
SCALE

REV. | DATE | REVISION DESCRIPTION

FILENAME

PROJECT NUMBER 3951

DRAWING NUMBER RWY-03



CITY OF NEW BRITAIN
27 WEST MAIN STREET
NEW BRITAIN, CT 06051
DEPARTMENT OF PUBLIC WORKS
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SEAL OF THE CITY OF NEW BRITAIN, CT. 1871

PROJECT TITLE
COLUMBUS BOULEVARD & CHESTNUT STREET
PHASE VII - DOWNTOWN COMPLETE STREETS

DRAWING TITLE
ROADWAY PLAN

REFERENCES

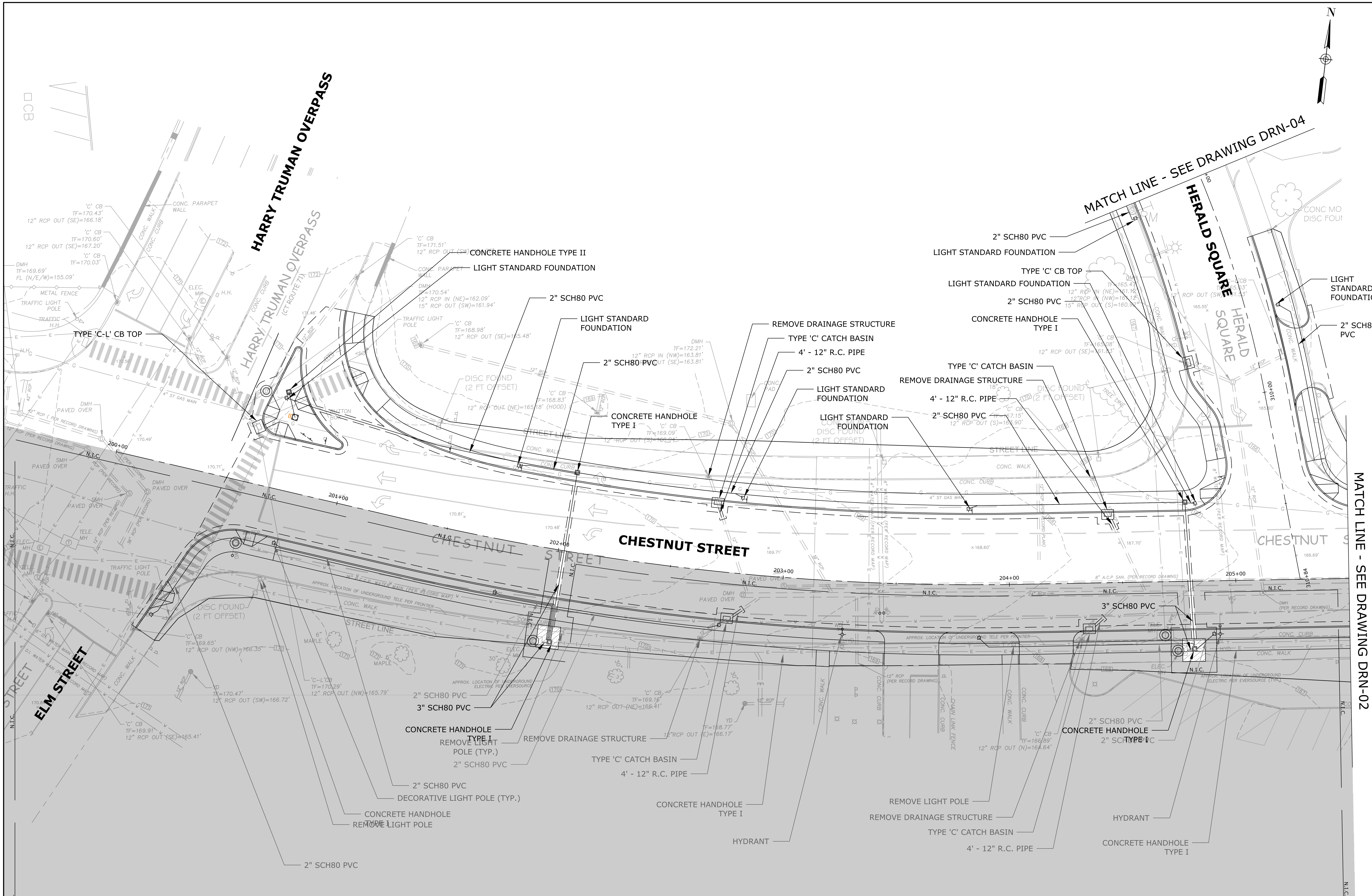
DRAWN BY J OUTLAW
CHECKED BY R TROTTIER
1" = 30'
SCALE 0 30 60

REVISION DESCRIPTION
REV. DATE

PROJECT NUMBER
3951

FILENAME

DRAWING NUMBER
RWY-04



SOUTH SIDE OF CHESTNUT STREET (SHADED AREA) NOT INCLUDED IN THIS CONTRACT.
TO BE CONSTRUCTED IN PHASE VIII - DOWNTOWN COMPLETE STREETS PROJECT

CITY OF NEW BRITAIN
27 WEST MAIN STREET
NEW BRITAIN, CT 06051
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

SEAL OF THE CITY OF NEW BRITAIN, CT. 1871

PROJECT TITLE
COLUMBUS BOULEVARD & CHESTNUT STREET
PHASE VII - DOWNTOWN COMPLETE STREETS

DRAWING TITLE
DRAINAGE AND UTILITIES

REFERENCES

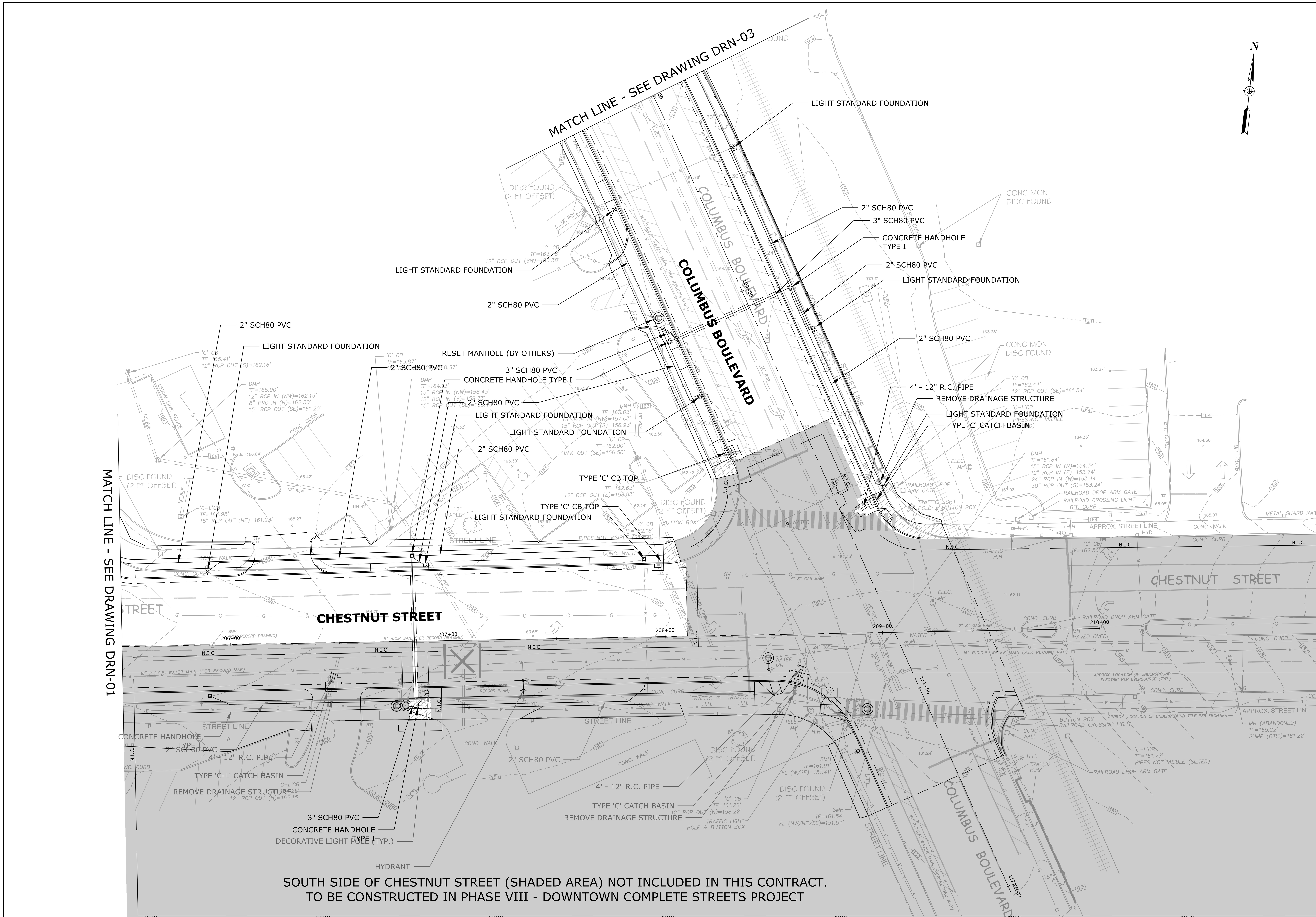
DRAWN BY J OUTLAW
CHECKED BY R TROTTIER
1" = 20'
0 20 40
SCALE

REV.	DATE	REVISION DESCRIPTION

PROJECT NUMBER
3951

FILENAME

DRAWING NUMBER
DRN-01



SOUTH SIDE OF CHESTNUT STREET (SHADED AREA) NOT INCLUDED IN THIS CONTRACT.
TO BE CONSTRUCTED IN PHASE VIII - DOWNTOWN COMPLETE STREETS PROJECT

CITY OF NEW BRITAIN
27 WEST MAIN STREET
NEW BRITAIN, CT 06051
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

SEAL OF THE CITY OF NEW BRITAIN, CT. 1871

PROJECT TITLE
COLUMBUS BOULEVARD & CHESTNUT STREET
PHASE VII - DOWNTOWN COMPLETE STREETS

DRAWING TITLE
DRAINAGE AND UTILITIES

DRAWN BY J OUTLAW
CHECKED BY R TROTTIER

SCALE 1" = 20'
0 20 40

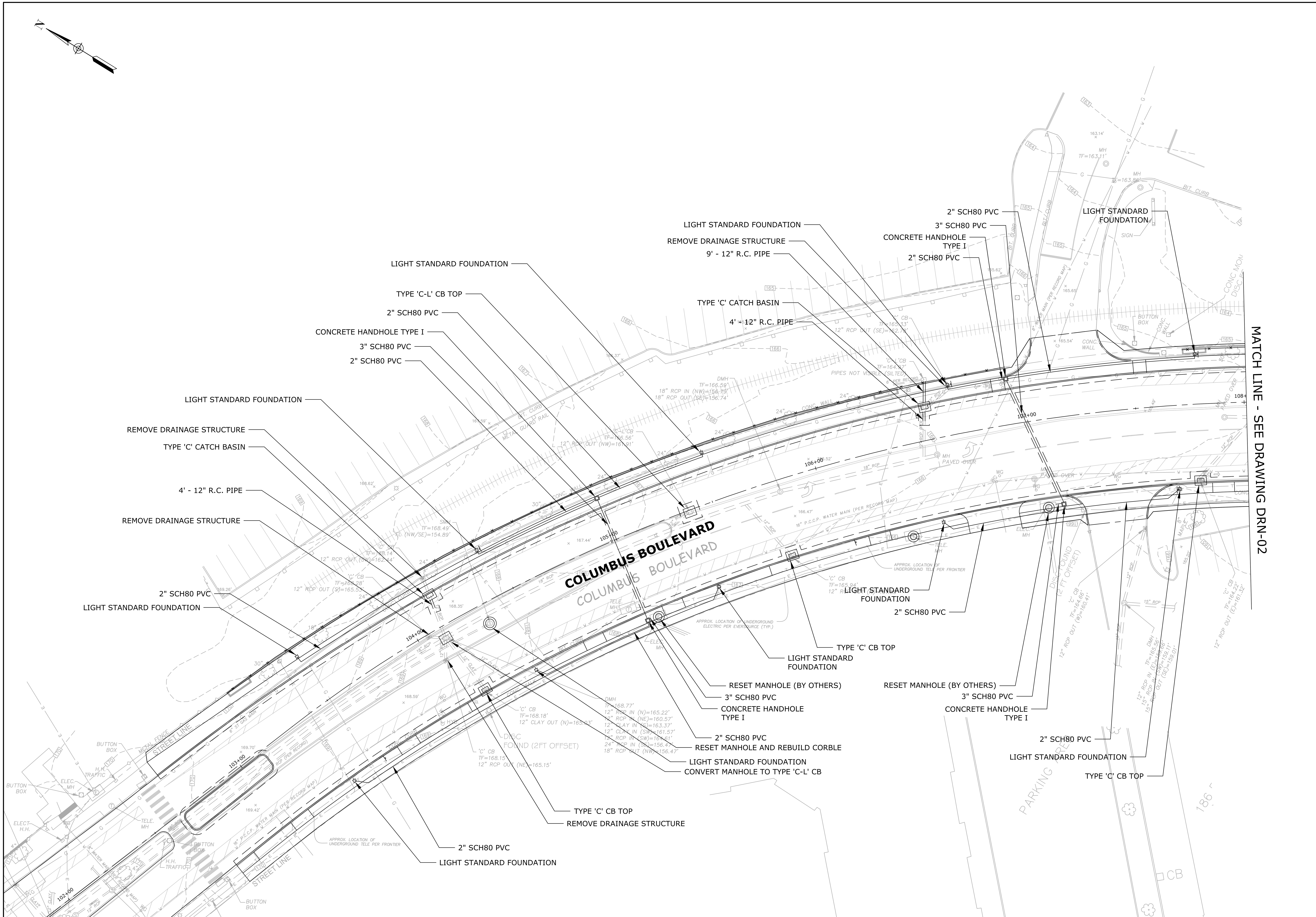
REFERENCES

REV.	DATE	REVISION DESCRIPTION

FILENAME

PROJECT NUMBER 3951

DRAWING NUMBER DRN-02



CITY OF NEW BRITAIN
27 WEST MAIN STREET
NEW BRITAIN, CT 06051

DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

SEAL OF THE CITY OF NEW BRITAIN, CT. 1871

PROJECT TITLE
COLUMBUS BOULEVARD & CHESTNUT STREET
PHASE VII - DOWNTOWN COMPLETE STREETS

DRAWING TITLE
DRAINAGE AND UTILITIES

REFERENCES

DRAWN BY J OUTLAW
CHECKED BY R TROTTIER

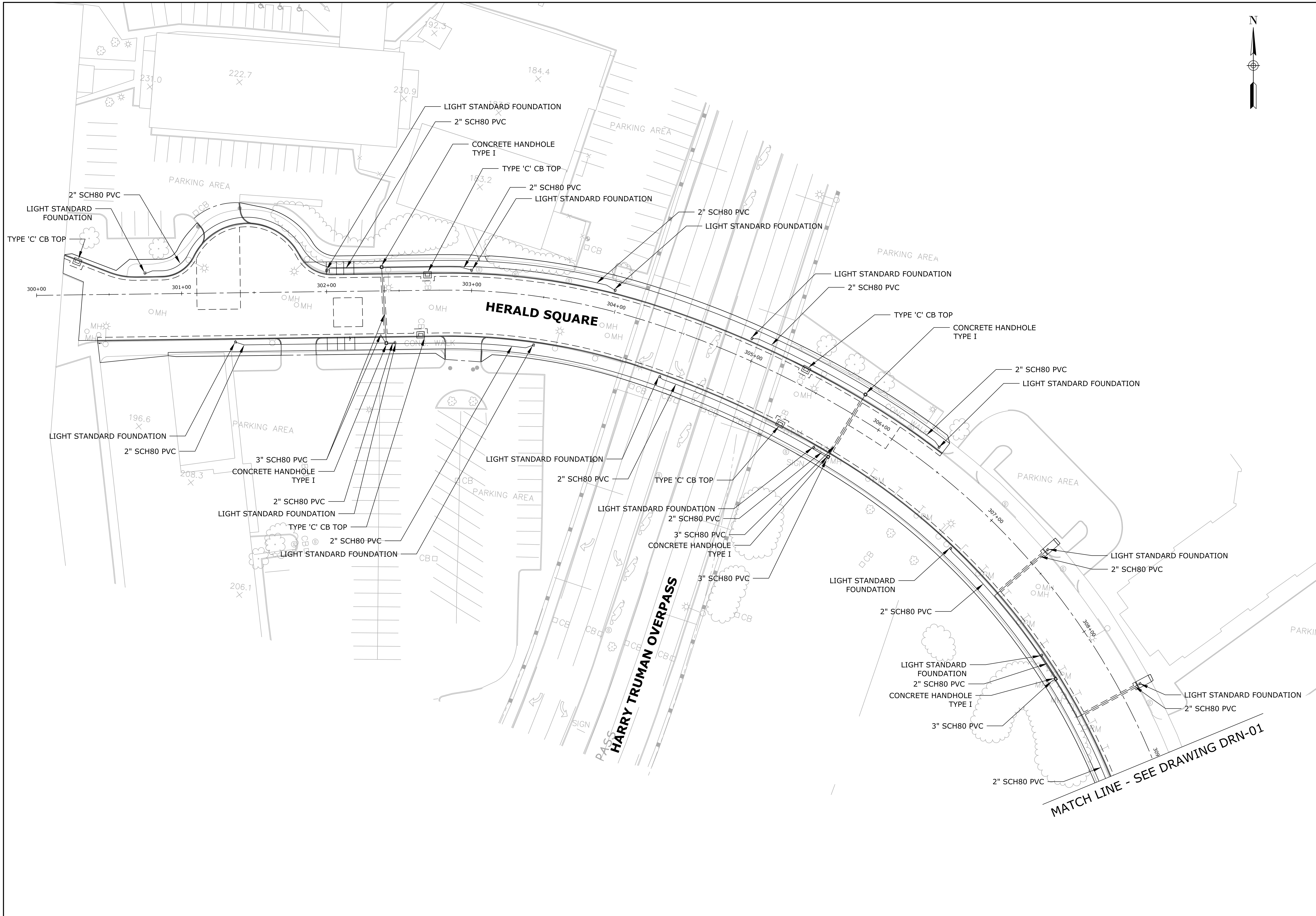
SCALE 1" = 20'
0 20 40

REV.	DATE	REVISION DESCRIPTION

PROJECT NUMBER 3951

DRAWING NUMBER DRN-03

FILENAME



CITY OF NEW BRITAIN
27 WEST MAIN STREET
NEW BRITAIN, CT 06051
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

SEAL OF THE CITY OF NEW BRITAIN, CT. 1871

PROJECT TITLE
COLUMBUS BOULEVARD & CHESTNUT STREET
PHASE VII - DOWNTOWN COMPLETE STREETS

DRAWING TITLE
DRAINAGE AND UTILITIES

REFERENCES

DRAWN BY	J OUTLAW
CHECKED BY	R TROTTIER
SCALE	1" = 30' (0 30 60)

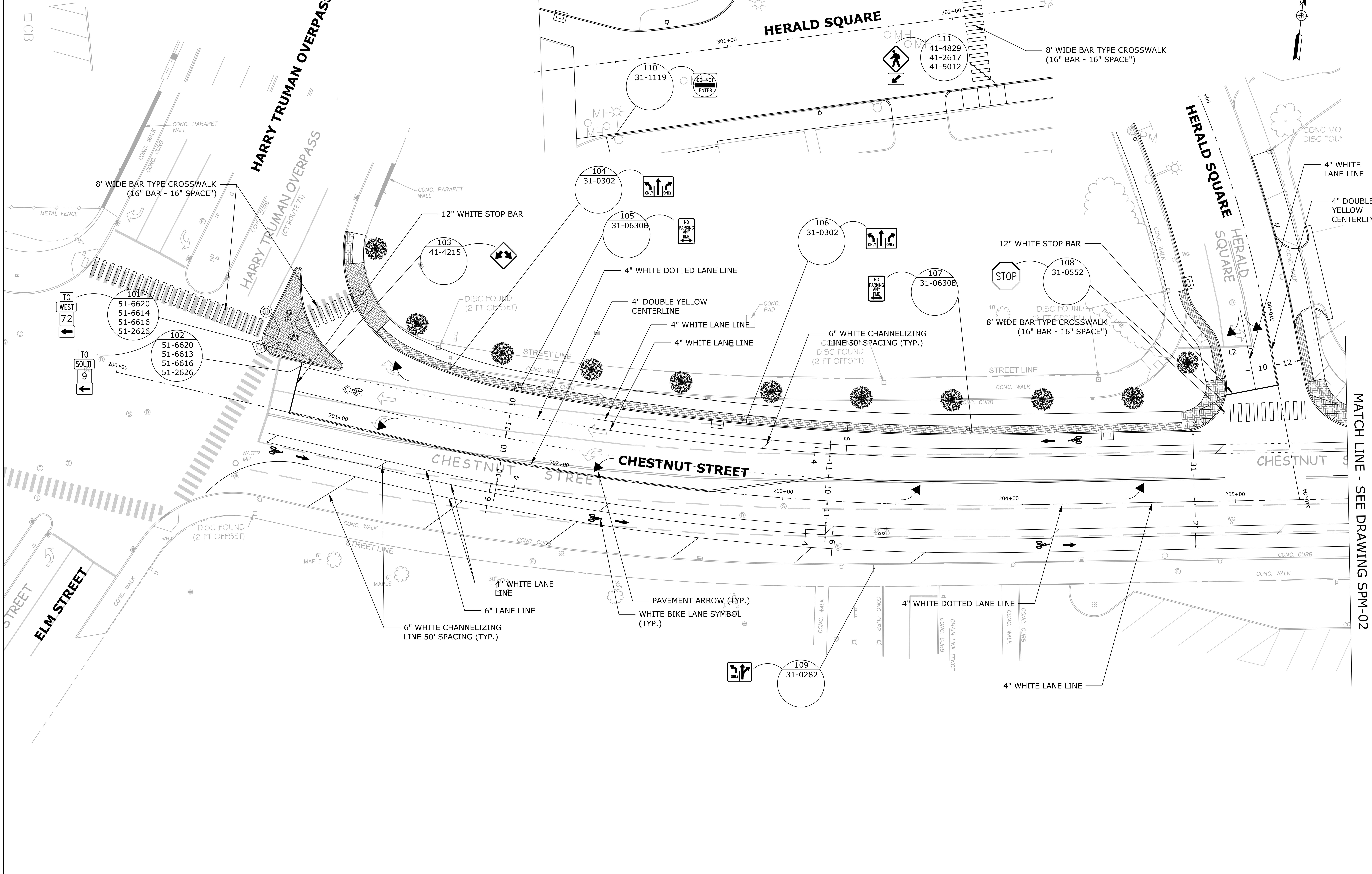
REV.	DATE	REVISION DESCRIPTION

PROJECT NUMBER
3951

FILENAME

DRAWING NUMBER
DRN-04

NOTES:
1. ALL CONFLICTING PAVEMENT MARKINGS OUTSIDE OF PAVEMENT REHABILITATION AREAS TO BE ERADICATED PRIOR TO INSTALLING PROPOSED PAVEMENT MARKINGS.
2. SIGNS ADJACENT TO LIGHT POLES TO BE MOUNTED ON LIGHT POLES.
3. FOR SIGN NUMBERS "NB-XXXX", THE CONTRACTOR SHALL SUBMIT SIGN DETAILS TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.



CITY OF NEW BRITAIN
27 WEST MAIN STREET
NEW BRITAIN, CT 06051
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

SEAL OF THE CITY OF NEW BRITAIN, CT. 1871

PROJECT TITLE
COLUMBUS BOULEVARD & CHESTNUT STREET
PHASE VII - DOWNTOWN COMPLETE STREETS

DRAWING TITLE
SIGNING AND PAVEMENT MARKING

DRAWN BY: J OUTLAW
CHECKED BY: R TROTTIER
SCALE: 1" = 20'
0 20 40

REFERENCES

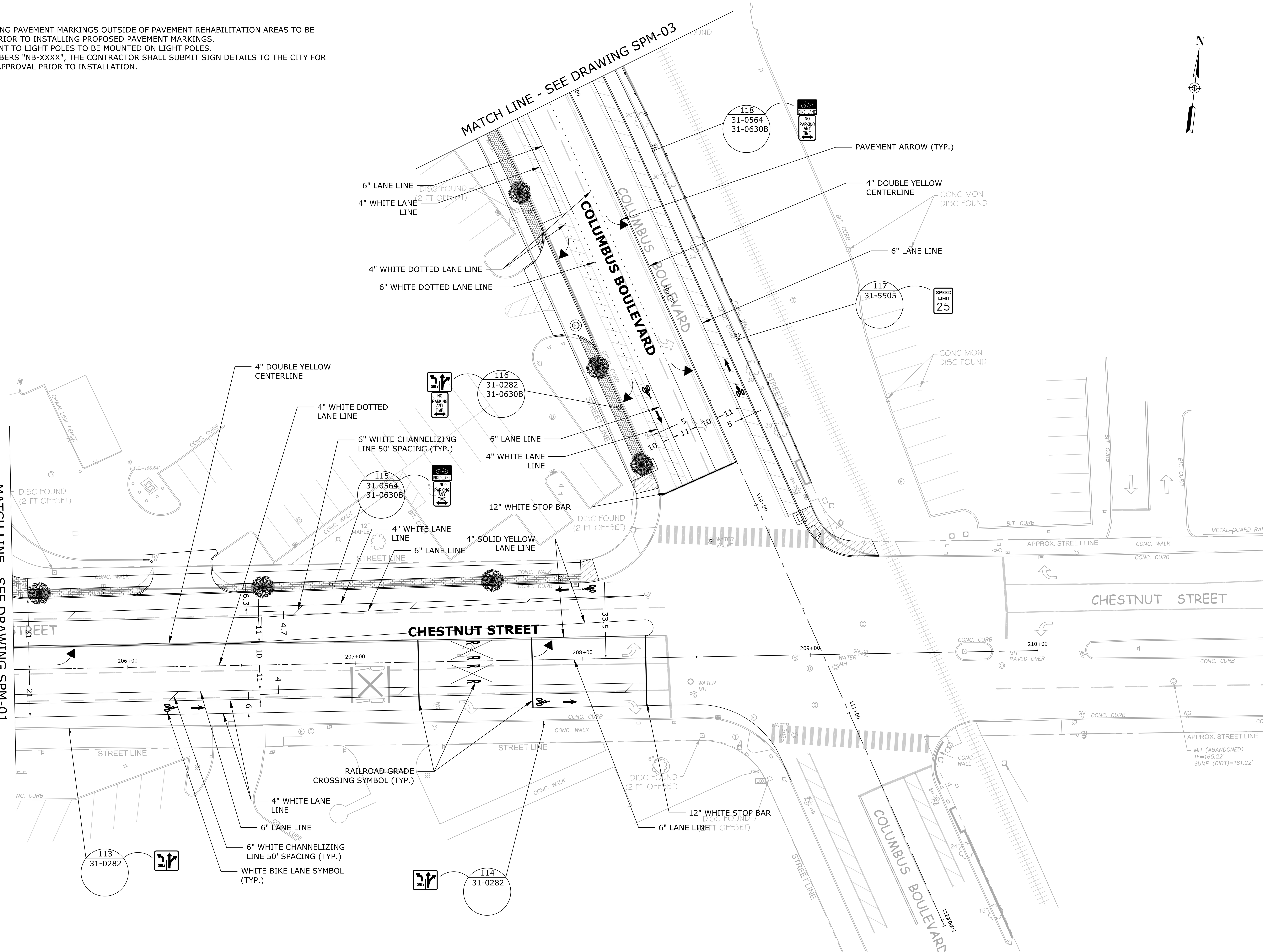
REV.	DATE	REVISION DESCRIPTION

PROJECT NUMBER
3951

FILENAME

DRAWING NUMBER
SPM-01

NOTES:
1. ALL CONFLICTING PAVEMENT MARKINGS OUTSIDE OF PAVEMENT REHABILITATION AREAS TO BE ERADICATED PRIOR TO INSTALLING PROPOSED PAVEMENT MARKINGS.
2. SIGNS ADJACENT TO LIGHT POLES TO BE MOUNTED ON LIGHT POLES.
3. FOR SIGN NUMBERS "NB-XXXX", THE CONTRACTOR SHALL SUBMIT SIGN DETAILS TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.



CITY OF NEW BRITAIN
27 WEST MAIN STREET
NEW BRITAIN, CT 06051
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

SEAL OF THE CITY OF NEW BRITAIN, CT. 1871

PROJECT TITLE
COLUMBUS BOULEVARD & CHESTNUT STREET
PHASE VII - DOWNTOWN COMPLETE STREETS

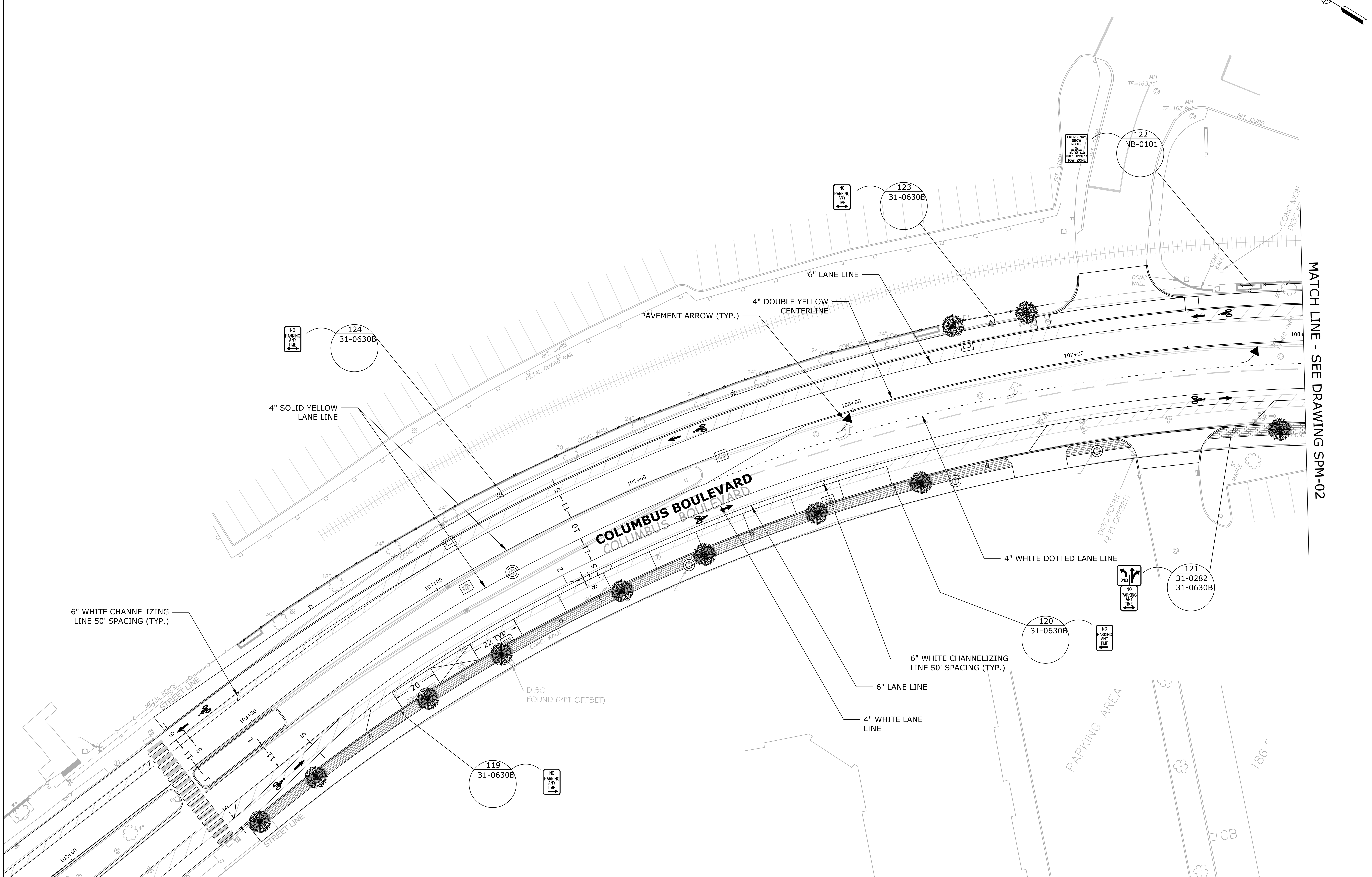
DRAWING TITLE
SIGNING AND PAVEMENT MARKING

REFERENCES
DRAWN BY J OUTLAW
CHECKED BY R TROTTIER
1" = 20'
SCALE 0 20 40

REV. | DATE | REVISION DESCRIPTION

FILENAME
PROJECT NUMBER 3951
DRAWING NUMBER SPM-02

NOTES:
1. ALL CONFLICTING PAVEMENT MARKINGS OUTSIDE OF PAVEMENT REHABILITATION AREAS TO BE ERADICATED PRIOR TO INSTALLING PROPOSED PAVEMENT MARKINGS.
2. SIGNS ADJACENT TO LIGHT POLES TO BE MOUNTED ON LIGHT POLES.
3. FOR SIGN NUMBERS "NB-XXXX", THE CONTRACTOR SHALL SUBMIT SIGN DETAILS TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.



CITY OF NEW BRITAIN
27 WEST MAIN STREET
NEW BRITAIN, CT 06051
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

SEAL OF THE CITY OF NEW BRITAIN, CT. 1871

PROJECT TITLE
COLUMBUS BOULEVARD & CHESTNUT STREET
PHASE VII - DOWNTOWN COMPLETE STREETS

DRAWING TITLE
SIGNING AND PAVEMENT MARKING

REFERENCES

DRAWN BY J OUTLAW

CHECKED BY R TROTTIER

1" = 20'

SCALE 0 20 40

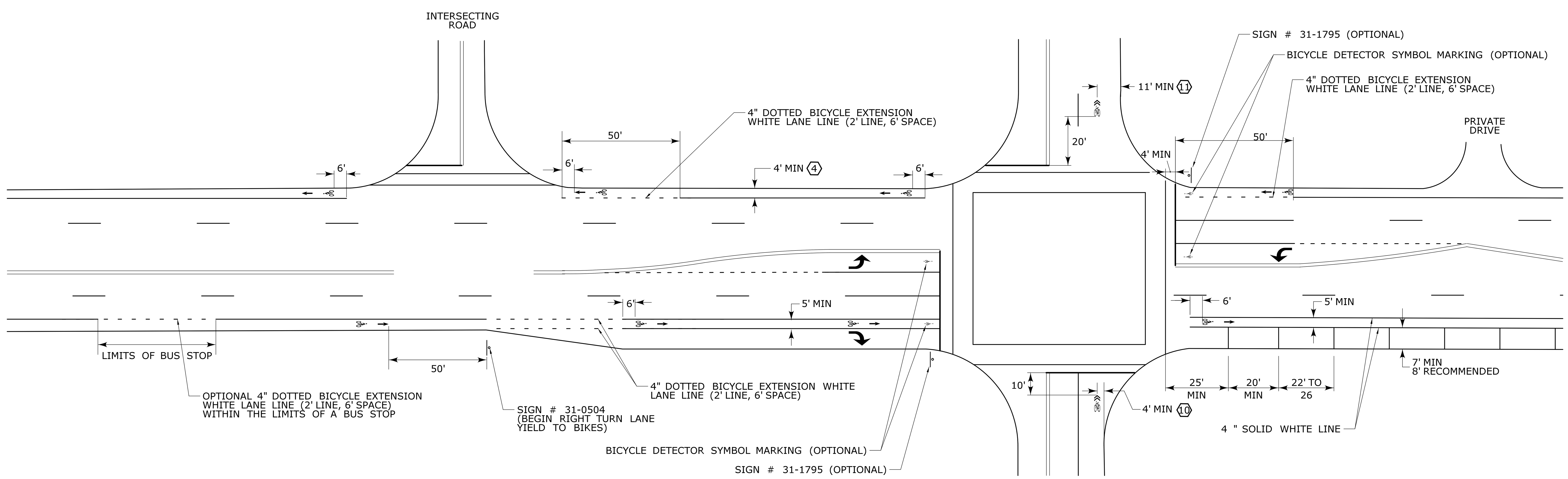
REV.	DATE	REVISION DESCRIPTION

PROJECT NUMBER 3951

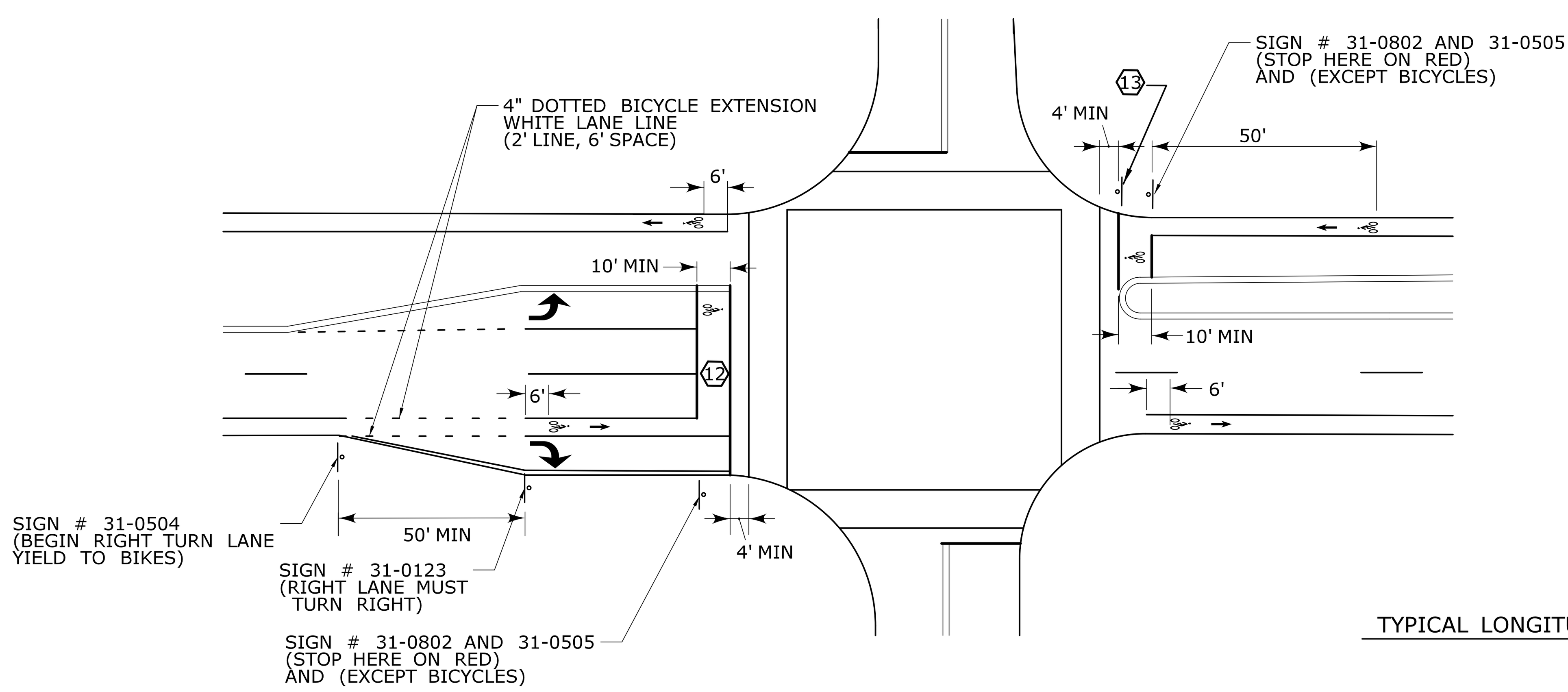
FILENAME

DRAWING NUMBER SPM-03

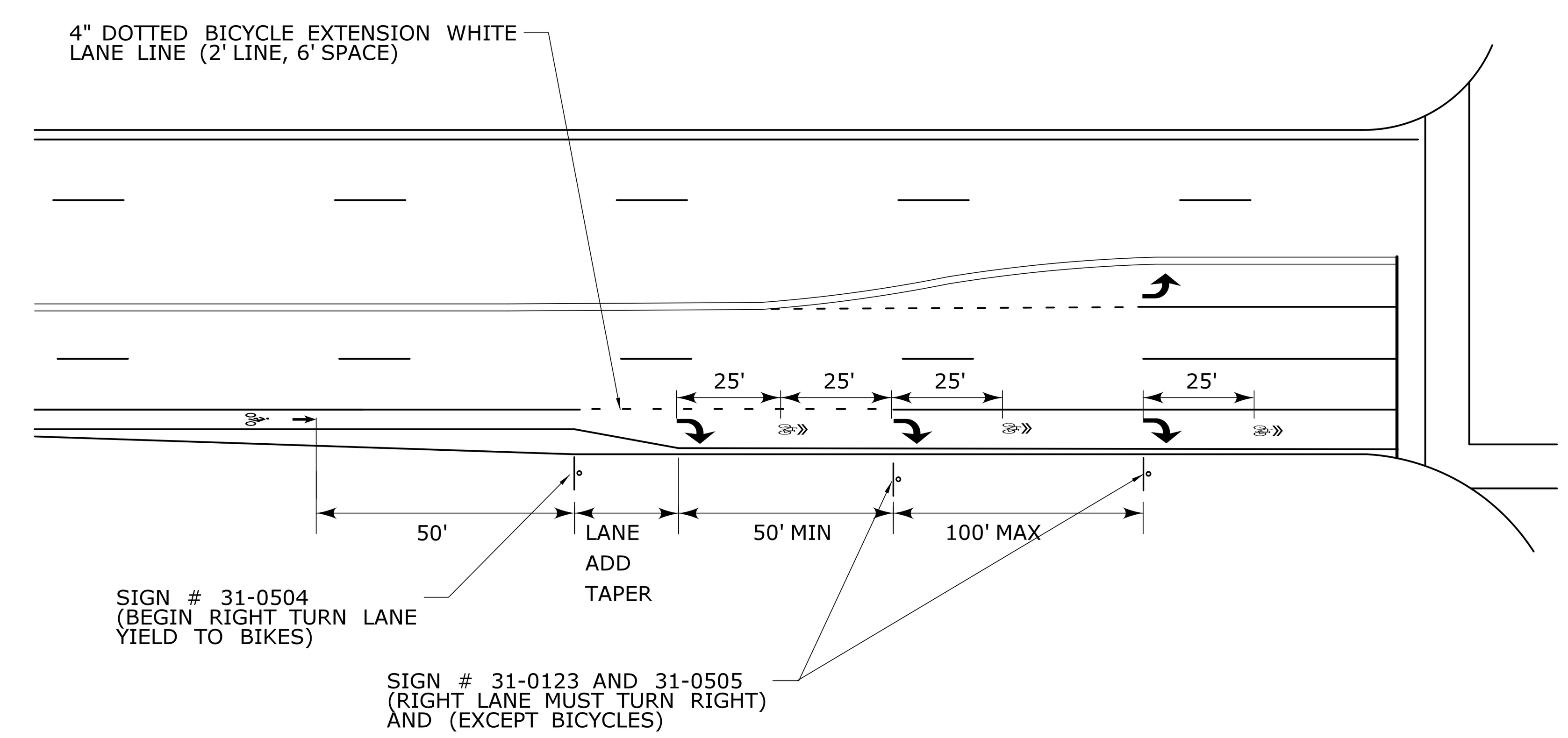
TYPICAL BICYCLE LANE AND SHARROW MARKING DETAIL



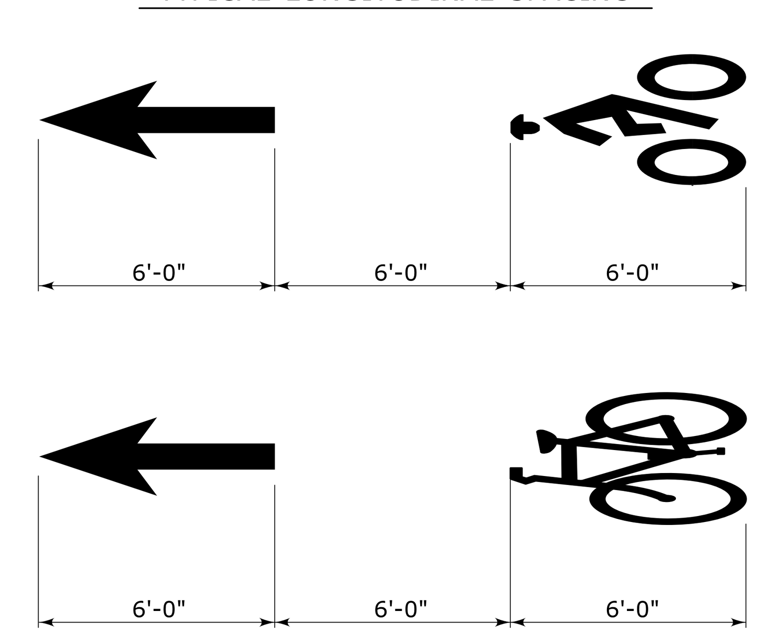
TYPICAL BICYCLE BOX DETAIL



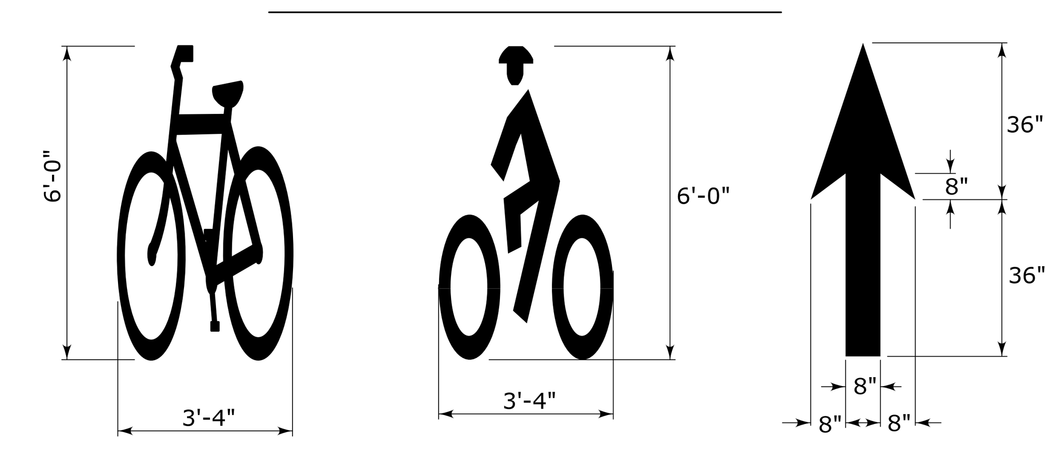
TYPICAL SHARED BICYCLE LANE AND TURN LANE DETAIL



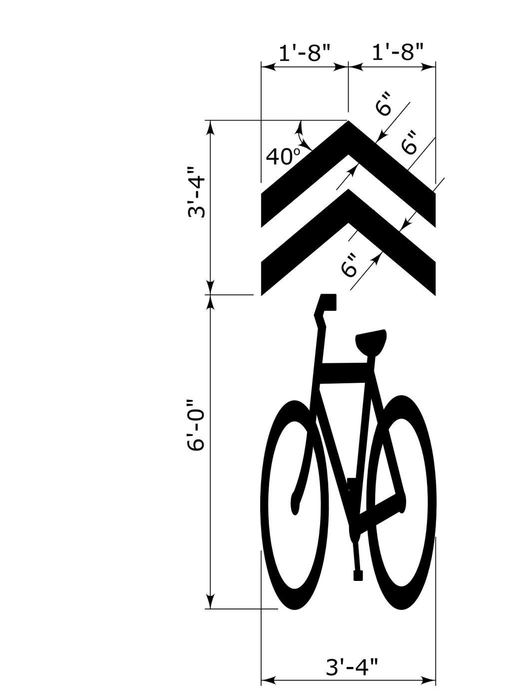
TYPICAL LONGITUDINAL SPACING



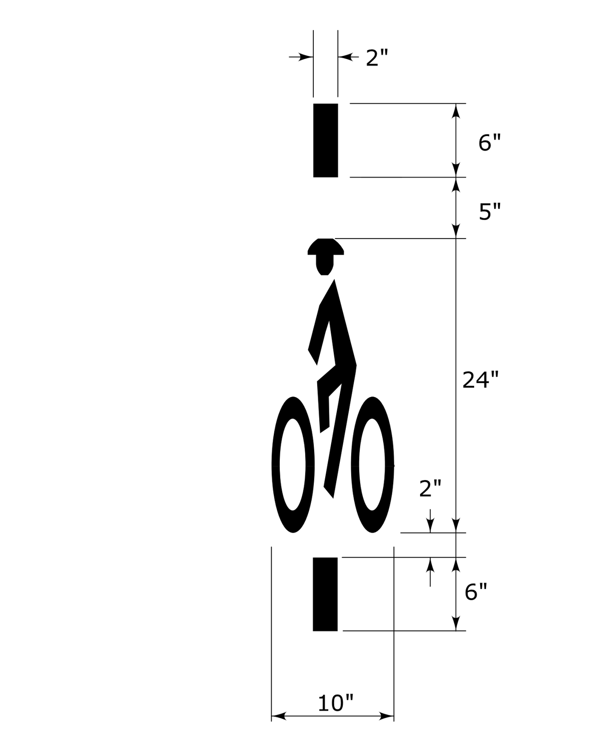
BICYCLE LANE SYMBOL MARKINGS



SHARED LANE SYMBOL MARKING



BICYCLE DETECTOR SYMBOL MARKING



NOTES:

1. BICYCLE PAVEMENT MARKINGS AND GREEN PAVEMENT TO BE OWNED AND MAINTAINED BY THE MUNICIPALITY.
2. MUNICIPALITY MUST OBTAIN FHWA INTERIM APPROVAL FOR BICYCLE BOX INSTALLATION AND COMPLY WITH THE REQUIREMENTS OF FHWA INTERIM APPROVAL No. IA-18, OPTIONAL USE OF AN INTERSECTION BICYCLE BOX. BICYCLE BOX USE IS LIMITED TO SIGNALIZED INTERSECTIONS.
3. MUNICIPALITY MUST OBTAIN FHWA INTERIM APPROVAL FOR GREEN PAVEMENT INSTALLATION AND COMPLY WITH THE REQUIREMENTS OF FHWA INTERIM APPROVAL No. IA-14, OPTIONAL USE OF GREEN COLORED PAVEMENT FOR BIKE LANES AND FHWA INTERPRETATION LETTER 9(09)-86(I), CHROMATICITY REQUIREMENTS FOR GREEN-COLORED PAVEMENT. GREEN COLORED PAVEMENT MAY BE INSTALLED ONLY WITHIN A BICYCLE LANE OR WITHIN AN EXTENSION OF A BICYCLE LANE.
4. 5 FEET WIDE BICYCLE LANES SHOULD BE USED IF IMMEDIATELY ADJACENT TO A CURB, GUIDE RAIL, OR OTHER VERTICAL SURFACES.
5. MARKINGS USED ON BIKEWAYS SHALL BE RETROREFLECTORIZED.
6. BICYCLE LANES MARKINGS SHOULD BE SPACED AT INTERVALS NO GREATER THAN 500 FT.
7. IF USED, SHARED LANE MARKINGS SHOULD BE SPACED AT INTERVALS NO GREATER THAN 250 FT.
8. SHARED LANE MARKINGS SHOULD NOT BE PLACED ON ROADWAYS THAT HAVE A SPEED LIMIT ABOVE 35 MPH.
9. BICYCLE DETECTOR SYMBOL MARKINGS MAY BE PLACED ON THE PAVEMENT INDICATING THE OPTIMUM POSITION FOR A BICYCLIST TO ACTUATE THE SIGNAL. THE LOCATION OF THE MARKINGS SHALL BE SPECIFIED ON THE SIGNAL PLAN. THE MARKINGS MAY BE SUPPLEMENTED BY SIDE MOUNTED SIGN # 31-1795.
10. ON STREETS WITHOUT ON-STREET PARKING AND WITH OUTSIDE TRAVEL LANES LESS THAN 14 FEET WIDE, THE CENTERS OF THE SHARED LANE MARKINGS SHOULD BE AT LEAST 4 FEET FROM THE FACE OF THE CURB, OR FROM THE EDGE OF THE PAVEMENT WHERE THERE IS NO CURB.
11. ON STREETS WITH ON-STREET PARKING THE CENTERS OF THE SHARED LANE MARKINGS SHOULD BE AT LEAST 11 FEET FROM THE FACE OF THE CURB, OR FROM THE EDGE OF THE PAVEMENT WHERE THERE IS NO CURB.
12. COUNTDOWN PEDESTRIAN SIGNAL HEADS ARE REQUIRED FOR BICYCLE BOXES LOCATED ACROSS MULTILANE APPROACHES.
13. TURNS ON RED SHALL BE PROHIBITED FROM THE APPROACH WHERE A BICYCLE BOX IS PLACED USING A NO TURN ON RED (R10-11 SERIES) SIGN.
14. AREA OF PAVEMENT MARKING SYMBOLS AS INDICATED IS APPROXIMATE.
15. REFER TO STANDARD SHEET TR-1210_04 FOR PAVEMENT MARKING LINE DETAILS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 3/10/2017

DESIGNER/DRAFTER: -
CHECKED BY: -
NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Bike Lane\BF-GS_01.dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
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TOWN:
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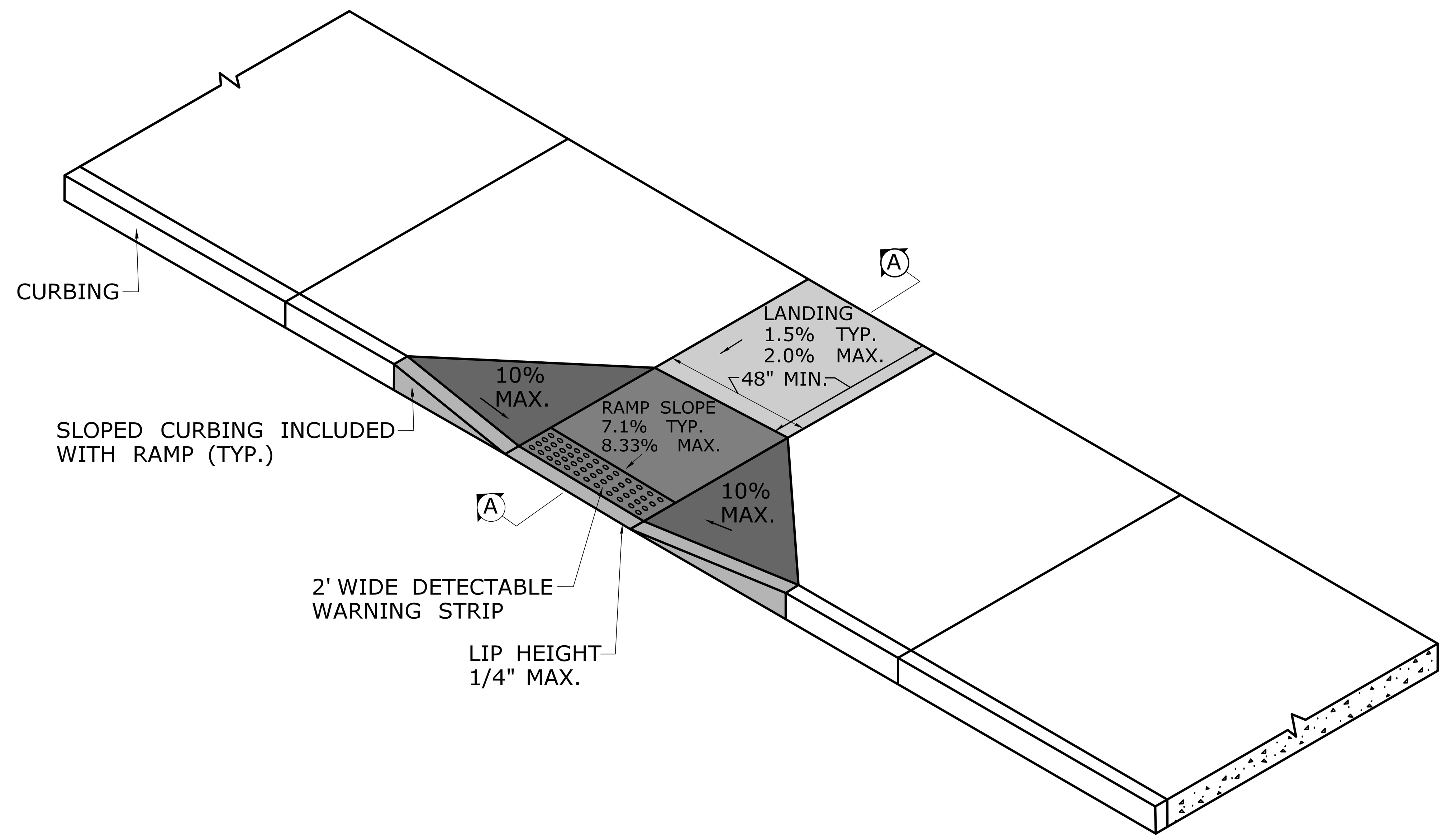
-

DRAWING TITLE:
BICYCLE FACILITIES TYPICAL DETAILS

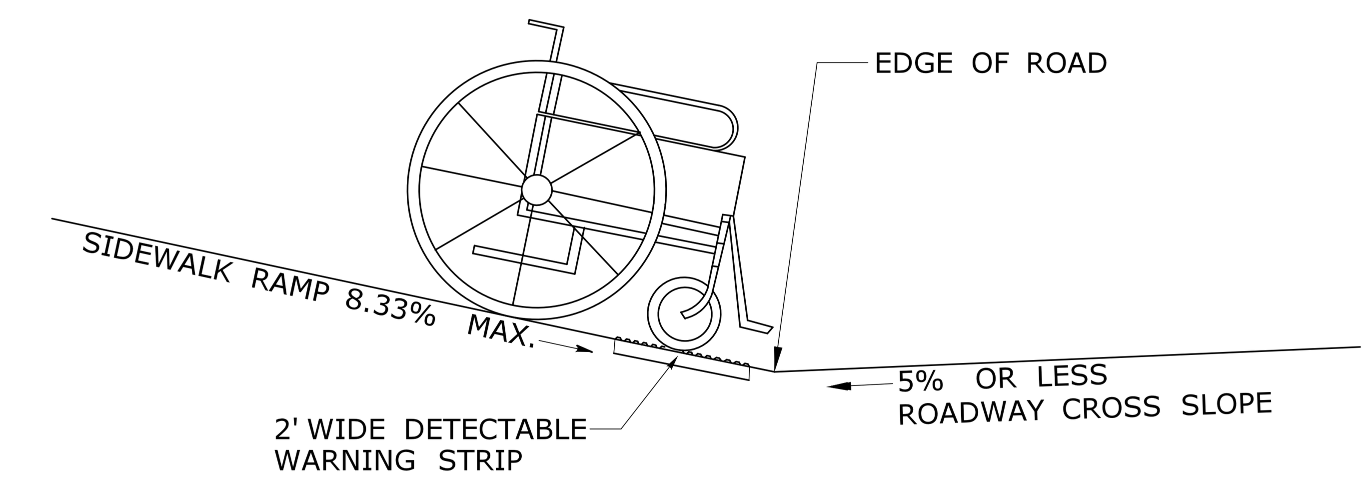
PROJECT NO. -
DRAWING NO. BF-GS_01
SHEET NO.

GENERAL NOTES:

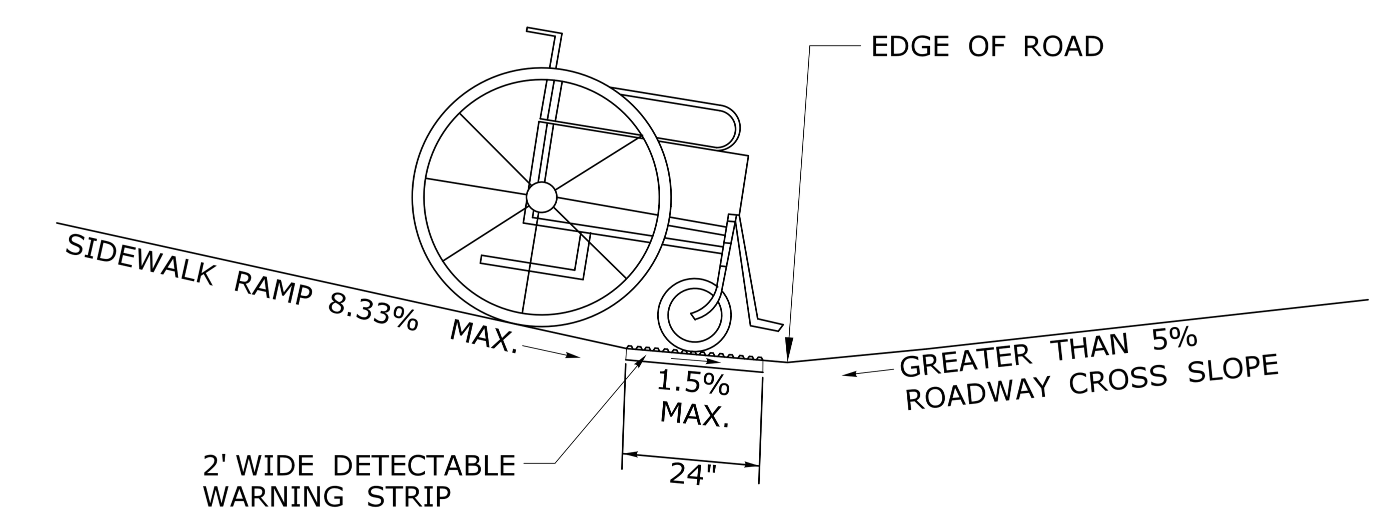
1. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRAVERSE TO THE SLOPE OF THE RAMP.
2. VERTICAL SURFACE DISCONTINUITIES AT JOINTS SHALL NOT EXCEED 1/4 INCH.
3. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT.
4. THE RUNNING SLOPE OF THE CURB RAMP SHALL BE 8.3 PERCENT MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET.



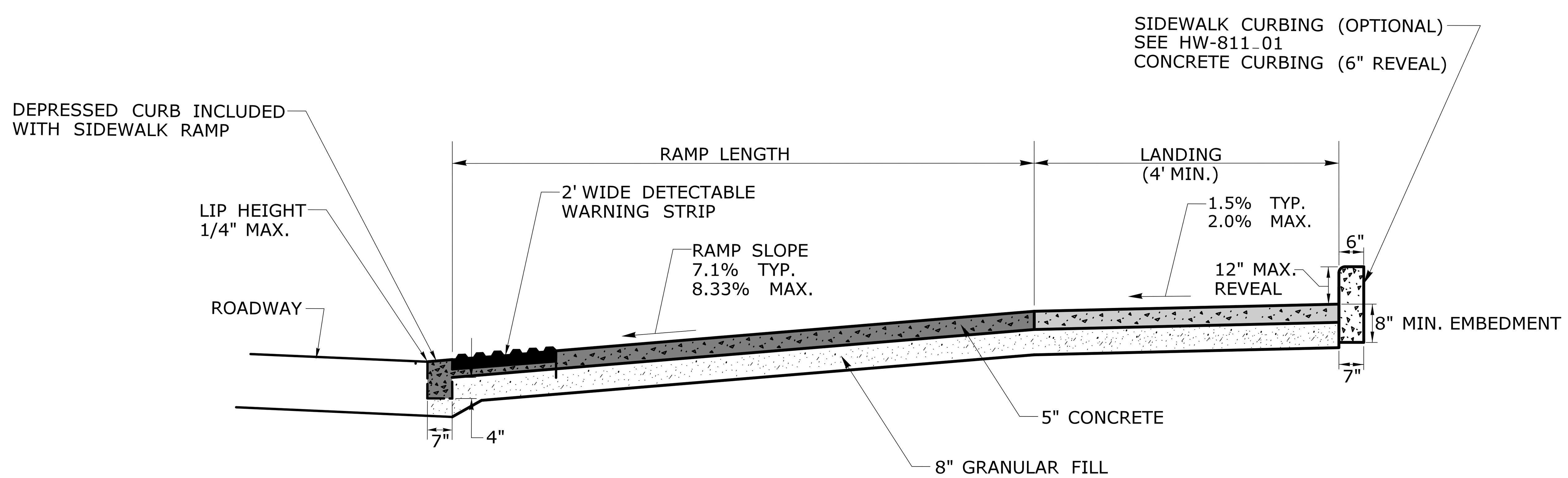
PERPENDICULAR SIDEWALK RAMP



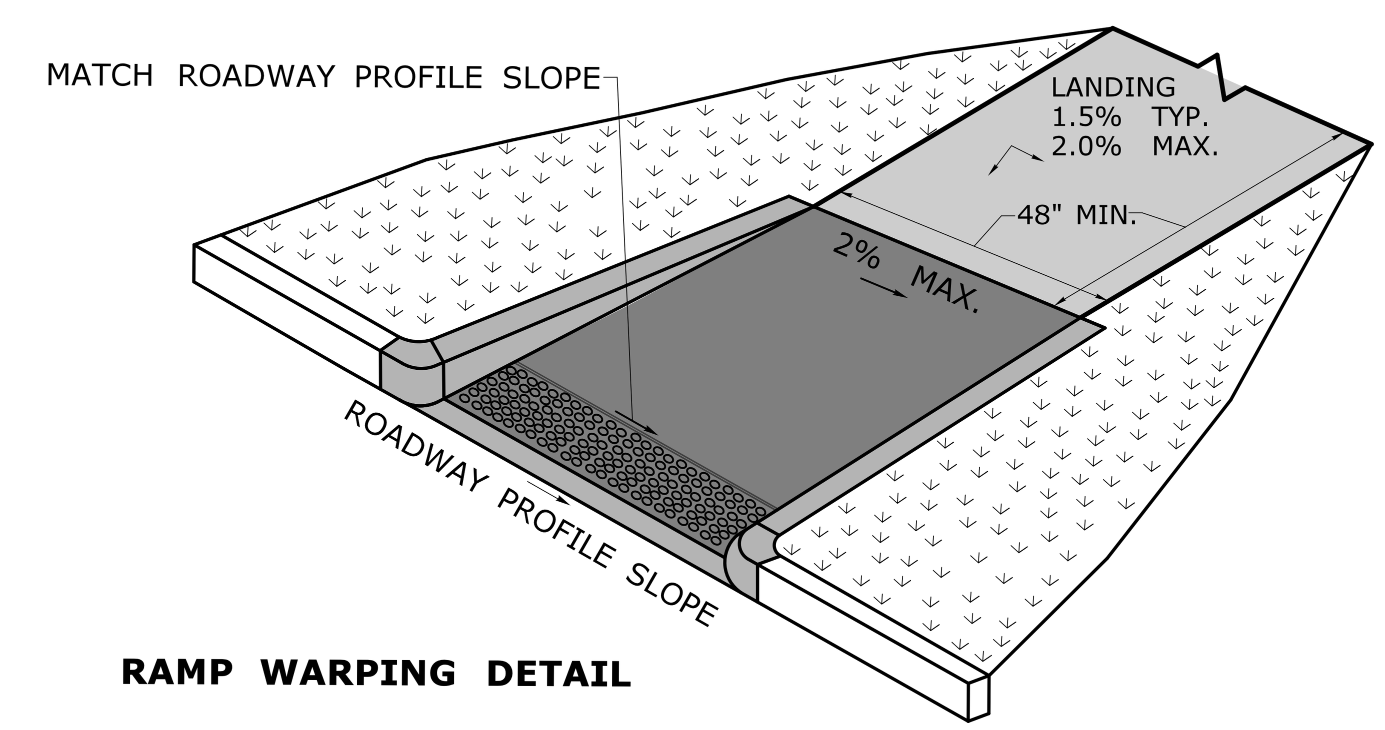
SIDEWALK RAMP GRADE AT ROADWAY CROSS SLOPE OF 5% OR LESS



SIDEWALK RAMP GRADE AT ROADWAY CROSS SLOPE OF GREATER THAN 5%



SECTION AA



RAMP WARPING DETAIL

1. TRANSITION SIDEWALK RAMP TO MATCH ROADWAY PROFILE AS GRADUALLY AS POSSIBLE. DO NOT EXCEED 3 % PER FOOT CROSS SLOPE RATE OF CHANGE WHEN TRANSITIONING TO ROADWAY PROFILE.
2. COMPLETE TRANSITION TO ROADWAY PROFILE BEHIND DETECTABLE WARNING SURFACE.

DESIGN INITIATED CHANGE ORDER NO. Y - mm/dd/yy

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
1.	5/19	REVISED MAX LANDING SLOPE TO 2% AND DRAWING TITLE	

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/1/2019

DESIGNER/DRAFTER: -

CHECKED BY: -

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_HIGHWAY_GD_[4-17-19].dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
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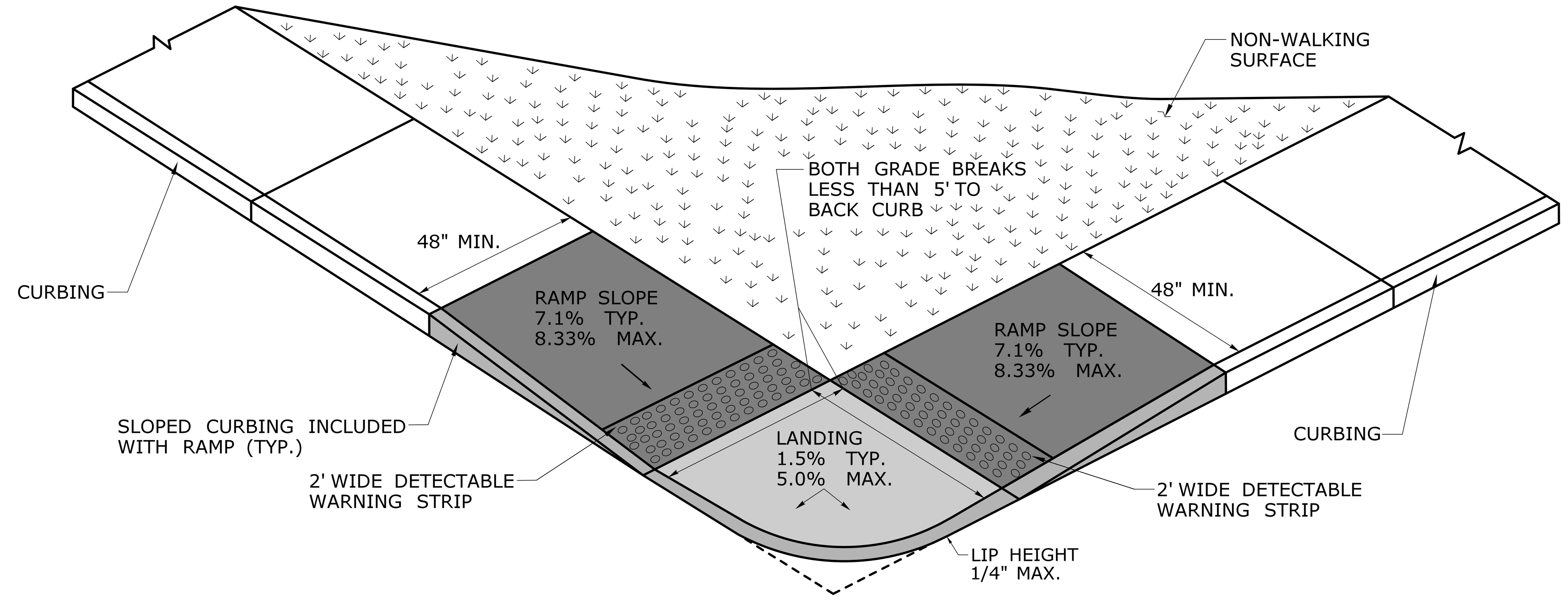
TOWN:
-
-

DRAWING TITLE:
CONCRETE SIDEWALK RAMPS SHEET 1

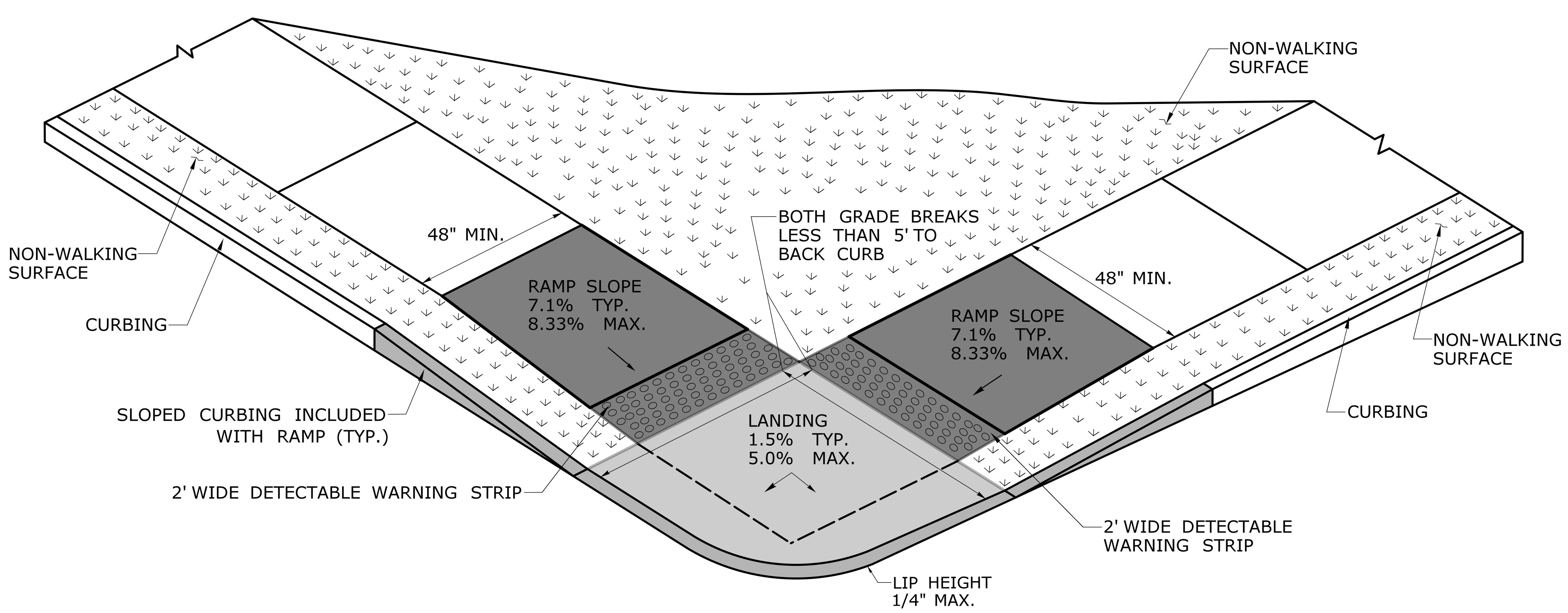
PROJECT NO. -

DRAWING NO.

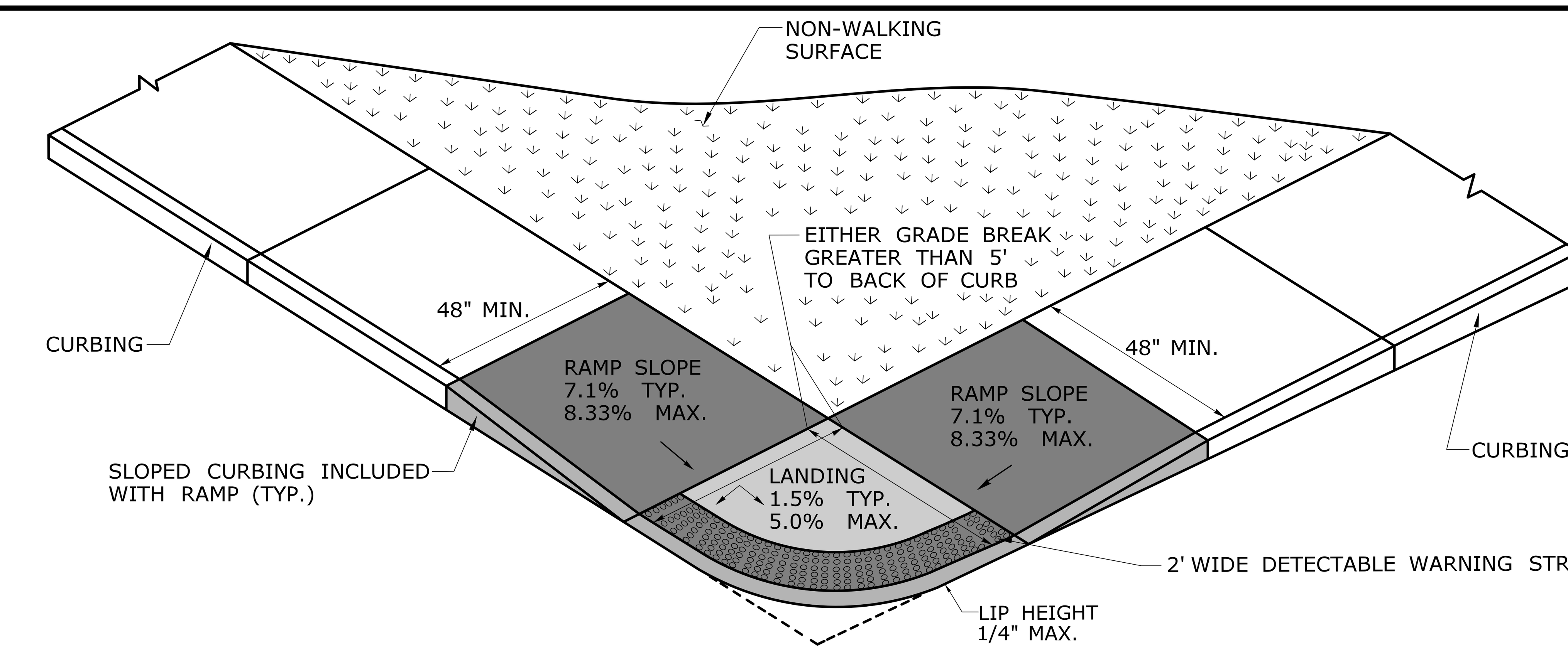
SHEET NO.



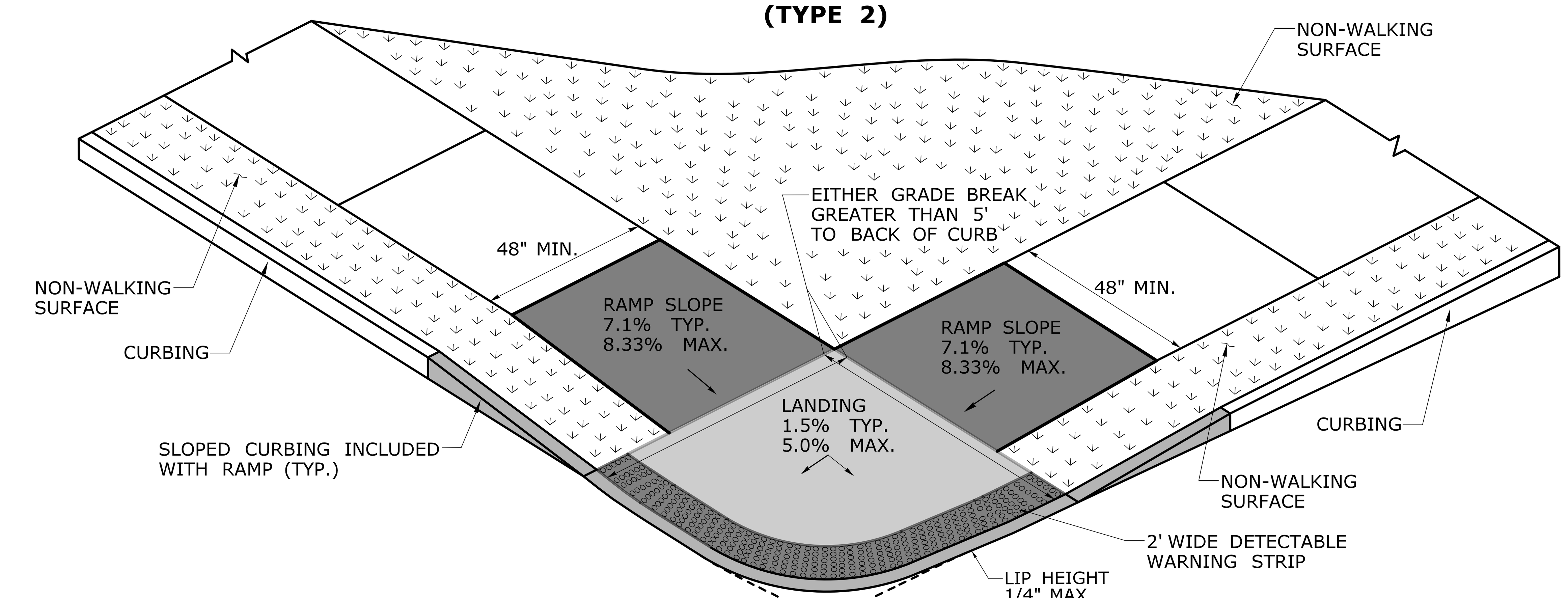
PERPENDICULAR RAMP
WITH A GRADE BREAK OF 5' OR LESS
(TYPE 1)



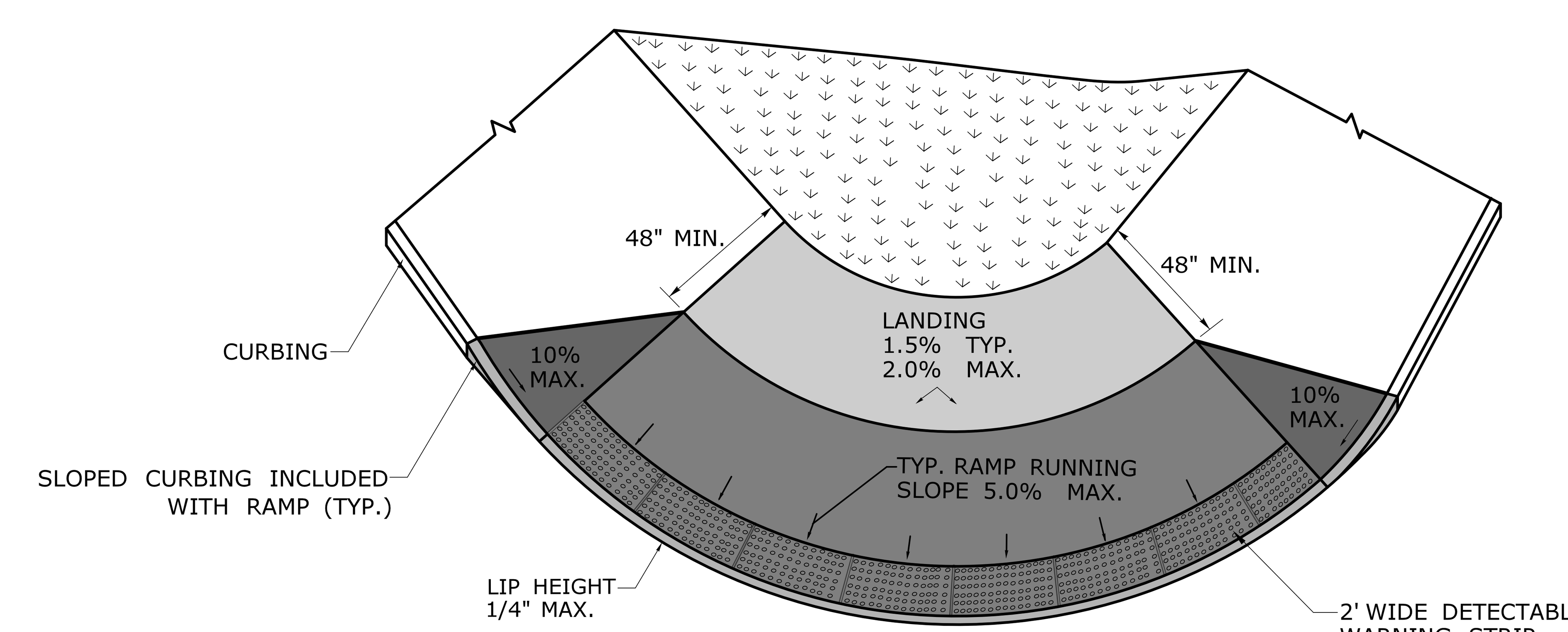
PERPENDICULAR RAMP
WITH A GRADE BREAK
TO BACK OF CURB OF 5' OR LESS
(TYPE 3)



BLENDED TRANSITION
WITH GRADE BREAK GREATER THAN 5'
(TYPE 2)



BLENDED TRANSITION
WITH A GRADE BREAK
TO BACK OF CURB GREATER THAN 5'
(TYPE 4)



BLENDED TRANSITION
WITH LANDING AT TOP
(TYPE 5)

DESIGN INITIATED CHANGE ORDER NO. Y - mm/dd/yy

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 1/30/2019

DESIGNER/DRAFTER: -
CHECKED BY: -

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_HIGHWAY_GD_[1-28-19].dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
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TOWN:
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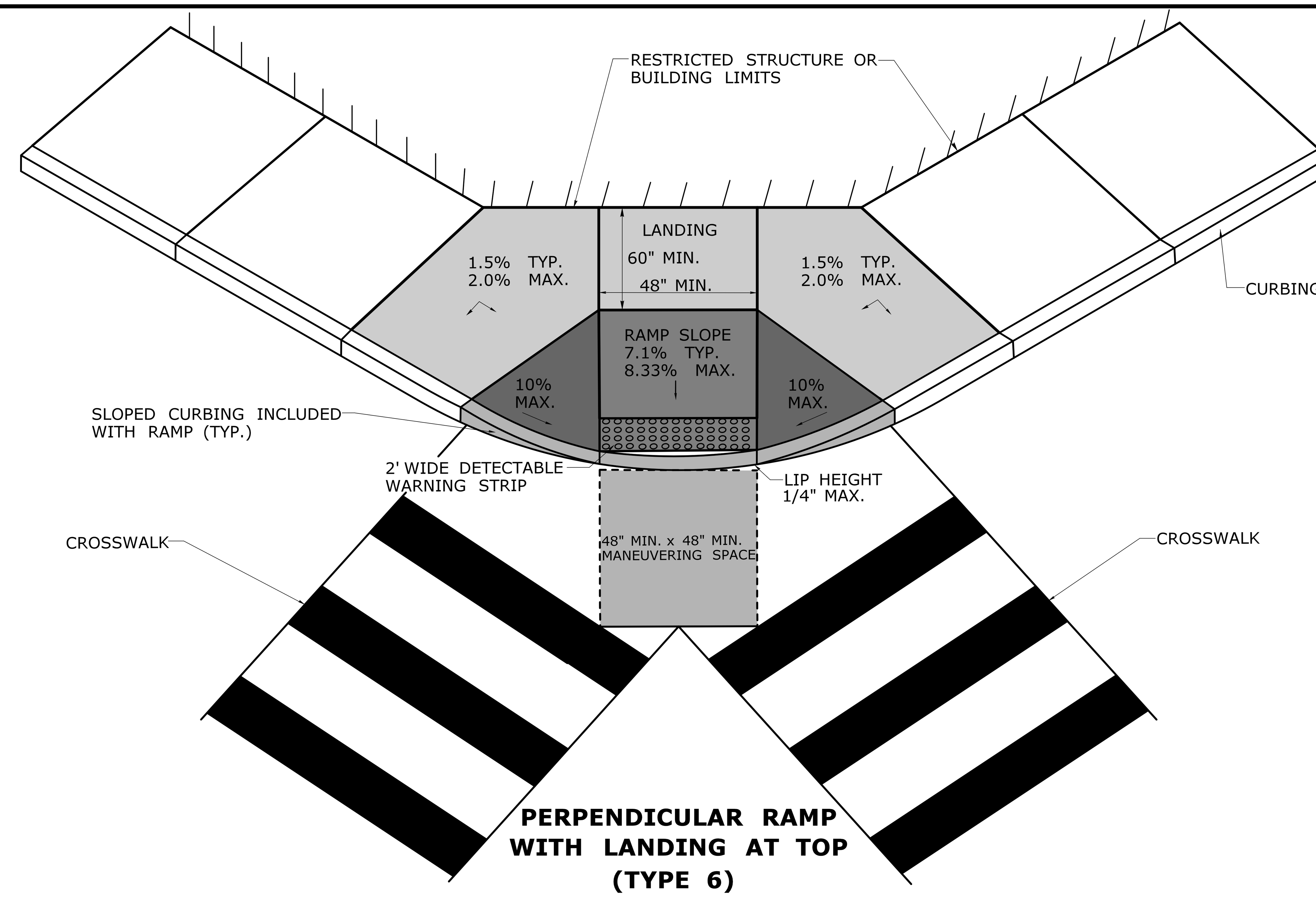
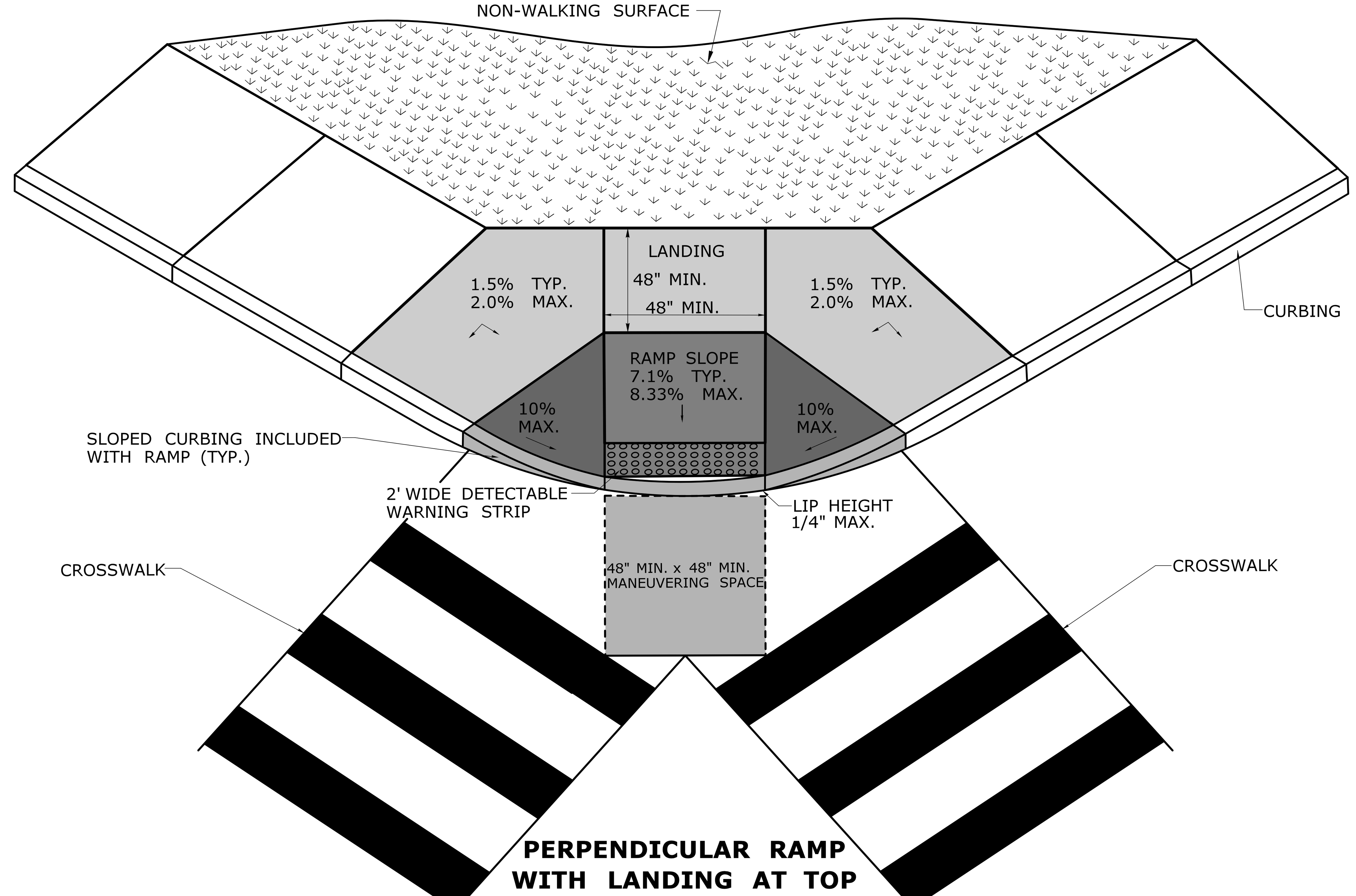
DRAWING TITLE:
CONCRETE SIDEWALK RAMPS - SHEET 2

PROJECT NO. -
DRAWING NO.
SHEET NO.



PERPENDICULAR RAMP WITH LANDING AT TOP (TYPE 6)



PERPENDICULAR RAMP WITH LANDING AT TOP (TYPE 7)

DESIGN INITIATED CHANGE ORDER NO. Y - mm/dd/yy

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 1/30/2019

DESIGNER/DRAFTER: -

CHECKED BY: -

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_HIGHWAY_GD_[1-28-19].dgn

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
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TOWN:
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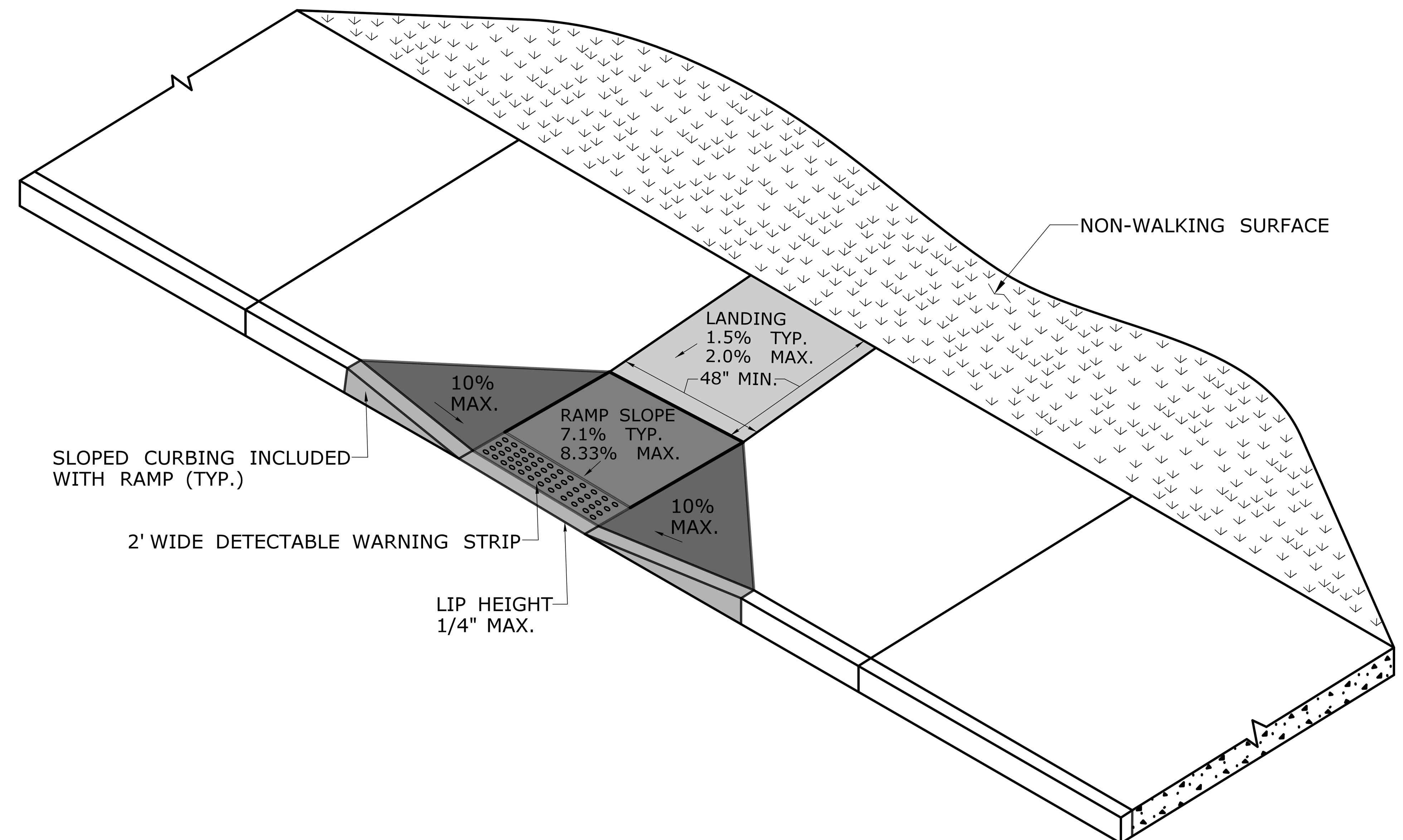
DRAWING TITLE:
CONCRETE SIDEWALK RAMPS SHEET 3

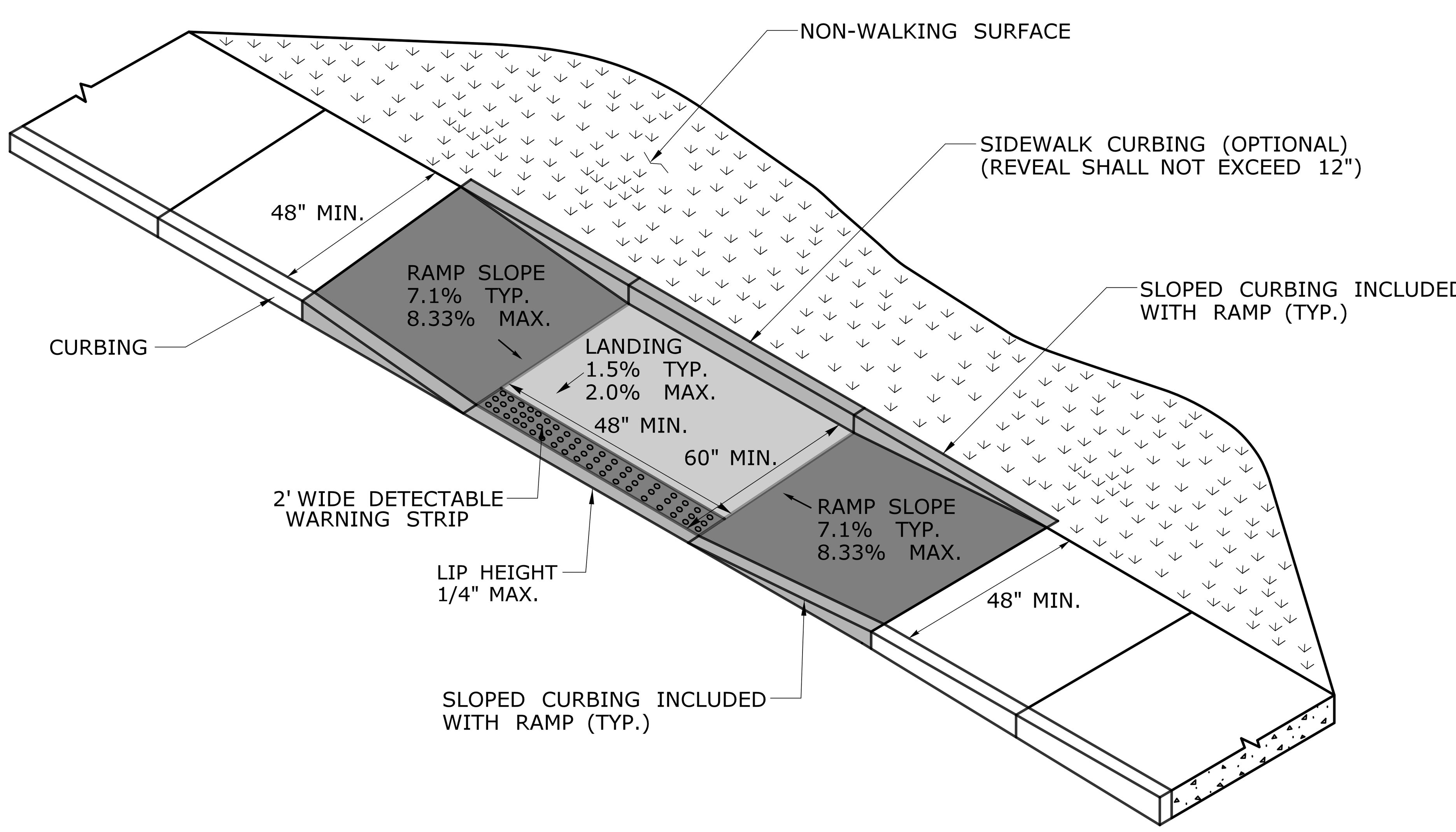
PROJECT NO. -

DRAWING NO.

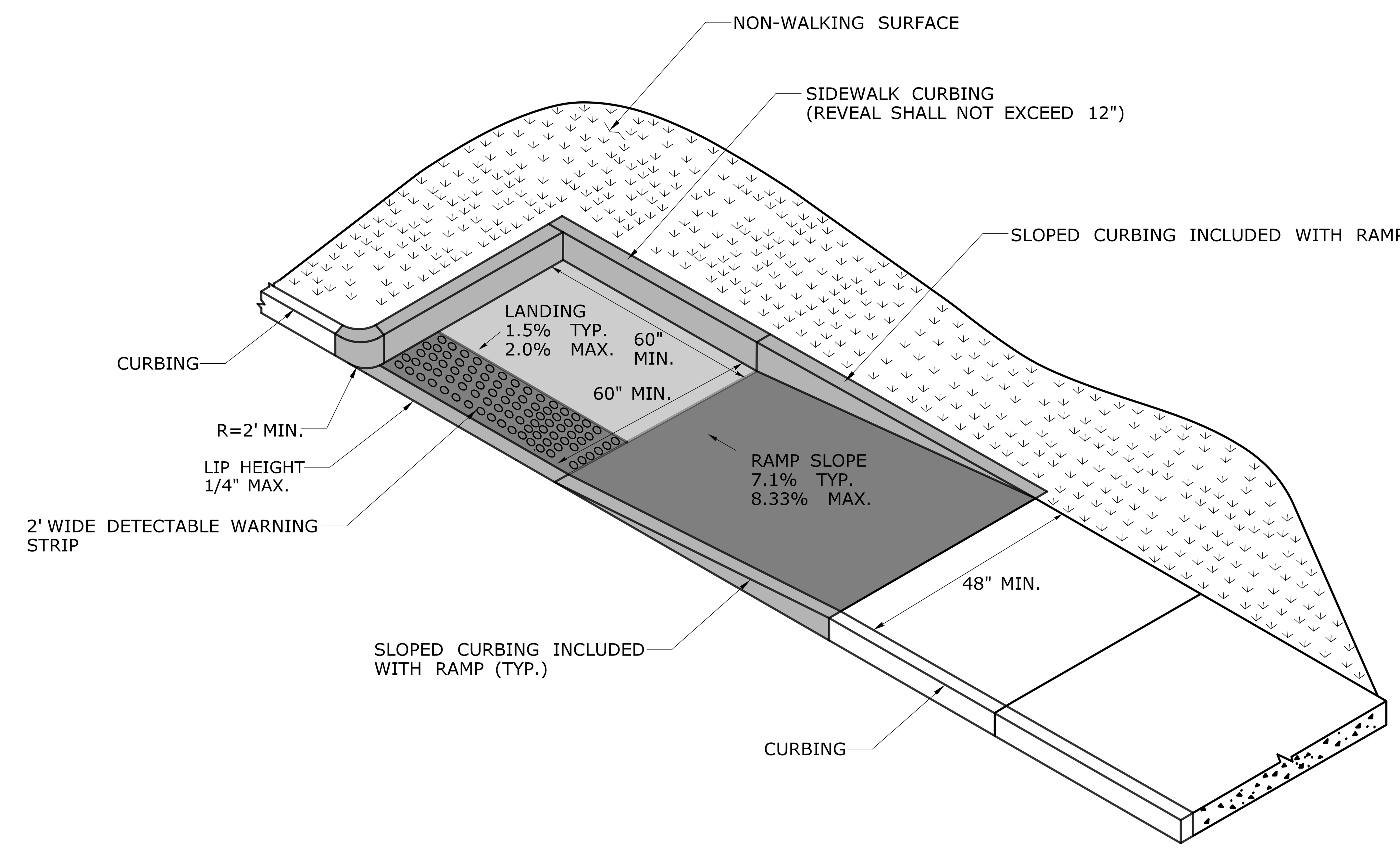
SHEET NO.



PERPENDICULAR RAMP WITH 48" BY-PASS (TYPE 8)



PARALLEL RAMP WITHOUT NON-WALKING SURFACE (TYPE 9)



PARALLEL RAMP WITH LANDING AT BOTTOM ON CORNER (TYPE 10)

DESIGN INITIATED CHANGE ORDER NO. Y - mm/dd/yy

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 1/30/2019

DESIGNER/DRAFTER: -
CHECKED BY: -

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_HIGHWAY_GD_[1-28-19].dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
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TOWN:
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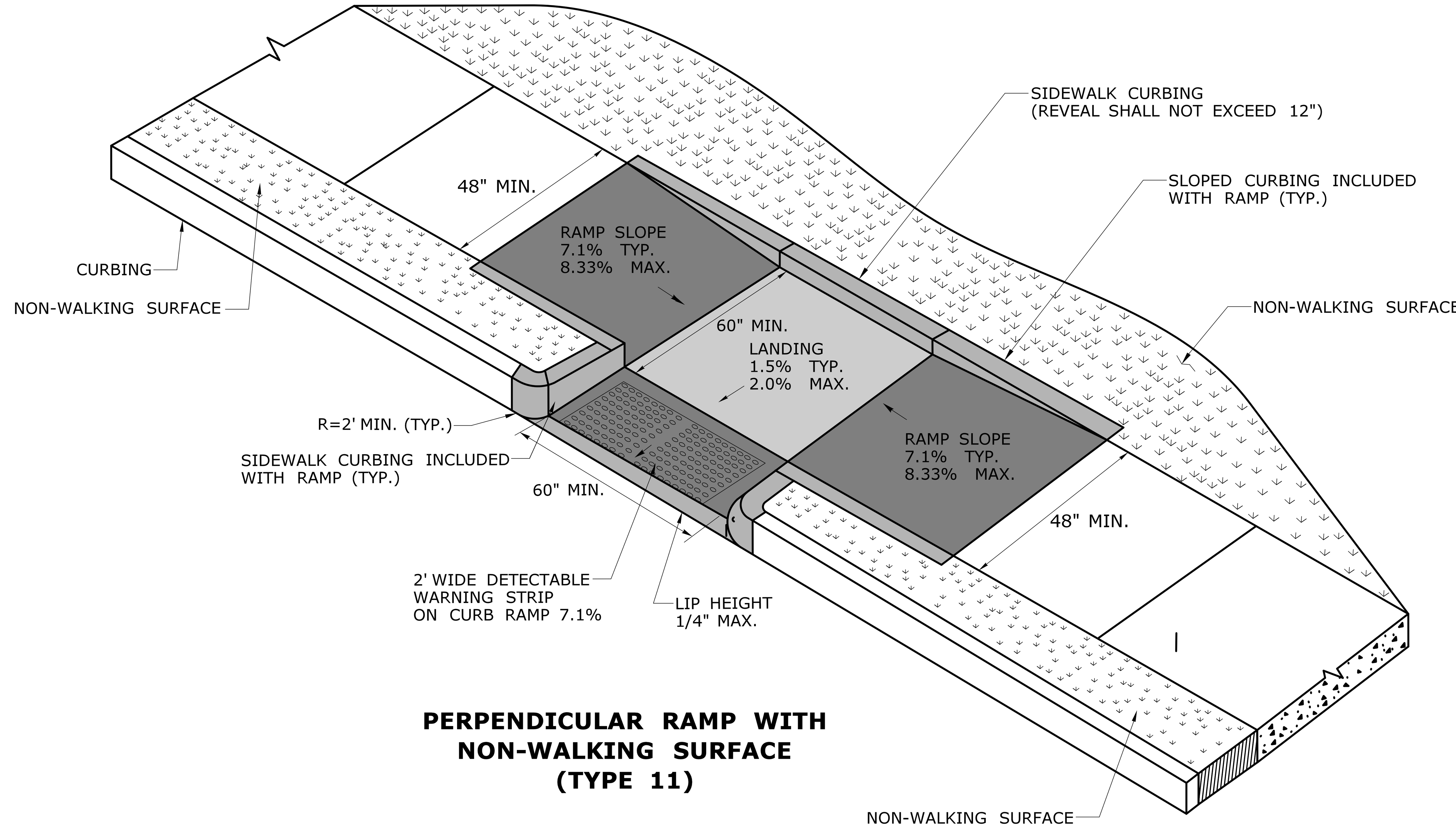
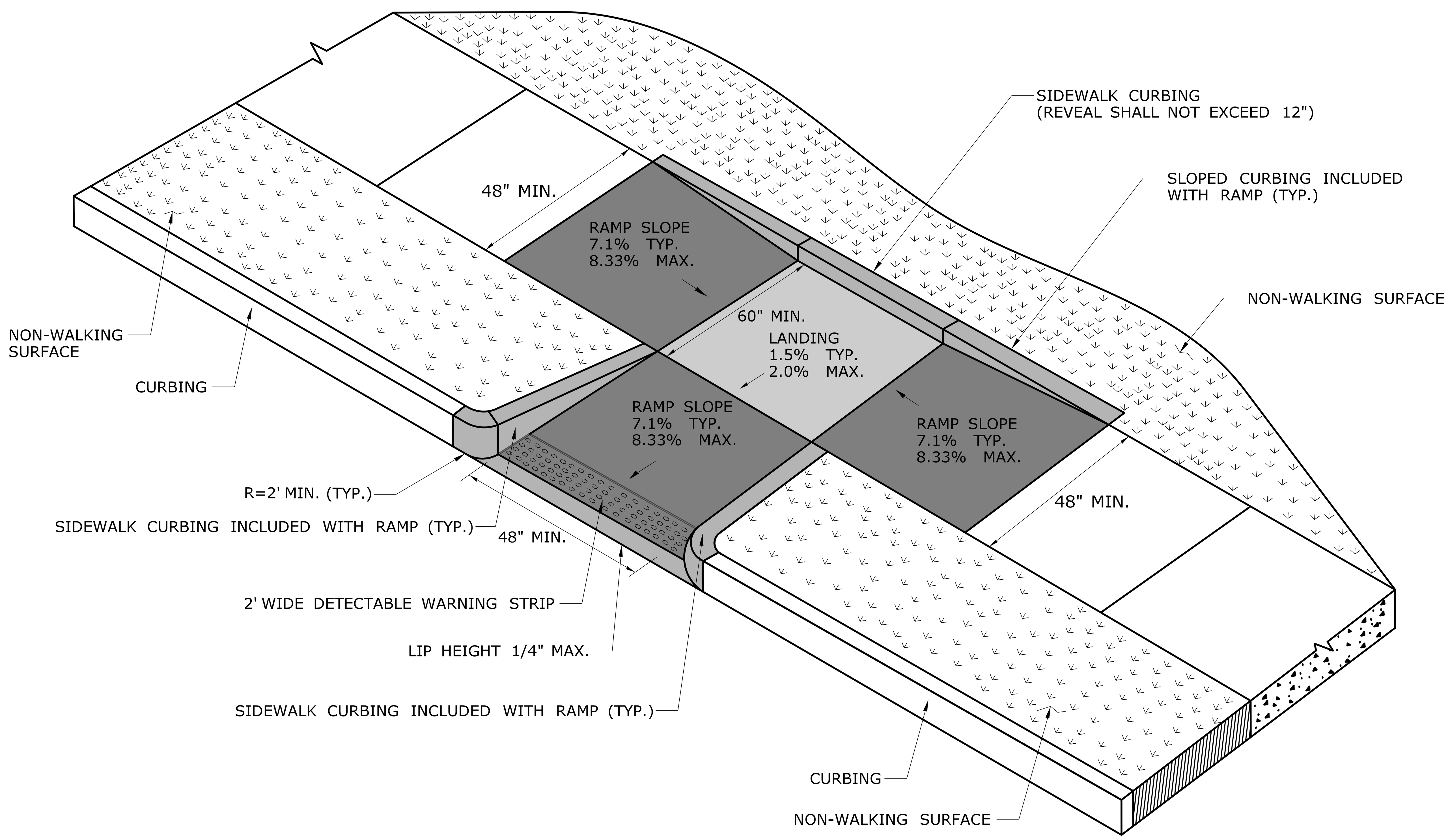
DRAWING TITLE:
CONCRETE SIDEWALK RAMPS SHEET 4

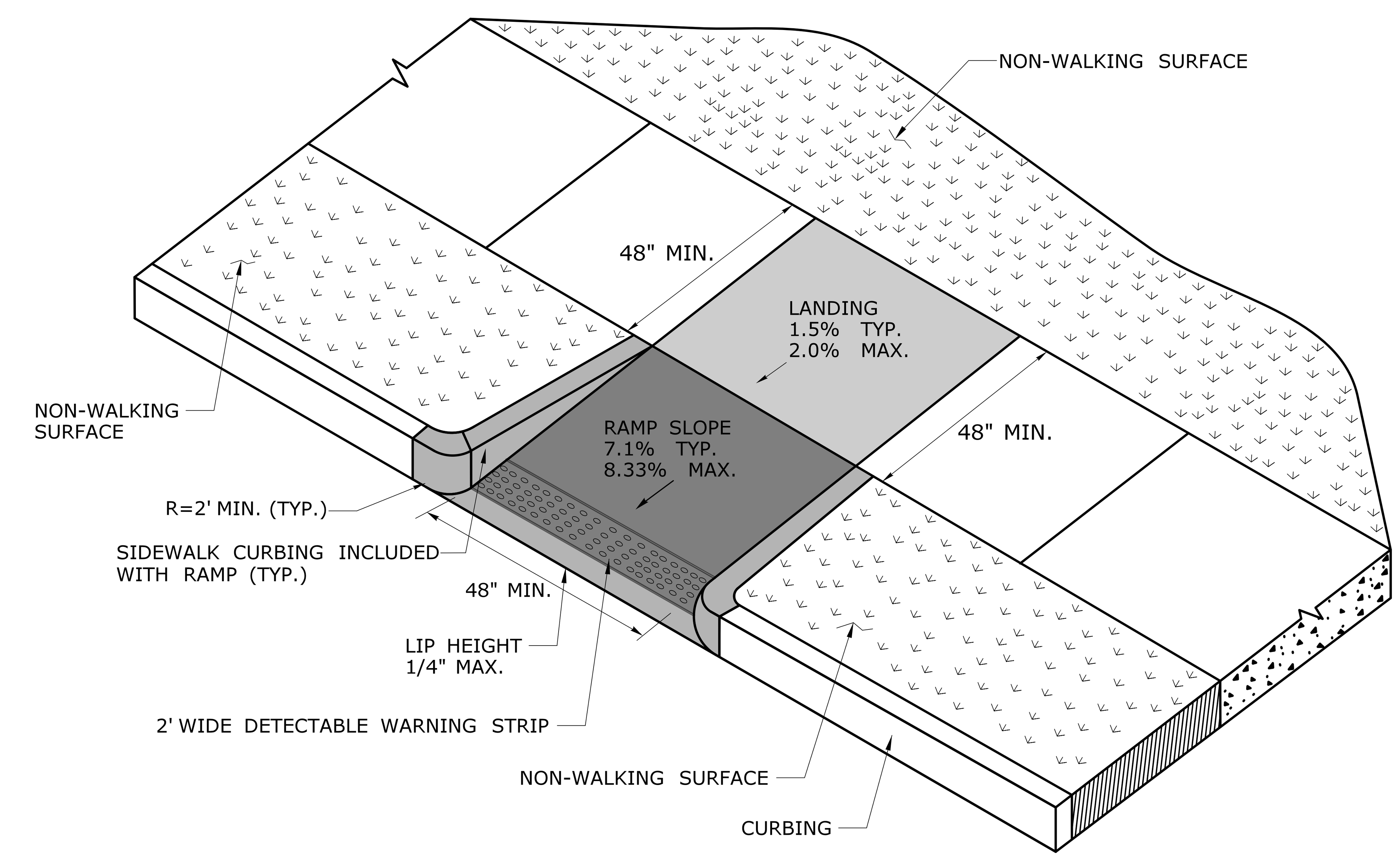
PROJECT NO. -
DRAWING NO.
SHEET NO.



PERPENDICULAR RAMP WITH NON-WALKING SURFACE (TYPE 11)



PERPENDICULAR RAMP WITH SIDEWALK CURB AND NON-WALKING SURFACE (TYPE 12)



PERPENDICULAR RAMP WITH NON-WALKING SURFACE (TYPE 13)

DESIGN INITIATED CHANGE ORDER NO. Y - mm/dd/yy

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 1/30/2019

DESIGNER/DRAFTER: -

CHECKED BY: -

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_HIGHWAY_GD_[1-28-19].dgn

SIGNATURE/BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
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-

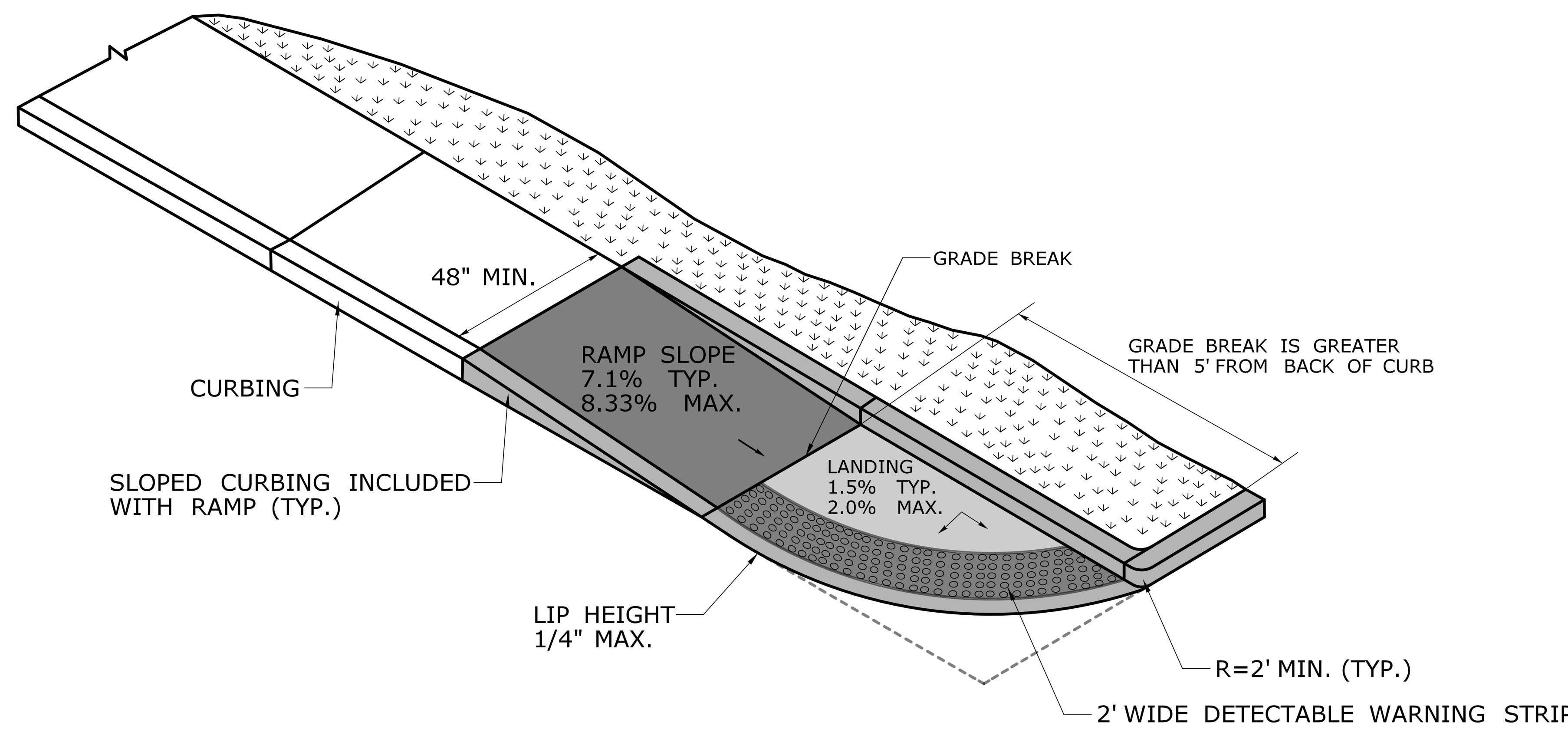
TOWN:
-
-

DRAWING TITLE:
CONCRETE SIDEWALK RAMPS SHEET 5

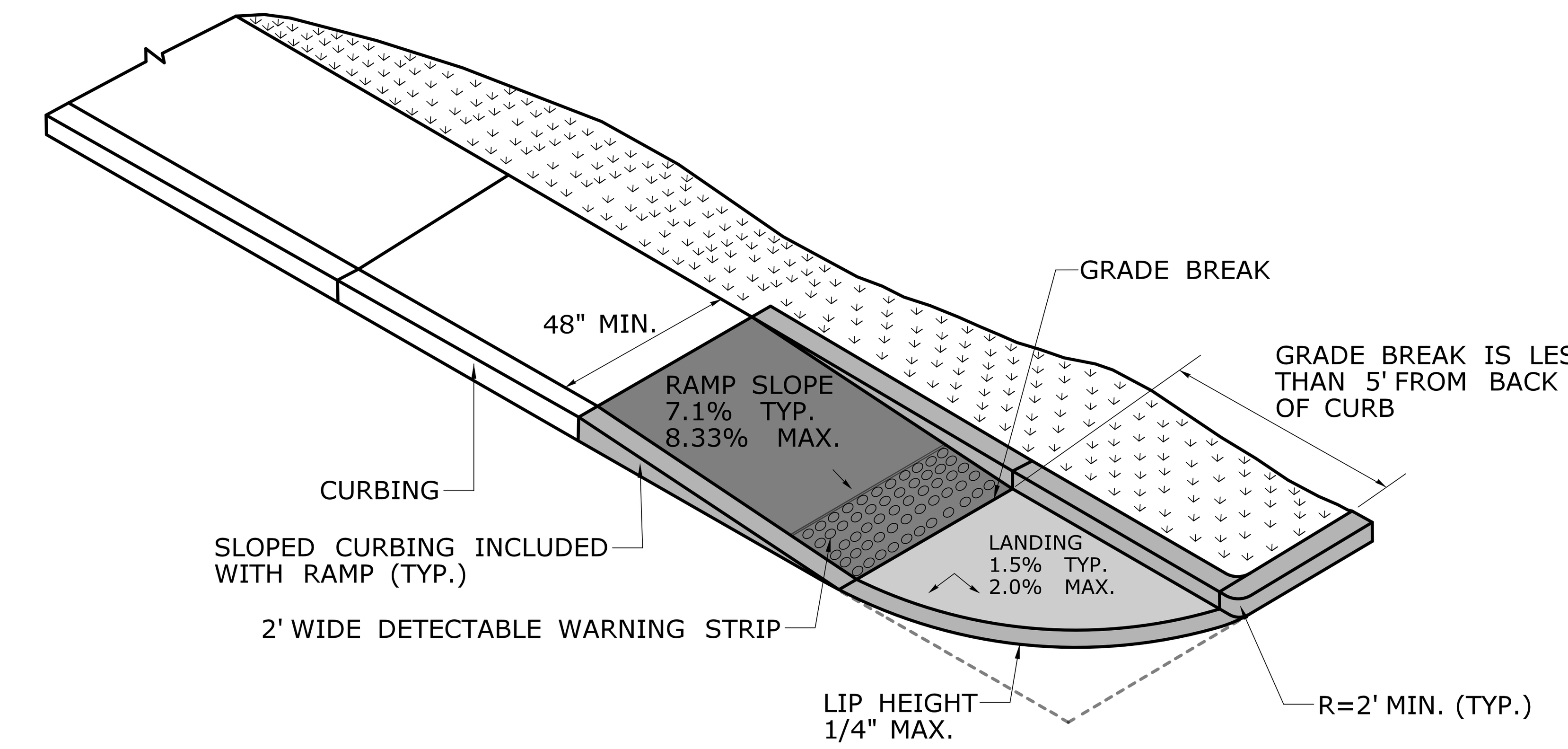
PROJECT NO. -

DRAWING NO.

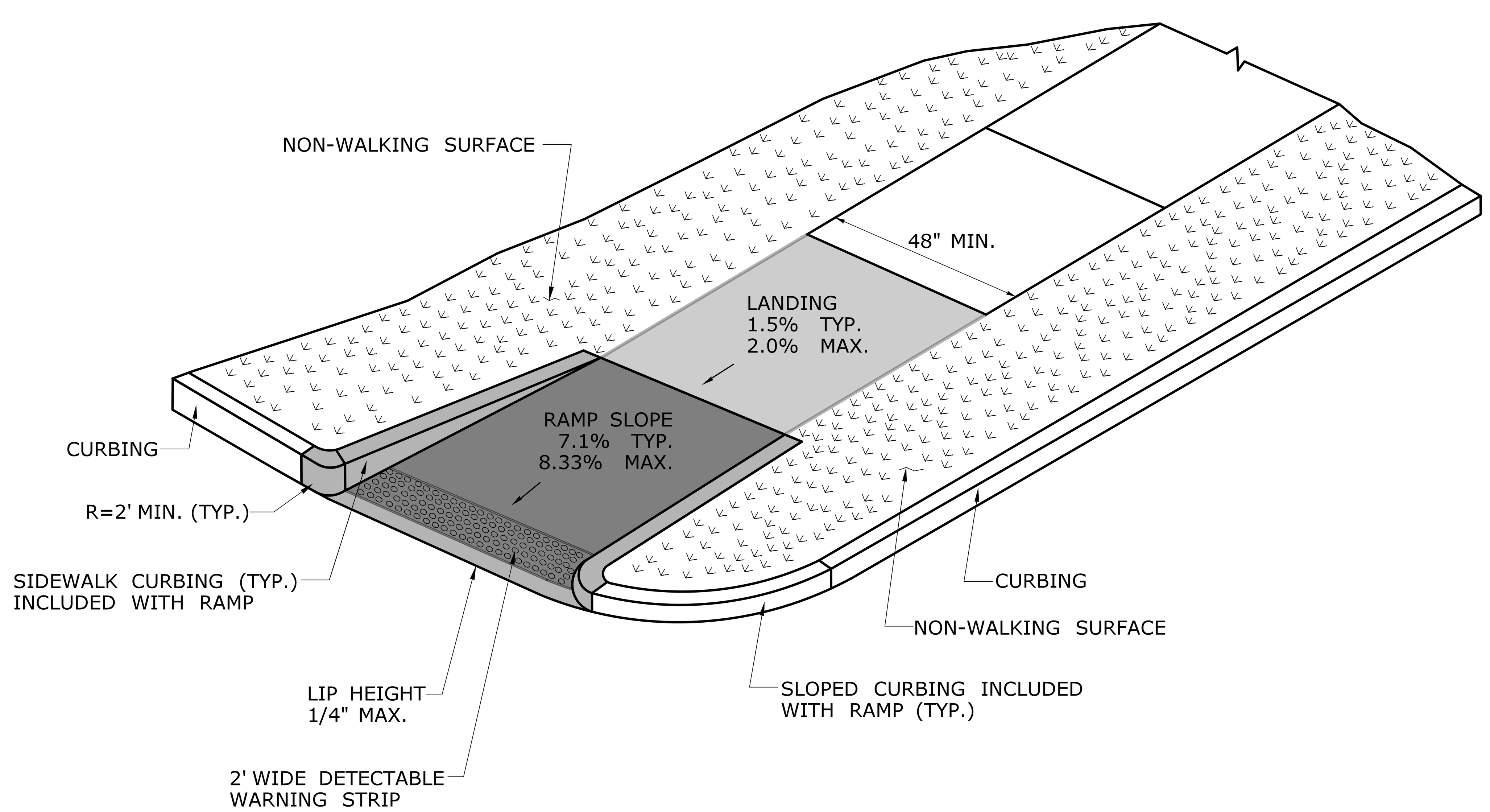
SHEET NO.



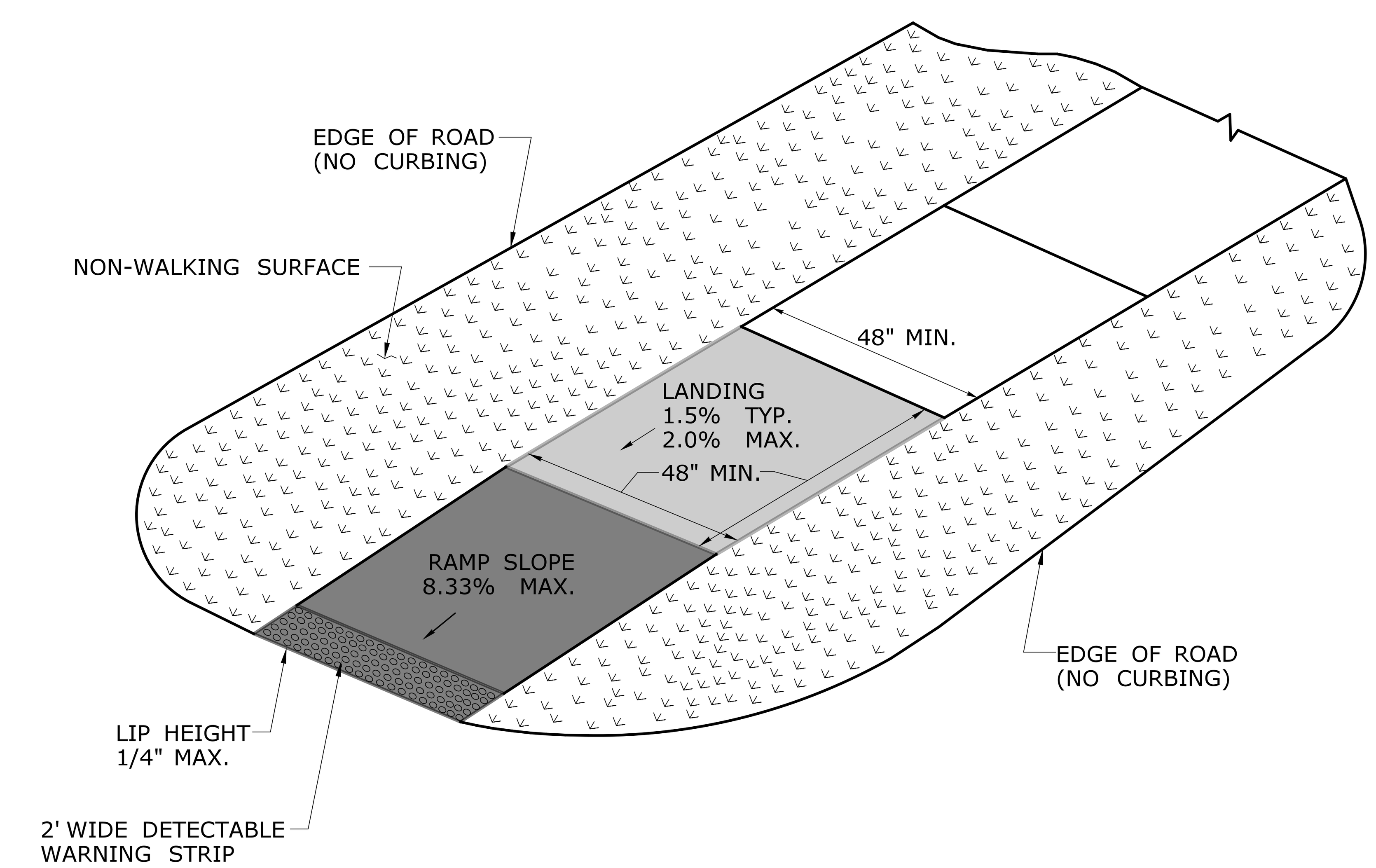
SINGLE DIRECTION RAMP
WITHOUT NON-WALKING SURFACE
GRADE BREAK GREATER THAN 5'
(TYPE 14)



SINGLE DIRECTION RAMP
WITHOUT NON-WALKING SURFACE
GRADE BREAK LESS THAN 5'
(TYPE 15)



SINGLE DIRECTION - RETURN CURB
WITH NON-WALKING SURFACE
(TYPE 16)



SINGLE DIRECTION - NO CURB
WITH NON-WALKING SURFACE
(TYPE 17)

DESIGN INITIATED CHANGE ORDER NO. Y - mm/dd/yy

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 1/30/2019

DESIGNER/DRAFTER: -
CHECKED BY: -

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_HIGHWAY_GD_[1-28-19].dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
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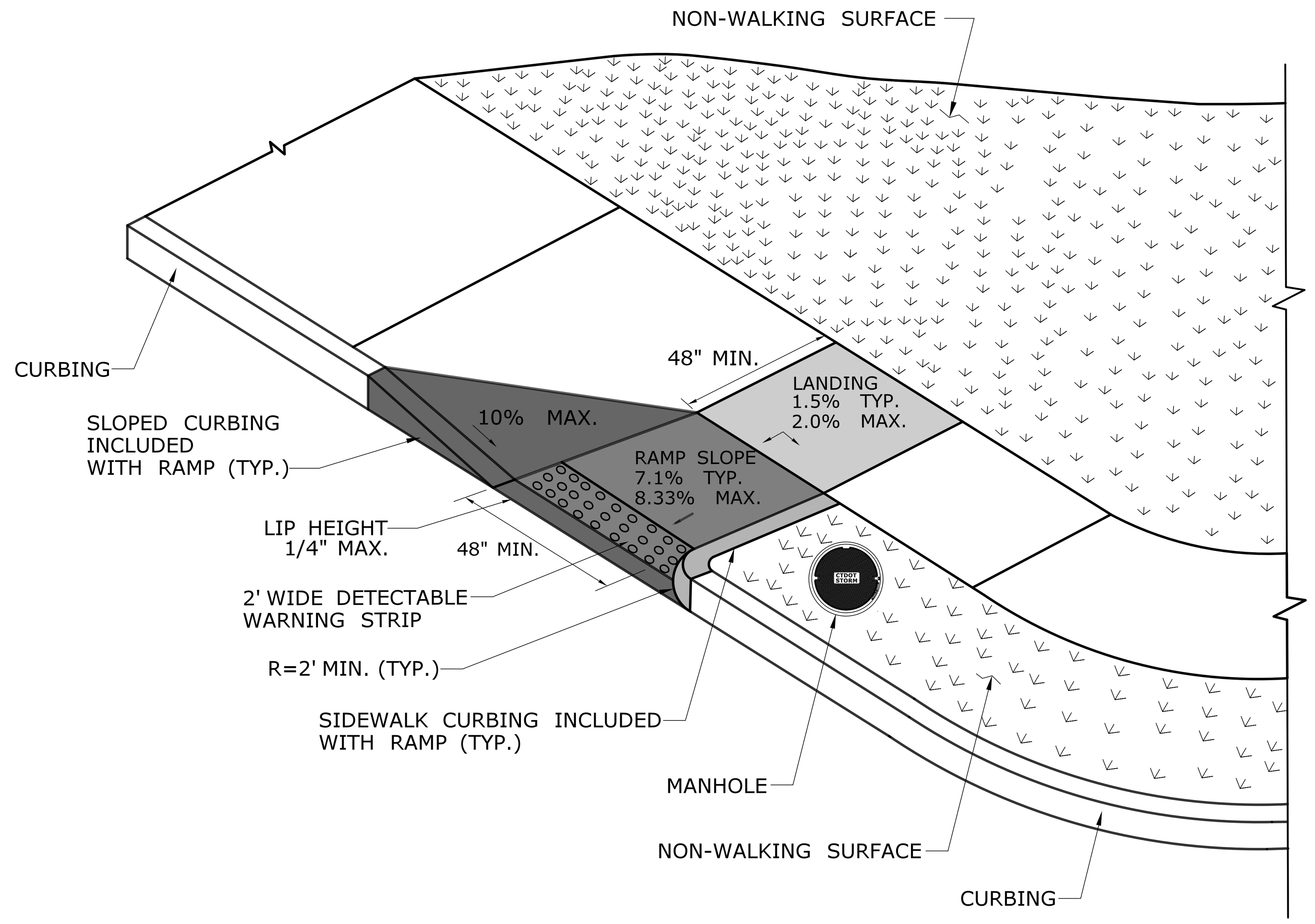
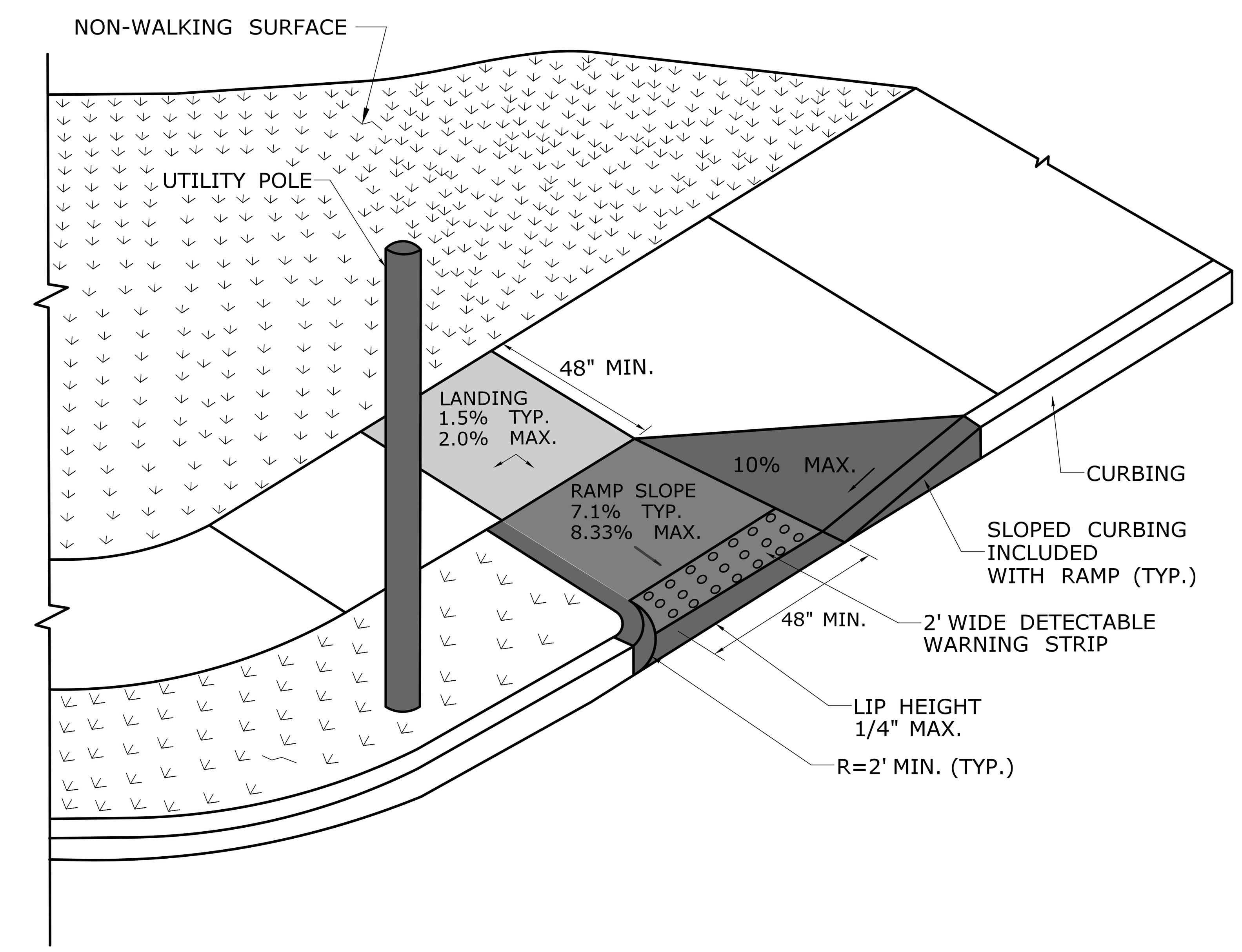
TOWN:
-
-

DRAWING TITLE:
CONCRETE SIDEWALK RAMPS SHEET 6

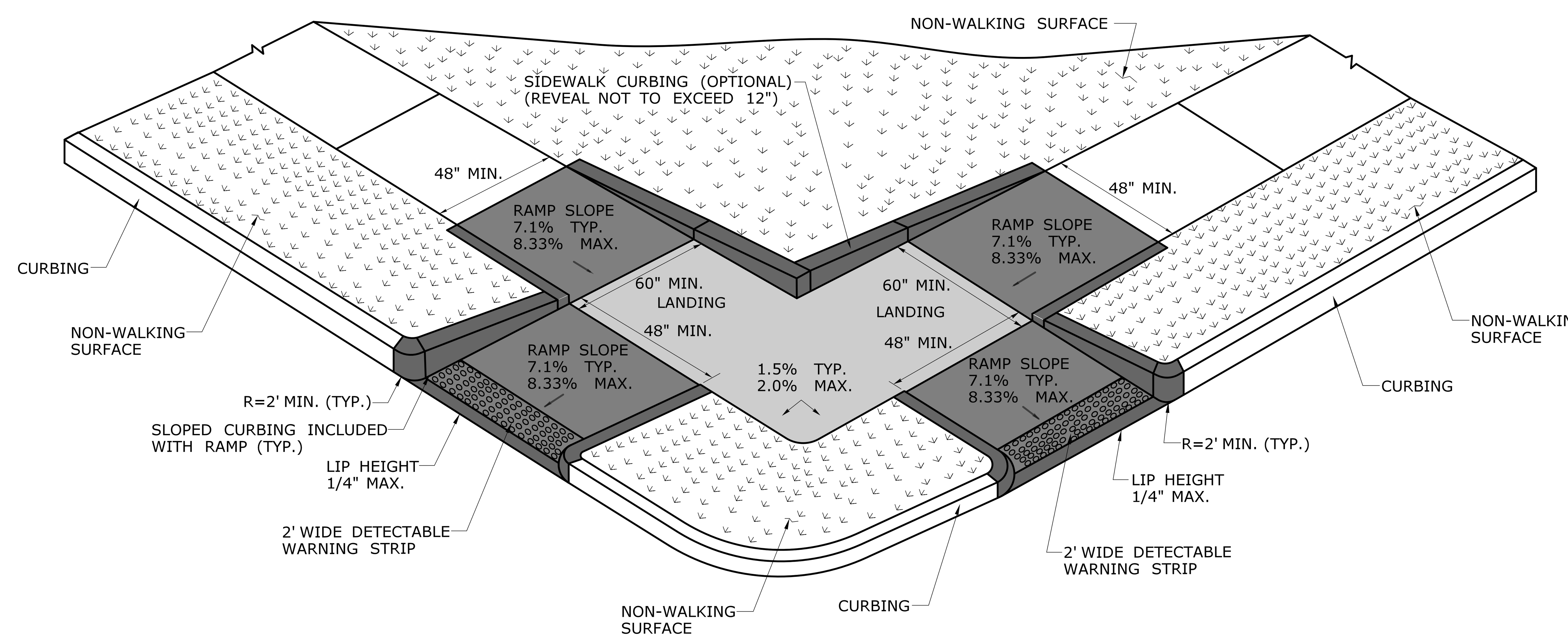
PROJECT NO. -
DRAWING NO.
SHEET NO.



PERPENDICULAR RAMP
WITH NON-WALKING SURFACE
(TYPE 18 LEFT)



PERPENDICULAR RAMP
WITH NON-WALKING SURFACE
(TYPE 18 RIGHT)



PERPENDICULAR RAMP
WITH NON-WALKING SURFACE
(TYPE 19)

DESIGN INITIATED CHANGE ORDER NO. Y - mm/dd/yy

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 1/30/2019

DESIGNER/DRAFTER: -
CHECKED BY: -

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_HIGHWAY_GD_[1-28-19].dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
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TOWN:
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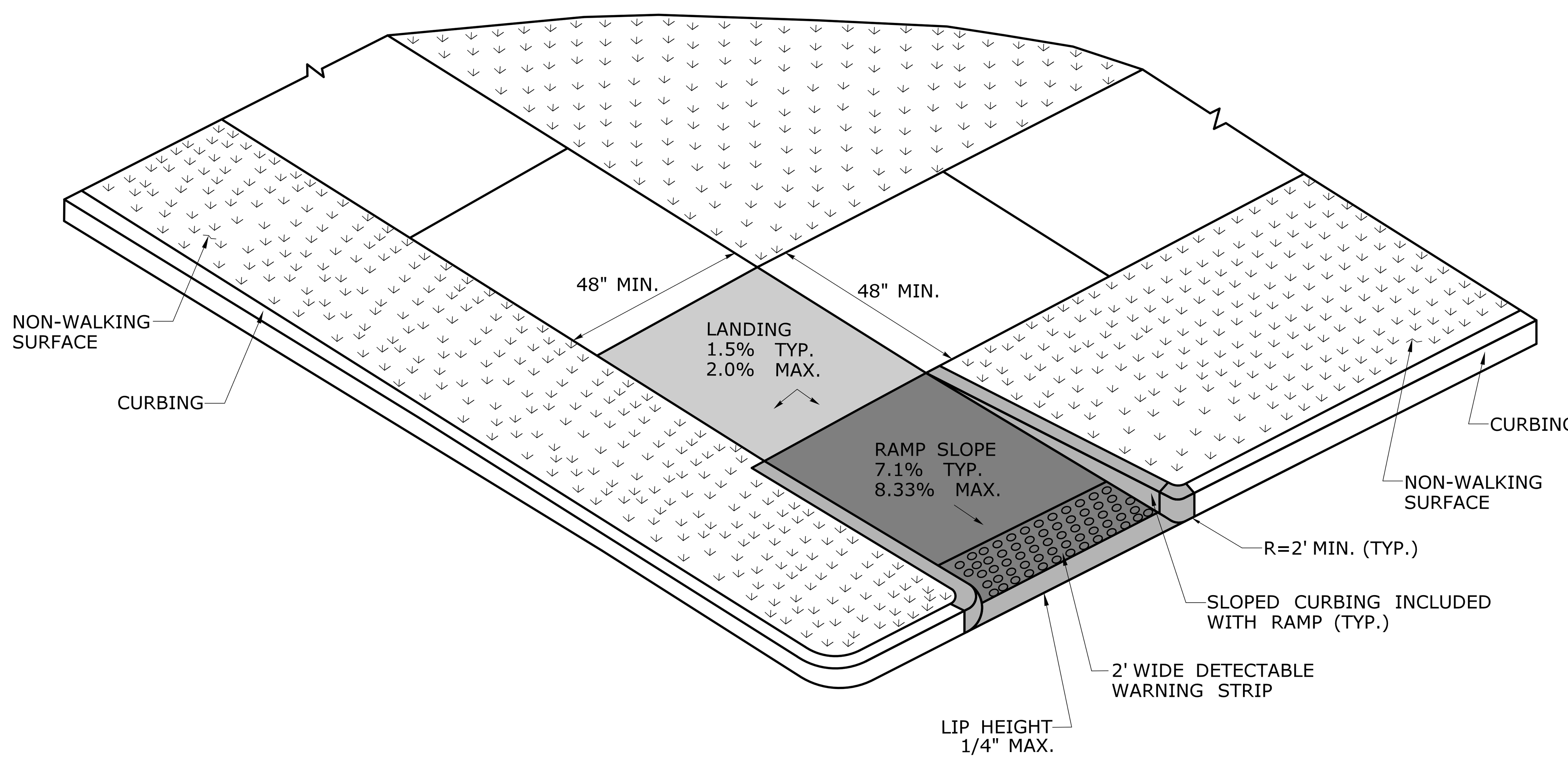
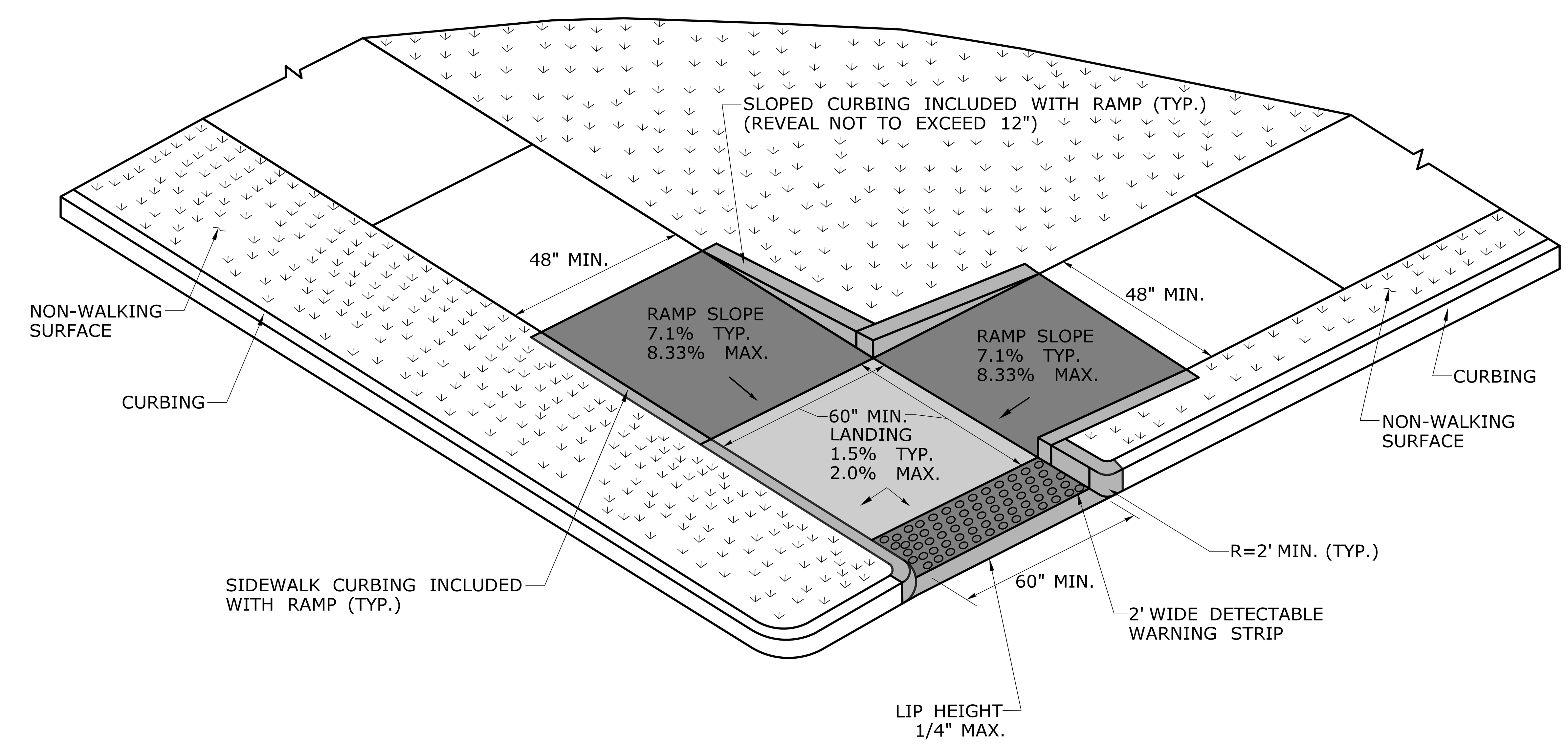
-

DRAWING TITLE:
CONCRETE SIDEWALK RAMPS SHEET 7

PROJECT NO. -
DRAWING NO.
SHEET NO.



RESTRICTED PEDESTRIAN CROSSING SIDEWALK RAMP WITH NON-WALKING SURFACE (TYPE 20)



RESTRICTED PEDESTRIAN CROSSING WITH LANDING AT BOTTOM AND NON-WALKING SURFACE (TYPE 21)

DESIGN INITIATED CHANGE ORDER NO. Y - mm/dd/yy

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 1/30/2019

DESIGNER/DRAFTER: -
CHECKED BY: -

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_HIGHWAY_GD_[1-28-19].dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
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TOWN:
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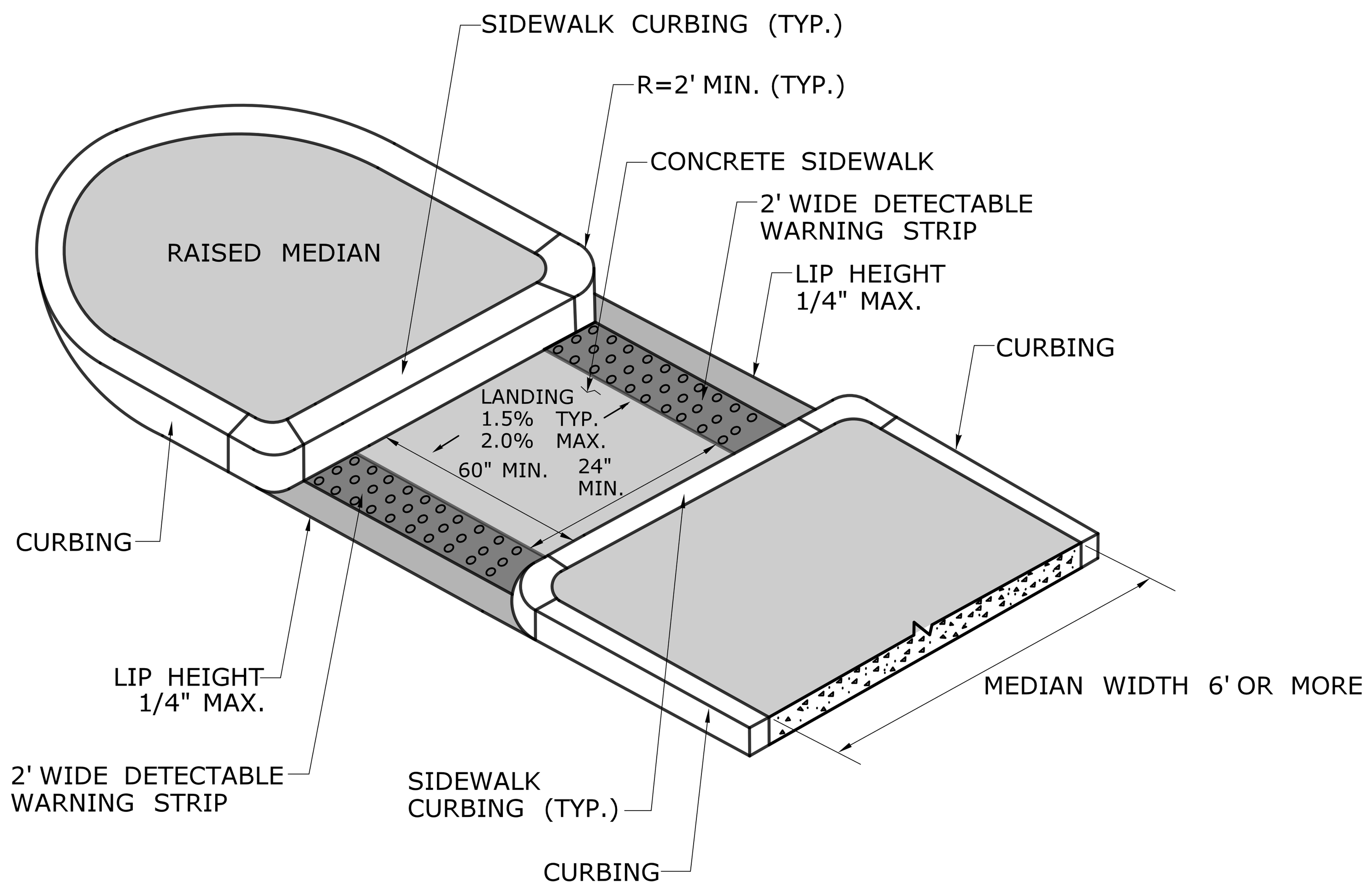
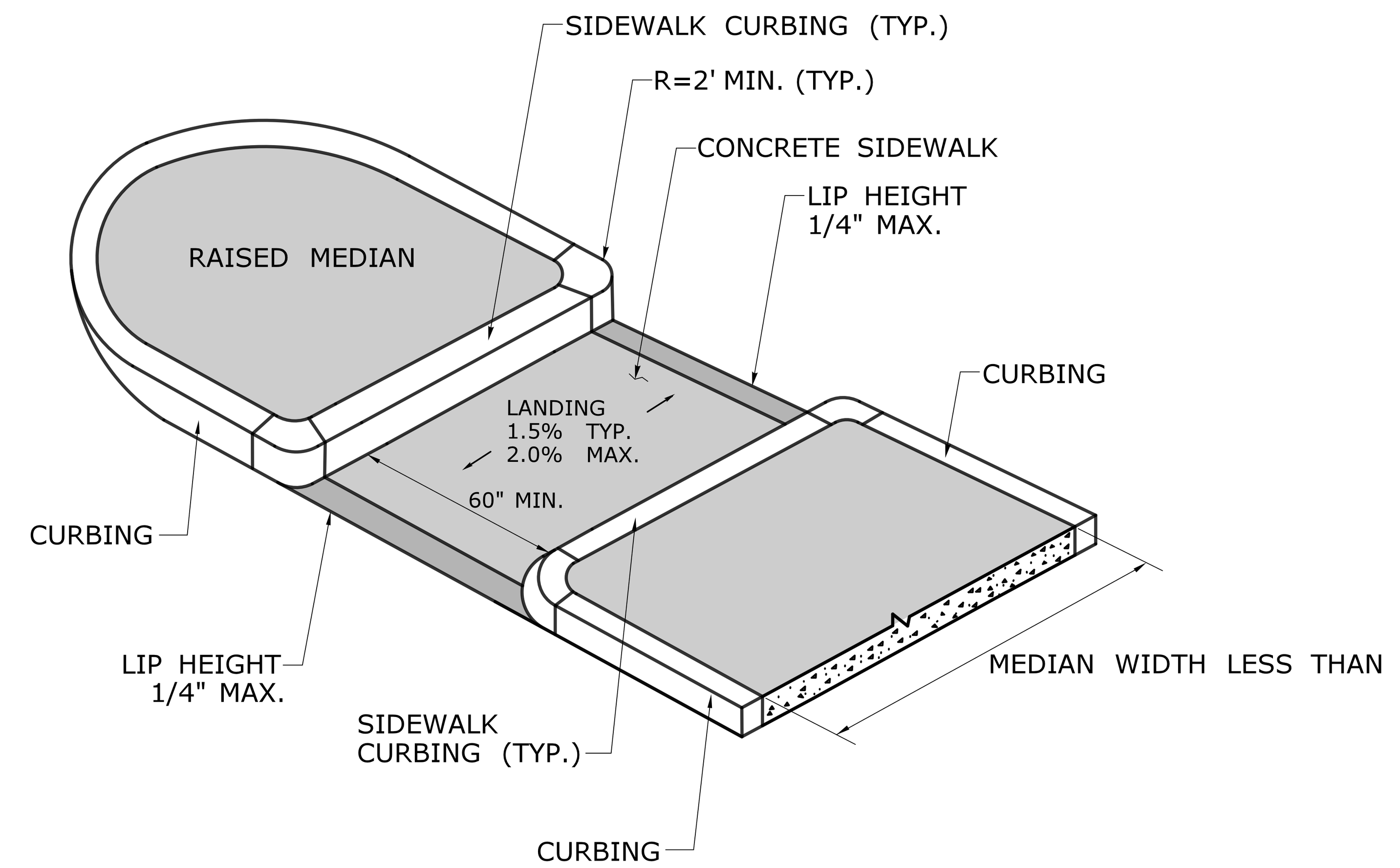
DRAWING TITLE:
CONCRETE SIDWALK RAMPS SHEET 8

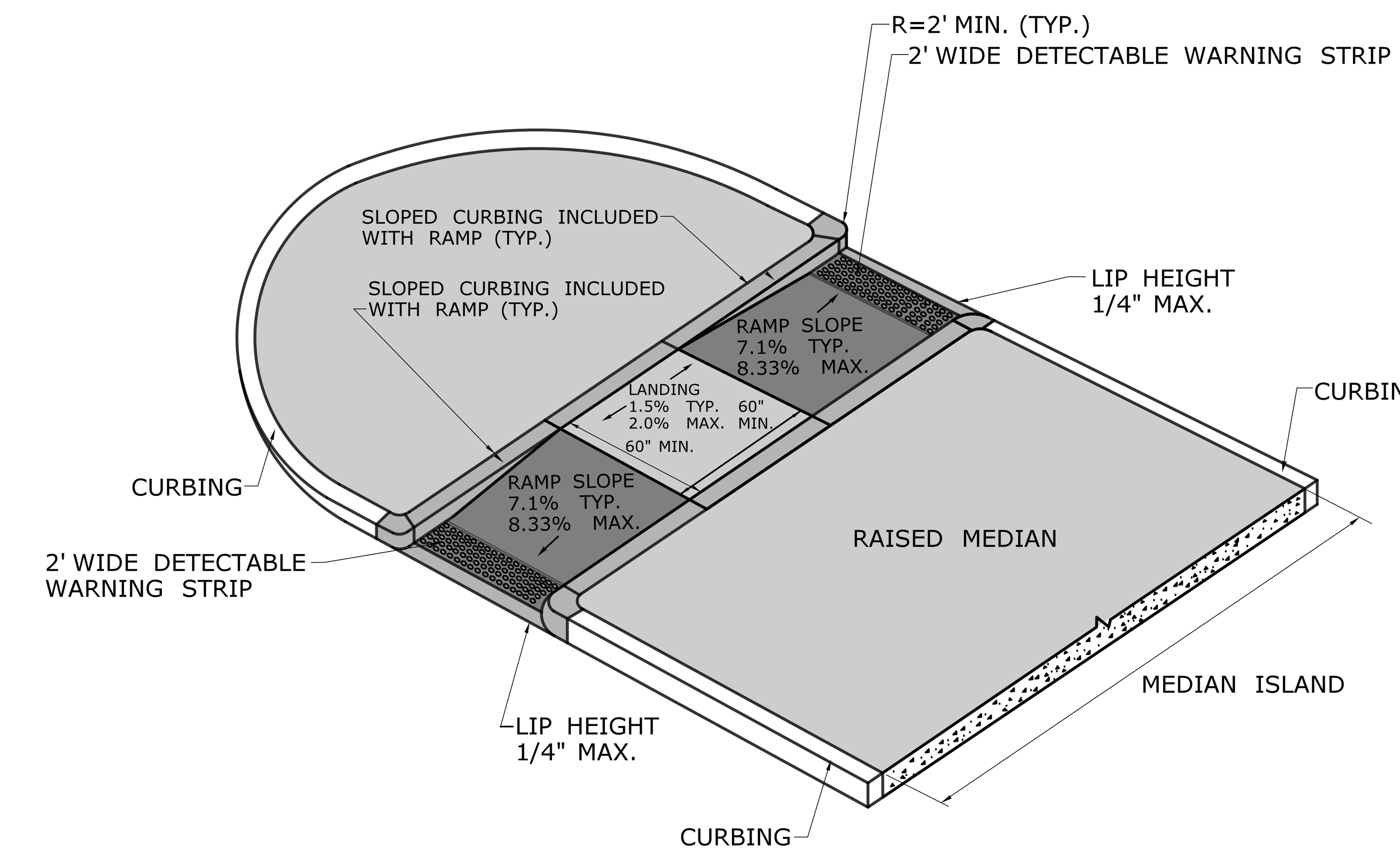
PROJECT NO. -
DRAWING NO.
SHEET NO.



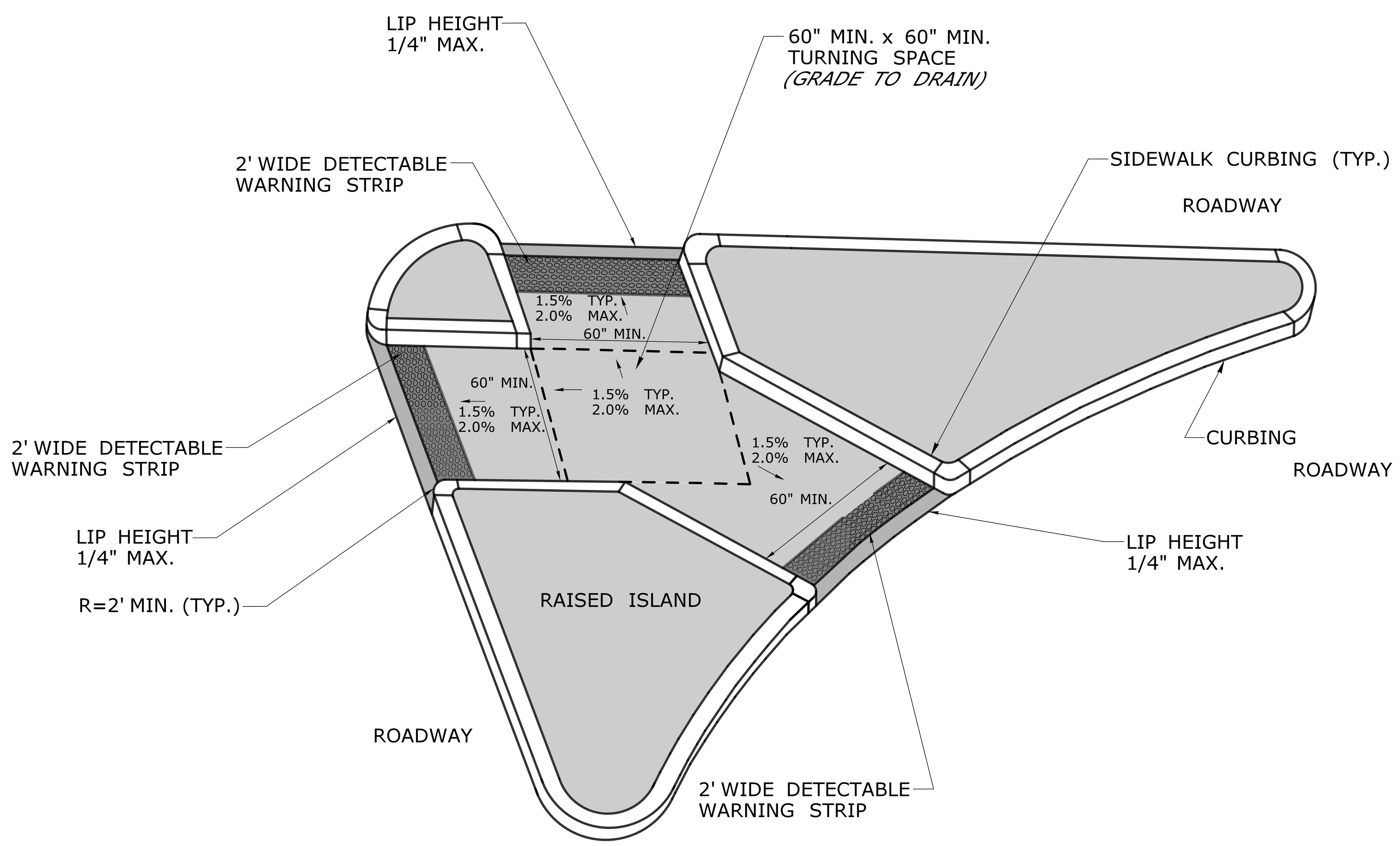
CUT-THROUGH PEDESTRIAN REFUGE ISLAND
MEDIAN WIDTH 6' OR MORE
(TYPE 22)



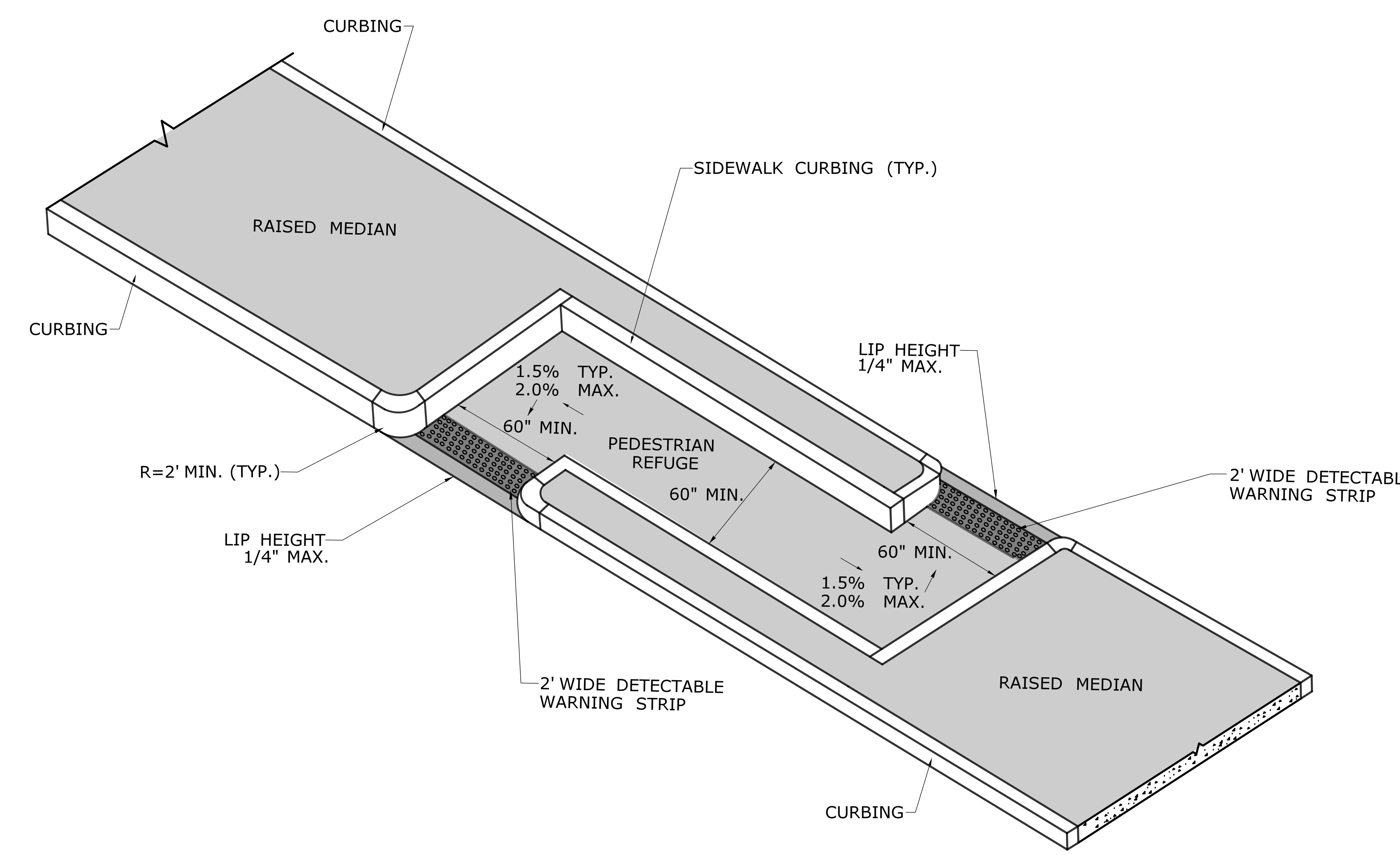
CUT-THROUGH PEDESTRIAN REFUGE ISLAND
MEDIAN WIDTH LESS THAN 6'
(TYPE 23)



PEDESTRIAN REFUGE ISLAND WITH LANDING AND RAMPS
(TYPE 24)



CUT-THROUGH PEDESTRIAN REFUGE ISLAND
(TYPE 25)



CUT-THROUGH PEDESTRIAN REFUGE ISLAND
OFFSET CONFIGURATION
(TYPE 26)

DESIGN INITIATED CHANGE ORDER NO. Y - mm/dd/yy

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 1/30/2019

DESIGNER/DRAFTER: -

CHECKED BY: -

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_HIGHWAY_GD_[1-28-19].dgn

SIGNATURE/BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
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TOWN:
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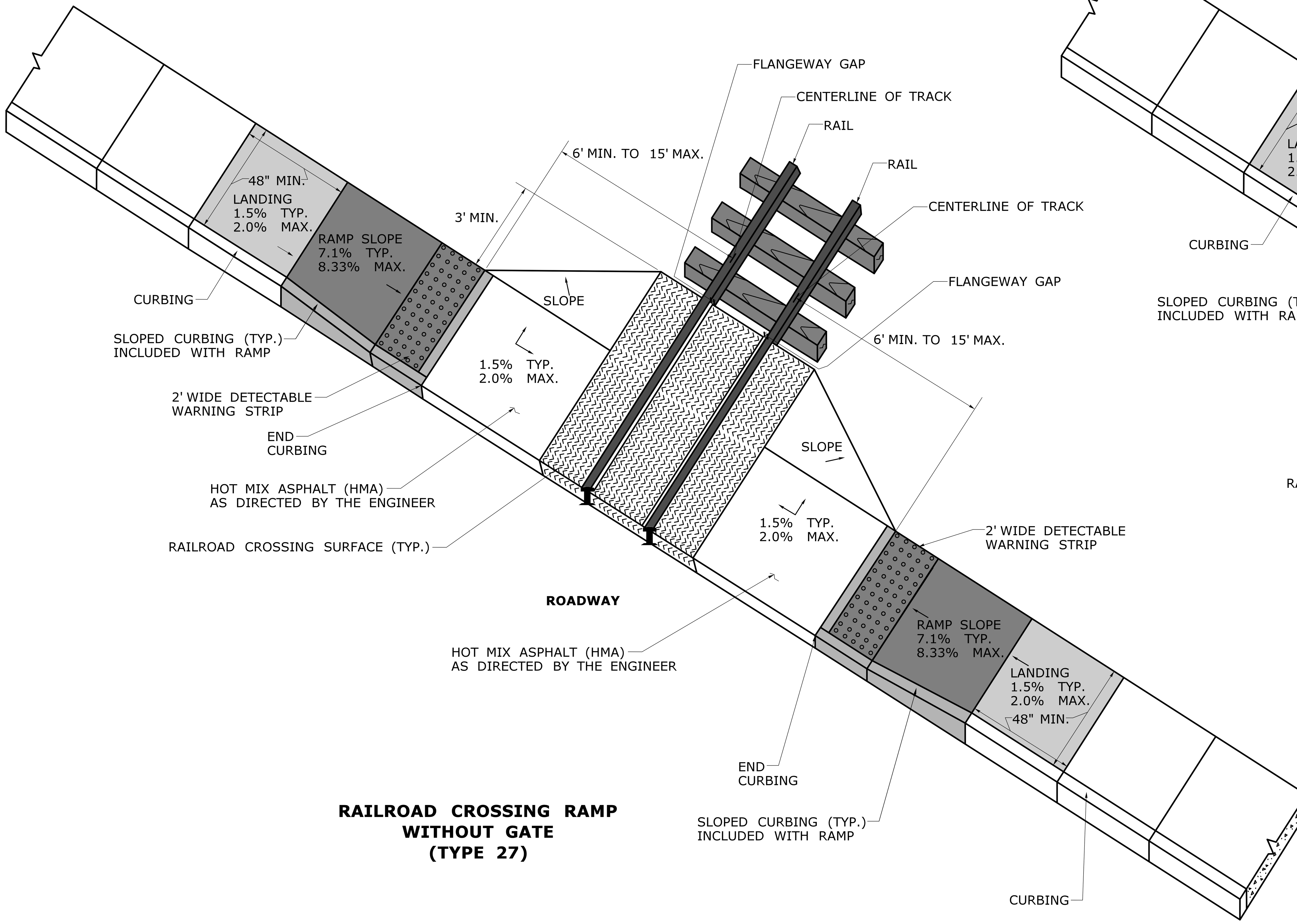
DRAWING TITLE:
CONCRETE SIDEWALK RAMPS SHEET 9

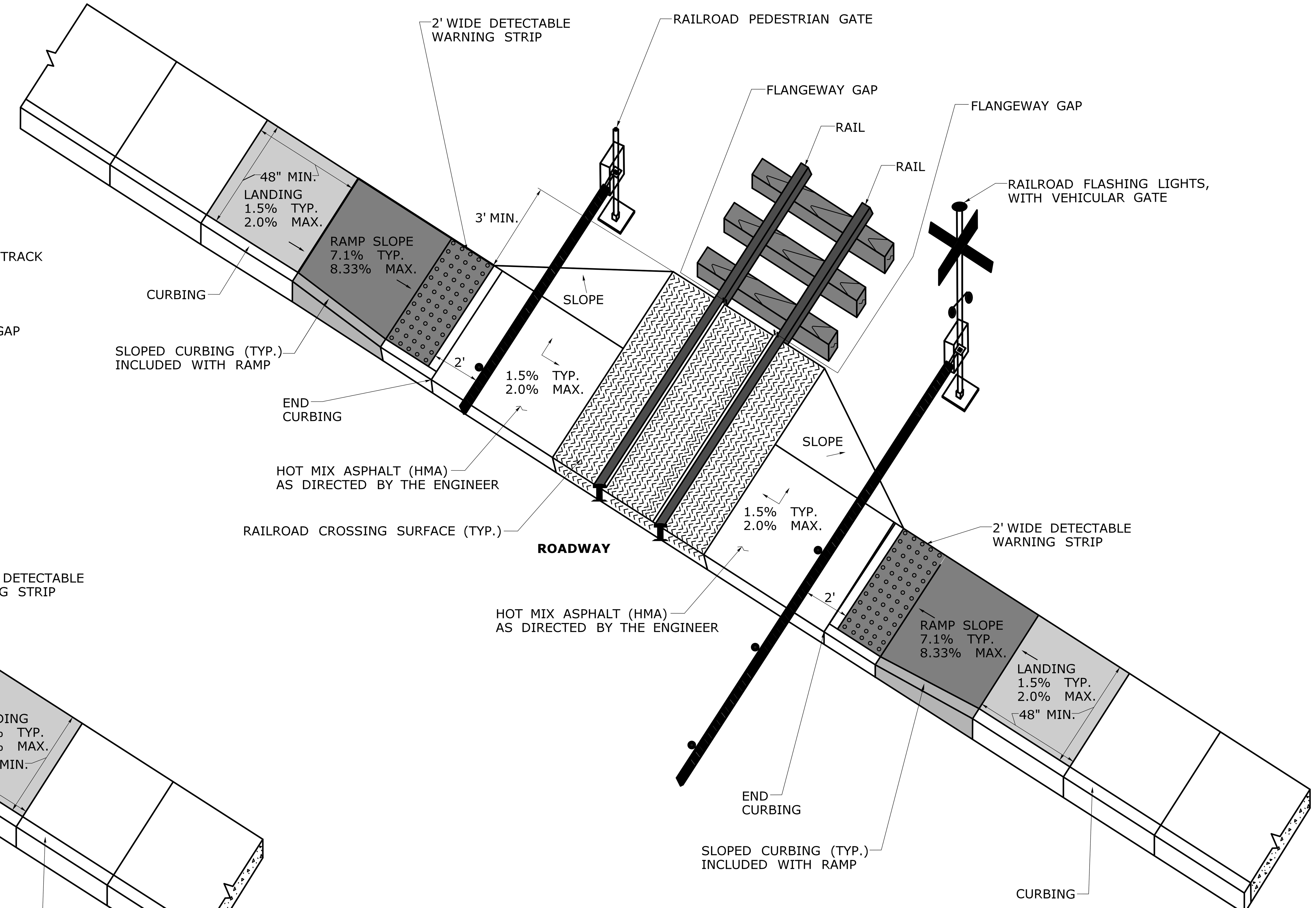
PROJECT NO. -

DRAWING NO.

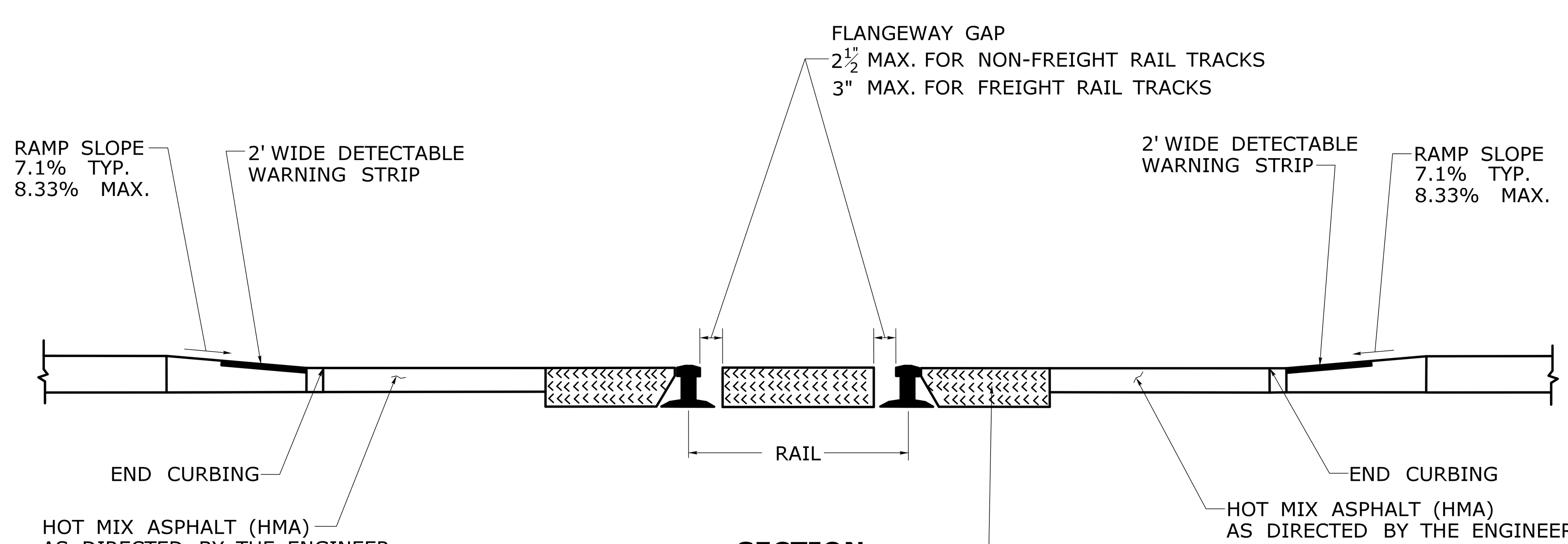
SHEET NO.



RAILROAD CROSSING RAMP
WITHOUT GATE
(TYPE 27)



RAILROAD CROSSING RAMP
WITH GATE
(TYPE 28)



SECTION

COMPLETE TRANSITION TO ROADWAY PROFILE BEHIND DETECTABLE WARNING SURFACE.

DESIGN INITIATED CHANGE ORDER NO. Y - mm/dd/yy

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 1/30/2019

DESIGNER/DRAFTER: -

CHECKED BY: -

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_HIGHWAY_GD_[1-28-19].dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
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TOWN:
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DRAWING TITLE:
CONCRETE SIDEWALK RAMPS SHEET 10

PROJECT NO. -

DRAWING NO.

SHEET NO.

*ONLY STANDARD SHEETS MARKED WITH AN "✓" ARE IN THIS PROJECT #

**REVISED OR ADDED

✓*	SHEET NO.	TITLE	APPROVAL DATE**
	HW-506_01	ENDWALLS, SLOPE PAVED INLETS AND OUTLETS	1-26-12
	HW-506_02	TYPE "D-G" & "L" ENDWALLS	7-13-12
	HW-506_03	ENDWALLS FOR PIPE ARCH	9-18-09
	HW-507_01	TYPE "C", "C-L" & DROP INLET CATCH BASIN	7-24-13
	HW-507_02	TYPE "C", "C-L" & DOUBLE GRATE TYPE - I	7-24-13
	HW-507_03	TYPE "C", "C-L" & DOUBLE GRATE TYPE - II	7-24-13
	HW-507_04	TYPE "C", "C-L" & ROUND PRECAST CONCRETE CB	11-10-11
	HW-507_05	TYPE "C" & "C-L" PRECAST CONCRETE CB DOUBLE GRATE TYPE - I	11-10-11
	HW-507_06	TYPE "C" & "C-L" PRECAST CONCRETE CB DOUBLE GRATE TYPE - II	11-10-11
	HW-507_07	TYPE "C" & "C-L" CATCH BASIN TOPS AND CURBS	11-10-11
✔	HW-507_08	CATCH BASIN FRAMES AND GRATES	9-18-09
	HW-507_09	HEAVY DUTY LOCK DOWN TOPS	7-12-12
	HW-507_10	MANHOLE - FRAME & COVER	7-24-13
	HW-651_01	C.C.M. PIPE INSTALLATIONS IN FILL & ROCK SLOPES & PIPE TRENCH DETAIL	7-24-13
	HW-651_02	SLOTTED DRAIN PIPE 12"- 15"-18"-24"-30" (305-381-457-610-762)	7-12-12
	HW-652_01	PIPE ENDS	7-24-13
	HW-751_01	UNDERDRAINS AND UNDERDRAIN OUTLETS	7-12-12
	HW-803_01a	PAVED APRONS	6-07-17
	HW-803_01b	PAVED DITCHES AND PAVED CHANNELS	6-07-17
	HW-811_01	CONCRETE CURBING	6-07-17
	HW-813_01	GRANITE STONE TRANSITION CURBING	7-24-13
	HW-813_02	STONE CURBING	6-07-17
	HW-815_01	BITUMINOUS CONCRETE CURBING	6-07-17
	HW-821_01a	TRANSITION - 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 1	1-26-12
	HW-821_01b	TRANSITION - 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 2	10-18-10
	HW-821_01c	TRANSITION - 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 3	1-26-12
	HW-821_02a	45" (1145) F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 1	7-24-13
	HW-821_02b	45" (1145) F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 2	7-24-13
	HW-821_03a	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 1	1-26-12
	HW-821_03b	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 2	10-18-10
	HW-821_03c	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 3	10-18-10
	HW-821_03d	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 4	10-18-10
	HW-821_03e	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) F-SHAPE	7-24-13

✓*	SHEET NO.	TITLE	APPROVAL DATE**
	HW-821_04a	MERRITT PARKWAY NARROW MEDIAN BARRIER	6-09-11
	HW-821_04b	MERRITT PARKWAY - 2' (610) WIDE MEDIAN BARRIER AND ROADSIDE BARRIER	7-24-13
	HW-821_05a	TRANSITION - 45" (1145) F-SHAPE TO 54" (1372) VERTICAL SHAPE SHEET 1	1-26-12
	HW-821_05b	TRANSITION - 45" (1145) F-SHAPE TO 54" (1372) VERTICAL SHAPE SHEET 2	1-26-12
	HW-821_06	54" (1372) VERTICAL SHAPE BARRIER	2-06-12
	HW-821_07	MISCELLANOUS DETAILS FOR BARRIER TRANSITIONS	7-12-12
	HW-822_01	TEMPORARY PRECAST CONCRETE BARRIER CURB	7-24-13
	HW-905_01	STONE WALL, FARM WALL AND WIRE FENCES	6-07-17
	HW-910_01	W-BEAM METAL BEAM RAIL HARDWARE	6-09-11
	HW-910_02	METAL BEAM RAIL (TYPE R-B 350) GUIDERAIL	6-09-11
	HW-910_03	METAL BEAM RAIL (TYPE MD-B 350)	6-09-11
	HW-910_04	METAL BEAM RAIL (TYPE R-B 350) SYSTEMS 5, 5A, & 6	6-09-11
	HW-910_05	METAL BEAM RAIL R-B 350 SPAN TYPE I, II, III SECTIONS	7-24-13
	HW-910_06	R-B 350 BRIDGE ATTACHMENT SAFETY SHAPE PARAPET	6-09-11
	HW-910_07	R-B 350 BRIDGE ATTACHMENT VERTICAL SHAPE PARAPET	6-09-11
	HW-910_08	R-B 350 BRIDGE ATTACHMENT TRAILING END	6-09-11
	HW-910_09a	MISCELLANEOUS GUIDERAIL TRANSITIONS SHEET 1	1-26-12
	HW-910_09b	MISCELLANEOUS GUIDERAIL TRANSITIONS SHEET 2	7-25-12
	HW-910_10	METAL BEAM RAIL 8" (203) X 6" (152) BOX BEAM	7-24-13
	HW-910_11	CURVED GUIDERAIL TREATMENT DETAIL	7-25-12
	HW-910_12a	MERRITT PARKWAY GUIDERAIL ATTACHMENT - SYSTEM 2 & 3	7-24-13
	HW-910_12b	MERRITT PARKWAY GUIDERAIL	7-24-13
	HW-910_12c	MERRITT PARKWAY GUIDERAIL TRAILING END ATTACHMENTS	7-24-13
	HW-910_12d	MERRITT PARKWAY MEDIAN GUIDERAIL AND END ANCHOR	6-09-11
	HW-910_13a	THRIE-BEAM METAL BEAM RAIL HARDWARE	7-24-13
	HW-910_13b	THRIE-BEAM TRANSITIONS	7-24-13
	HW-910_14a	THRIE-BEAM 350 BRIDGE ATTACHMENT	6-09-11
	HW-910_14b	THRIE-BEAM 350 GUIDERAIL TRANSITION TO R-B 350 GUIDERAIL	6-09-11
	HW-910_15	MD-B 350 MEDIAN BARRIER SAFETY SHAPE ATTACHMENT TYPE I	6-09-11
	HW-910_16	MD-B 350 MEDIAN BARRIER SAFETY SHAPE ATTACHMENT TYPE II	6-09-11
	HW-910_17	R-B TERMINAL SECTION	7-24-13
	HW-910_18	METAL BEAM RAIL (TYPE MD-I)	10-18-10
	HW-910_19a	METAL BEAM RAIL (MODIFIED TYPE R-I) AND END ANCHORAGE TYPE I	7-24-13

REV.	DATE	REVISION DESCRIPTION
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Plotted Date: 9/20/2017

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_HIGHWAY_STD (9-13-17 to be posted)(1).dgn Model: HW-INX_1

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

HIGHWAY STANDARD SHEET INDEX

STANDARD SHEET NO.:

HW_INX

*ONLY STANDARD SHEETS MARKED WITH AN "✓" ARE IN THIS PROJECT #   **REVISED OR ADDED

✓*	SHEET NO.	TITLE	APPROVAL DATE**
	HW-910_19b	METAL BEAM RAIL (MODIFIED TYPE R-I) AND END ANCHORAGE TYPE II	7-24-13
	HW-910_19c	METAL BEAM RAIL (MODIFIED TYPE R-I) SYSTEMS 2 AND 3	7-24-13
	HW-910_20	MASH W-BEAM HARDWARE	1-05-18
	HW-910_21	METAL BEAM RAIL (R-B MASH) GUIDERAIL	1-05-18
	HW-910_22	METAL BEAM RAIL (MD-B MASH) GUIDERAIL	1-05-18
	HW-910_23	METAL BEAM RAIL (R-B MASH) HALF AND QUARTER POST SPACING	1-05-18
	HW-910_24	METAL BEAM RAIL SPAN SECTION TYPES II AND III	1-05-18
	HW-910_25	METAL BEAM RAIL TRANSITION 350 TO MASH	1-05-18
	HW-911_01	R-B END ANCHORAGE TYPE I AND II	1-05-18
	HW-911_02	MD-B END ANCHORAGE TYPE I	1-05-18
	HW-911_03	ANCHOR IN EARTH CUT SLOPE & ANCHOR IN ROCK CUT SLOPE	10-18-10
	HW-911_05	MERRITT PARKWAY GUIDERAIL END ANCHORS	7-24-13
	HW-913_01	CHAIN LINK FENCE	7-12-12
	HW-918_01a	THREE CABLE GUIDERAIL (I-BEAM POSTS) SHEET 1	7-24-13
	HW-918_01b	THREE CABLE GUIDERAIL (I-BEAM POSTS) SHEET 2	1-26-12
	HW-918_01c	THREE CABLE GUIDERAIL (I-BEAM POSTS) SHEET 3	7-24-13
	HW-921_01	DRIVEWAY RAMPS AND SIDEWALKS	6-07-17
	HW-949_01	PLANTING DETAILS FOR TREES	7-12-12
	HW-949_02	PLANTING DETAILS FOR SHRUBS	7-12-12
	HW-1800_01	GRADING PLAN FOR TYPE B IMPACT ATTENUATION SYSTEM (FLARED)	6-20-11
	HW-1800_02	GRADING PLAN FOR TYPE B IMPACT ATTENUATION SYSTEM (MEDIAN/GORE)	6-09-11
	HW-1800_03	TYPE B IMPACT ATTENUATION SYSTEM (TANGENTIAL)	1-05-18

✓*	SHEET NO.	TITLE	APPROVAL DATE**

REV.	DATE	REVISION DESCRIPTION
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Plotted Date: 1/5/2018

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_HIGHWAY_STD.dgn   Model: 2 - HW-INX_2

CTDOT
STANDARD SHEET

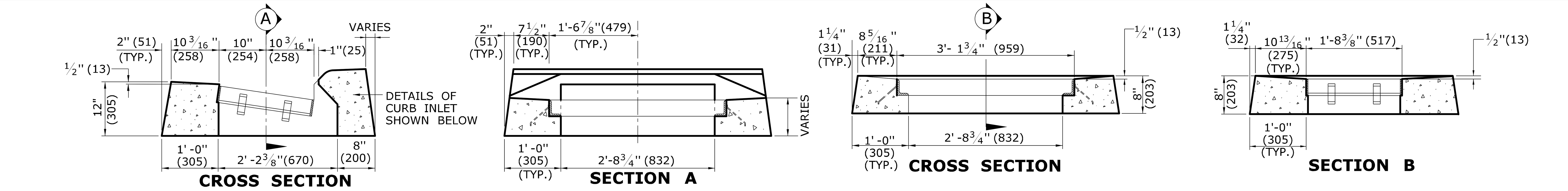
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

HIGHWAY
STANDARD SHEET INDEX

STANDARD SHEET NO.:

HW_INX



TYPE "C" CATCH BASIN TOP

TYPE "C-L" CATCH BASIN TOP

GENERAL NOTES:

1. FOR DETAILS OF FRAME AND GRATE SEE STANDARD SHEET HW-507_08.
2. ALL STEEL, EXCEPT REINFORCING BARS, SHALL BE GALVANIZED IN CONFORMANCE WITH SECTION M06.03 OF CONNECTICUT'S STANDARD SPECIFICATIONS.
3. ALL BARS SHALL HAVE A MINIMUM 2" (51) COVER.

TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE I TOP

TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE I TOP

TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE II TOP

TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE II TOP

INLET WITH 6" (152) CONCRETE OR STONE CURBING FOR TYPE "C" CB

INLET WITH NO CURBING (PLAIN TYPE) FOR TYPE "C" CB

INLET WITH 6" (152) BITUMINOUS CONCRETE LIP CURBING FOR TYPE "C" CB

INLET WITH 4" (102) CONCRETE PARK CURBING FOR TYPE "C" CB

INLET WITH GRANITE SLOPE CURB FOR TYPE "C" CB

INLET WITH 6" (152) CONCRETE OR STONE CURBING FOR TYPE "C" CB DOUBLE GRATE TYPE I & II

INLET WITH NO CURBING (PLAIN TYPE) FOR TYPE "C" CB DOUBLE GRATE TYPE I & II

INLET WITH 6" (152) BITUMINIOUS CONCRETE LIP CURBING FOR TYPE "C" CB DOUBLE GRATE TYPE I & II

INLET WITH 4" (102) CONCRETE PARK CURBING FOR TYPE "C" CB DOUBLE GRATE TYPE I & II

ALTERNATE CONSTRUCTION OF TYPE II TOP

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED

REV.	DATE	REVISION DESCRIPTION
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2	7/28/11	REMOVE MIN. DROP NOTE
1	6/01/10	REVISE CALL-OUT

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Plotted Date: 11/10/2011

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT-HWY-STD-Nov2011.dgn Model: 12-HW-507_07

SUBMITTED BY: NAME/DATE/TIME: Leo Fontaine 2011.11.10 10:04:01 -05'00'

APPROVED BY: NAME/DATE/TIME: James H. Norman 2011.11.10 10:19:36 -05'00'

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE: TYPE "C" & "C-L" CATCH BASIN TOPS AND CURBS

STANDARD SHEET NO.: HW-507_07

ONLY STANDARD SHEETS MARKED WITH AN "✓" ARE IN THIS PROJECT #

	SHEET NO.	TITLE	APPROVAL DATE
☐	TR-1000_01	GENERAL CLAUSES (TEST PROCEDURES)	1/2014
✓	TR-1001_01	TRENCHING & BACKFILLING, ELECTRICAL CONDUIT	4/2012
☐	TR-1002_01	TRAFFIC CONTROL FOUNDATIONS	1/2014
✓	TR-1010_01	CONCRETE HANDHOLE	4/2014
✓	TR-1102_01	PEDESTALS, PEDESTRIAN SIGNALS	4/2012
✓	TR-1105_01	TRAFFIC SIGNALS AND CABLE ASSIGNMENTS	5/2015
✓	TR-1107_01	PEDESTRIAN PUSH BUTTON	4/2014
☐	TR-1108_01	CONTROLLERS	5/2013
☐	TR-1111_01	LOOP VEHICLE DETECTOR AND SAWCUT	4/2014
☐	TR-1113_01	CONTROL CABLE	4/2014
☐	TR-1114_01	BONDING & UTILITY POLE ATTACHMENT DETAILS, SIGN HANGER, "Y" CLAMP DETAILS	5/2015

	SHEET NO.	TITLE	APPROVAL DATE
☐	TR-1205_01	DELINEATION, DELINEATOR AND OBJECT MARKER DETAILS	4/2017
☐	TR-1208_01	SIGN SUPPORT AND SIGN PLACEMENT DETAILS, GORE EXIT SIGN	4/2017
✓	TR-1208_02	METAL SIGN POSTS AND SIGN MOUNTING DETAILS	6/2017
	TR-1210_01	PAVEMENT MARKINGS (DURABLE MARKINGS) FOR DIVIDED HIGHWAYS	OBSOLETE
	TR-1210_02	PAVEMENT MARKINGS (DURABLE MARKINGS) FOR DIVIDED HIGHWAYS	OBSOLETE
	TR-1210_03	SPECIAL DETAILS & TYPICAL PAVEMENT MARKINGS FOR TWO-WAY HIGHWAYS	OBSOLETE
✓	TR-1210_04	PAVEMENT MARKING LINES AND SYMBOLS	4/2017
☐	TR-1210_05	PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS	4/2017
☐	TR-1210_06	PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS	6/2017
☐	TR-1210_07	PAVEMENT MARKINGS FOR EXIT RAMPS	4/2017
☐	TR-1210_08	PAVEMENT MARKINGS FOR NON FREEWAYS	4/2017
✓	TR-1210_09	PAVEMENT MARKINGS FOR BICYCLE LANES, PARKING STALLS, AND RR CROSSINGS	4/2017
✓	TR-1220_01	SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS	8/2015
✓	TR-1220_02	CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES	8/2015

STANDARD SHEETS SHALL BE USED WITH STANDARD SPECIFICATIONS

REV.	DATE	REVISION DESCRIPTION
4	4-2017	REMOVED TR-1210_01 TO TR-1210_03. ADDED TR-1210_04 TO TR-1210_09
3	4-2014	REMOVED TR-1111_02.
2	1-2014	REMOVED TR-1103_01.
1	4-2012	RENUMBERED TR-1107_02 TO TR-1114_01. REMOVED TR-1116_01.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 6/30/2017

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_STD.DGN Model: TR-01-STD_INDEX

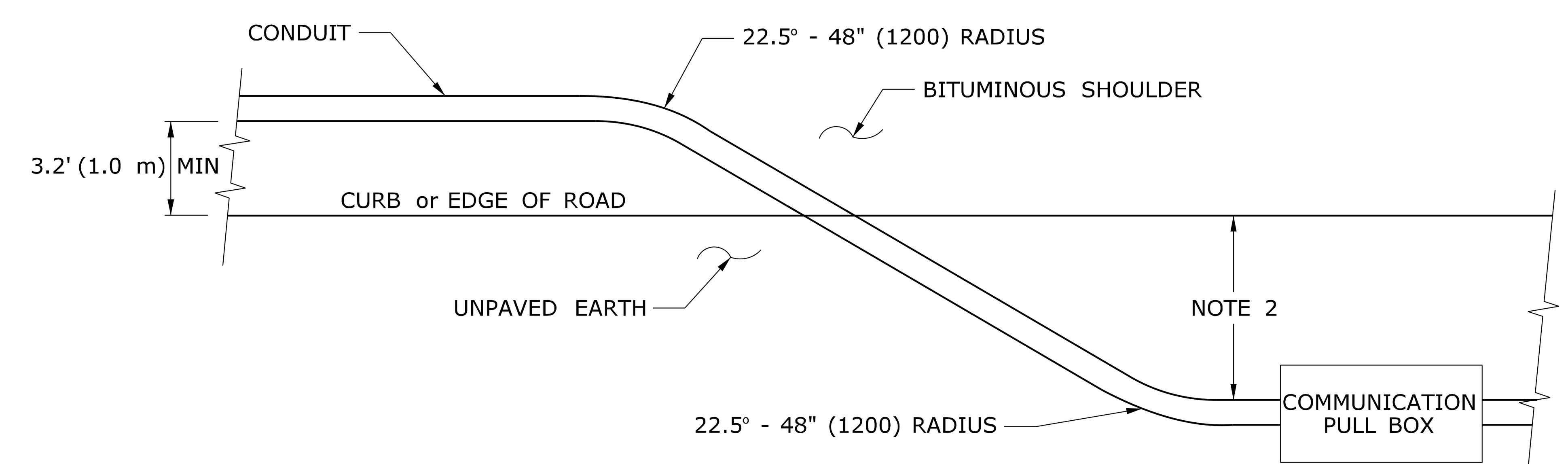
SUBMITTED BY: NAME/DATE/TIME:

CTDOT
STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
TRAFFIC
STANDARD SHEET INDEX

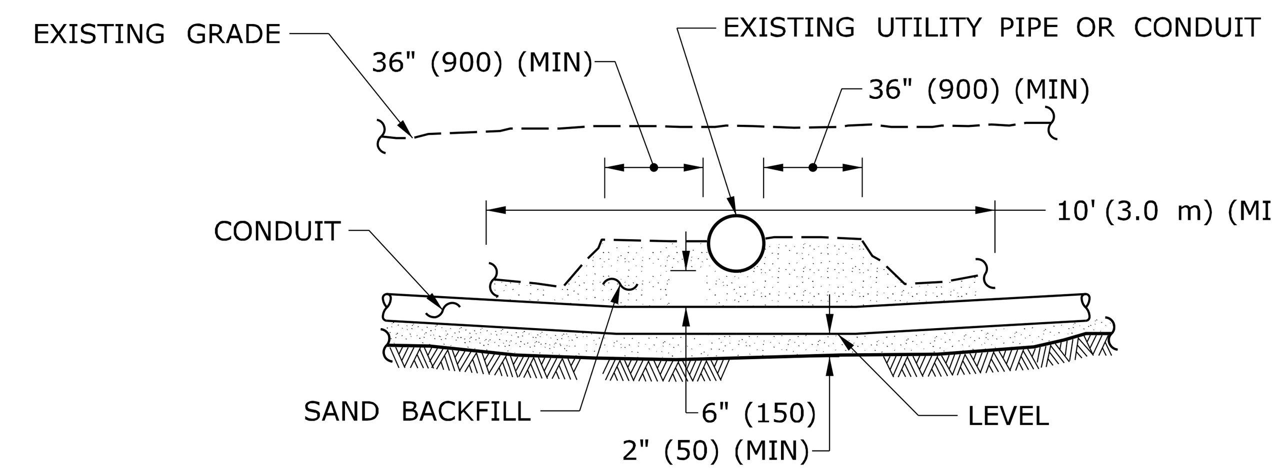
STANDARD SHEET NO.:
TR-STD_INDEX



INTERCONNECT TYPICAL CURB CROSSING

NOTES:

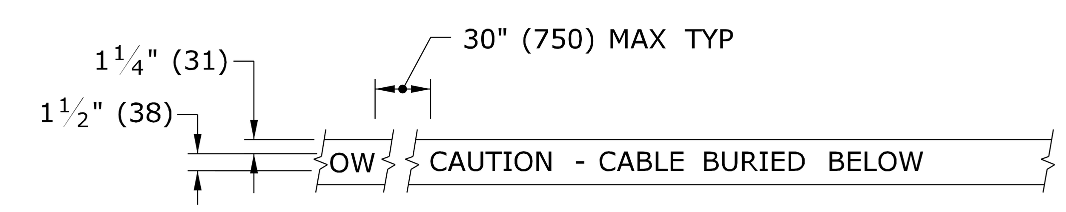
1. RESTORE AREAS DISTURBED BY TRENCH TO ORIGINAL CONDITION.
2. INSTALL PULL BOX A MINIMUM OF 10' (3.0 m) FROM CURB UNLESS OTHERWISE SHOWN ON PLANS OR DIRECTED BY ENGINEER.



CROSSING UNDER EXISTING UTILITY

NOTES:

1. WHEN ENCOUNTERED AT APPROXIMATELY THE SAME DEPTH, CROSS BENEATH.
2. PROTECT & SUPPORT EXPOSED EXISTING UTILITY.

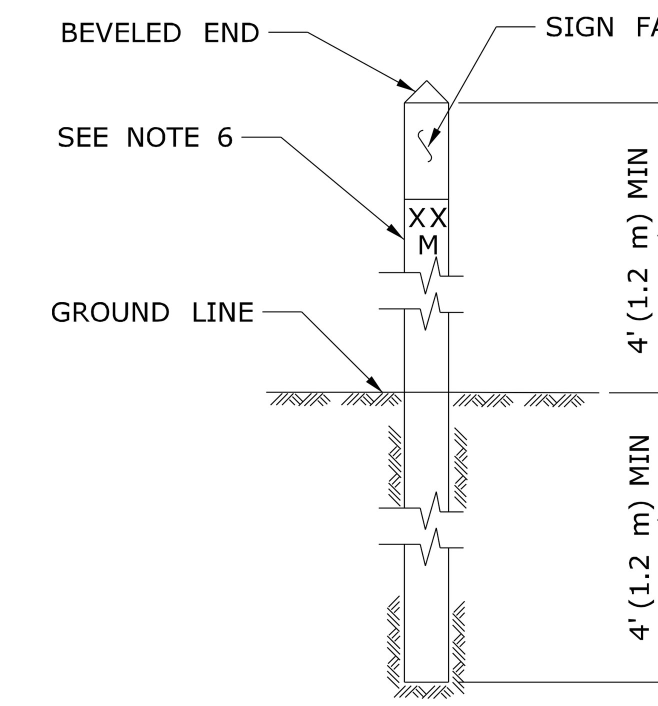


DETECTABLE WARNING TAPE

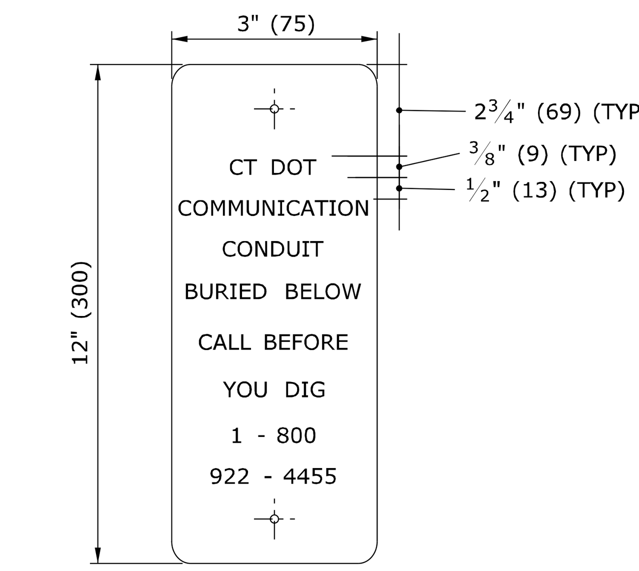
NOTE:

STANDARD SPECIFICATIONS, ARTICLE: 1.05.15

1. TAPE COLORS:
   COMMUNICATION - ORANGE BACKGROUND / BLACK LEGEND
   POWER - RED BACKGROUND / BLACK LEGEND



INTERCONNECT CONDUIT IDENTIFICATION POST

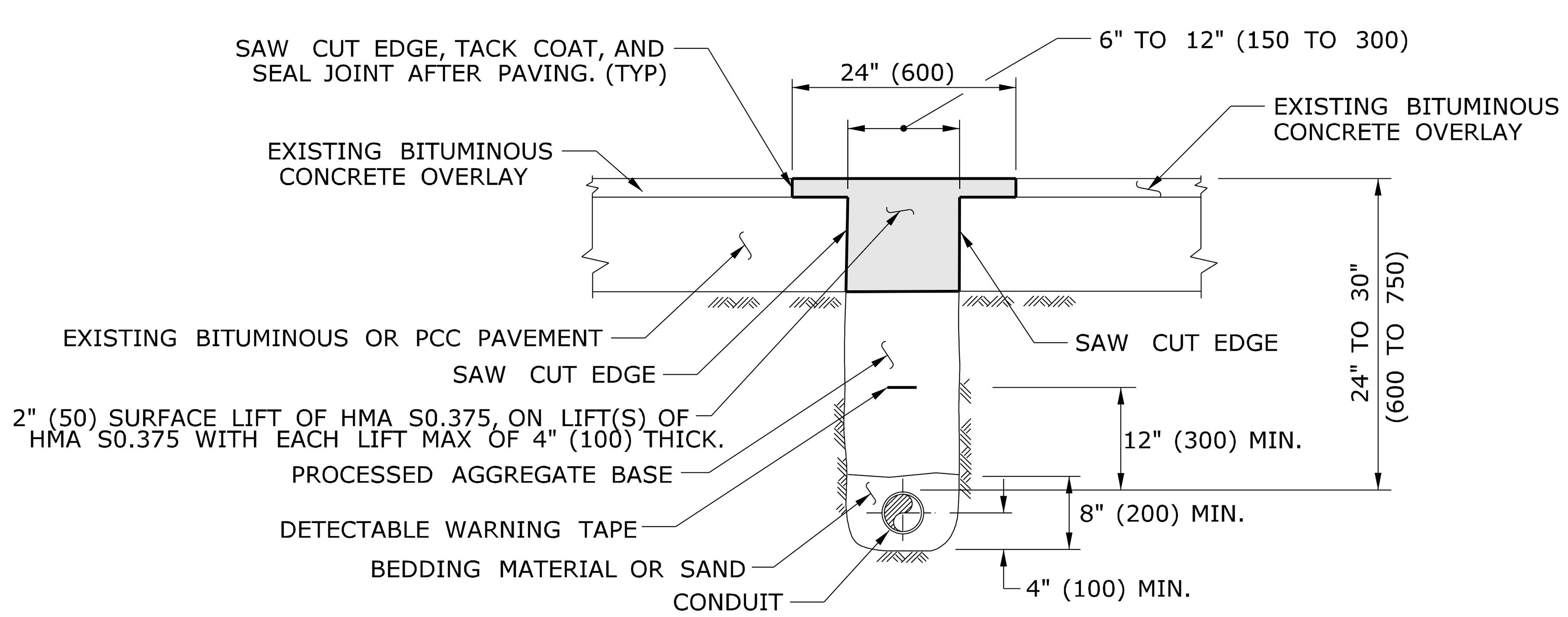


SIGN FACE DETAIL

SIGN # 41-4669

NOTES:

1. 4" x 4" (100 x 100) NOMINAL, PRESSURE TREATED WOOD POST.
2. ATTACH SIGN TO POST WITH ¼" x 1¼" (6 x 31) STAINLESS STEEL LAG SCREW WITH NYLON WASHER ON FACE OF SIGN.
3. SIGN COLORS: BACKGROUND - ORANGE (RETROREFLECTIVE) LEGEND - BLACK (OPAQUE).
4. INSTALL POST APPROX 24" (600) FROM RMC IN VICINITY OF EACH PULL BOX.
5. INSTALL POSTS BETWEEN PULL BOXES, APPROX 10' (3.0 m) OFF CURB. SPACE POSTS 1500'± (460 m±) APART.
6. PERMANENTLY ATTACH STAINLESS STEEL NUMBERS INDICATING DISTANCE TO TRENCH IN FEET (METERS) CONTAINING COMMUNICATION CABLE. ATTACH NUMBERS TO SIDE OF POST FACING CONDUIT. INCLUDE "M" SUFFIX IF METERS.

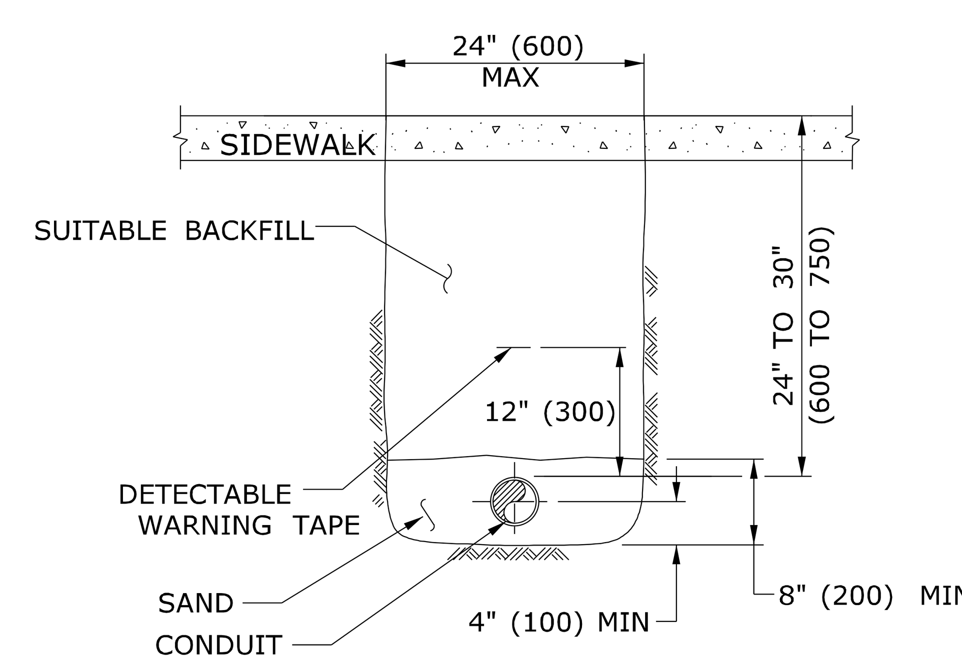


PAVEMENT - BITUMINOUS CONCRETE OR OVERLAYED PORTLAND CEMENT CONCRETE

NOTES:

STANDARD SPECIFICATIONS, ARTICLE: 3.04 & 4.06.03

1. TOTAL HOT MIX ASPHALT (HMA) THICKNESS TO MATCH EXISTING BITUMINOUS CONCRETE AND PORTLAND CEMENT CONCRETE (PCC) THICKNESS.
2. WHEN ALLOWED BY ENGINEER, USE CONTROLLED LOW STRENGTH MATERIAL (CLSM) AS BEDDING MATERIAL. TOP OF CLSM AT LEAST 20" (500) BELOW SURFACE.

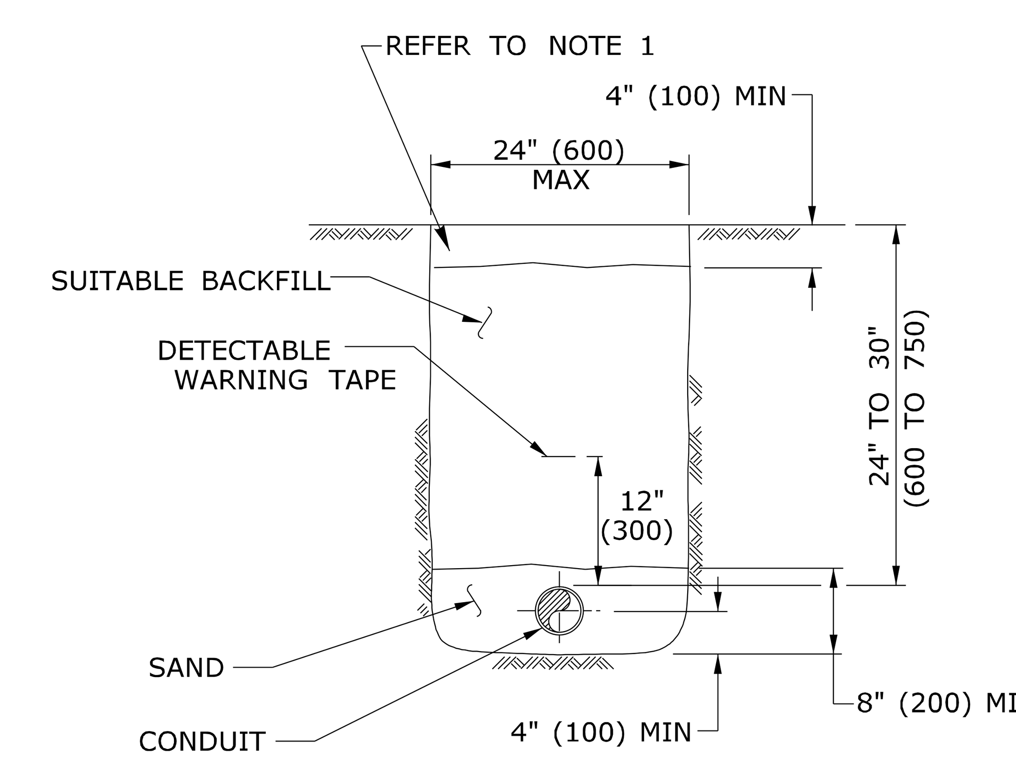


SIDEWALK

NOTES:

STANDARD SPECIFICATIONS, ARTICLE: 9.21 & 9.22

1. WHERE CONCRETE SIDEWALK DAMAGED OR CUT, REPLACE THE ENTIRE SECTION BETWEEN JOINTS. REPLACEMENT SIDEWALK IS PAID FOR AT THE CONTRACT UNIT PRICE FOR "CONCRETE SIDEWALK".



EARTH

NOTES:

STANDARD SPECIFICATIONS, ARTICLE: 9.50

1. IN MOWED AREAS: PLACE TOPSOIL, FERTILIZER, SEED, & MULCH.

GENERAL NOTES:

1. TOP OF CONDUIT NO LESS THAN 24" (600) DEEP.
2. COMPACT BACKFILL IN ≤ 6" (150) LIFTS. HAND COMPACTION NOT PERMITTED.

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:

-- RMC (RIGID METAL CONDUIT)

REV.	DATE	REVISION DESCRIPTION
1	4-2012	REVISED BITUMINOUS CONRCETE TO HMA, & MINOR REVISIONS.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 4/14/2012

DIMENSIONS ARE IN ENGLISH (") & METRIC UNITS (mm). METRIC DIMENSIONS ARE ROUNDED: - OVER 1" TO NEAREST 5 mm - UNDER 1" TO NEAREST 1 mm.

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT-TRAFFIC-STD.dgn Model: TR-1001-01

SUBMITTED BY: NAME/DATE/TIME: Tracy L. Fogarty 2012.05.01 12:54:42-04'00'

APPROVED BY: NAME/DATE/TIME: Timothy M. Wilson 2012.05.09 10:23:34-04'00'

CTDOT STANDARD SHEET

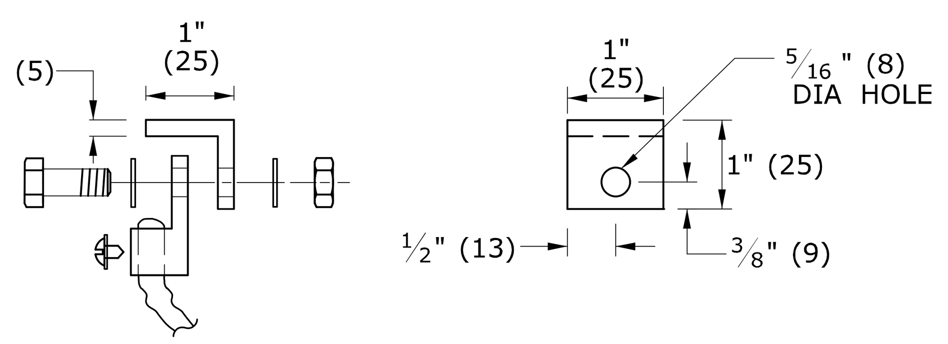
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

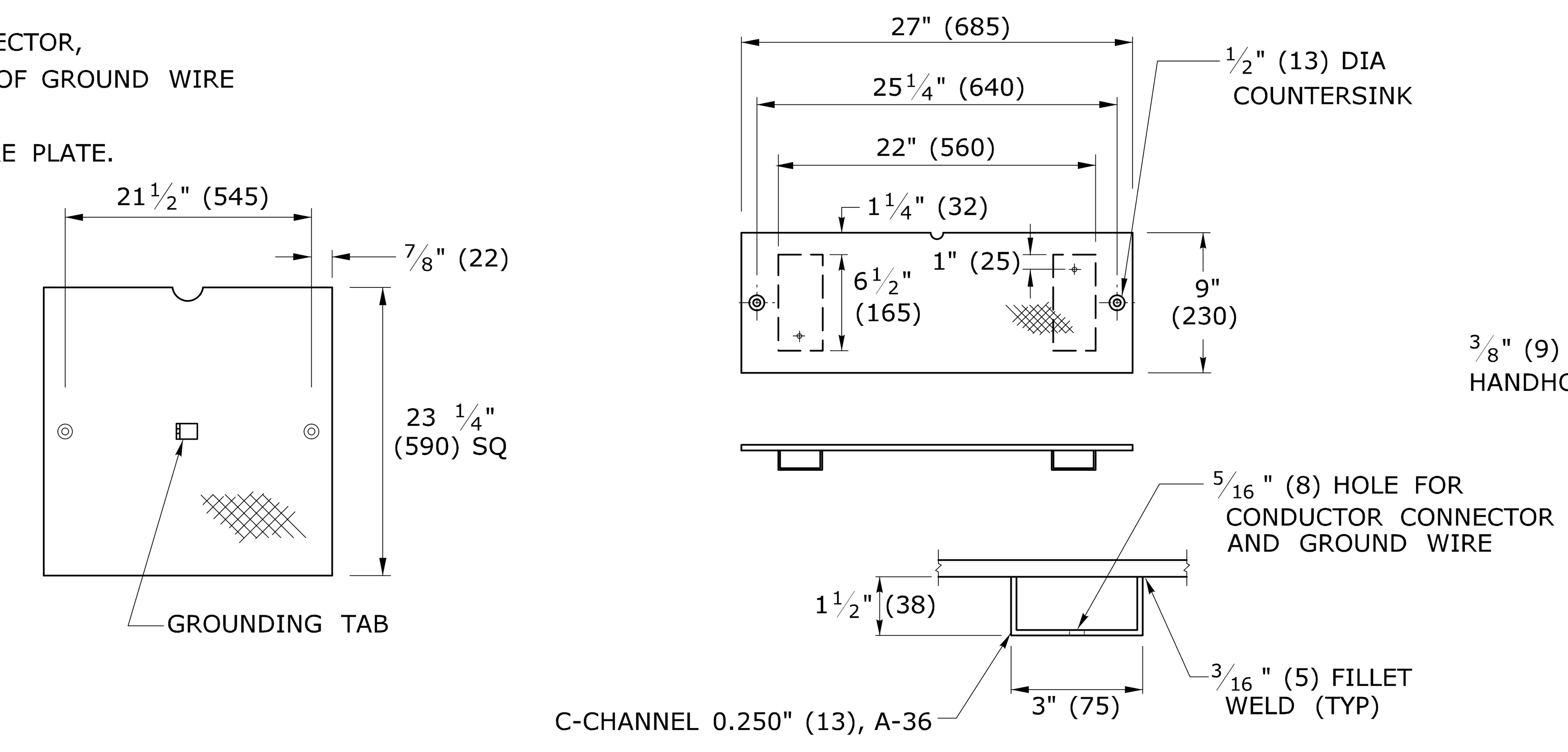
TRENCHING & BACKFILLING, ELECTRICAL CONDUIT

STANDARD SHEET NO.: **TR-1001_01**

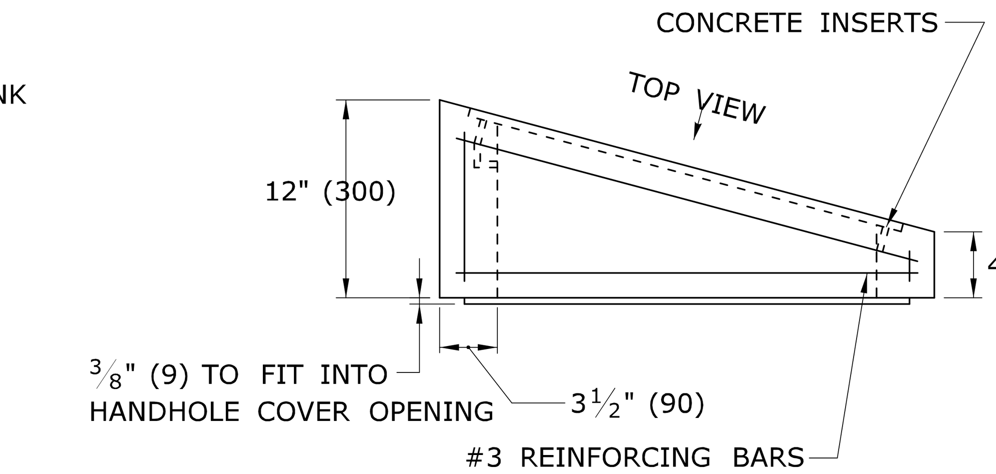
COVER NOTES:
1. GROUNDING TAB WELDED TO BOTTOM CENTER OF COVER WITH $^3/_{16}$" (5) WELD (3 SIDES).
2. ATTACH 6' (2 m) LENGTH OF NO. 8 GROUND WIRE TO GROUNDING TAB WITH CONDUCTOR CONNECTOR, $^1/_4$" - 20 X $^3/_4$" (M6 X 20) LG SST HEX HEAD BOLT, AND SST FLAT WASHER. ATTACH FREE END OF GROUND WIRE TO CONDUIT BONDING BUSHING IN HANDHOLE.
3. CONDUCTOR CONNECTOR: COPPER ALLOY BODY, BRASS SCREW, BRASS OR COPPER ALLOY PRESSURE PLATE.
4. COVER SCREW INSERT: $^3/_8$"-16 (9-16), 1$^1/_2$"L (37L), STAINLESS STEEL.
5. COVER SCREW: $^3/_8$"-16 (9-16), 1"L (25L), FLAT HEAD, SLOTTED, STAINLESS STEEL.



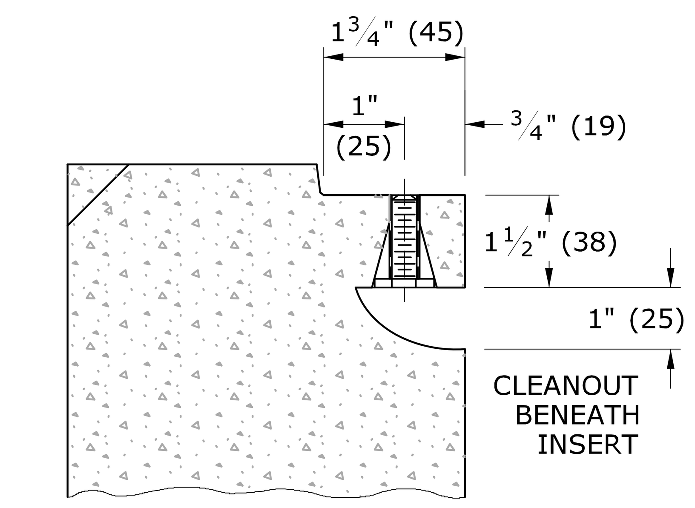
STEEL GROUNDING TAB
w/ CONDUCTOR CONNECTOR



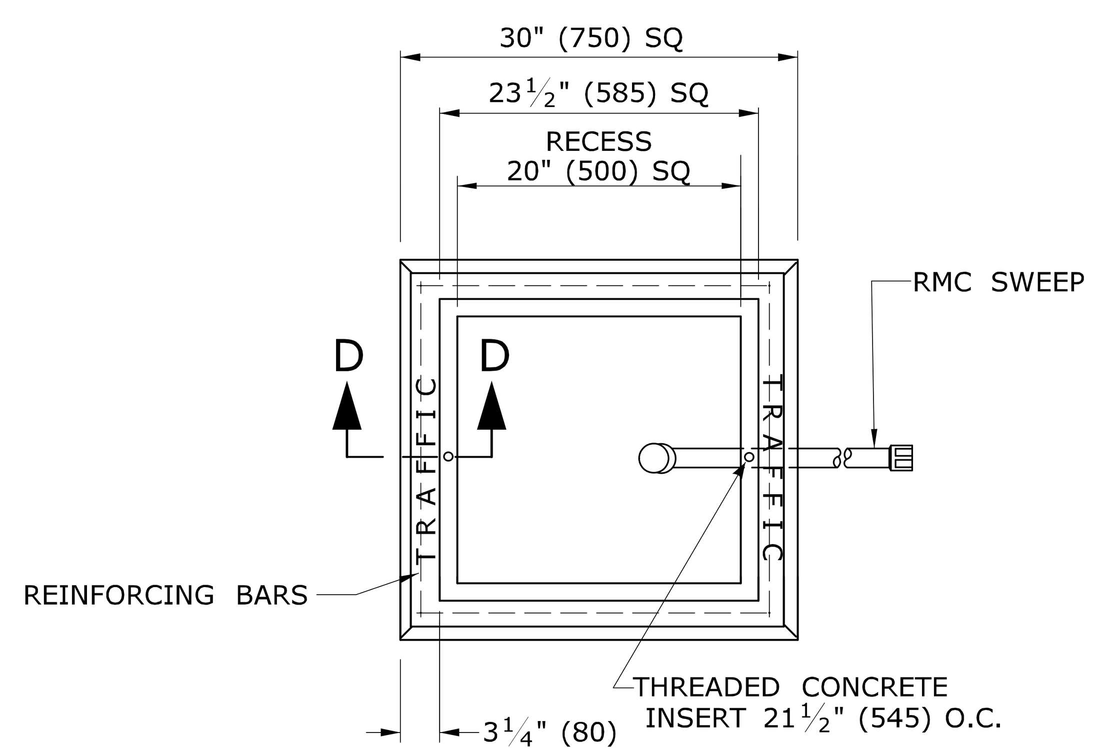
NON SKID FLOOR PLATE
GALVANIZED STEEL, 3/8" (10)



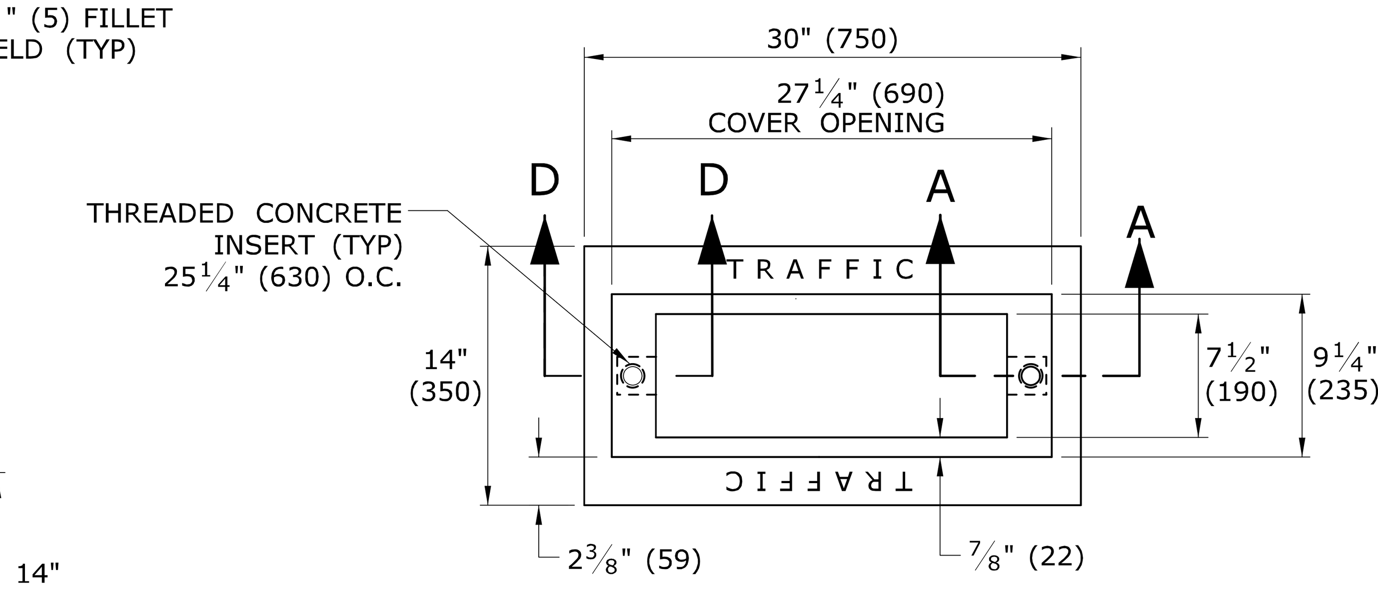
BANK ADAPTER



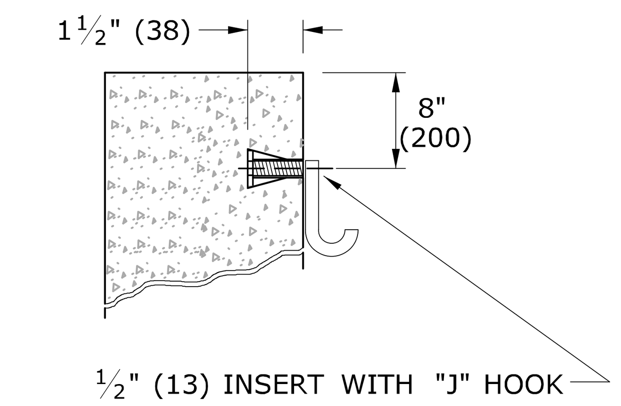
SECTION D-D



PLAN VIEW

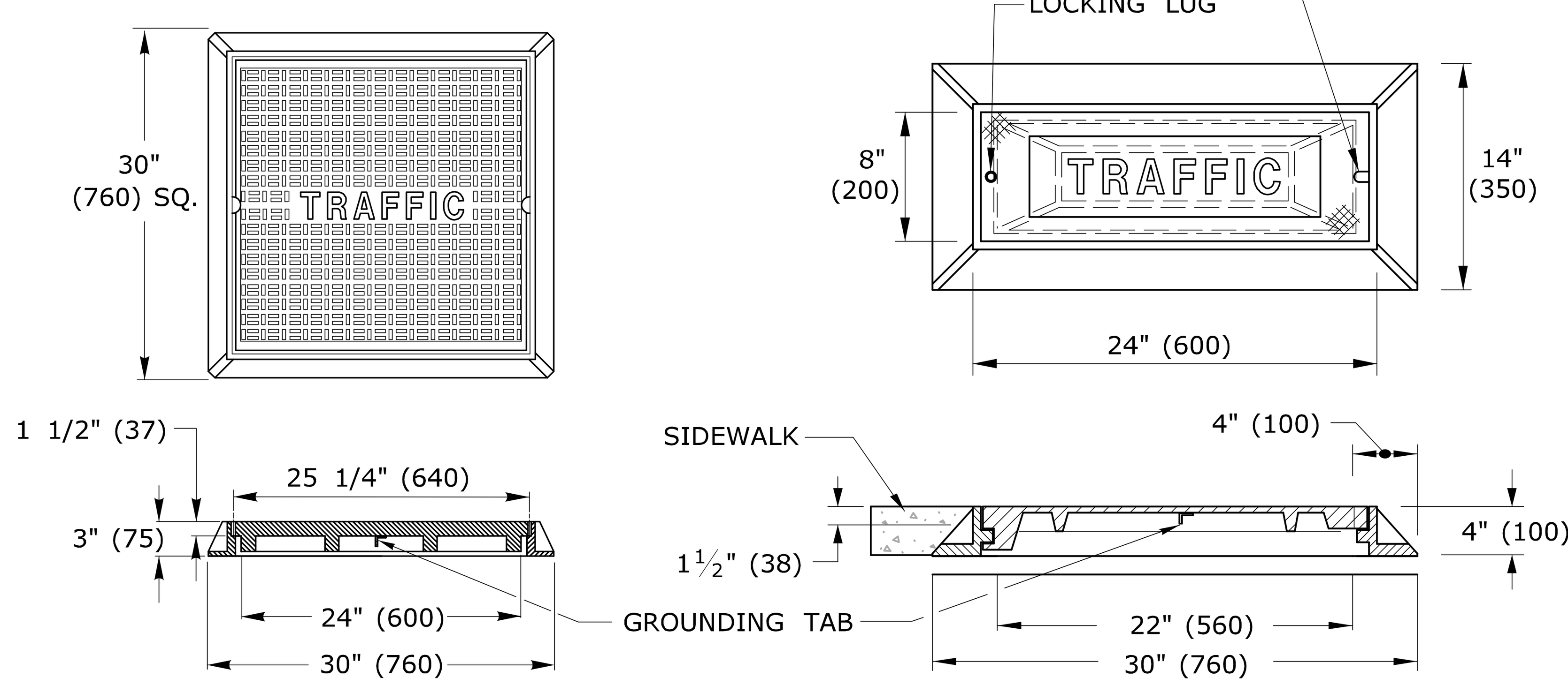


PLAN VIEW

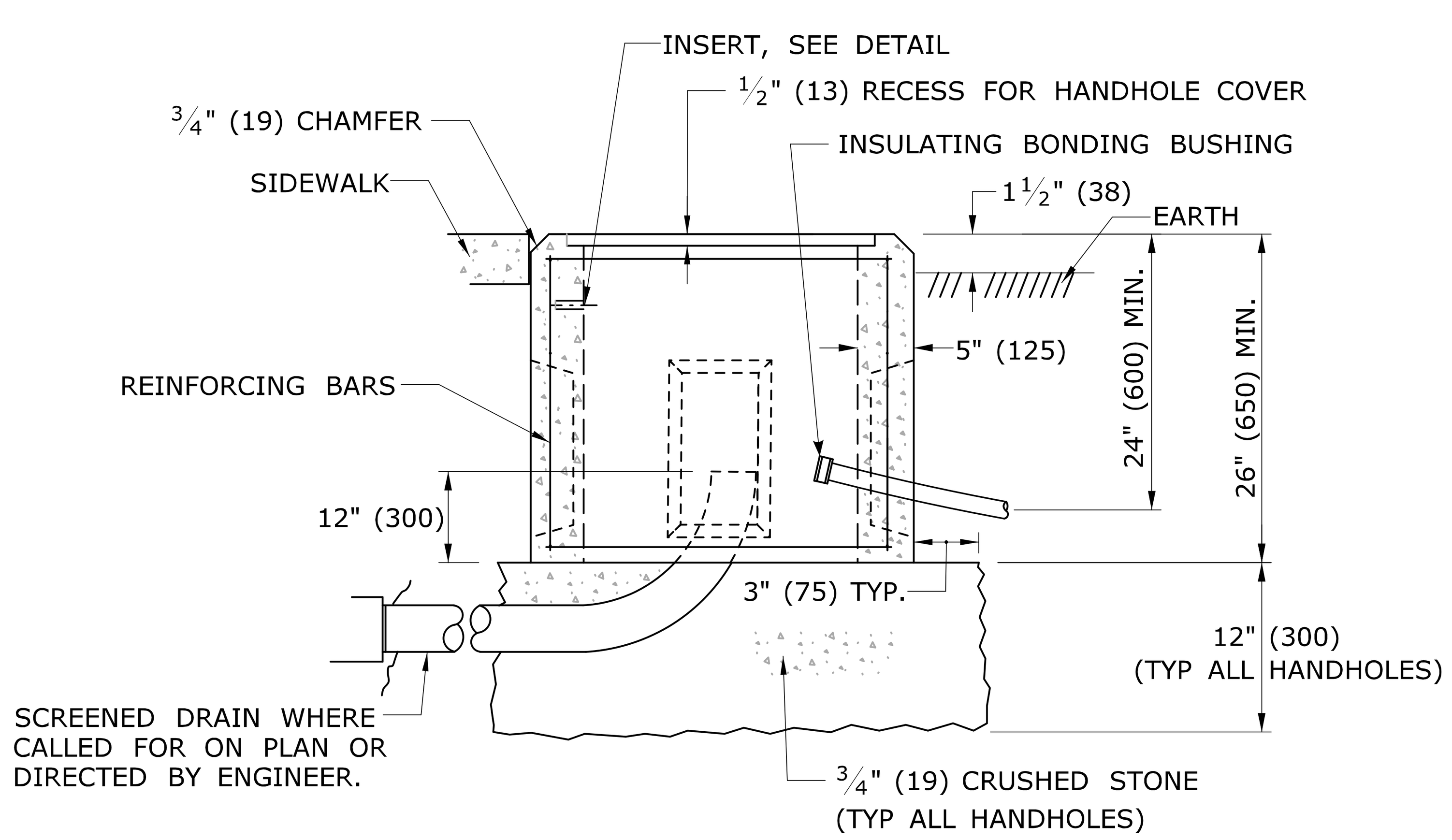


INSERT DETAIL

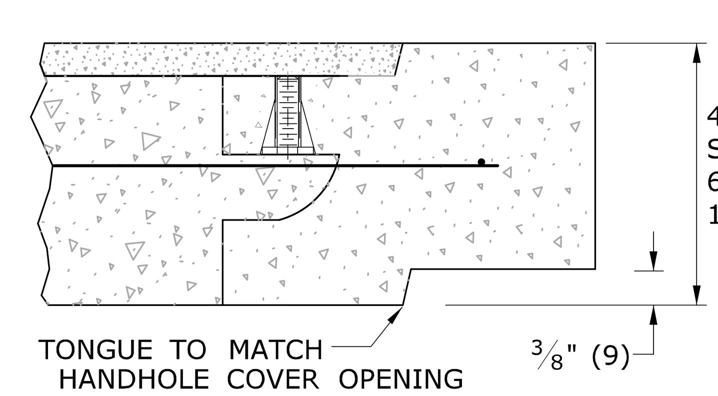
TYP IN TWO PLACES FOR ALL HANDHOLES



CAST IRON
HANDHOLE COVERS

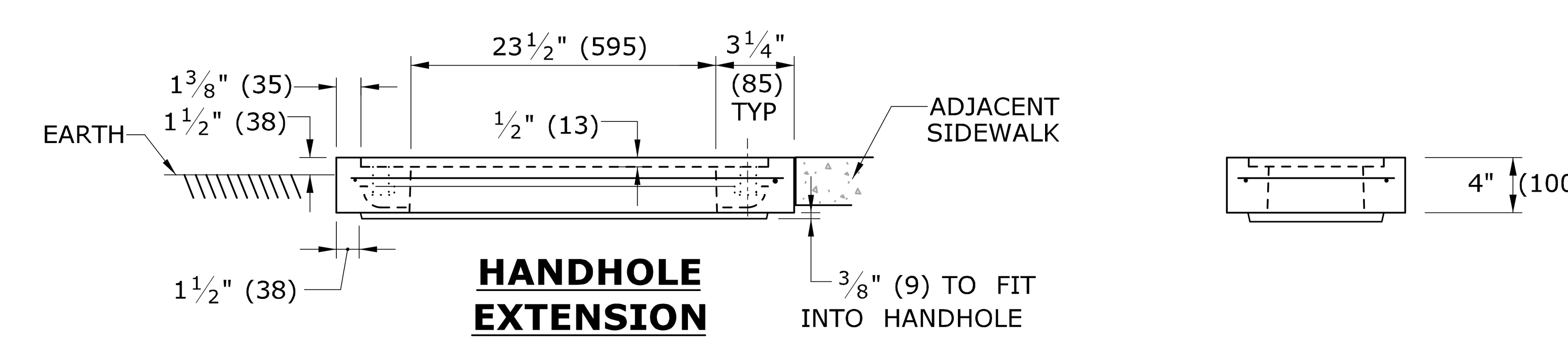


CONCRETE HANDHOLE TYPE I

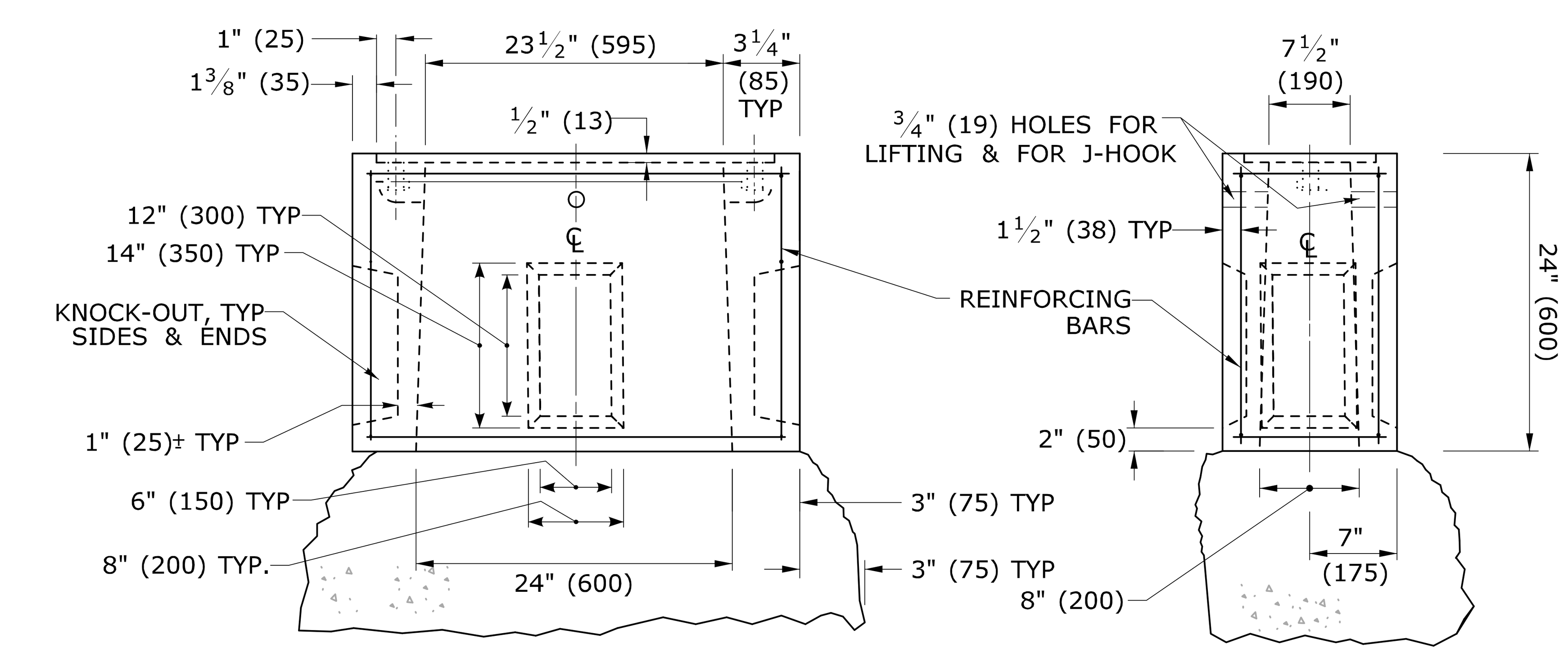


SECTION A-A
HANDHOLE EXTENSIONS

4 - #8 REINFORCING BARS REQ'D



HANDHOLE
EXTENSION



BASE SECTION
CONCRETE HANDHOLE TYPE II

HANDHOLE NOTES:
1. MINIMUM CLASS "C" CONCRETE.
2. COMPLETE TYPE II HANDHOLE:
   IN EARTH AREAS, CONSISTS OF A BASE SECTION WITH 4" (100) HANDHOLE EXTENSION,
   IN SIDEWALK AREAS, CONSISTS OF A BASE SECTION WITH 4" (100) CAST IRON COVER.
3. PLAN VIEW DIMENSIONS, SECTION VIEW, & DETAILS, SAME FOR BASE SECTION, EXTENSIONS & BANK ADAPTER.
4. GROUT AROUND ALL CONDUITS.
5. INSTALL 30" (750) SIDE PARALLEL TO ROAD UNLESS OTHERWISE NOTED.
6. INSTALL HANDHOLES APPROX. 12" (300) BEHIND CURB OR IF NO CURB, 24" (600) BEHIND EDGE OF ROAD UNLESS OTHERWISE SPECIFIED.
7. CAST THE WORD "TRAFFIC" INTO TOP EDGE OF HANDHOLE, 1$^1/_2$" (38) LETTERS.
8. WHERE AN EXISTING CONCRETE SIDEWALK SLAB ABUTTING A HANDHOLE IS DAMAGED OR CUT DURING INSTALLATION, REPLACE THE ENTIRE SIDEWALK SECTION.
9. 12-#3 REINFORCING BARS REQUIRED FOR ALL HANDHOLES. (8 HORIZONTAL, 4 VERTICAL)

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:
☐ PROPOSED HANDHOLE
■ EXISTING HANDHOLE

REV.	DATE	REVISION DESCRIPTION
2	4-2014	REVISED HANDHOLES NOTES, ADDED NOTE #6. ADDED "J" HOOK TO INSERT DETAIL.
1	4-2012	CAST IRON COVER: CHANGED BOLT TO PICK HOLE. ADDED EXTENSIONS, C-CHANNEL, CONDUCTOR CONNECTOR & MINOR REVISIONS.

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Plotted Date: 4/11/2014

DIMENSIONS ARE IN ENGLISH (".") & METRIC UNITS (mm). METRIC DIMENSIONS ARE ROUNDED:
- OVER 1" TO NEAREST 5 mm
- UNDER 1" TO NEAREST 1 mm.

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_STD.DGN Model: TR-1010_01

SUBMITTED BY: NAME/DATE/TIME:
Tracy L. Fogarty, P.E. 2014.04.25 16:01:09-04'00'

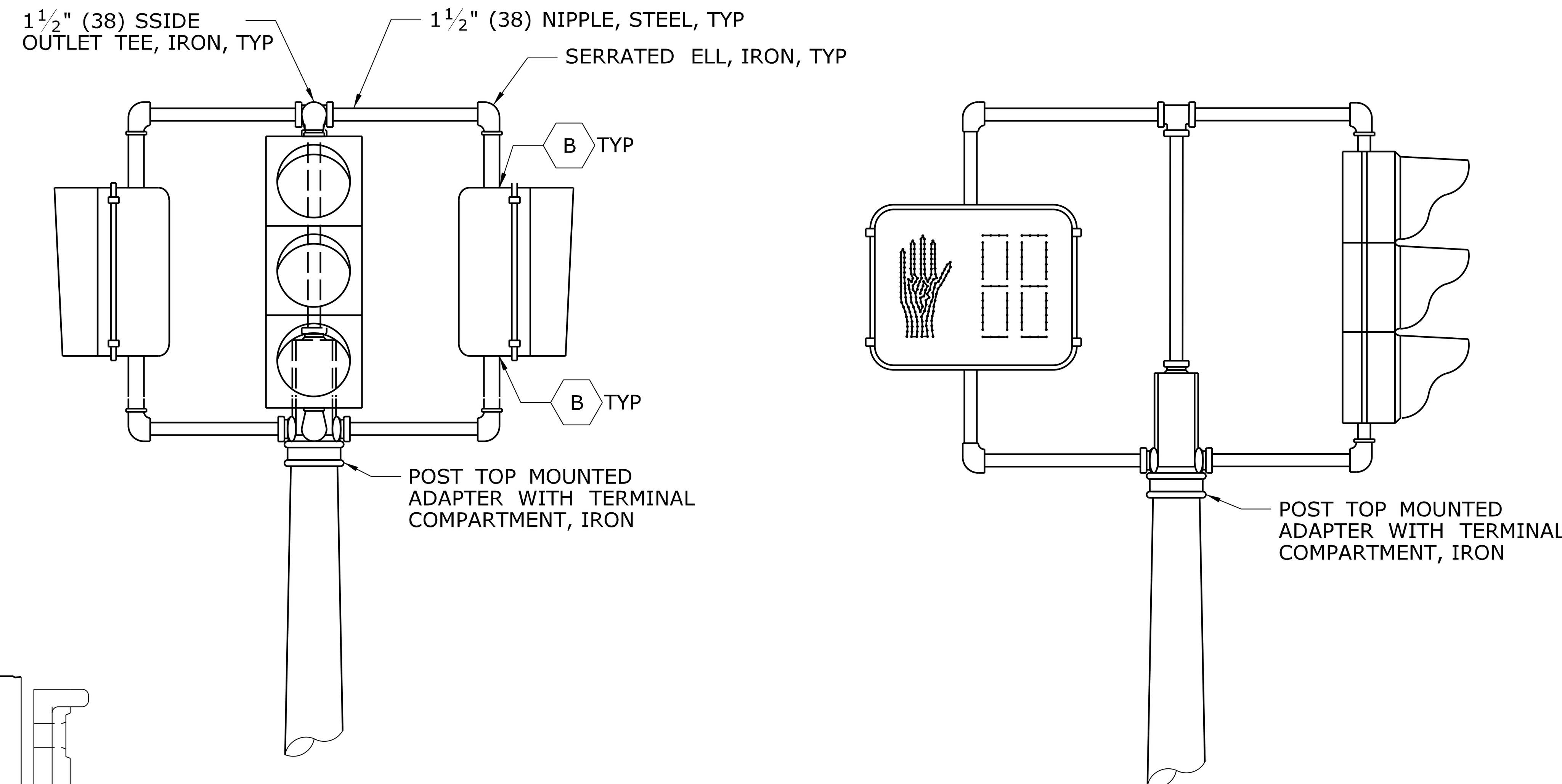
APPROVED BY: NAME/DATE/TIME:
Digitally signed by Charles S. Harlow, P.E. Date: 2014.04.29 14:26:25-04'00'

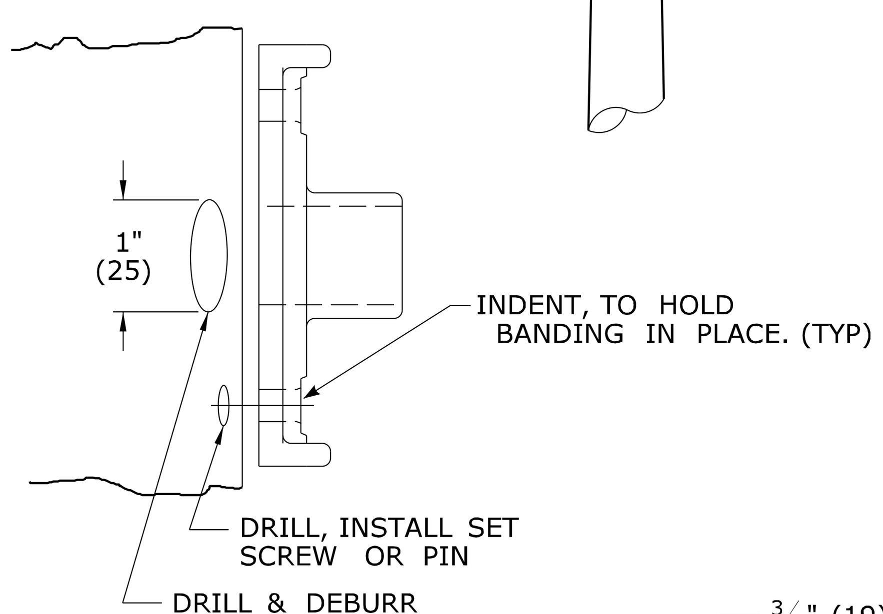
CTDOT
STANDARD SHEET

OFFICE OF ENGINEERING

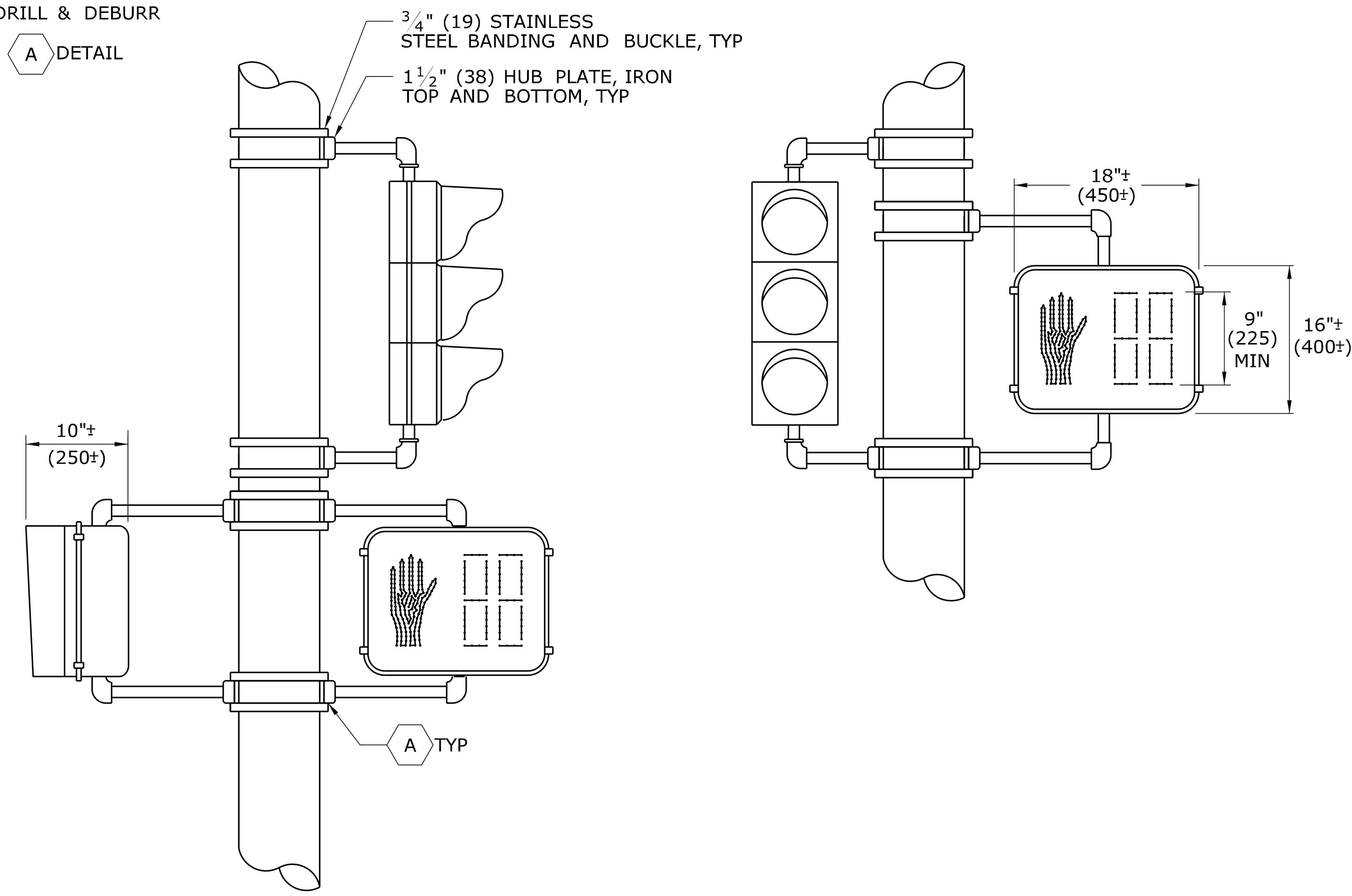
STANDARD SHEET TITLE:
CONCRETE HANDHOLE

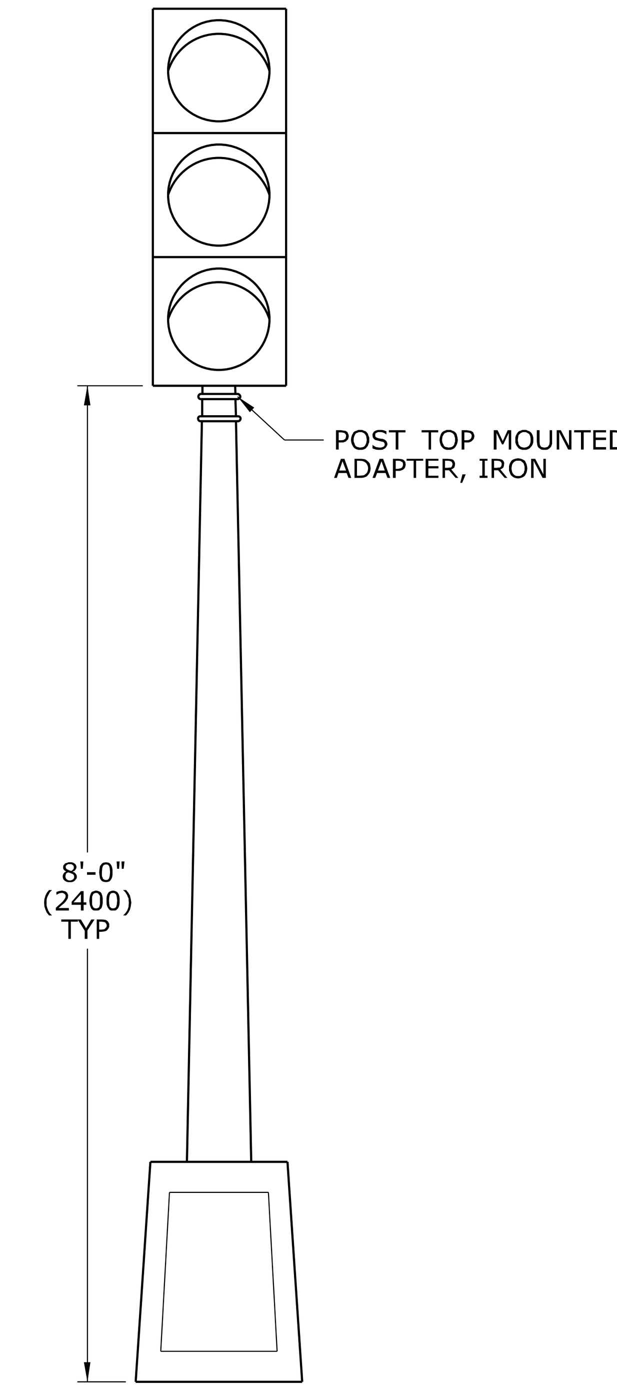
STANDARD SHEET NO.:
TR-1010_01



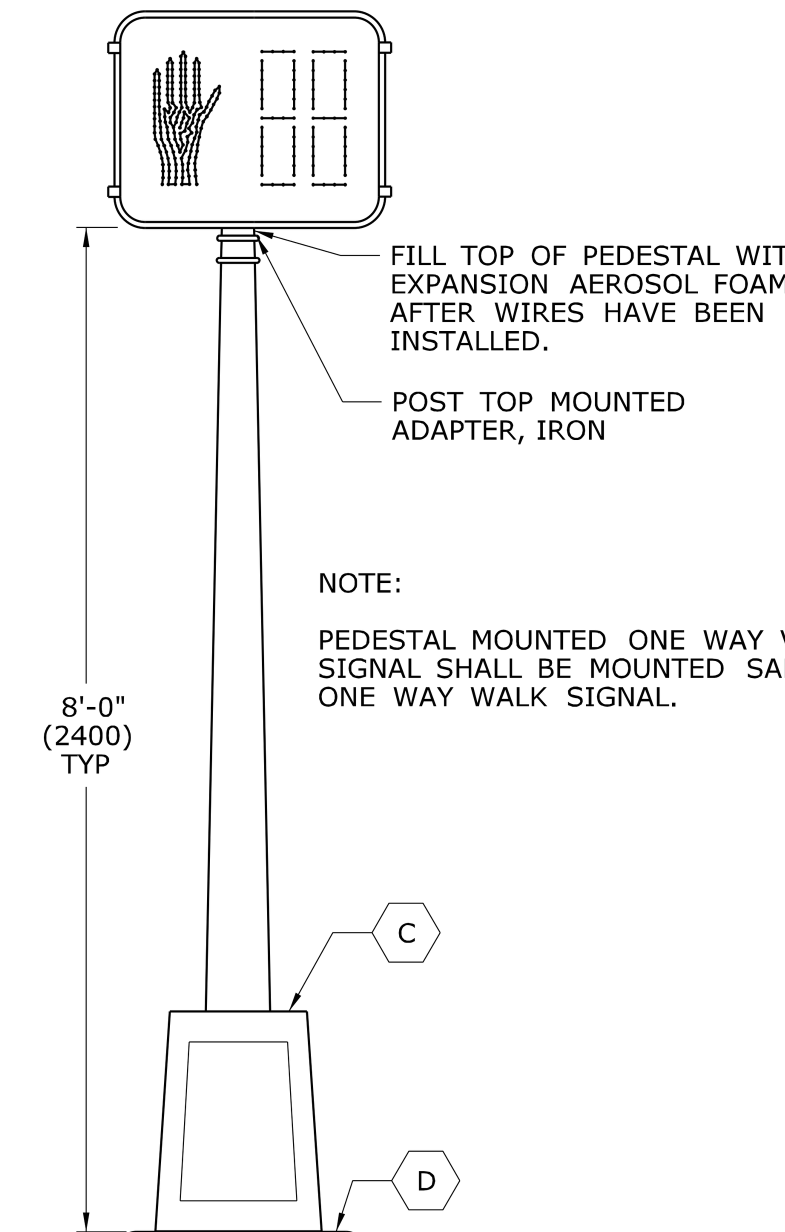


A DETAIL





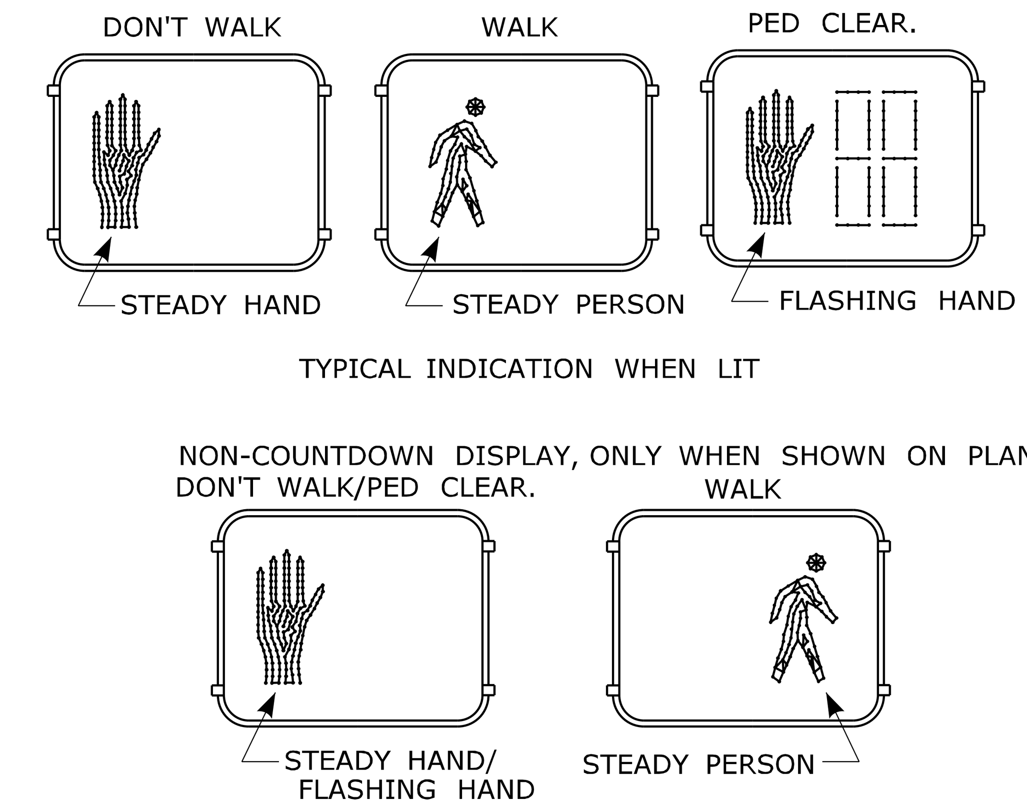
ONE WAY TRAFFIC SIGNAL PEDESTAL MOUNTED

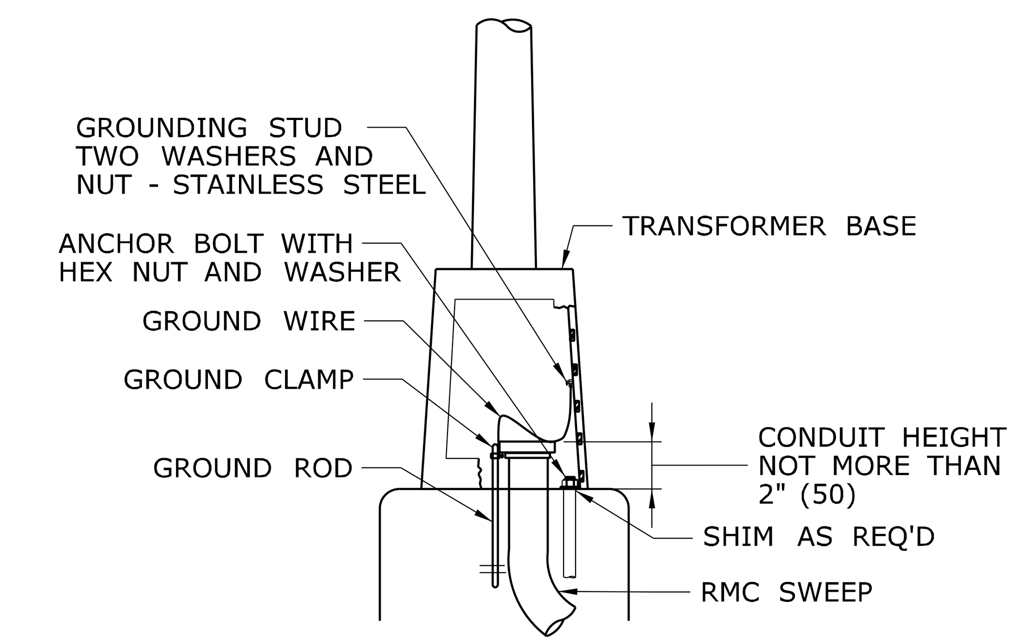


ONE WAY WALK SIGNAL PEDESTAL MOUNTED

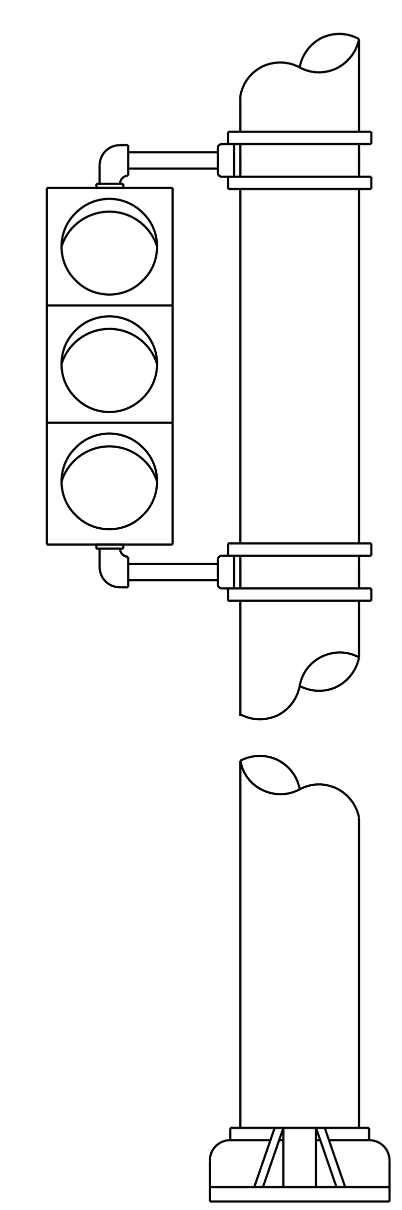
NOTE:

PEDESTAL MOUNTED ONE WAY VEHICLE SIGNAL SHALL BE MOUNTED SAME AS ONE WAY WALK SIGNAL.

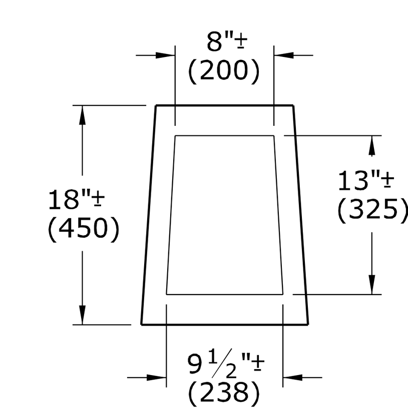




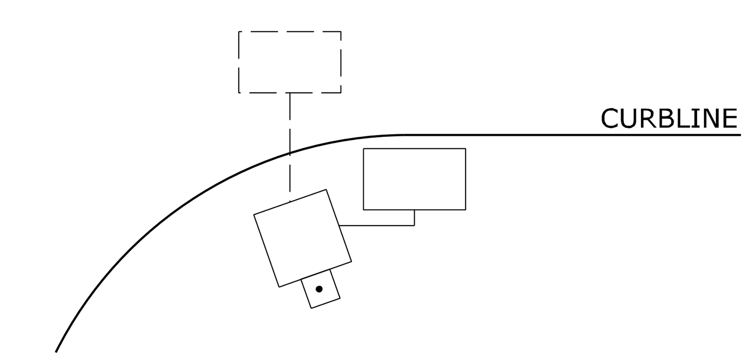
ALUMINUM PEDESTAL INSTALLATION DETAIL



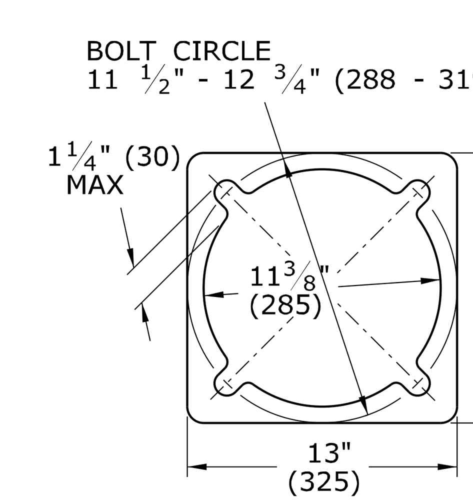
ONE WAY TRAFFIC SIGNAL POLE MOUNTED



ALUMINUM PEDESTAL DOOR OPENING DETAIL



WHEN PEDESTALS OR SPAN POLES ARE INSTALLED CLOSE TO THE CURB, SIDE MOUNT PEDESTRIAN OR TRAFFIC SIGNALS TO AVOID VISOR DAMAGE FROM TURNING VEHICLES.



PEDESTAL BASE PLAN

NOTES:

- (A) SECURE LOWER HUB PLATE WITH STAINLESS STEEL SET SCREW OR PIN PRIOR TO BANDING TO PREVENT MOVEMENT. INSTALL CABLE THROUGH BOTTOM OF HUB PLATE.
- (B) REFER TO CTDOT TRAFFIC STANDARD SHEET, TR-1105_01, TRAFFIC SIGNALS & CABLE ASSIGNMENTS.
- (C) IF THREADED, MIN 1" (25) THREADED INTO BASE, SECURED WITH STAINLESS STEEL SET SCREWS.
- (D) BASE DESIGNED AS BREAK-AWAY.

INCANDESCENT WALK SIGNAL LAMPS ARE 67 WATTS, RATED AT 8000 HOURS LAMP LIFE. LED WALK SIGNAL LAMPS ARE MAXIMUM 15 WATTS, WARRANTEED AT 5 YEAR LIFE.

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:
- STEEL SPAN POLE, MAST ARM ASSEMBLY SHAFT
- ALUMINM PEDESTAL
- TRAFFIC SIGNAL
- PEDESTRIAN SIGNAL
- PEDESTAL MOUNTED, TRAFFIC & PEDESTRIAN SIGNALS
- POLE MOUNTED, TRAFFIC & PEDESTRIAN SIGNALS

REV.	DATE	REVISION DESCRIPTION
2	4-2012	MINOR REVISIONS.
1	1-2010	INCLUDED COUNTDOWN PEDESTRIAN SIGNALS.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 4/14/2012

DIMENSIONS ARE IN ENGLISH (") & METRIC UNITS (mm). METRIC DIMENSIONS ARE ROUNDED:
- OVER 1" TO NEAREST 5 mm
- UNDER 1" TO NEAREST 1 mm.

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT-TRAFFIC-STD.dgn Model: TR-1102-01

SUBMITTED BY: NAME/DATE/TIME: Tracy L. Fogarty 2012.05.01 12:55:27-04'00'

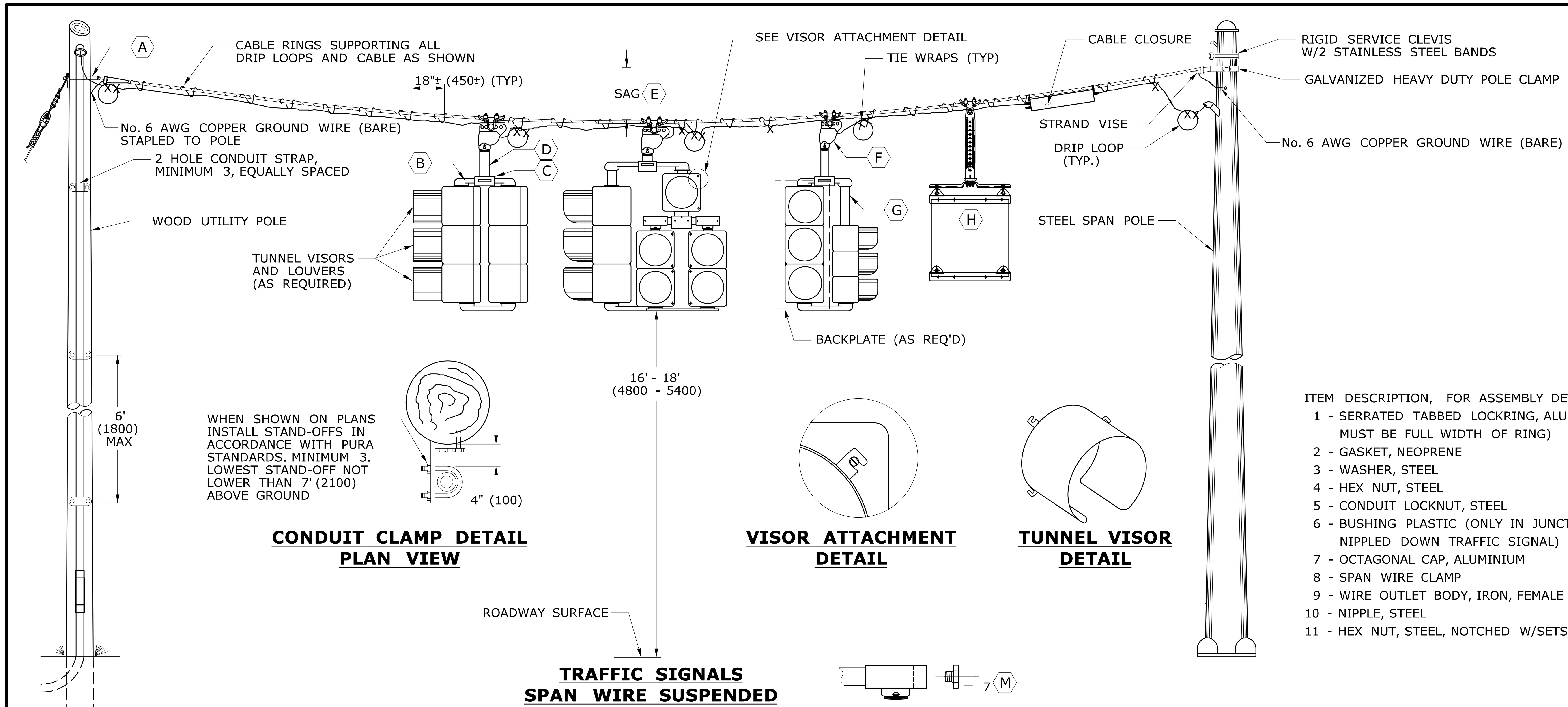
APPROVED BY: NAME/DATE/TIME: Timothy M. Wilson 2012.05.09 10:24:58-04'00'

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE: **PEDESTALS, PEDESTRIAN SIGNALS**

STANDARD SHEET NO.: **TR-1102_01**



ITEM DESCRIPTION, FOR ASSEMBLY DETAILS

1 - SERRATED TABBED LOCKRING, ALUMINUM (TAB MUST BE FULL WIDTH OF RING)
2 - GASKET, NEOPRENE
3 - WASHER, STEEL
4 - HEX NUT, STEEL
5 - CONDUIT LOCKNUT, STEEL
6 - BUSHING PLASTIC (ONLY IN JUNCTION BOX OR NIPPLED DOWN TRAFFIC SIGNAL)
7 - OCTAGONAL CAP, ALUMINIUM
8 - SPAN WIRE CLAMP
9 - WIRE OUTLET BODY, IRON, FEMALE ONLY
10 - NIPPLE, STEEL
11 - HEX NUT, STEEL, NOTCHED W/SETSCREWS

TRAFFIC SIGNAL CABLE COLOR ASSIGNMENTS

SIGNAL ASSEMBLY & CABLE USED	SIGNAL FUNCTION	ARTERY 1	ARTERY 2	SIDE STREET 1	SIDE STREET 2
2 - WAY 9 CONDUCTOR	RED	RED		BLACK	
	YELLOW	ORANGE		WHITE \ BLACK	
	GREEN	GREEN		BLUE	
	SPARE	GREEN\BLACK		RED \ BLACK	
	NEUTRAL	WHITE			
3 - WAY 12 CONDUCTOR	RED	RED	RED \ BLACK	BLACK	
	YELLOW	ORANGE	ORANGE \ BLACK	WHITE \ BLACK	
	GREEN	GREEN	GREEN \ BLACK	BLUE	
	SPARE	BLUE\BLACK	BLACK \ WHITE		
	NEUTRAL	WHITE			
4 - WAY 15 CONDUCTOR	RED	RED	RED \ BLACK	BLACK	RED \ WHITE
	YELLOW	ORANGE	ORANGE \ BLACK	WHITE \ BLACK	BLACK \ WHITE
	GREEN	GREEN	GREEN \ BLACK	BLUE	GREEN \ WHITE
	SPARE	BLUE\BLACK		BLUE \ WHITE	
	NEUTRAL	WHITE			

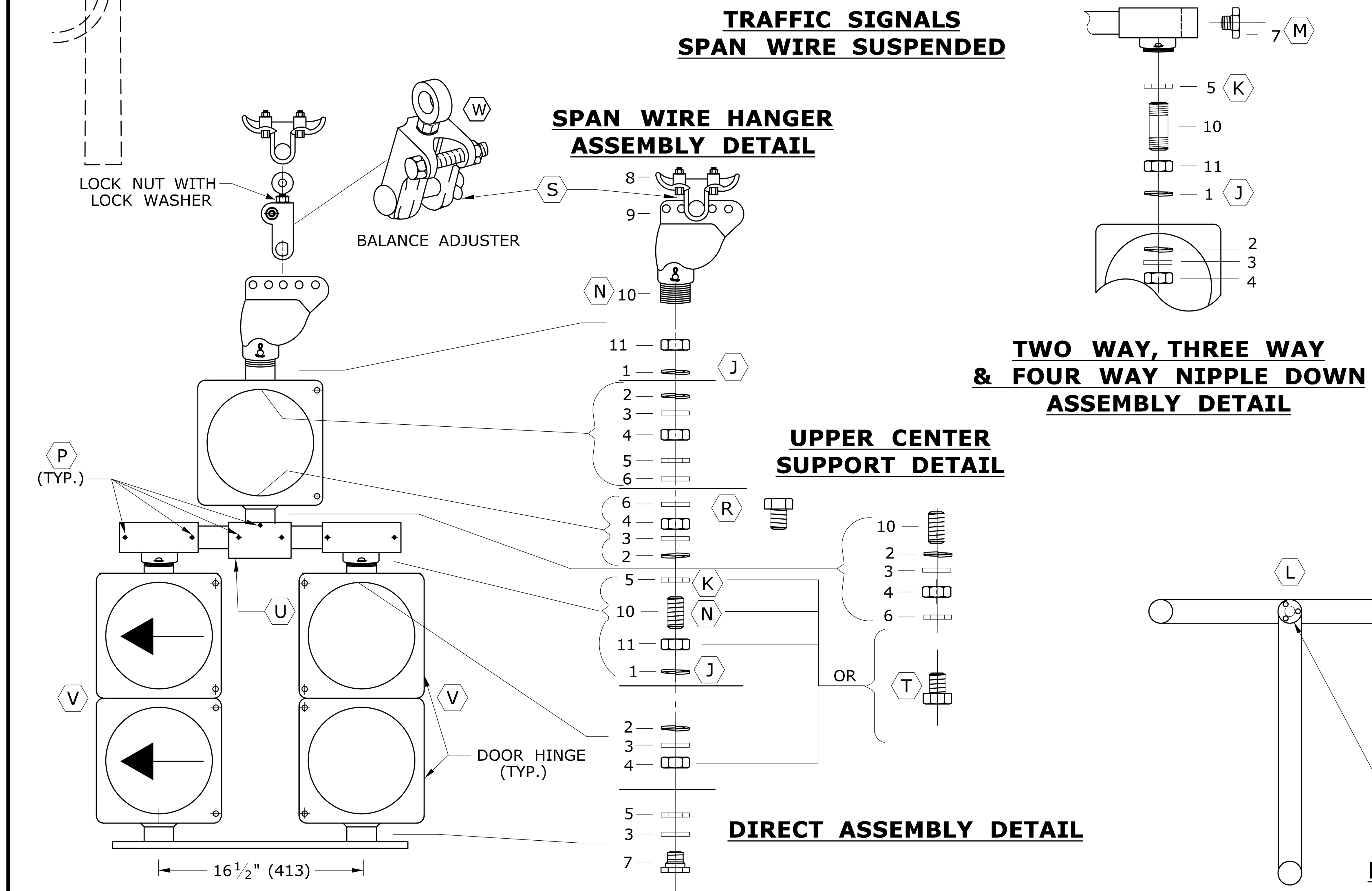
PEDESTRIAN SIGNAL CABLE COLOR ASSIGNMENTS

SIGNAL ASSEMBLY & CABLE USED	SIGNAL FUNCTION	WIRE COLOR
WALK SIGNAL W/ PUSHBUTTON 7 CONDUCTOR	DON'T WALK	RED
	WALK	GREEN
	NEUTRAL FOR WALK SIGNAL	WHITE
	PEDESTRIAN PUSHBUTTON	BLACK
	NEUTRAL FOR PUSHBUTTON	ORANGE
	SPARE CONDUCTOR	WHITE \ BLACK
	SPARE CONDUCTOR *	BLUE \ BLACK
WALK SIGNAL W/ PUSHBUTTON 7 CONDUCTOR	RED	RED
	YELLOW	ORANGE
	GREEN	GREEN
	NEUTRAL FOR TRAFFIC SIGNAL	WHITE
	PEDESTRIAN PUSHBUTTON	BLACK
	NEUTRAL FOR PUSHBUTTON	WHITE \ BLACK
	SPARE CONDUCTOR *	BLUE \ BLACK

* IF 14/7 FEEDS MORE THAN ONE BUTTON, SPLIT THE BUTTONS AND USE BLUE WITH BLACK TRACER FOR THE ADDITIONAL BUTTON.

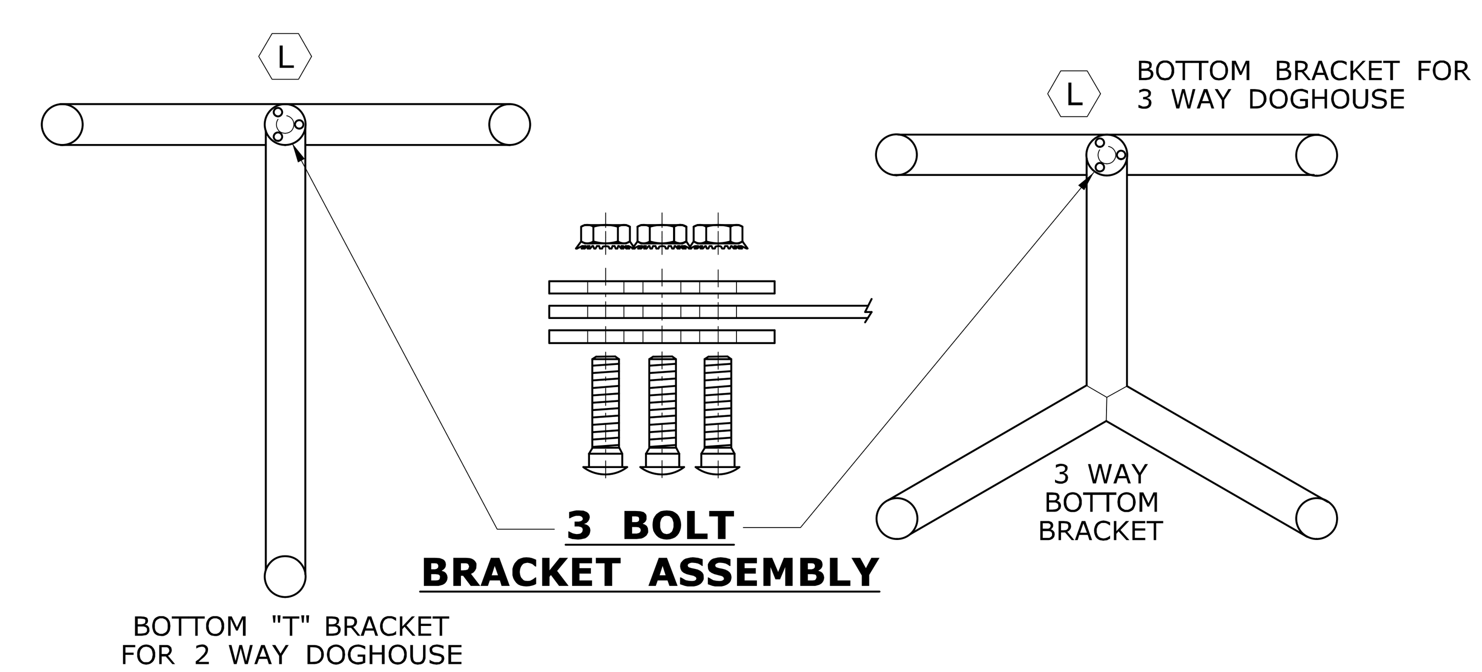
TABLE NOTES:

1. INSTALL SEPARATE CABLE BETWEEN CLOSURE AND EACH TRAFFIC SIGNAL ASSEMBLY. WIRE EACH TRAFFIC SIGNAL SECTION SEPARATELY BACK TO CABLE CLOSURE. JUMPERS BETWEEN TERMINALS ARE NOT ALLOWED EXCEPT ON NEUTRAL CONDUCTORS.
2. WIRE ALL SIGNALS, SAME DIRECTION FROM CONTROLLER, SEPARATELY WITH CONDUCTORS IN 21 CONDUCTOR CABLE, EVEN IF INDICATIONS ARE IDENTICAL.
3. CABLES THAT FEED PEDESTRIAN INDICATIONS, PUSH BUTTONS, AND DETECTORS BYPASS CABLE CLOSURE.
4. REFER TO STANDARD SHEET TR-1113_01 FOR CABLE CLOSURE - TYPE A.



NOTES: FOR ASSEMBLY DETAILS

- (J) APPLY SILICONE CAULK BETWEEN OR AROUND SERRATED LOCKRING AND HOUSING.
- (K) OPTIONAL USE IF NIPPLE THREADS TOO FAR INTO ELBOW.
- (L) DRILL HOLE IN CENTER OF 2 WAY BOTTOM BRACKET - INSTALL 3 BOLT BRACKET (SEE DETAIL).
- (M) DO NOT INSERT ORNAMENTAL CAP PAST DOTTED LINE.
- (N) ALL THREAD.
- (P) SETSCREW (SQUARE OR ALLEN) ON ALL FITTINGS.
- (R) CHASE NIPPLE CAN BE SUBSTITUTED FOR THE COMBINATION OF ITEMS 6, 5 AND 10.
- (S) INSTALL STAINLESS STEEL WASHER ON INSIDE OF COTTER PIN. COTTER PIN AND WASHER SHALL BE ON SIDE OF HANGER AWAY FROM SIGNAL CABLES.
- (T) CHASE NIPPLE CAN BE SUBSTITUTED FOR COMBINATION 4, 5, 10 AND 11.
- (U) CENTER HUB SAME AS (C) EXCEPT TOP OPENING MAY BE THREADED.
- (V) DOOR HINGE ON OUTSIDE OF SIDE BY SIDE ASSEMBLY.
- (W) USE BALANCE ADJUSTER TO PLUMB SIGNAL ASSEMBLIES AS REQUIRED.



NOTES:

SERVICE CONDUCTORS: THW, THWN OR XHHW. INDIVIDUAL WIRES MAY BE USED IN LIEU OF MULTI-CONDUCTOR CABLE.

ALL WORK ON UTILITY POLES MUST COMPLY WITH CURRENT PURA REGULATIONS AND NESC RULES.

- (A) ATTACH SPAN AT LEAST 12" (300) BELOW LOWEST POWER COMPANY ATTACHMENT, AND AT LEAST 40" (1000) ABOVE HIGHEST COMMUNICATIONS ATTACHMENT, UNLESS OTHERWISE DIRECTED ON PLANS.
- (B) ELBOW OR "T" FITTING MUST HAVE NOTCH FOR SERRATED TABBED LOCKRING.
- (C) TOP BRACKET CENTER HUB SHALL BE MIN 4" (100) ROUND AND 3" (75) DEEP OR EQUAL VOLUME. SERRATION CAST IN HUB OR TABBED OR SERRATED LOCKRING, TOP OPENING NOT THREADED.
- (D) NIPPLE LENGTH DEPENDS ON SPAN HEIGHT.
- (E) SAG OF SPAN TO BE 5%± LENGTH, UNLESS OTHERWISE ALLOWED BY ENGINEER.
- (F) FACE ALL ENTRANCE FITTINGS TOWARD CABLE CLOSURE UNLESS SIGNAL ASSEMBLY IS UNBALANCED AND A BALANCE ADJUSTER IS USED.
- (G) INSTALL EXTENSION NIPPLE ON TOP OF SIGNAL HOUSING SO BOTTOM OF ALL SIGNALS ARE EVEN.
- (H) REFER TO TYPICAL "SIGN FACE SHEET ALUMINUM, R-SERIES SIGNS", AND TO TR-1208_03 FOR SIGN HANGER ASSEMBLY. MAXIMUM SIGN SIZE 24" X 24" (600 X 600). ALL STAINLESS STEEL HARDWARE.

SECURE LOUVERS TO TUNNEL VISORS WITH 3 STAINLESS STEEL SCREWS.

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:

- PROPOSED WOOD SPAN POLE
- EXISTING WOOD SPAN POLE
- PROPOSED STEEL SPAN POLE
- EXISTING STEEL SPAN POLE
- PROPOSED UTILITY POLE
- EXISTING UTILITY POLE
- POLE ANCHOR & GUY
- CABLE CLOSURE
- SPAN MOUNTED SIGN
- SPAN MOUNTED TRAFFIC SIGNAL

REV.	DATE	REVISION DESCRIPTION
3	3-2015	REMOVED STRAIN INSULATOR.
2	5-2013	MINOR REVISIONS.
1	4-2012	MINOR REVISIONS.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 3/19/2015

DIMENSIONS ARE IN ENGLISH (") & METRIC UNITS (mm). METRIC DIMENSIONS ARE ROUNDED:
- OVER 1" TO NEAREST 5 mm
- UNDER 1" TO NEAREST 1 mm.

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_STD.DGN Model: TR-1105_01

SUBMITTED BY: NAME/DATE/TIME: Tracy L. Fogarty, P.E. 2015.05.05 12:30:30-04'00'

APPROVED BY: NAME/DATE/TIME: Charles S. Harlow, P.E. 2015.05.12 15:26:44-04'00'

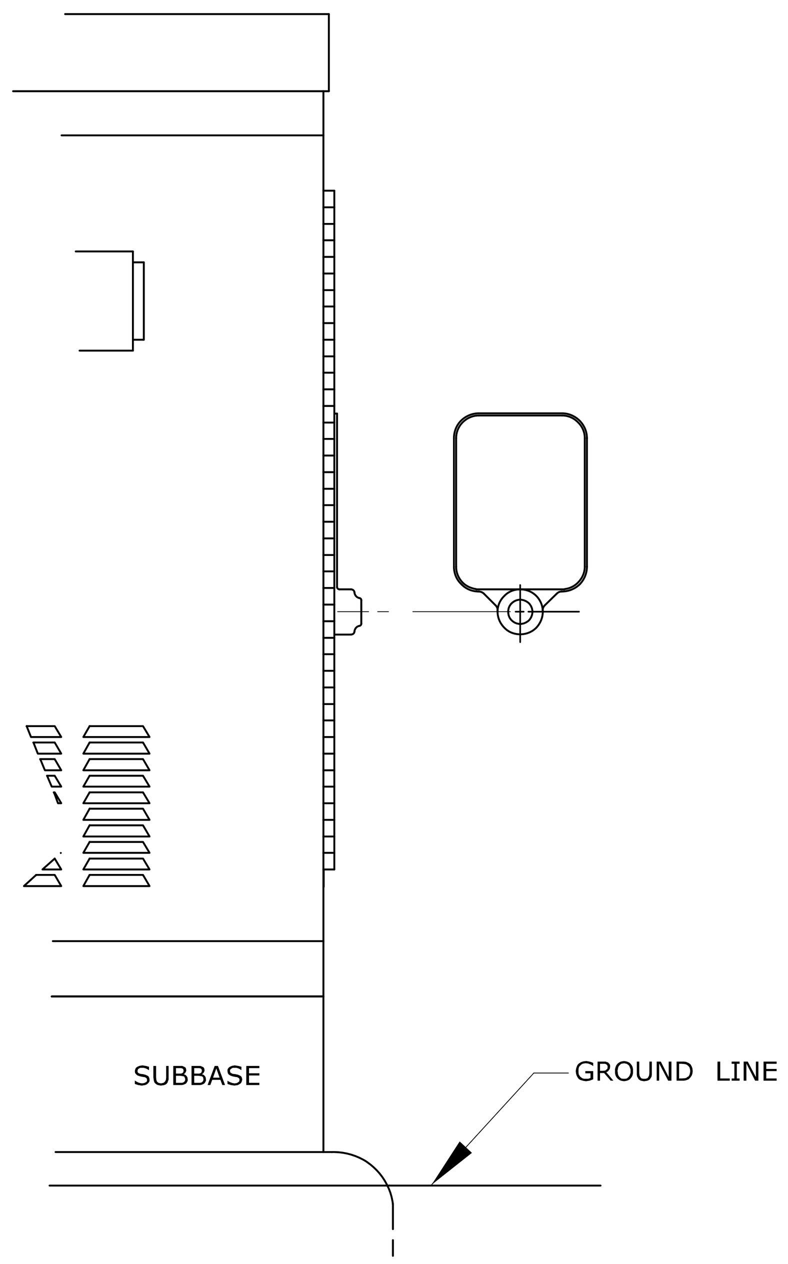
CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

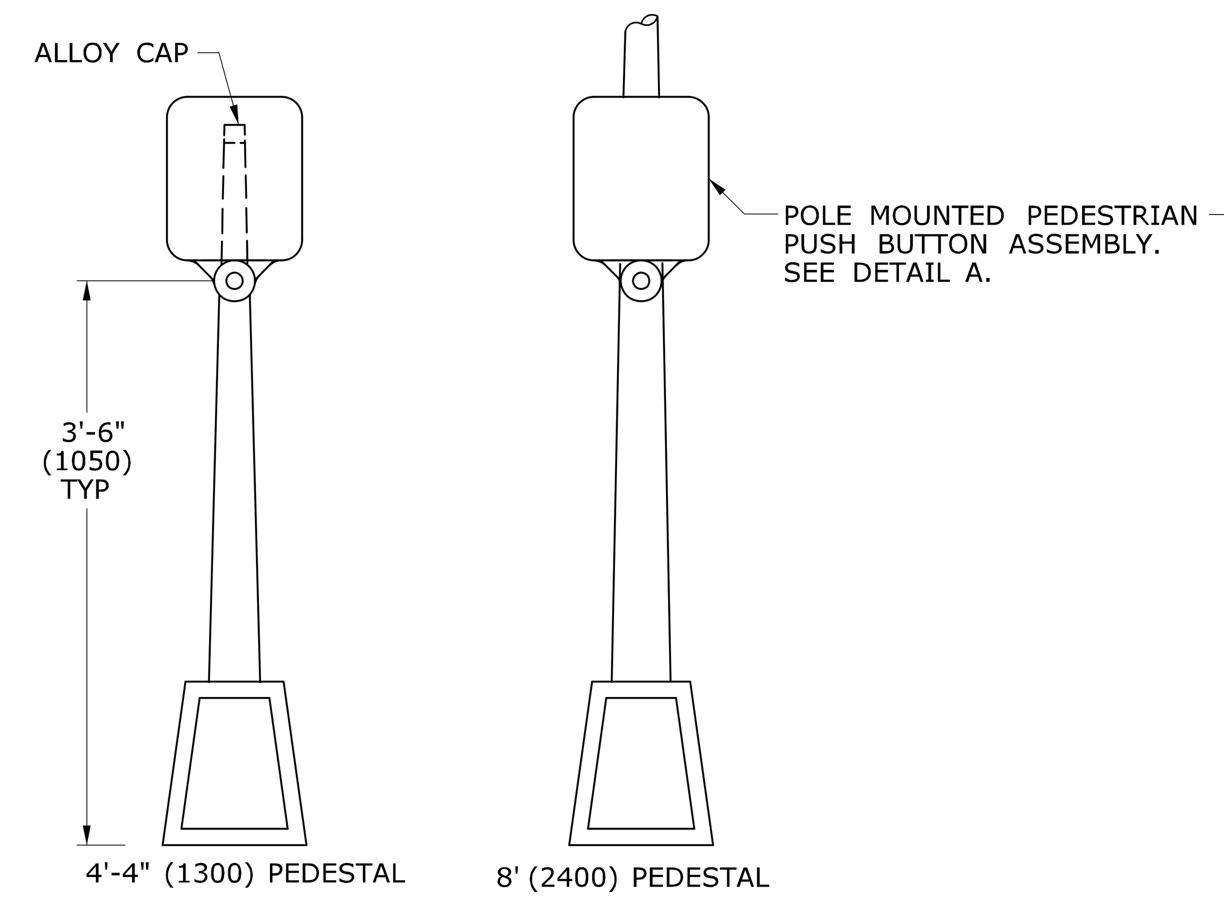
STANDARD SHEET TITLE:

TRAFFIC SIGNALS & CABLE ASSIGNMENTS

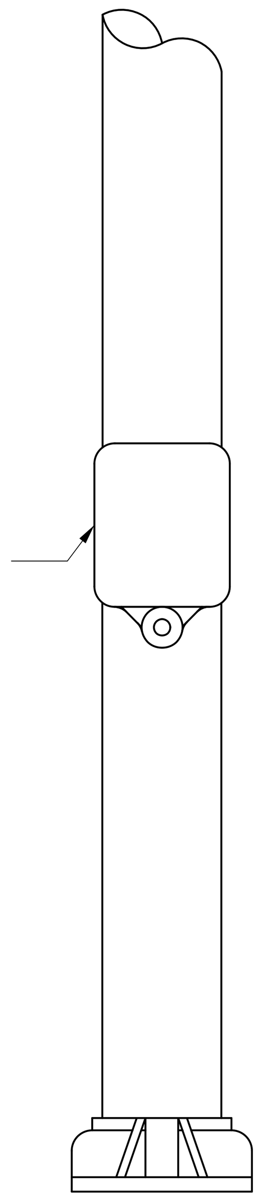
STANDARD SHEET NO.: **TR-1105_01**



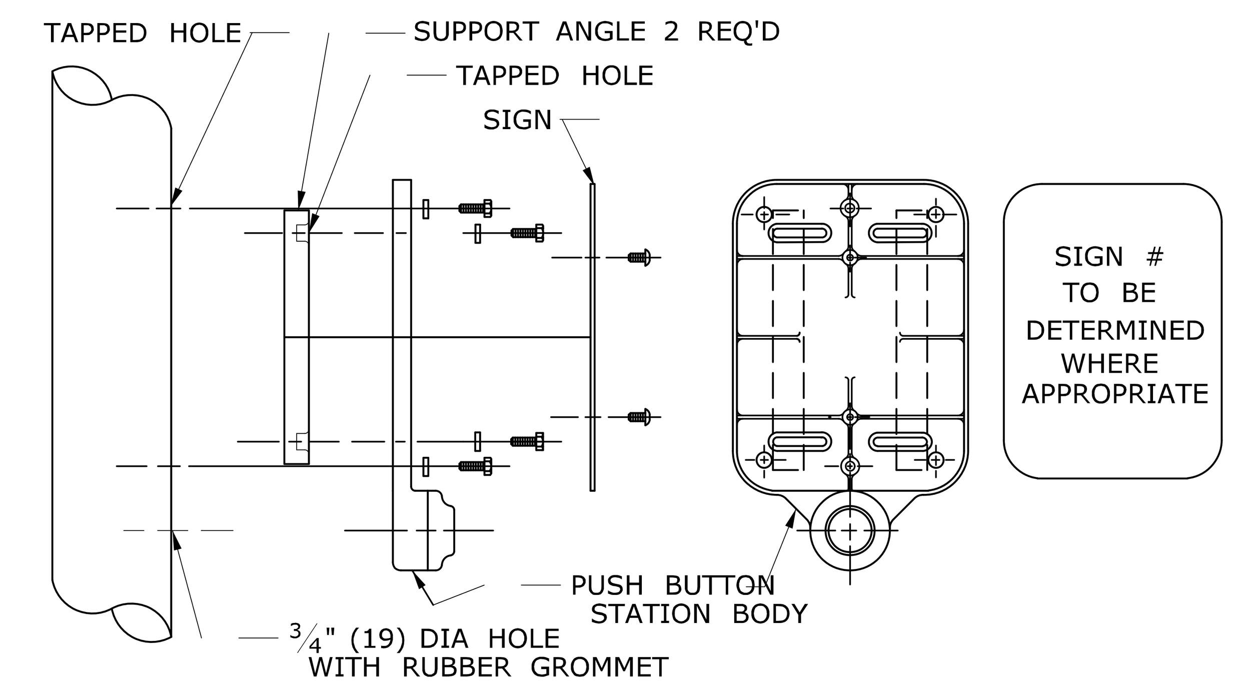
SURFACE MOUNTED



PEDESTAL MOUNTED



SPAN POLE/MAST ARM MOUNTED



DETAIL A

SIGN # 31-0833

* USE APPROPRIATE ARROW UNLESS OTHERWISE NOTED ON PLAN.

SIGN # 31-0835

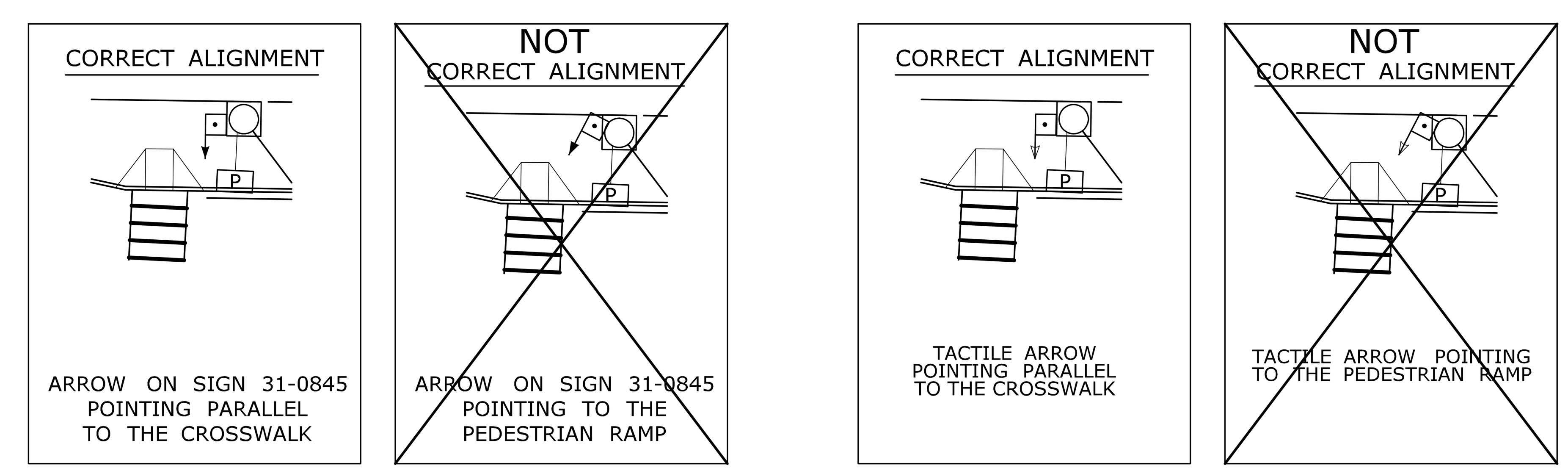
FOR CROSSING WITH SIDE STREET GREEN

GENERAL NOTES:

3'-6" (1050) FROM FINISHED GRADE SUCH AS SIDEWALK TO CENTER OF PUSH BUTTON.

PUSH BUTTON INSTALLATIONS SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN, CURRENT EDITION GOVERNS.

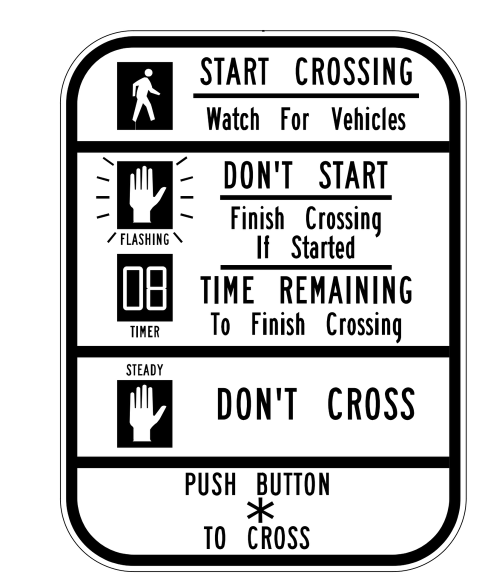
4'-4" (1300) PEDESTAL TO INCLUDE ALLOY CAP SECURED WITH STAINLESS STEEL SET SCREW.



PEDESTRIAN PUSH BUTTON ALIGNMENT

ACCESSIBLE PEDESTRIAN SIGNAL AND DETECTOR

EXAMPLE ALIGNMENTS FOR EXCLUSIVE PEDESTRIAN PHASE



SIGN # 31-0845

* USE APPROPRIATE ARROW UNLESS OTHERWISE NOTED ON PLAN.

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:
- PEDESTRIAN PUSH BUTTON
- PEDESTRIAN PUSH BUTTON, PEDESTAL MOUNTED
- PEDESTRIAN PUSH BUTTON, POLE MOUNTED

REV.	DATE	REVISION DESCRIPTION
2	4-2014	ADDED PEDESTRIAN EXAMPLE ALIGNMENTS
1	4-2012	MINOR REVISIONS & UPDATED SIGN #31-0845.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 4/25/2014

DIMENSIONS ARE IN ENGLISH ('.") & METRIC UNITS (mm).
METRIC DIMENSIONS ARE ROUNDED:
- OVER 1" TO NEAREST 5 mm
- UNDER 1" TO NEAREST 1 mm.

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_STD.DGN   Model: TR-1107_01

SUBMITTED BY: NAME/DATE/TIME:
Tracy L. Fogarty, P.E. 2014.04.25 16:01:49-04'00'

APPROVED BY: NAME/DATE/TIME:
Digitally signed by Charles S. Harlow, P.E. Date: 2014.04.29 14:27:01-04'00'

CTDOT STANDARD SHEET

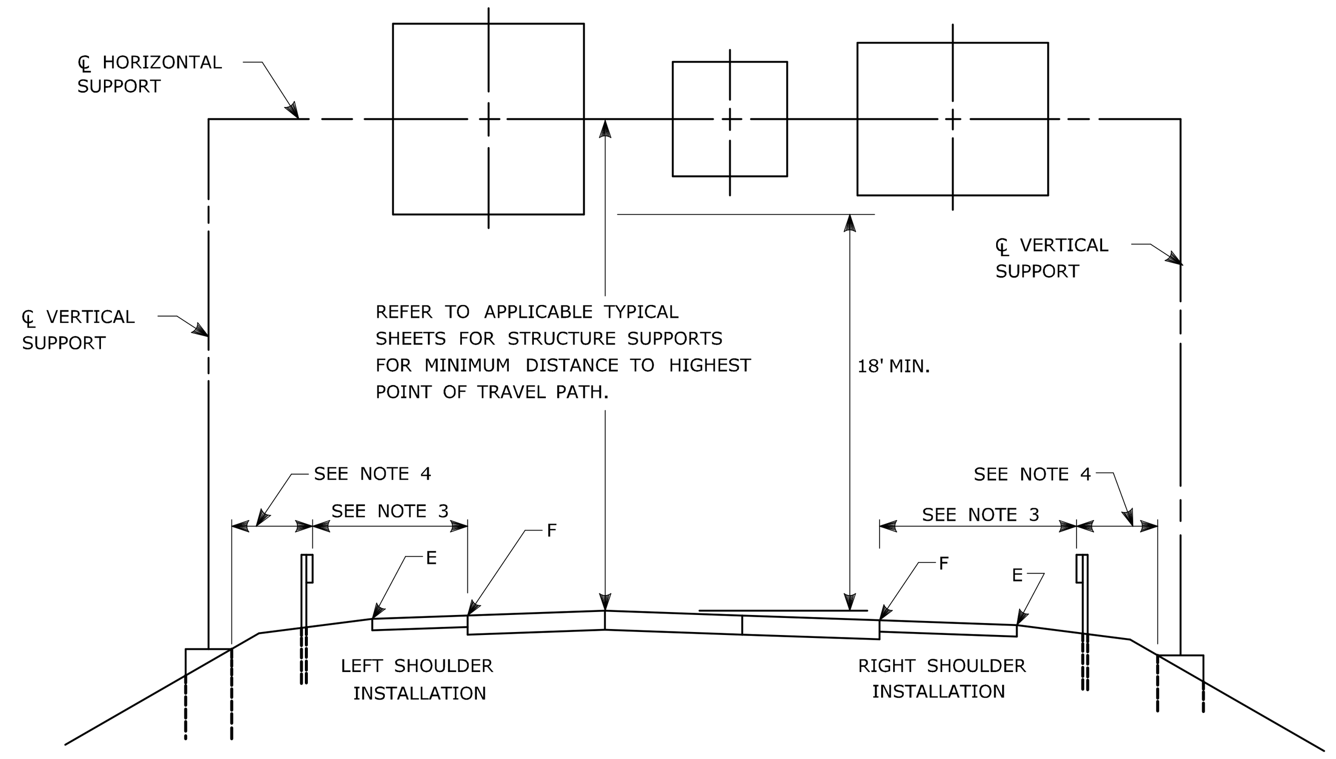
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

PEDESTRIAN PUSH BUTTONS

STANDARD SHEET NO.:

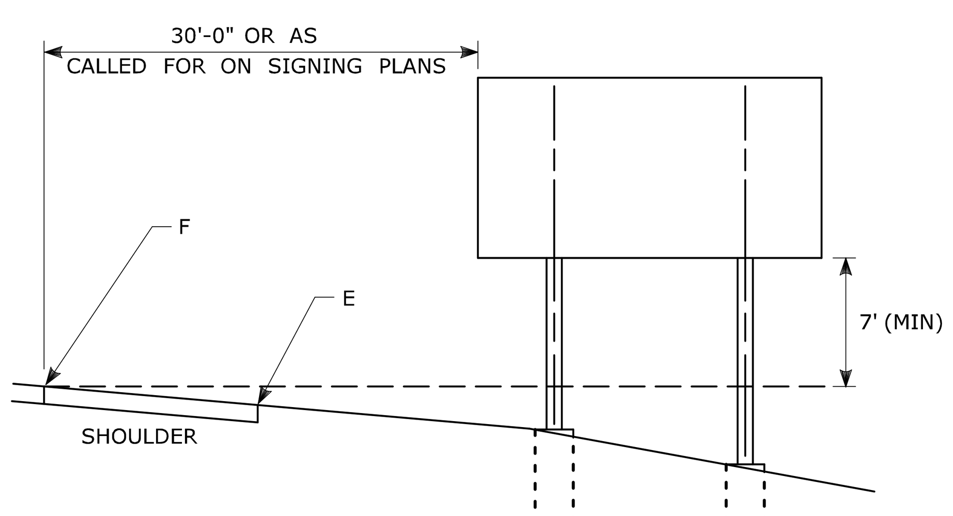
TR-1107_01



TYPICAL PLACEMENT OF OVERHEAD SIGNS ON SIGN SUPPORTS

NOTES:

1) FOR PLACEMENT OF CANTILEVER SIGN SUPPORT USE APPLICABLE PORTION OF ABOVE DETAIL.
2) BARRIER SYSTEMS MAY BE REQUIRED FOR BOTH SIDES OF SUPPORTS IN MEDIANS.
3) IMPACT PROTECTION SHALL BE PROVIDED FOR THE SIGN SUPPORTS LOCATED WITHIN CLEAR ZONE.
4) SIGN SUPPORT FOUNDATIONS SHALL BE LOCATED OUTSIDE OF BARRIER SYSTEMS DEFLECTION AREA.
5) ALL SIGNS ARE TO BE LEVEL, REGARDLESS OF CAMBER IN SUPPORT.



TYPICAL PLACEMENT OF SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS

NOTES:

1) MIN. VERTICAL CLEARANCE ABOVE SIDEWALKS SHALL BE 7'.
2) WHERE GUIDE RAIL IS USED, THE OFFSET TO THE NEAR EDGE OF SIGN FACE SHALL BE AS SHOWN ELSEWHERE IN THE CONTRACT PLANS.
3) ON INTERSECTING ROADS AT RAMP TERMINI, THE OFFSET TO THE NEAR EDGE OF OF SIGN FACE SHALL BE 6' MIN. FROM POINT "E".
4) IF 30'-0" MIN. CANNOT BE MET, PLEASE CONTACT THE ENGINEER.

FOR MAXIMUM EFFECTIVENESS, POSITION SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS AS FOLLOWS:

ON A TANGENT SECTION, POSITION THE SIGN SO THE VERTICAL AXIS IS PLUMB AND THE HORIZONTAL AXIS IS AT AN ANGLE OF 90° WITH THE TRAFFIC LANE WHICH THE SIGN SERVES. SIGNS LOCATED 30 FT OR MORE FROM THE EDGE OF THE ROAD SHALL BE TURNED APPROXIMATELY 3° TOWARD THE ROAD.

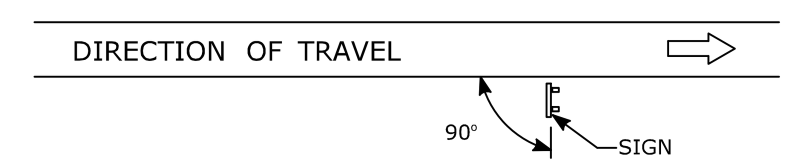


DIAGRAM "A"

ON A HORIZONTAL CURVE SECTION, POSITION THE SIGN SO THE VERTICAL AXIS IS PLUMB AND THE HORIZONTAL AXIS IS AT AN ANGLE OF 90° WITH A STRAIGHT LINE BETWEEN THE SIGN AND THE POINT AT WHICH THE SIGN SHALL BE READ.

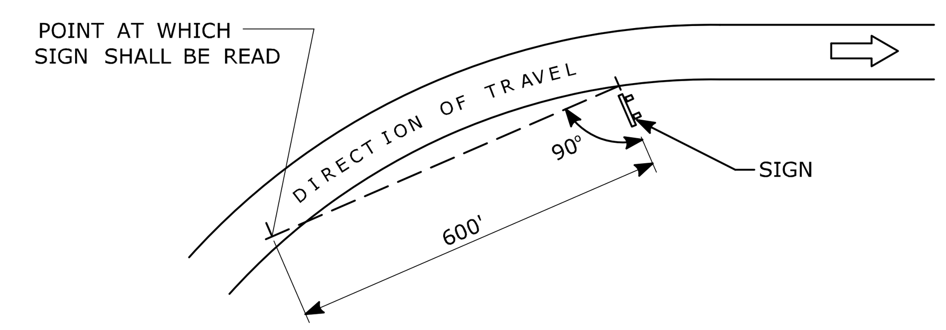
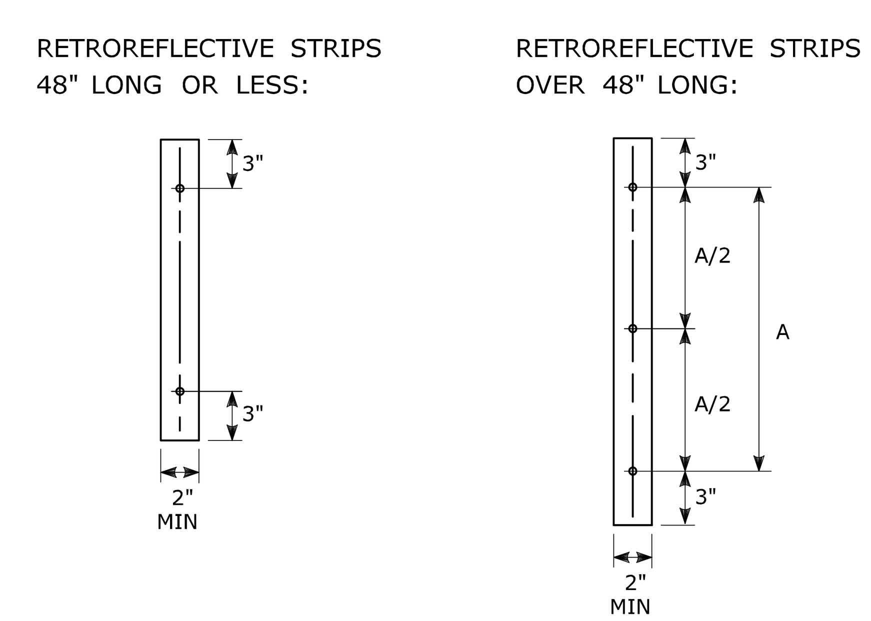


DIAGRAM "B"

SIGN ORIENTATION DETAILS FOR SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS

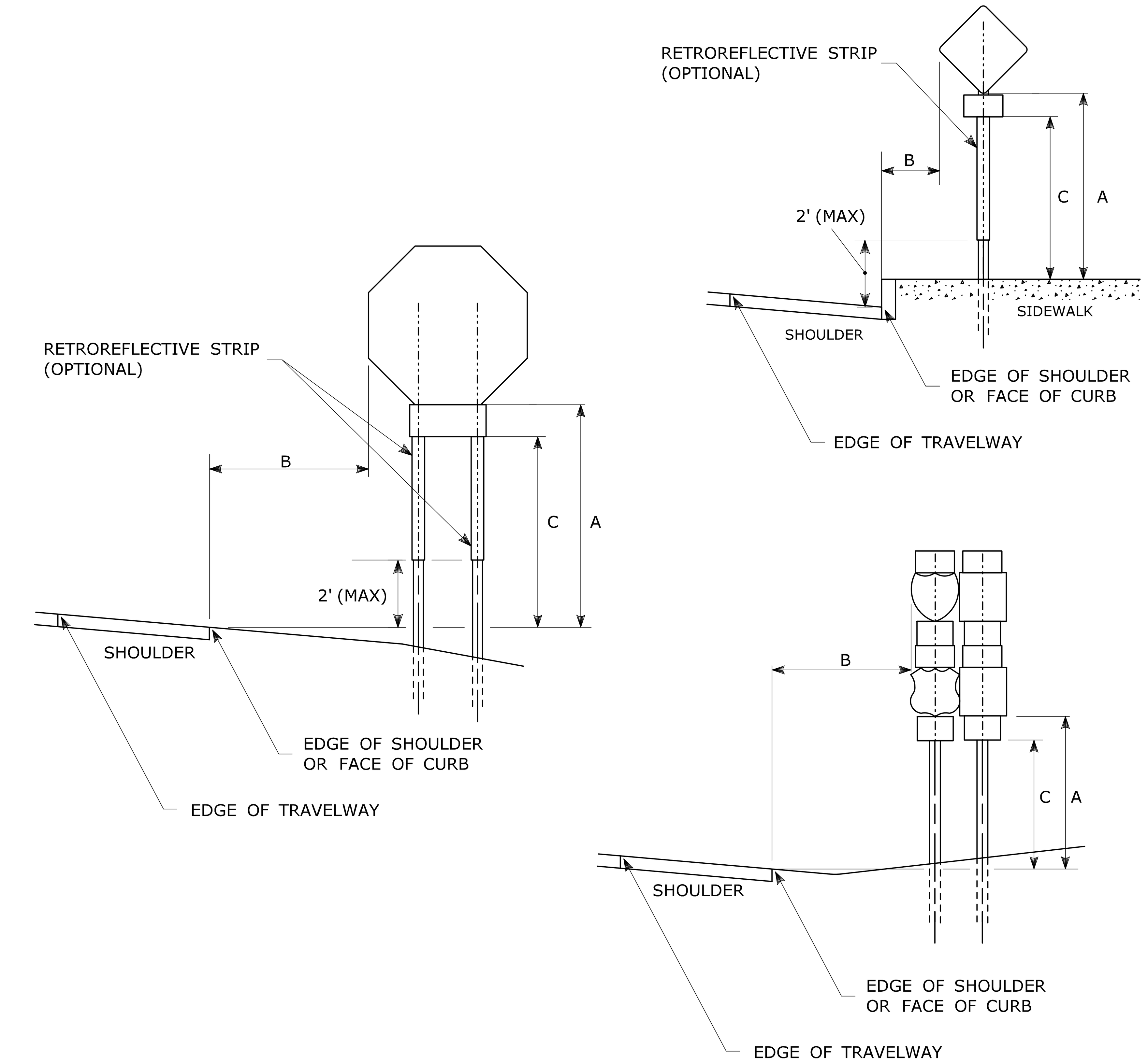


RETROREFLECTIVE STRIP DETAIL

NOTES:

RETROREFLECTIVE STRIPS WHICH ARE 48 IN LONG OR LESS SHALL BE ATTACHED USING 2 BOLTS AND RETROREFLECTIVE STRIPS OVER 48 IN LONG SHALL BE ATTACHED USING 3 BOLTS AS SHOWN ON THE DETAILS ABOVE.
REFER TO STANDARD SHEET No. TR-1208_02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS" FOR MOUNTING DETAILS.

RETROREFLECTIVE STRIP COLOR SHALL MATCH THE BACKGROUND COLOR OF THE SIGN, EXCEPT THAT THE COLOR OF THE STRIP FOR "YIELD" AND "DO NOT ENTER" SIGNS SHALL BE RED.



TYPICAL SIGN PLACEMENT DETAIL

NOTES:

ALL SIGNS AND SHIELDS ON DIRECTIONAL ASSEMBLIES SHALL ABUT VERTICALLY.

REFER TO STANDARD SHEET No. TR-1208_02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS" FOR SIGN POSTS AND SIGN MOUNTING.

IF A RETFOREFLECTIVE STRIP IS USED ON SIGN SUPPORT, IT SHALL BE PLACED FOR THE FULL LENGTH OF THE SUPPORT FROM THE BOTTOM OF THE SIGN TO WITHIN 2 FT ABOVE THE EDGE OF THE ROADWAY.

PARKING SIGNS TYPICALLY USE 45° MOUNTING BRACKET.

DIM."A" MIN SIGN HEIGHT	DIM."B" MIN LATERAL OFFSET (1)	DIM."C" MIN PLAQUE HEIGHT (1)	ASSEMBLY LOCATION
7' (2)	6' 12' (3)	5'	SIGNS ON FREEWAYS AND EXPRESSWAYS EXCEPT CHEVRON ALIGNMENT SIGNS, ONE-DIRECTION LARGE ARROW SIGNS, DO NOT ENTER SIGNS, AND WRONG WAY SIGNS
5'	2'	4'	• SIGNS IN RURAL AREAS • DO NOT ENTER AND WRONG WAY SIGNS ALONG EXIT RAMPS • DO NOT ENTER AND WRONG WAY SIGNS ON LIMITED ACCESS HIGHWAYS
5'	2'	N/A	• CHEVRON ALIGNMENT SIGNS LOCATED ON FREEWAYS, EXPRESSWAYS, RAMPS, AND IN RURAL AREAS • ONE-DIRECTION LARGE ARROW SIGNS LOCATED ON FREEWAYS, EXPRESSWAYS, RAMPS, AND IN RURAL AREAS
4'	2'	4'	CENTRAL ISLANDS OF ROUNDABOUTS
7'	2' (4)	6'	BUSINESS & RESIDENTIAL AREAS WHERE PARKING OR OTHER OBSTRUCTIONS LIMIT VISIBILITY
7'	2' (4)	7'	SIDEWALKS (5)

(1) OR AS DIRECTED BY THE ENGINEER

(2) 8 FT MINIMUM HEIGHT REQUIRED IF A SUPPLEMENTAL PLAQUE IS SUBMOUNTED BELOW THE MAJOR SIGN.

(3) 6 FT FROM EDGE OF SHOULDER, WHEN SHOULDER IS OVER 6 FT WIDE
12 FT FROM EDGE OF TRAVELWAY, WHEN SHOULDER IS LESS THAN 6 FT WIDE.

(4) A LATERAL OFFSET OF AT LEAST 1 FT FROM THE FACE OF THE CURB MAY BE USED WHERE SIDEWALK WIDTH IS LIMITED OR WHERE EXISTING UTILITY POLES ARE CLOSE TO THE CURB.

(5) A CLEAR PATH OF NOT LESS THAN 4 FT SHALL BE PROVIDED IN SIDEWALK AREAS.

REV.	DATE	REVISION DESCRIPTION
2	4-2017	MINOR REVISIONS.
1	2-2011	MINOR REVISIONS.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 4/3/2017

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: TR_1208_01-LATEST-REVISION.dgn Model: TR-1208_01

SUBMITTED BY: NAME/DATE/TIME:
Mark F. Makuch, P.E. 2017.04.19 11:09:35-04'00'

APPROVED BY: NAME/DATE/TIME:
Gregory M. Dorosh, P.E. 2017.04.20 13:14:38-04'00'

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

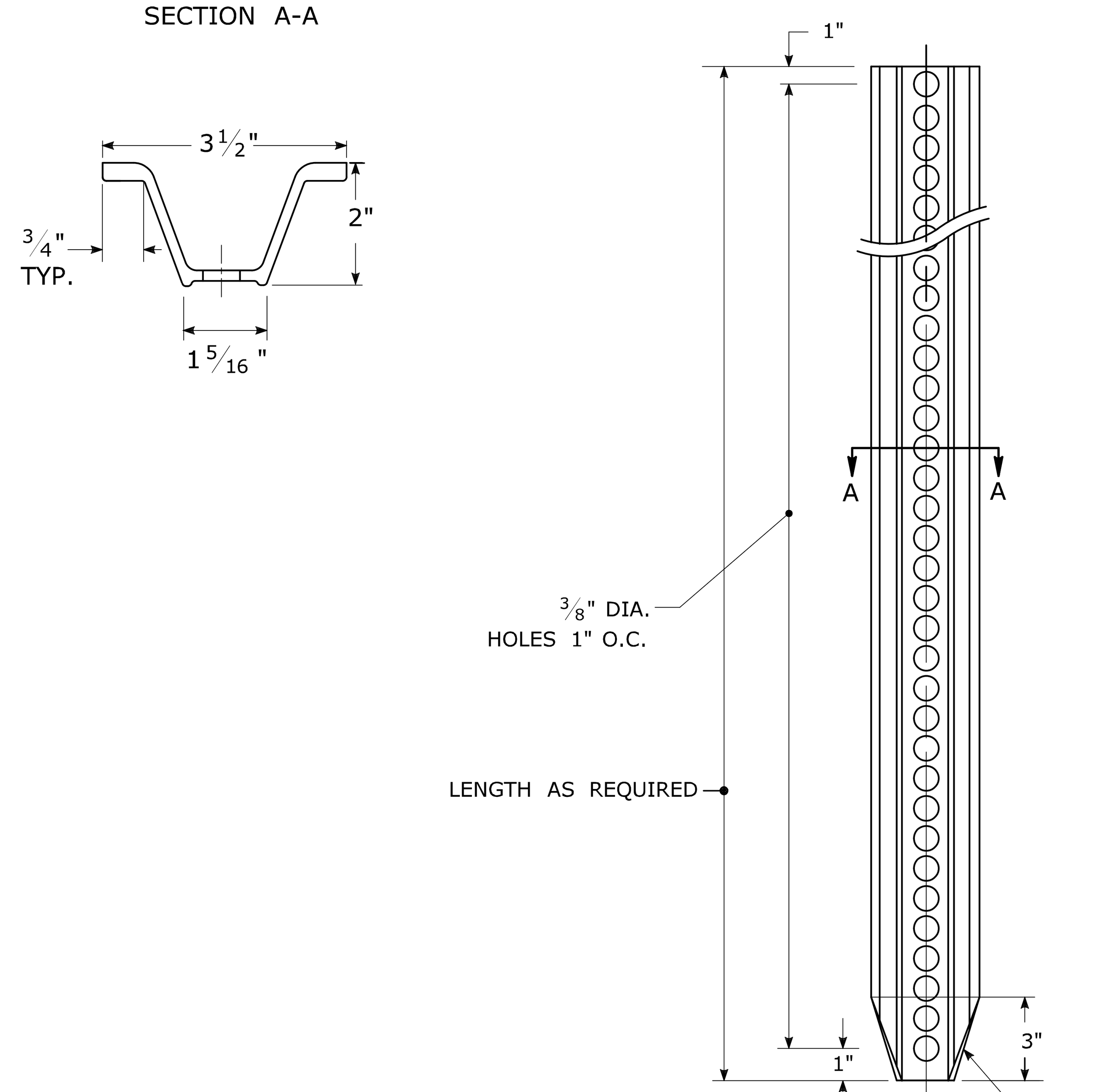
STANDARD SHEET TITLE:

SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS

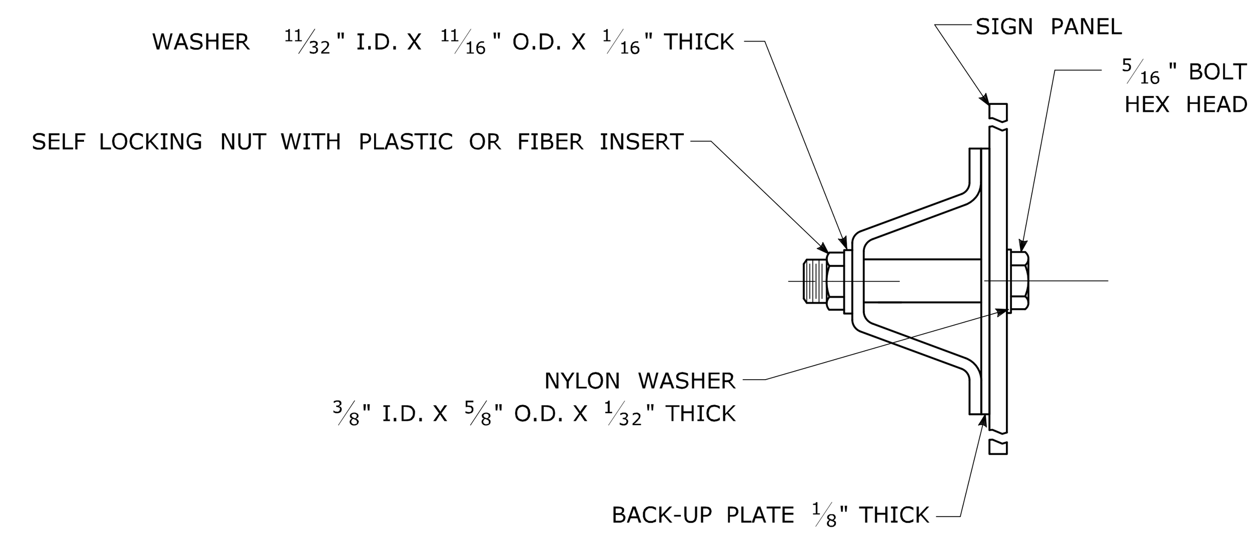
STANDARD SHEET NO.:

TR-1208_01

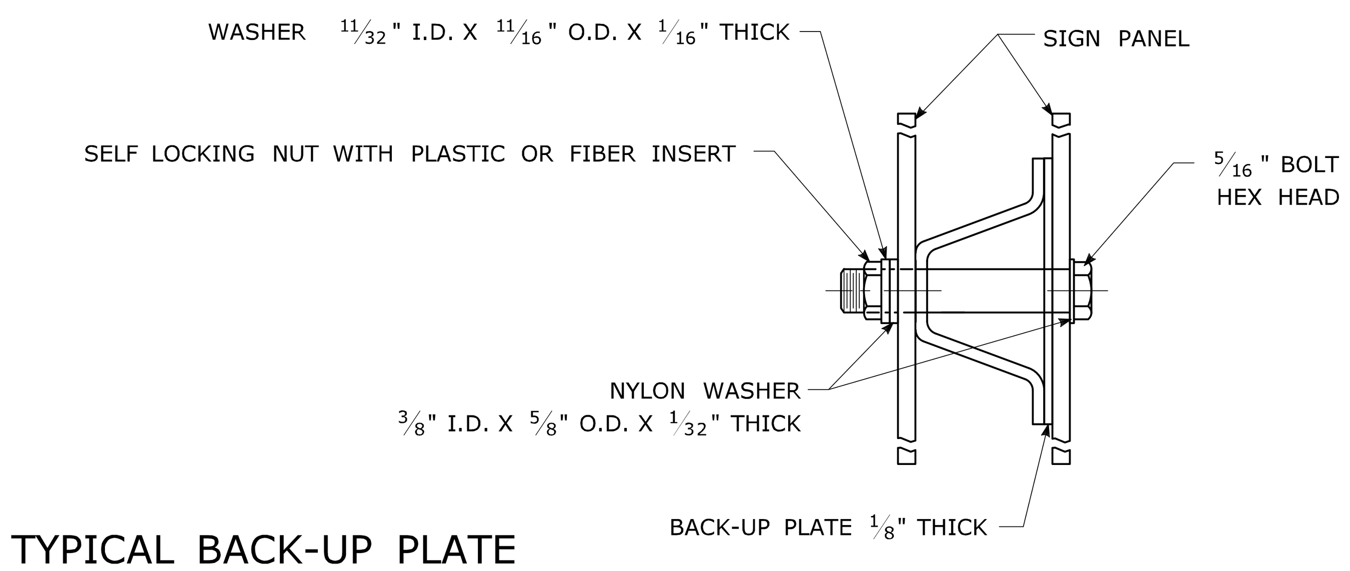
TYPICAL METAL SIGN POSTS



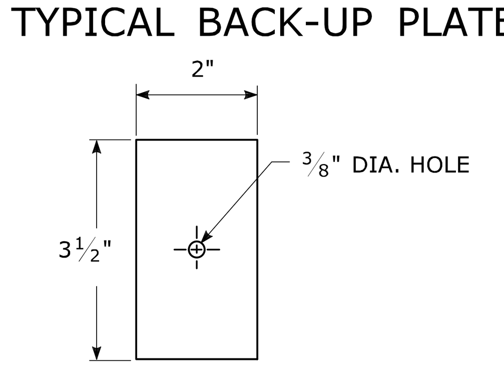
TYPICAL SIGN PANEL ATTACHMENT



TYPICAL BACK TO BACK SIGN PANEL ATTACHMENT



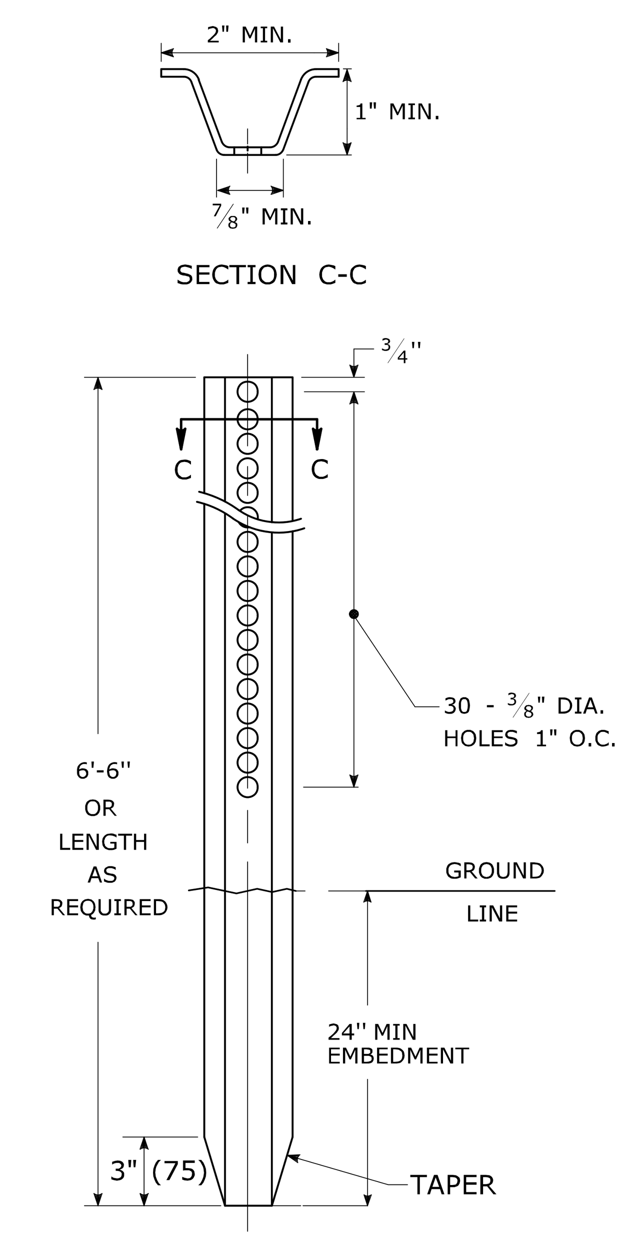
TYPICAL BACK-UP PLATE



BOLTS - STAINLESS STEEL CONFORMING TO ASTM F593, ALLOY GROUP 1 OR 2 (ALLOY TYPES 304 OR 316).
SELF LOCKING NUTS - STAINLESS STEEL CONFORMING TO ASTM F594, ALLOY GROUP 1 OR 2 (ALLOY TYPES 304 OR 316).
WASHERS - STAINLESS STEEL CONFORMING TO ASTM A240, (ALLOY TYPES 304 OR 316).

METAL DELINEATOR POST

WT./FT. = 1.12 LBS./FT. MIN.

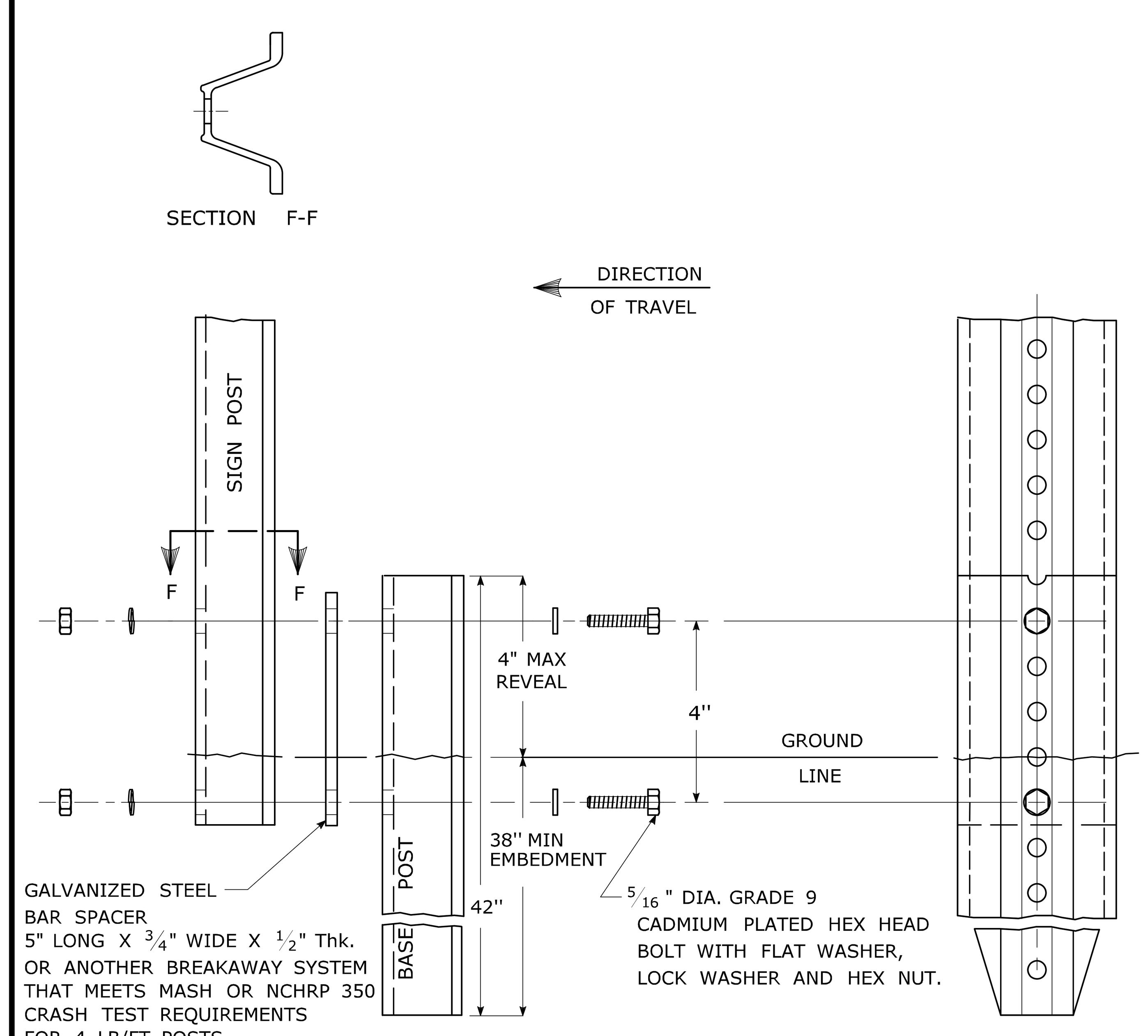


GENERAL NOTES:

1. STEEL FOR DELINEATOR POSTS SHALL BE ASTM A36 STEEL. STEEL FOR ALL OTHER POSTS SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A 499 GRADE 80 AND TO THE CHEMICAL REQUIREMENTS OF ASTM A1 CARBON STEEL TEE RAIL HAVING NOMINAL WEIGHT (MASS) OF 91 LBS. OR GREATER PER LINEAR YARD.
2. AFTER FABRICATION, ALL STEEL POSTS, STRAPS AND PLATES SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A123.
3. WASHERS FOR BREAKAWAY INSTALLATIONS SHALL MEET ASTM F436, TYPE 1.
4. SPACER BAR FOR BREAKAWAY INSTALLATION SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A36.
5. ALL BOLTS, NUTS, AND WASHERS FOR BREAKAWAY INSTALLATIONS SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A153.
6. ALL SIGN POSTS SHALL HAVE BREAKAWAY FEATURES THAT MEET AASHTO REQUIREMENTS CONTAINED IN THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS." THE BREAKAWAY FEATURES SHALL BE STRUCTURALLY ADEQUATE TO CARRY THE SIGNS SHOWN IN THE PLANS AT 60 mph WIND LOADINGS. INSTALLATIONS SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
7. SIGN POSTS SHALL BE 4 LBS./FT.

BREAKAWAY INSTALLATION

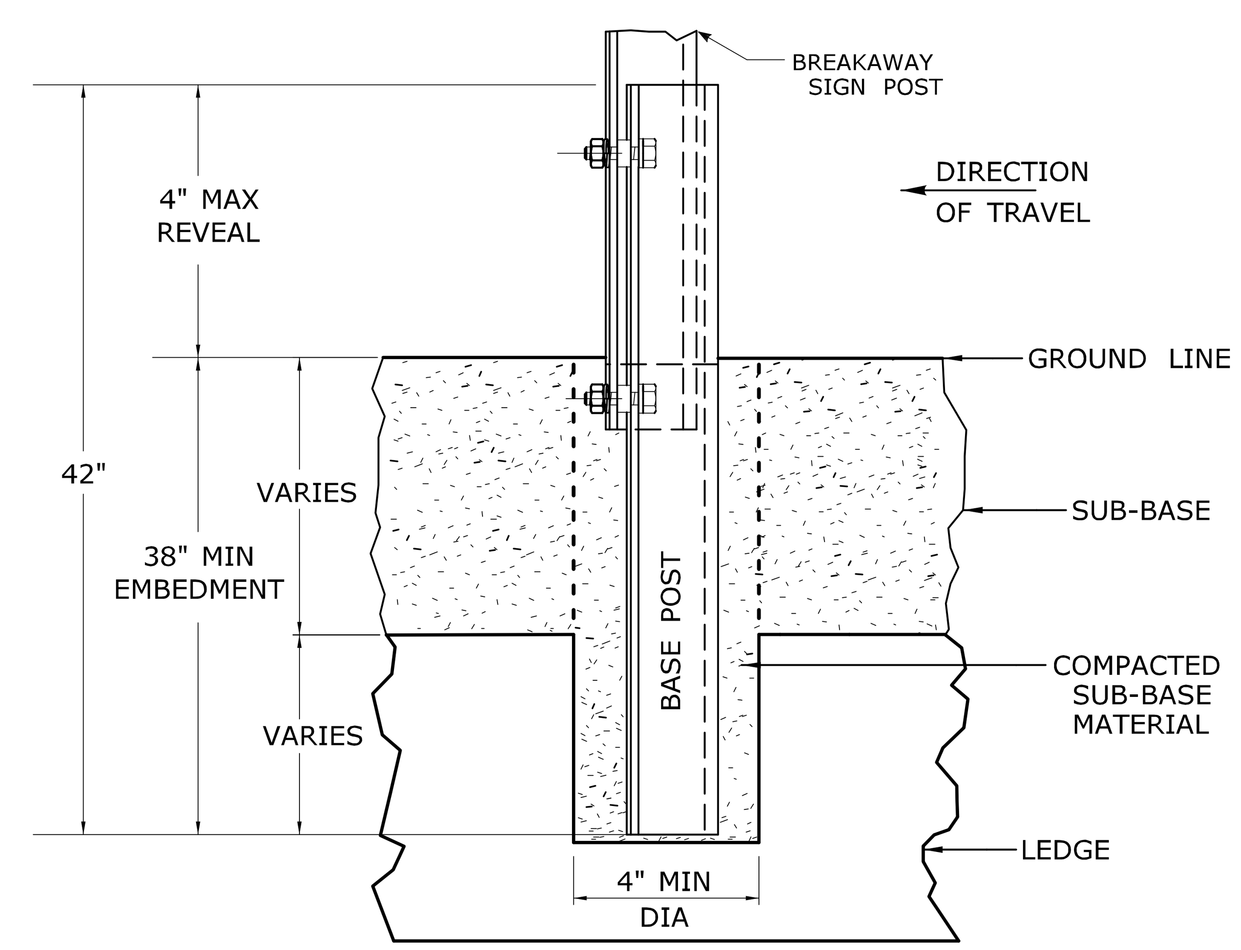
FOR 4 LBS./FT. POSTS



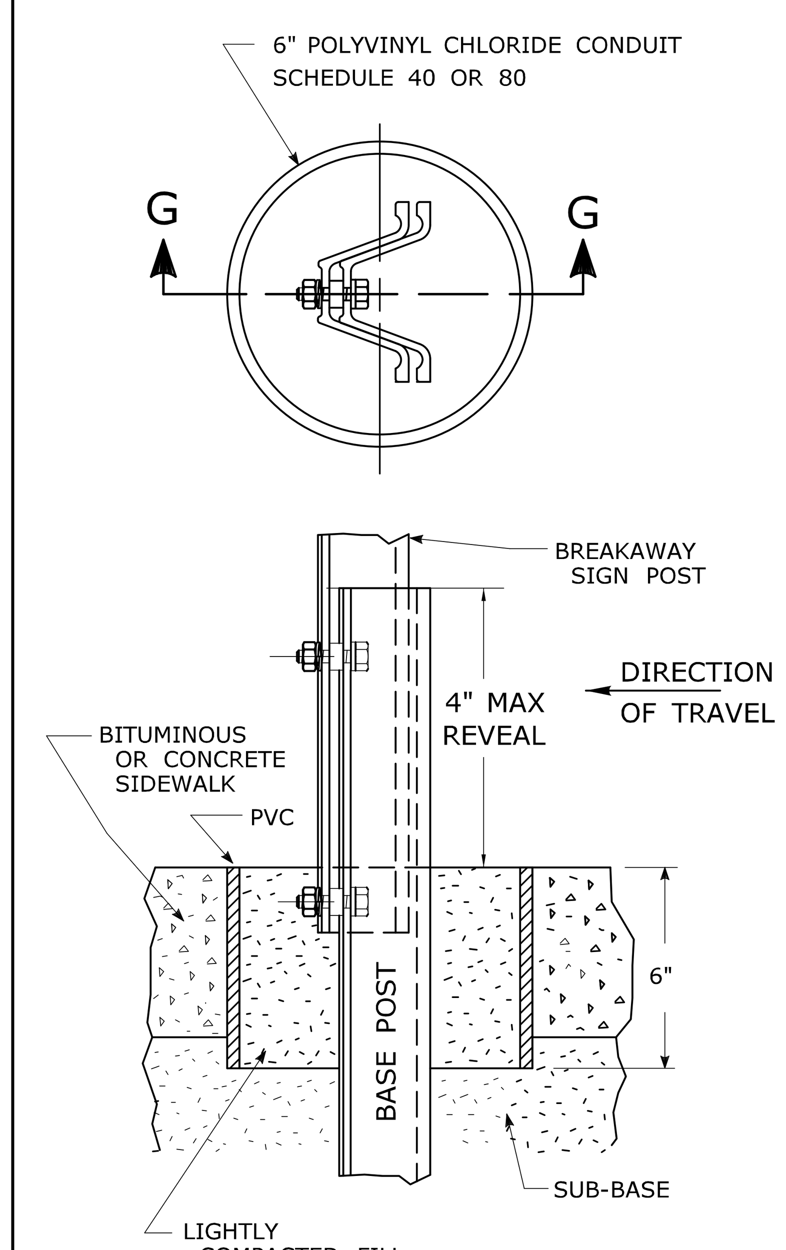
TYPICAL SIGN POST INSTALLATION IN LEDGE

LEDGE SHALL BE REMOVED TO DRIVE THE BASE POST TO A DEPTH OF 38".

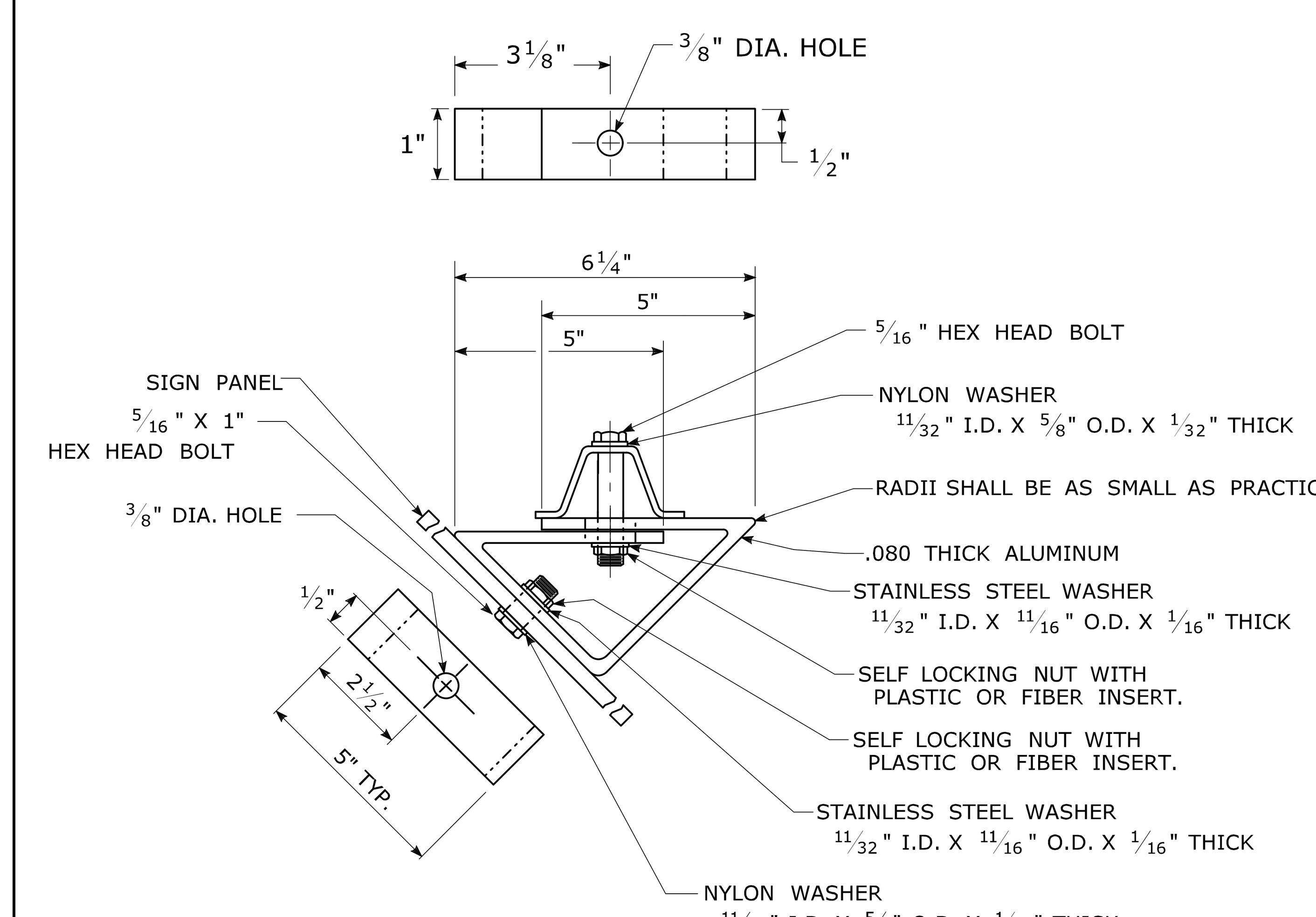
HOLE SHALL BE FILLED WITH SUB-BASE MATERIAL AND COMPACTED WITH A TAMPING BAR, OR TECHNIQUE APPROVED BY THE ENGINEER, PRIOR TO BASE POST INSTALLATION.



TYPICAL SLEEVE FOR PAVED AREAS



45° MOUNTING BRACKET FOR INSTALLATION OF PARKING SIGNS



REV.	DATE	REVISION DESCRIPTION
2	6-2017	SIGN POST REVISIONS.
1	2-2011	MINOR REVISIONS.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 6/6/2017

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: TR-1208-02-May-2017-Revision.dgn Model: TR-1208-02

SUBMITTED BY: NAME/DATE/TIME:
Mark F. Makuch, P.E. 2017.06.07 07:30:30-04'00'
Mary E. Baker, P.E. 2017.06.13 15:28:14-04'00'
APPROVED BY: NAME/DATE/TIME:
Gregory M. Dorosh, P.E. 2017.06.15 09:27:29-04'00'

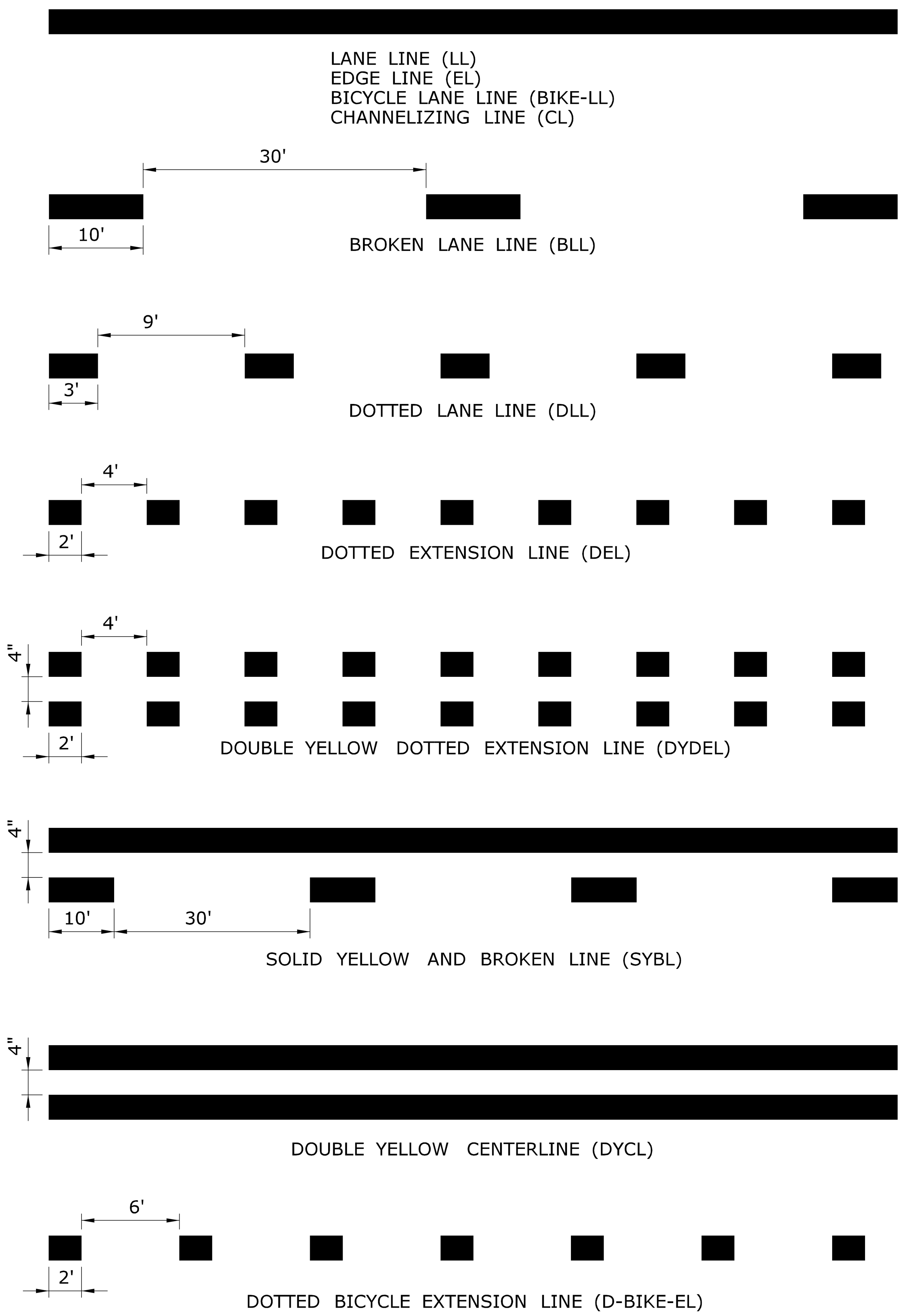
CTDOT STANDARD SHEET

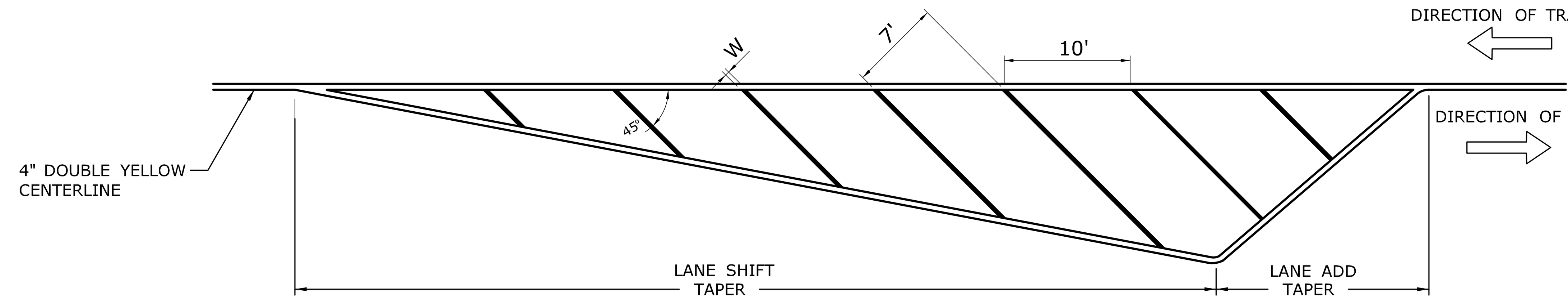
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

METAL SIGN POSTS AND SIGN MOUNTING DETAILS

GUIDE SHEET NO.: **TR-1208_02**

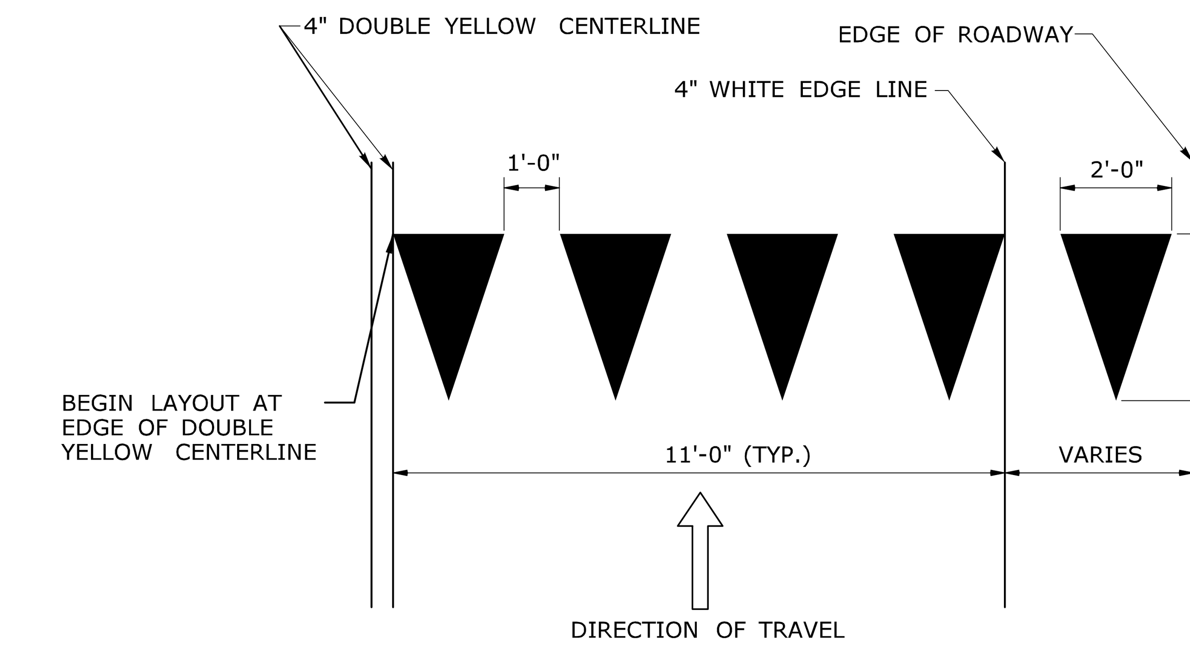




CROSS HATCHED ISLAND DETAIL

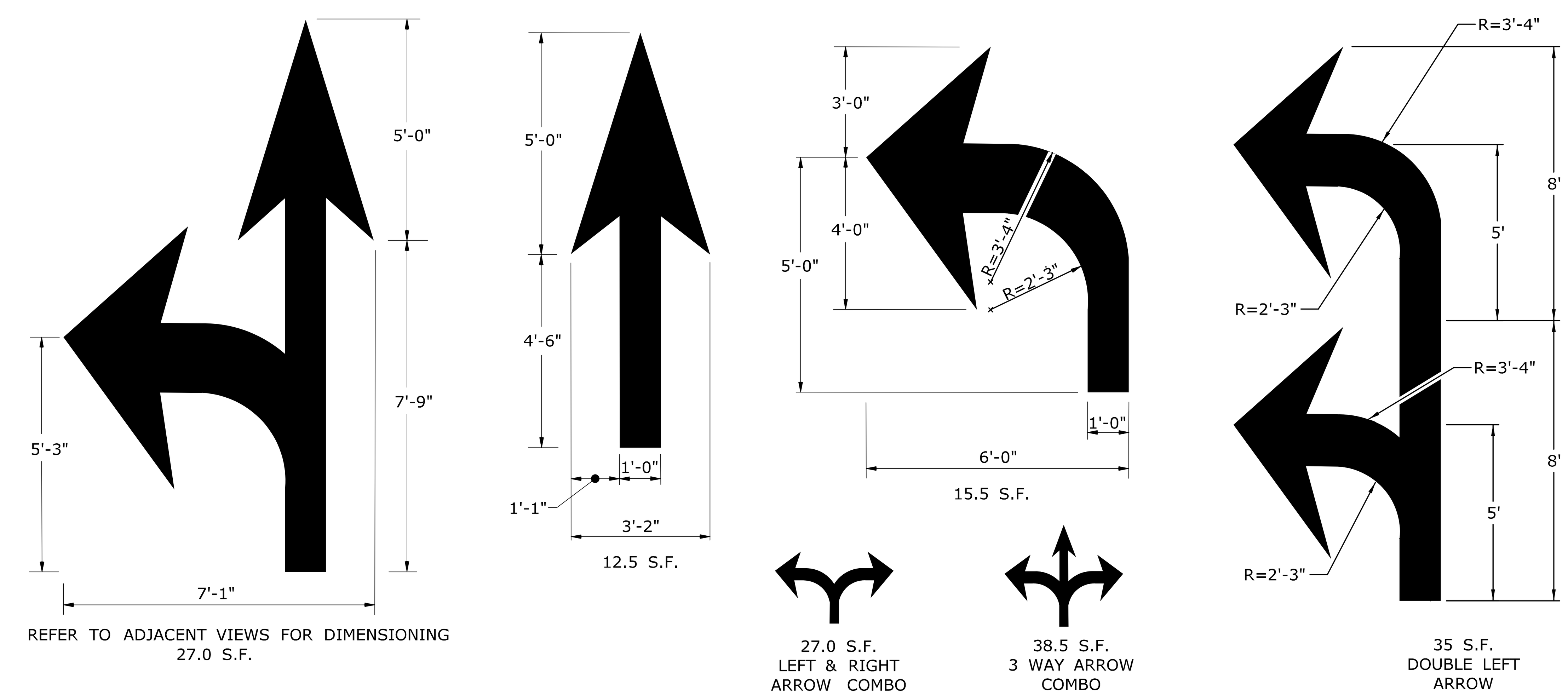
(YELLOW)

W IS TO BE 6" WHEN POSTED SPEED ≤ 45 MPH
W IS TO BE 12" WHEN POSTED SPEED > 45 MPH
CROSS HATCHED ISLANDS ARE TO BE INSTALLED WHERE CALLED FOR ON THE PLANS



YIELD LINE DETAIL

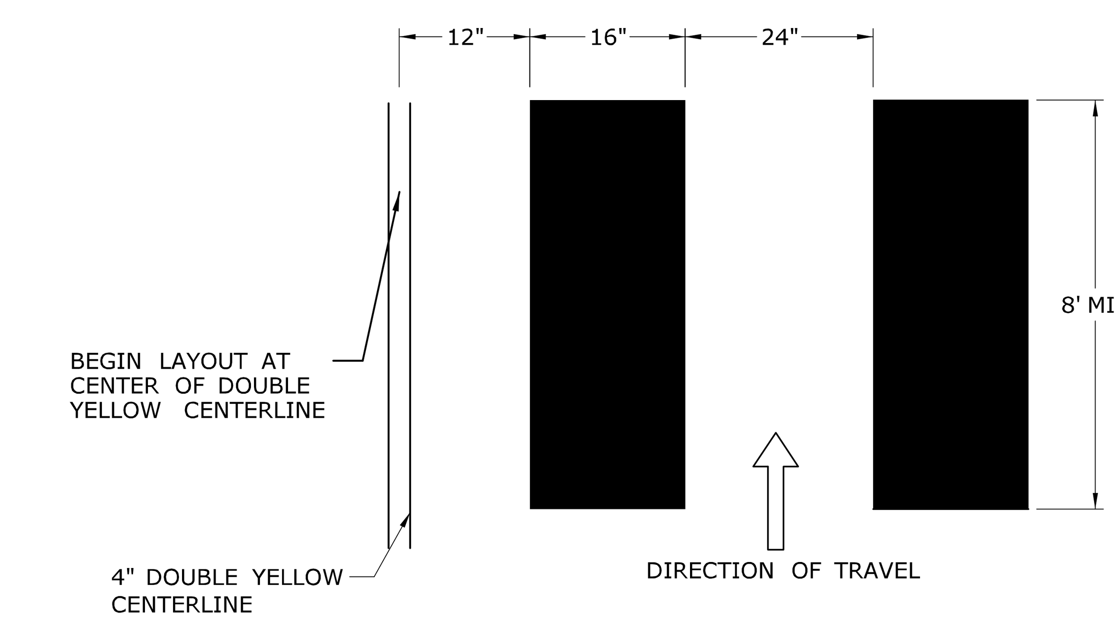
(WHITE)



PAVEMENT ARROW DETAILS

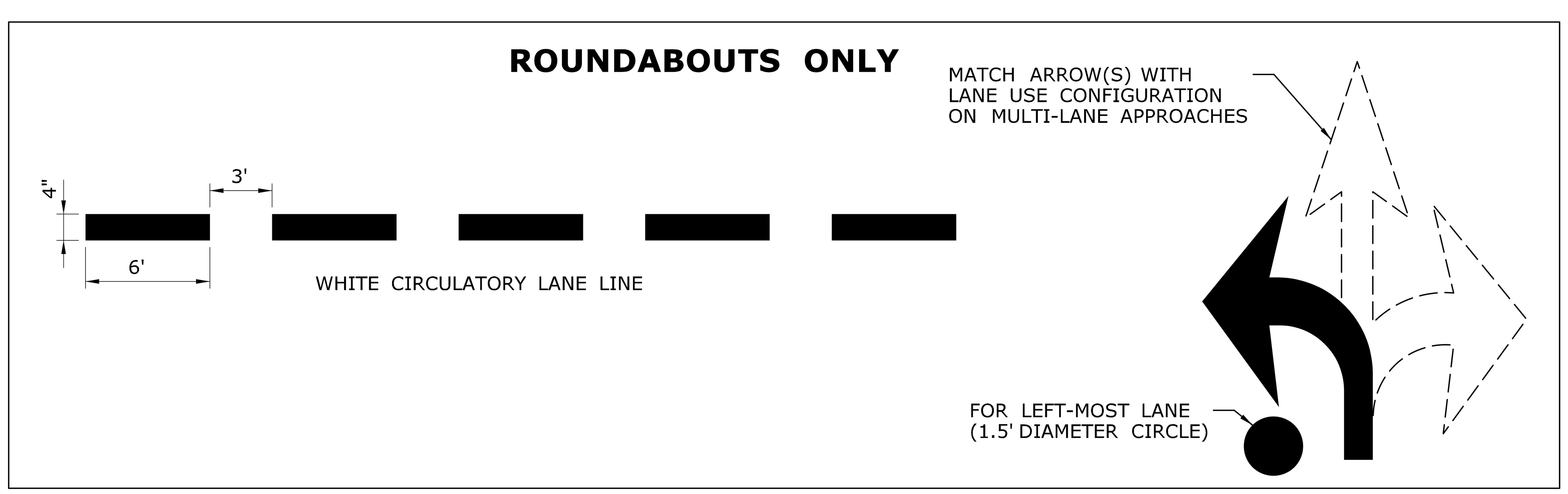
(WHITE)

ARROWS SHALL BE CENTERED IN TRAVEL LANE



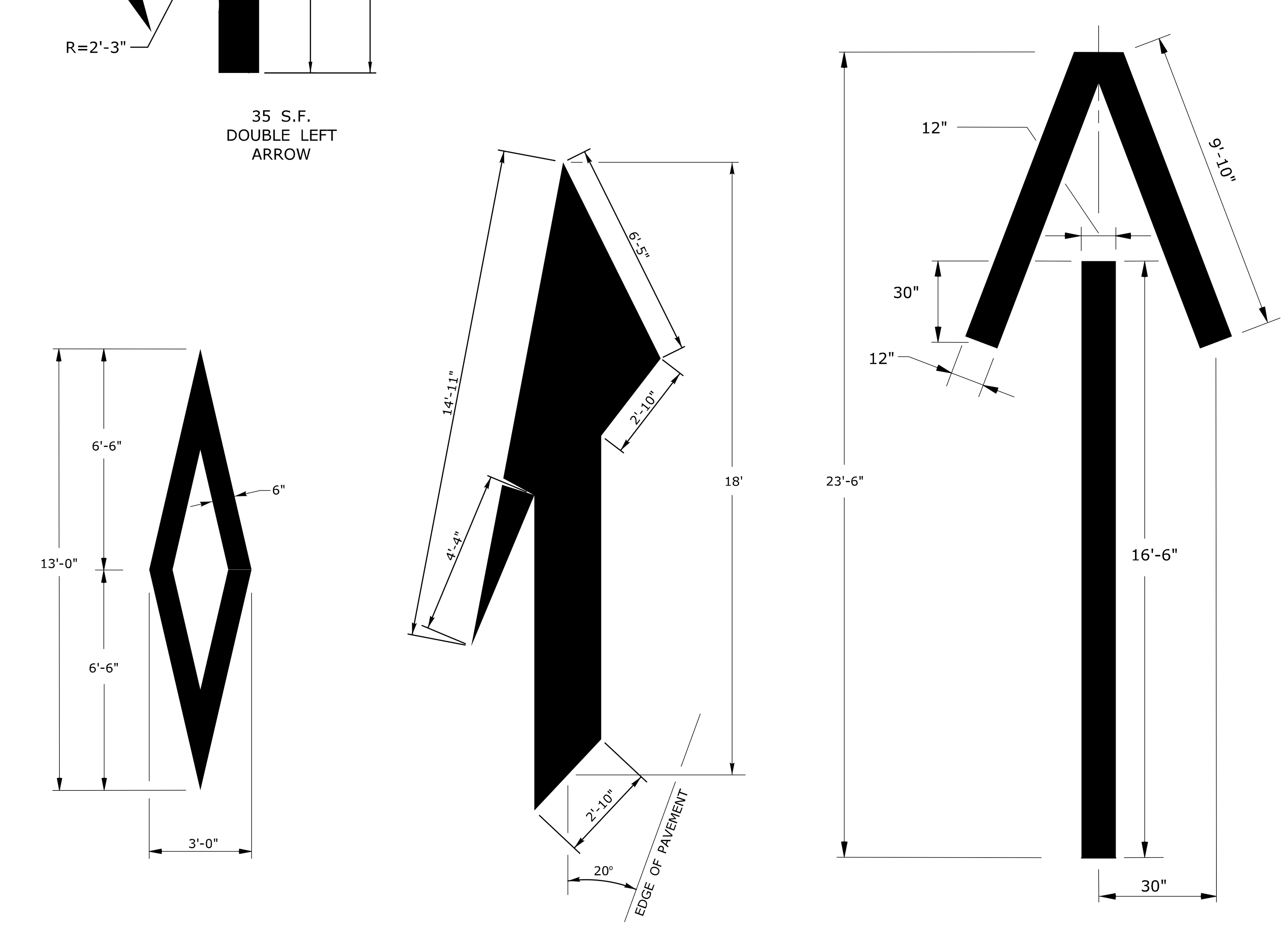
CROSSWALK DETAIL

(WHITE)



NOTES :

1. AREA OF PAVEMENT MARKINGS AS INDICATED IS APPROXIMATE.
2. RIGHT TURN PAVEMENT MARKING ARROWS ARE MIRROR IMAGE OF LEFT TURN PAVEMENT MARKING ARROWS.



WHITE PREFERENTIAL LANE SYMBOL
13.0 S.F.

WHITE LANE REDUCTION ARROW
41.8 S.F.

WHITE WRONG WAY PAVEMENT ARROW
36.2 S.F.

REV.	DATE	REVISION DESCRIPTION

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Plotted Date: 4/3/2017

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: TR-1210-04.dgn Model: CT-Civil-2D-Sheet

SUBMITTED BY: NAME/DATE/TIME:
Mark F. Makuch, P.E.
2017.04.19
11:11:04-04'00'

APPROVED BY: NAME/DATE/TIME:
Gregory M. Dorosh, P.E.
2017.04.20
13:16:12-04'00'

CTDOT
STANDARD SHEET

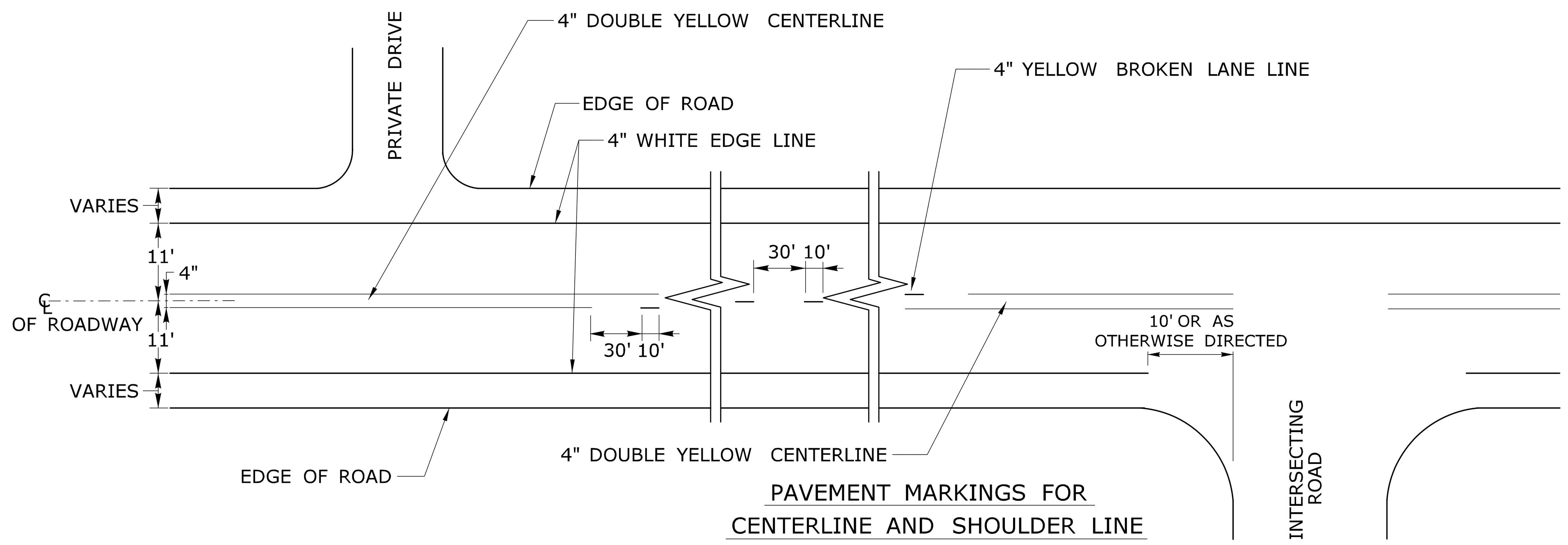
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

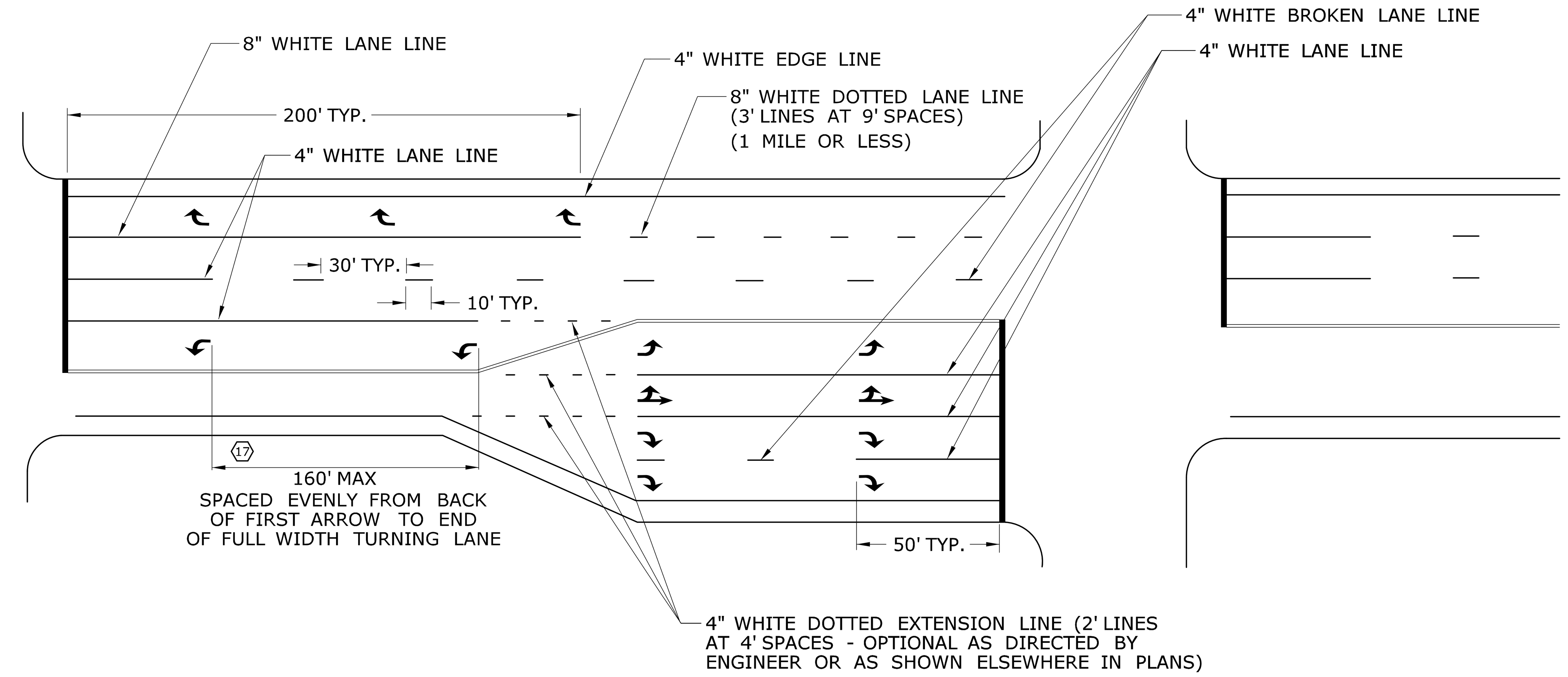
PAVEMENT MARKING
LINES AND SYMBOLS

STANDARD SHEET NO.:

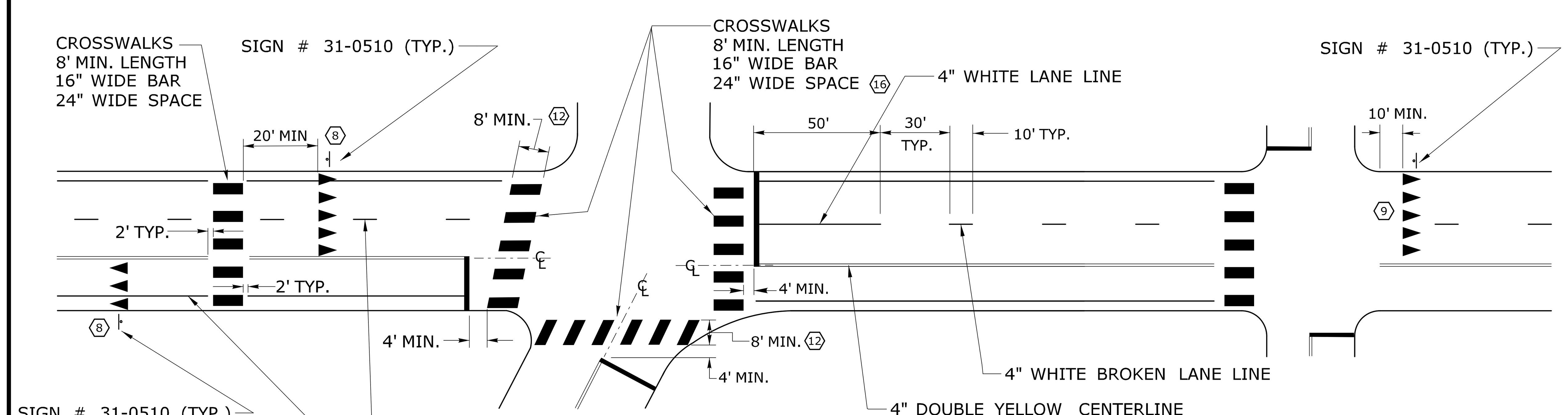
TR-1210_04



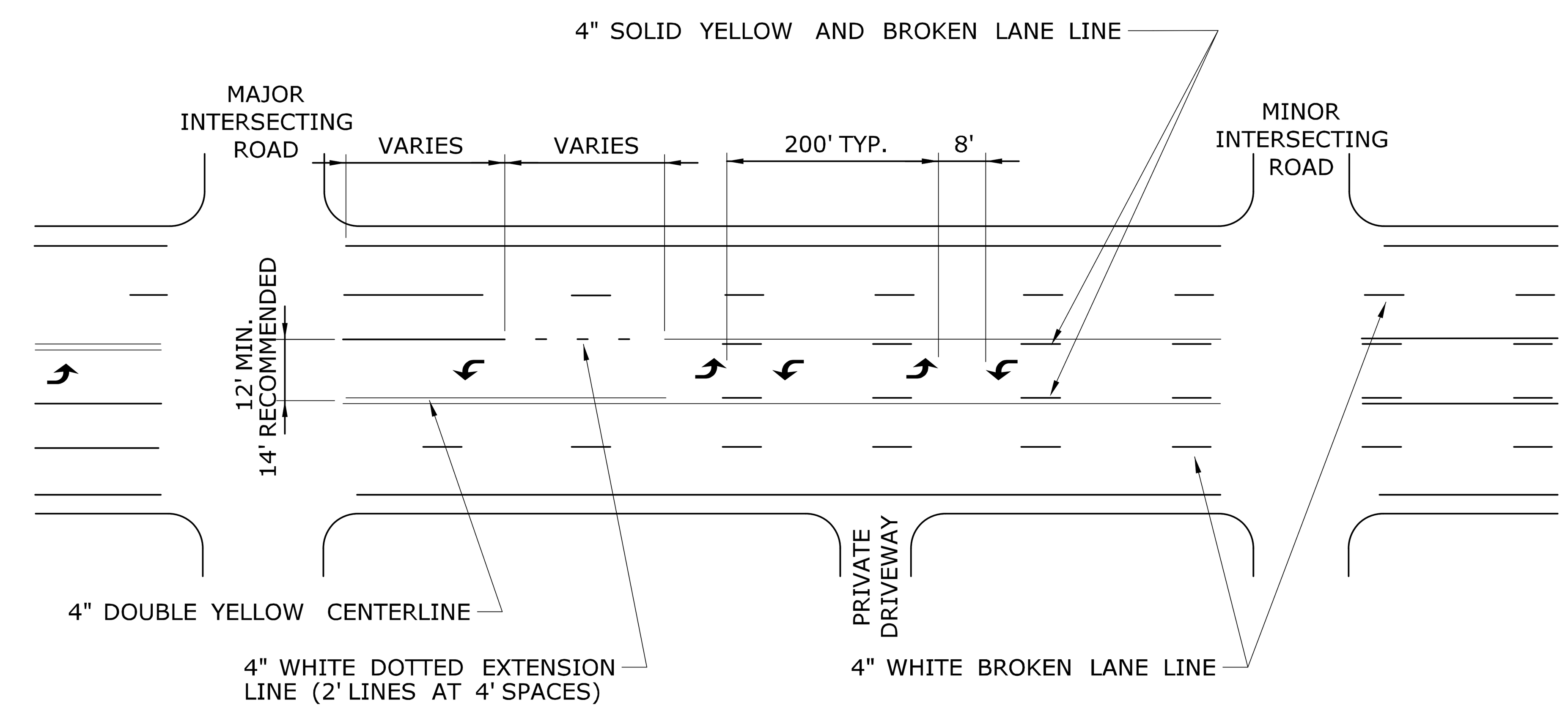
PAVEMENT MARKINGS FOR CENTERLINE AND SHOULDER LINE



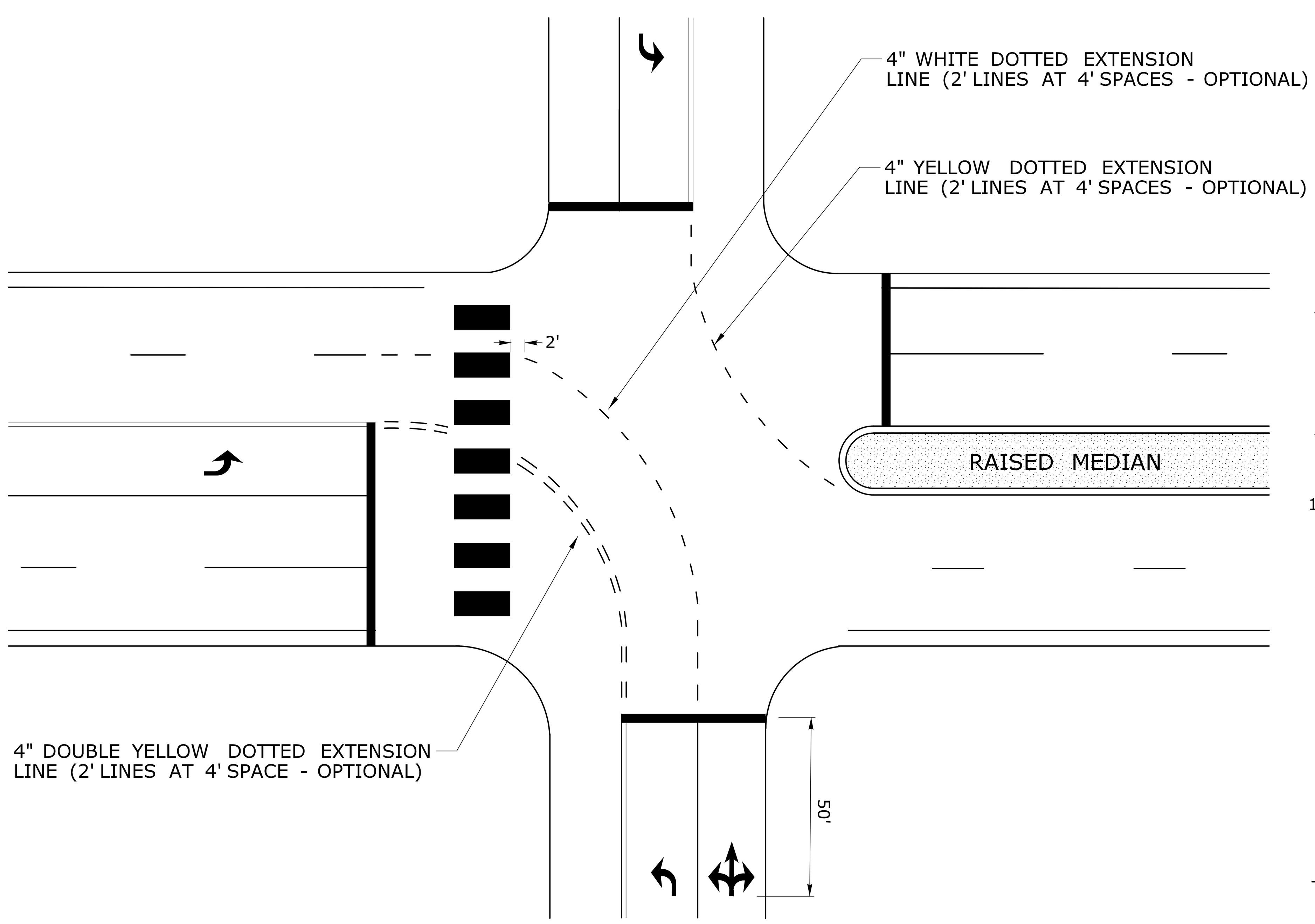
PAVEMENT MARKINGS FOR TURNING LANES AND ROAD LANE-DROP



PAVEMENT MARKINGS FOR STOP BARS, YIELD LINES, AND CROSSWALKS



TWO-WAY LEFT-TURN MARKINGS APPLICATIONS



TURNING EXTENSIONS

NOTES:

STOP BARS AND YIELD LINES

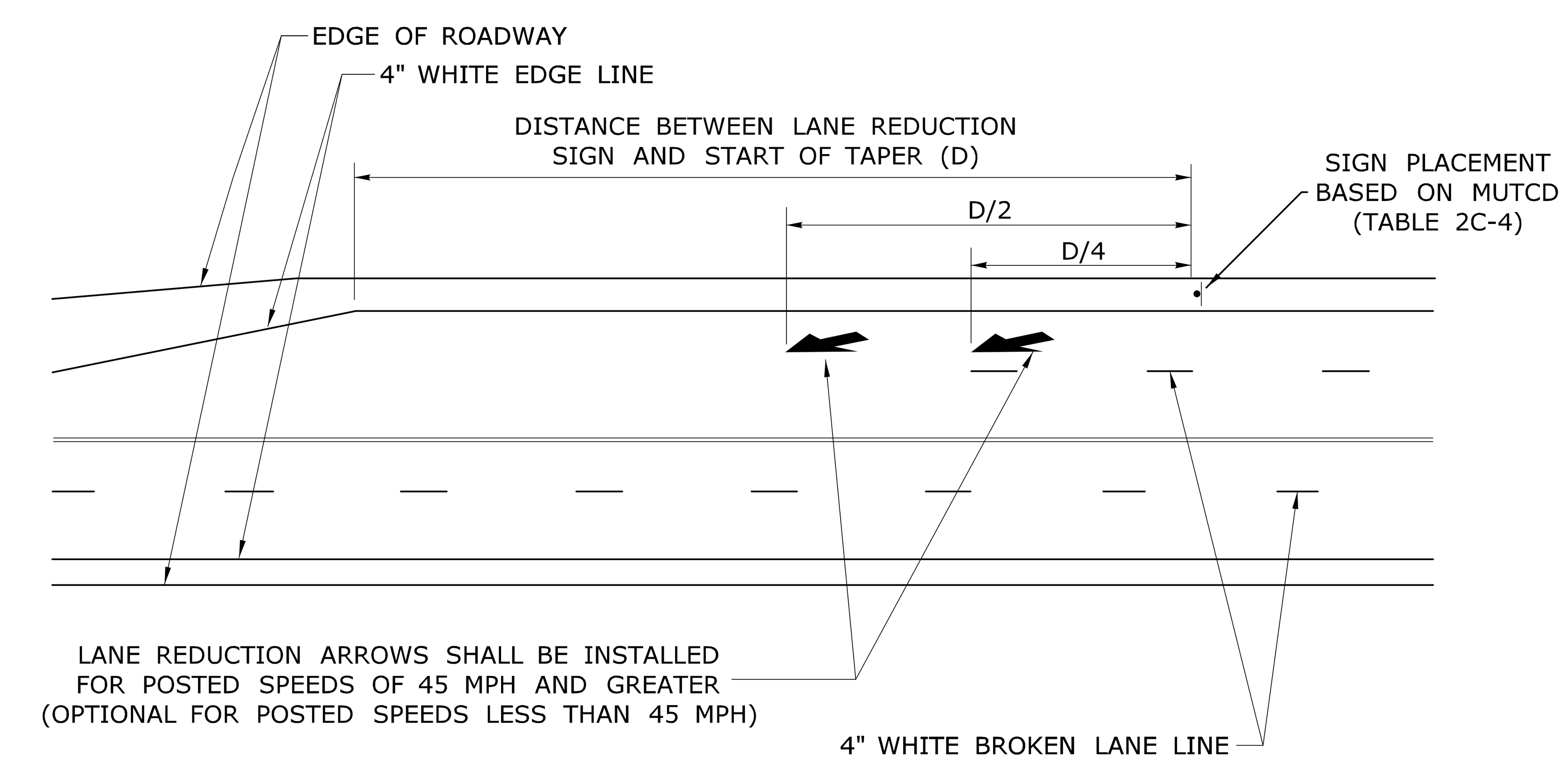
1. STOP BARS AND YIELD LINES SHALL BE WHITE.
2. STOP BARS SHALL BE 12" MIN. UNLESS OTHERWISE NOTED ON PLANS.
3. STOP BARS TO BE PLACED A MINIMUM OF 4' IN ADVANCE OF THE NEAREST EDGE OF CROSSWALK AND SHOULD BE PLACED 90° TO THE CENTERLINE OF THE ROADWAY.
4. IN THE ABSENCE OF A MARKED CROSSWALK THE STOP BAR SHOULD BE PLACED 90° TO THE CENTERLINE OF THE ROADWAY, AT THE DESIRED STOPPING POINT AT LEAST 5' AND NO MORE THAN 30' FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY.
5. THE STOP SIGN SHOULD BE PLACED IN LINE WITH THE STOP BAR. HOWEVER, IF THE STOP SIGN CANNOT BE LOCATED EXACTLY WHERE VEHICLES ARE EXPECTED TO STOP, THE STOP BAR SHOULD BE PLACED AT THE STOPPING POINT.
6. FOR STOP BARS AT RAMPS SEE DETAILS "R", "S", "T", & "U" AND NOTES ON TRAFFIC STANDARD SHEET TR-1210 07 "PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS EXIT RAMPS".
7. FOR YIELD LINE INSTALLATIONS, ONLY FULL TRIANGLES ARE TO BE INSTALLED.
8. MID-BLOCK CROSSWALKS ARE CROSSWALKS LOCATED MORE THAN 50 FEET FROM A SIGNALIZED OR UNSIGNALIZED INTERSECTION. YIELD LINES ASSOCIATED WITH MIDBLOCK CROSSWALKS SHOULD BE INSTALLED 20 TO 50 FEET IN ADVANCE OF THE NEAREST CROSSWALK LINE OR AS DIRECTED BY THE ENGINEER. SIGN # 31-0510 IS REQUIRED.
9. FOR CROSSWALKS AT UNSIGNALIZED INTERSECTIONS WITH MINOR STREET STOP CONTROL, YIELD LINES SHALL BE INSTALLED ON MULTI-LANE APPROACHES, BUT NOT SINGLE LANE APPROACHES.
10. THE YIELD SIGN SHOULD BE PLACED IN LINE WITH A YIELD LINE. HOWEVER, IF THE YIELD SIGN CANNOT BE LOCATED EXACTLY WHERE VEHICLES ARE EXPECTED TO YIELD, THE YIELD LINE SHOULD BE PLACED AT THE YIELDING POINT.

CROSSWALKS

11. CROSSWALK MARKINGS SHALL BE WHITE.
12. AT LOCATIONS WHERE THE CROSSWALK IS SKEWED, BARS TO BE PARALLEL TO ℄ AND ENDS OF BARS TO BE PARALLEL. THE LENGTH OF THE BARS WILL VARY DEPENDING ON THE ANGLE OF SKEW.
13. BARS SHOULD BE NO CLOSER THAN 1' FROM EDGE OF ROAD.
14. ONLY FULL LENGTH BARS ARE TO BE INSTALLED.
15. DECORATIVE CROSSWALKS SHALL BE BANDED FROM CURB TO CURB WITH A MINIMUM 12" WIDE WHITE TRANSVERSE LINE ALONG EACH EDGE.
16. 24" WIDE SPACE TO BE CENTERED ON YELLOW CENTERLINE.

PAVEMENT MARKINGS FOR TURNING LANES

17. INSTALL AT LEAST TWO ARROWS PER LANE WHERE STORAGE LENGTH IS GREATER THAN 150 FEET.



LANE REDUCTION TRANSITIONS

REV. DATE REVISION DESCRIPTION

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Plotted Date: 4/3/2017

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: TR-1210_08.DGN Model: TR-1210_05

SUBMITTED BY: NAME/DATE/TIME:
Mark F. Makuch, P.E. 2017.04.19 11:14:11-04'00'

APPROVED BY: NAME/DATE/TIME:
Gregory M. Dorosh, P.E. 2017.04.20 13:25:03-04'00'

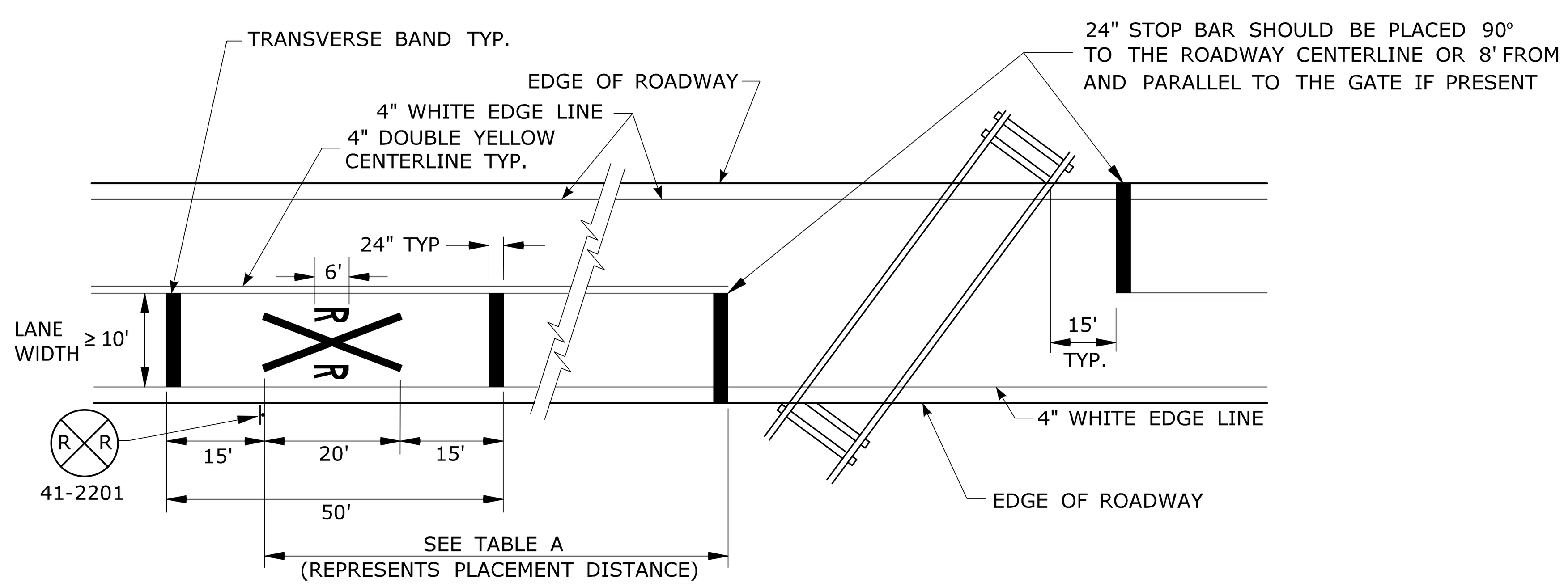
CTDOT
STANDARD SHEET

OFFICE OF ENGINEERING

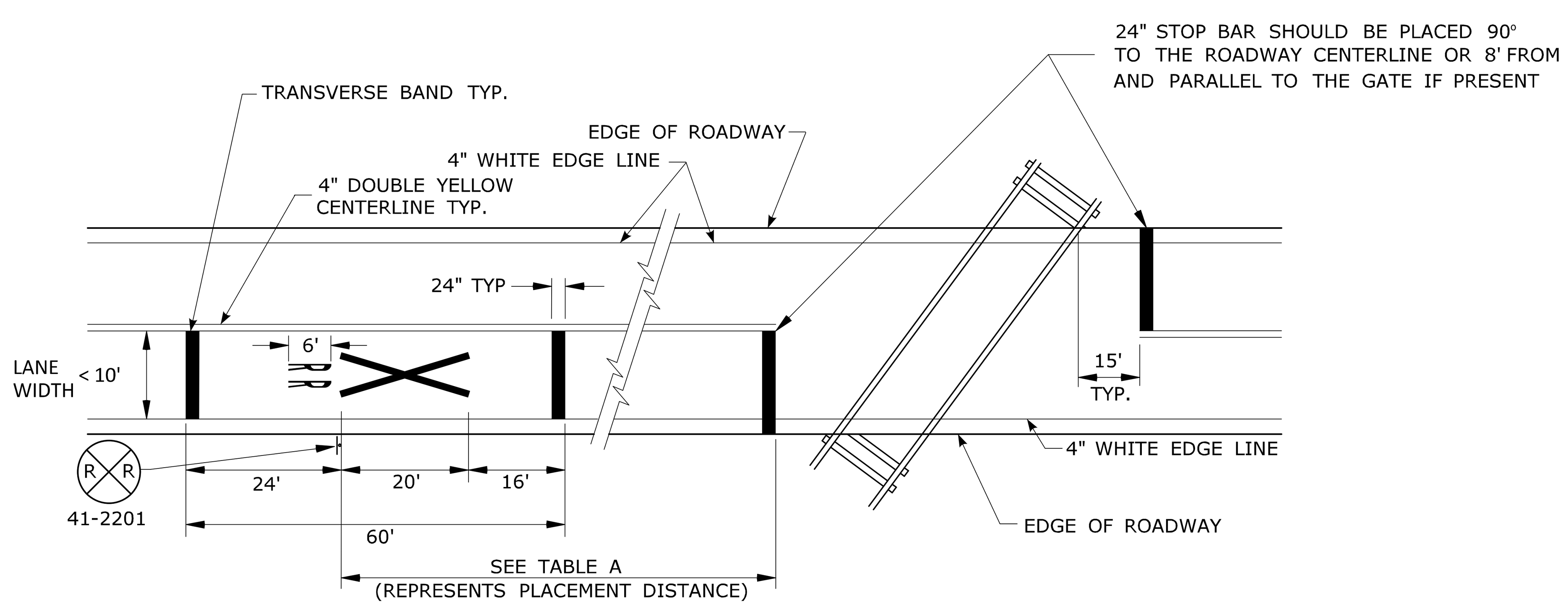
STANDARD SHEET TITLE:
PAVEMENT MARKINGS FOR NON FREEWAYS

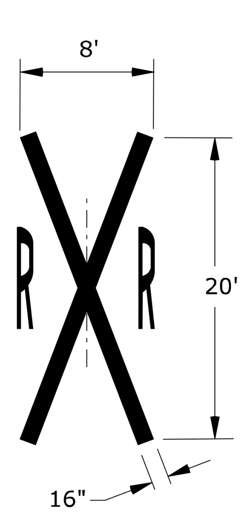
STANDARD SHEET NO.:
TR-1210_08

TYPICAL RAILROAD GRADE CROSSING DETAIL (LANE WIDTH ≥ 10')

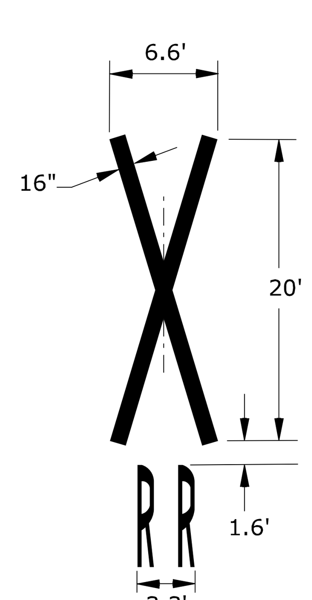


TYPICAL RAILROAD GRADE CROSSING DETAIL (LANE WIDTH < 10')

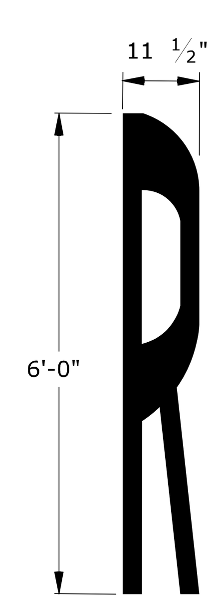




67.5 S.F.



67.5 S.F.



5.75 S.F.

TABLE A

POSTED OR 85 PERCENTILE SPEED M.P.H.	MINIMUM DISTANCE FT.
20	100
25	100
30	100
35	100
40	125
45	175
50	250
55	325
60	400
65	475

NOTES:

GENERAL:

1. AREA OF PAVEMENT MARKING SYMBOLS AS INDICATED IS APPROXIMATE.
2. REFER TO STANDARD SHEET TR-1210_04 FOR PAVEMENT MARKING LINE DETAILS.

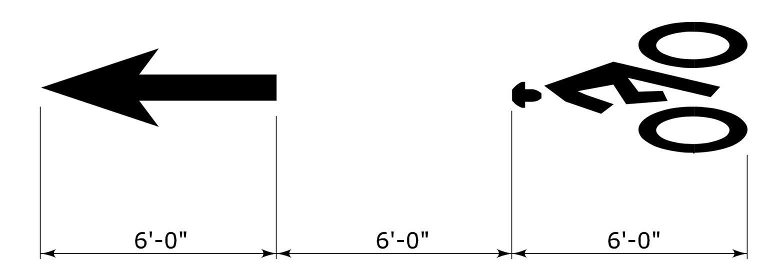
RAILROAD GRADE CROSSINGS:

3. RAILROAD MARKINGS SHALL BE WHITE.
4. ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS THE APPROACH LANES AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.

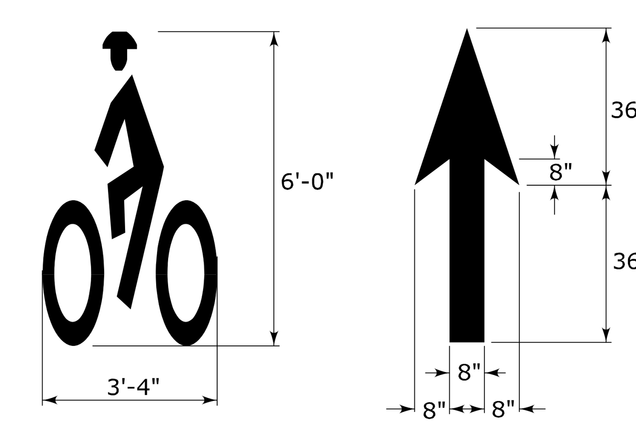
PARKING STALLS:

5. AUTOMOBILE ACCESSIBLE PARKING SPACES SHALL BE 15' WIDE INCLUDING 5' OF CROSSHATCH.
6. VAN ACCESSIBLE PARKING SPACES SHALL BE 16' WIDE INCLUDING 8' OF CROSSHATCH.
7. ACCESS AISLES FOR ANGLED VAN PARKING SPACES SHALL BE LOCATED ON THE PASSENGER SIDE OF THE PARKING SPACE.
8. CROSS HATCHED ACCESS AISLES SHALL NOT BE SHARED BETWEEN PARKING SPACES.

TYPICAL LONGITUDINAL SPACING

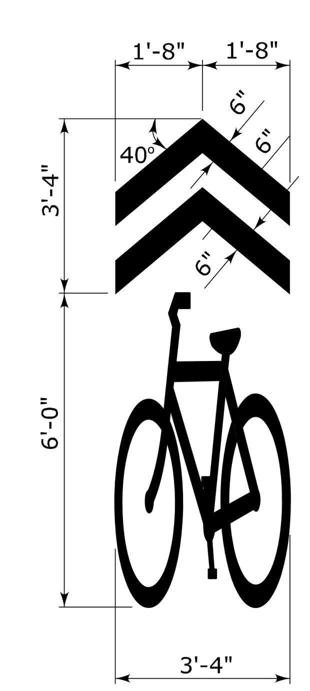


BICYCLE LANE SYMBOL MARKINGS



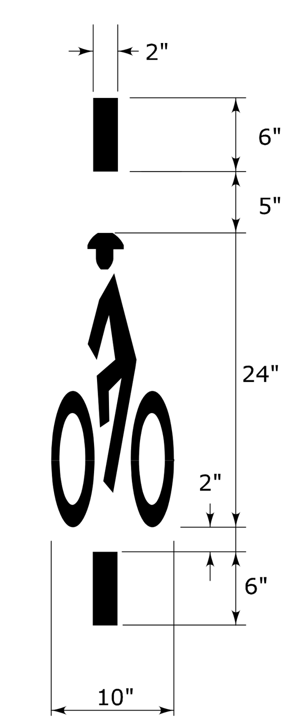
5.8 S.F.   4.7 S.F.

SHARED LANE SYMBOL MARKING



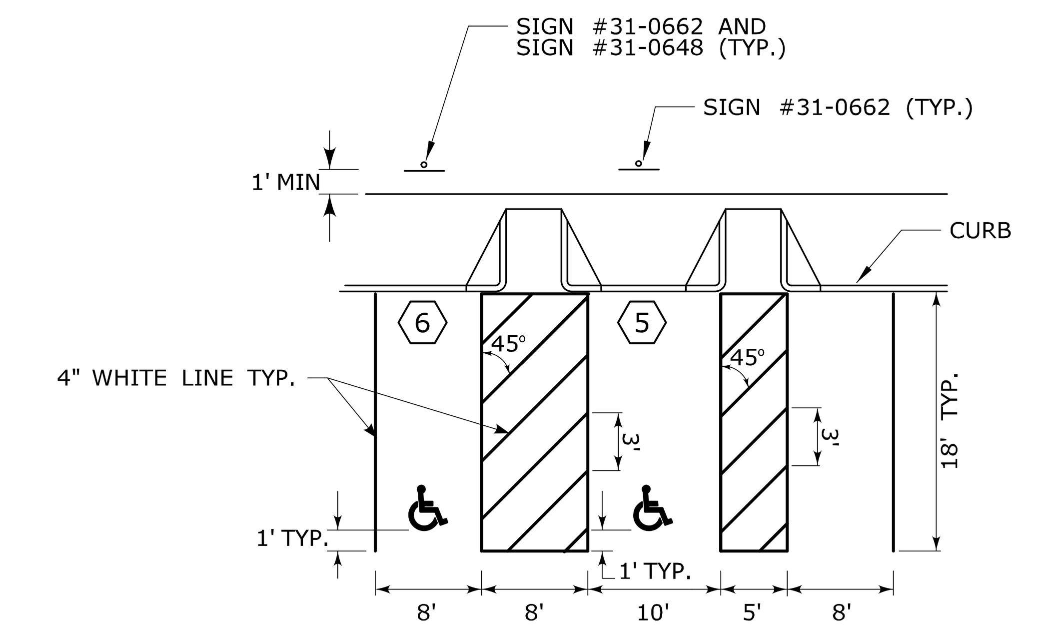
9.7 S.F.

BICYCLE DETECTOR SYMBOL MARKING

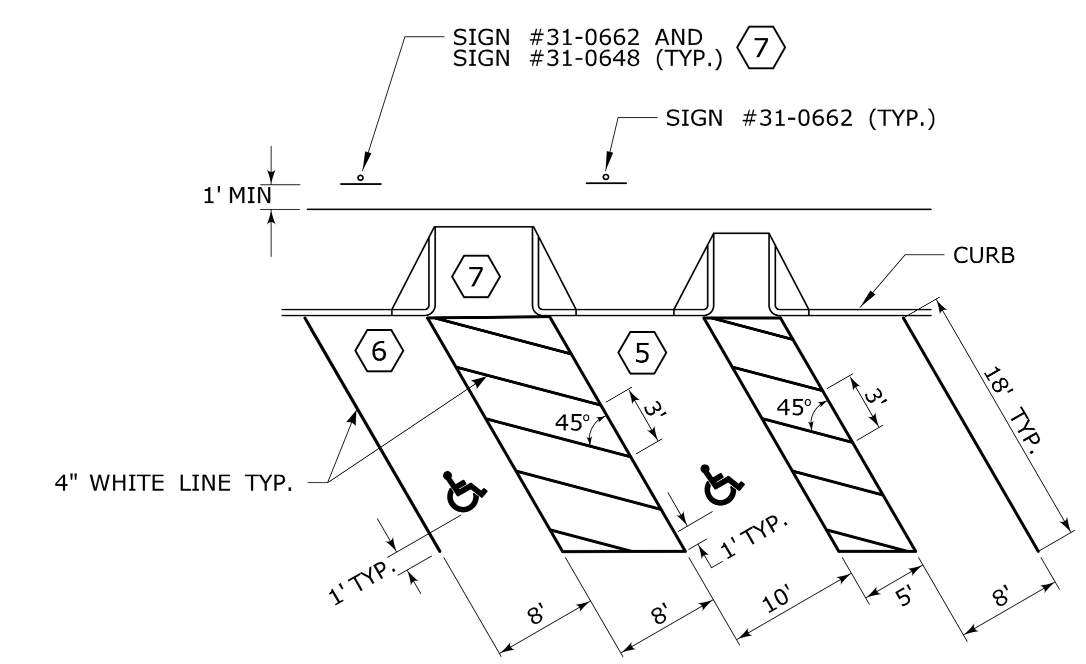


0.7 S.F.

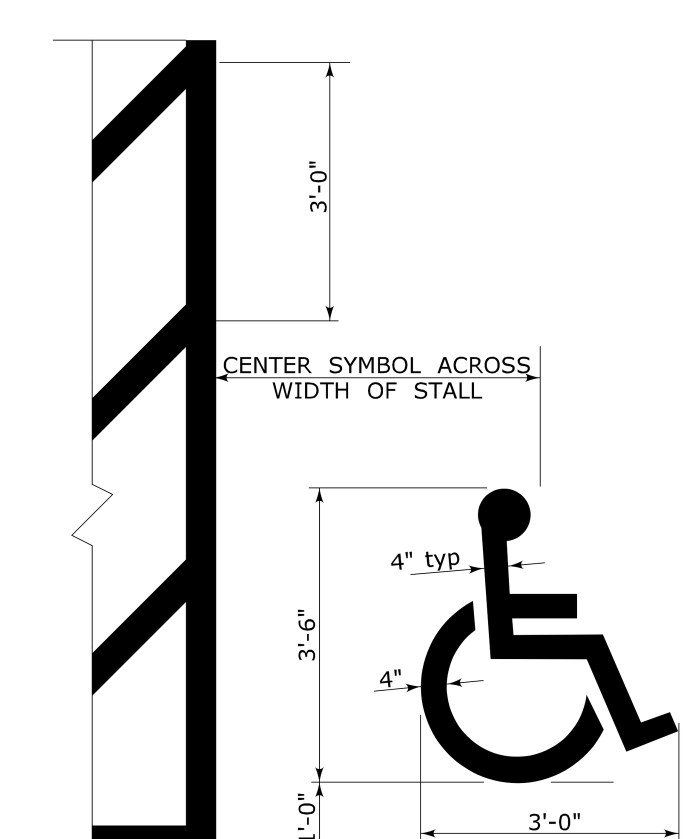
TYPICAL PERPENDICULAR PARKING STALLS DETAIL



TYPICAL ANGLE PARKING STALLS DETAIL



ACCESSIBLE PARKING SPACE SYMBOL



2.8 S.F.

REV.	DATE	REVISION DESCRIPTION

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Plotted Date: 4/3/2017

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: TR-1210_09.dgn   Model: CT_Civil_2D_Sheet

SUBMITTED BY: NAME/DATE/TIME: Mark F. Makuch, P.E. 2017.04.19 11:17:36-04'00'

APPROVED BY: NAME/DATE/TIME: Gregory M. Dorosh, P.E. 2017.04.20 13:26:20-04'00'

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

PAVEMENT MARKINGS FOR BICYCLE LANES, PARKING STALLS, AND RAILROAD GRADE CROSSINGS

STANDARD SHEET NO.: TR-1210_09

E5 - SERIES

E5-1

EXIT

COPY & BORDER - WHITE
BACKGROUND - GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
16.0	48	51-6147	2

G20 - SERIES

G20-2a

END ROAD WORK

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
8.0	48X24	80-9612	2

ROAD WORK NEXT 0 MILE(S) BE PREPARED TO STOP

VARIABLE MILEAGE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
90.0	120X108	80-9728	

WORK AREA BE PREPARED TO STOP

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9711	1
16.0	48	80-9712	2

NEXT 0 MILES

VARIABLE MILEAGE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
7.0	72X14	80-9720	

BUSINESS ACCESS

VARIABLE ARROW
COPY & BORDER - WHITE
BACKGROUND - BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	50-5934	2

16 - SERIES

CONSTRUCTION AHEAD
ROAD USE RESTRICTED
STATE LIABILITY LIMITED
GENERAL STATUTES SEC 13a-115, 13a-145
COMMISSIONER OF TRANSPORTATION

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
16-M	5.0	30X24	80-1613	1
16-H	17.5	60X42	80-1608	2
16-E	35.0	84X60	80-1605	2B

CONSTRUCTION AHEAD
SIDEWALK USE RESTRICTED
STATE LIABILITY LIMITED
GENERAL STATUTES SEC 13a-115, 13a-145
COMMISSIONER OF TRANSPORTATION

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
16-S	10.0	48X30	80-1619	2

M4 - SERIES

M4-8

DETOUR

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
2.0	24X12	80-9707	1

M4-9b

DETOUR

VARIABLE ARROW

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
5.0	30X24	80-9703	1

M4-8a

END DETOUR

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
3.0	24X18	80-9708	1

M4-9b

DETOUR

VARIABLE ARROW

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
6.25	30X30	80-9706	1

M4-10

(R) DETOUR
(L) DETOUR

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
6.0	48X18	80-9701R	2
6.0	48X18	80-9702L	2

DETOUR

VARIABLE ARROW

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
5.0	30X24	80-9710	1

R1 - SERIES

R1-1

STOP *

COPY & BORDER - WHITE
BACKGROUND - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
5.19	30	31-0552	1
13.30	48	31-0557	2

R1-2

YIELD *

COPY & BORDER - RED
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
3.90	36	31-0523	1
10.83	60	31-0528	2B

R4 - SERIES

R4-7

COPY & BORDER - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
5.0	24X30	31-1526	1

R9 & R11 - SERIES

R9-9

SIDEWALK CLOSED

COPY & BORDER - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
3.75	30X18	80-9076	1

R11-3a

ROAD CLOSED 00 MILES AHEAD LOCAL TRAFFIC ONLY

VARIABLE MILEAGE
COPY & BORDER - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
12.5	60X30	80-9077	2

R9-11

SIDEWALK CLOSED AHEAD CROSS HERE

VARIABLE ARROW
COPY & BORDER - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
3.0	24X18	80-9074	1

R11-3b

BRIDGE CLOSED 00 MILES AHEAD LOCAL TRAFFIC ONLY

VARIABLE MILEAGE
COPY & BORDER - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
12.5	60X30	80-9078	2

R9-11a

SIDEWALK CLOSED CROSS HERE

VARIABLE ARROW
COPY & BORDER - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
2.0	24X12	80-9075	1

R11-3b

ROAD CLOSED TO THRU TRAFFIC

COPY & BORDER - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
12.5	60X30	80-9081	2

R11-2

ROAD CLOSED

COPY & BORDER - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
10.0	48X30	80-9080	2

ROAD WORK AHEAD FINES DOUBLED

COPY & BORDER - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
14.0	48X42	31-1906	2
22.5	60X54	31-1907	2
30.0	72X60	31-1908	2B

W1 - SERIES

W1-4

(L) (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9432L	1
9.0	36	80-9431R	1
16.0	48	80-9452L	2
16.0	48	80-9451R	2

BOTH LANES SHIFT LEFT AHEAD (L) / BOTH LANES SHIFT RIGHT AHEAD (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
16.0	48	80-9433L	2
16.0	48	80-9435R	2

AHEAD (L) / AHEAD (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
25.0	60	80-9483L	2B
25.0	60	80-9485R	2B

W1-6

(L or R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
8.0	48X24	80-9424	2
12.5	60X30	80-9423	2

BOTH LANES SHIFT LEFT (L) / BOTH LANES SHIFT RIGHT (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
16.0	48	80-9434L	2
16.0	48	80-9436R	2

(L) (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
25.0	60	80-9484L	2B
25.0	60	80-9486R	2B

W1-8

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
3.0	18X24	80-9401	1
5.0	24X30	80-9403	1
7.5	30X36	80-9404	1

AHEAD (L) / AHEAD (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
25.0	60	80-9443L	2B
25.0	60	80-9445R	2B

(L) (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
25.0	60	80-9444L	2B
25.0	60	80-9446R	2B

W3 - SERIES

W3-1

STOP AHEAD

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9808	1

W3-1a

OCTAGON - RED W/ WHITE BORDER
ARROW & BORDER - BLACK
BACKGROUND - FLUORESCENT ORANGE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9050	1
16.0	48	80-9051	2

W3-2a

TRIANGLE - RED W/ WHITE BORDER
ARROW & BORDER - BLACK
BACKGROUND - FLUORESCENT ORANGE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9054	1
16.0	48	80-9055	2

W3-3

TOP CIRCLE - RED
MIDDLE CIRCLE - YELLOW
BOTTOM CIRCLE - GREEN
COPY & BORDER - BLACK
BACKGROUND - FLUORESCENT ORANGE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9052	1
16.0	48	80-9053	2

W4-W6 - SERIES

W4-2

(L) (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
16.0	48	80-9918L	2
16.0	48	80-9917R	2

W6-3

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
16.0	48	80-9945	2

W8-W9 - SERIES

W8-1

BUMP

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9901	1
16.0	48	80-9902	2

BUMP AHEAD

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9801	1
16.0	48	80-9802	2

W9-2

LANE ENDS MERGE LEFT (L) / LANE ENDS MERGE RIGHT (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
16.0	48	80-9910L	2
16.0	48	80-9911R	2

W13 - SERIES

W13-1

00 M.P.H.

SUBPLATE
VARIABLE SPEED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
4.0	24	80-9569	1
6.25	30	80-9567	1

REDUCE SPEED TO 00 MPH

VARIABLE SPEED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9506	1
16.0	48	80-9508	2

SPEED LIMIT AHEAD 00 MPH

VARIABLE SPEED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
12.0	72X24	80-9519	2

W20 - SERIES

W20-1

ROAD WORK AHEAD

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
6.25	30	80-9602	1
9.0	36	80-9603	1
16.0	48	80-9604	2

LEFT LANES CLOSED (L) / RIGHT LANES CLOSED (R)

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L)	16.0	48	80-9836	2
(R)	16.0	48	80-9839	2

W20-7a

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9803	1
16.0	48	80-9804	2

W20-1

ROAD WORK 0000 FT

VARIABLE DISTANCE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9614	1
16.0	48	80-9615	2

LEFT TWO LANES CLOSED AHEAD (L) / RIGHT TWO LANES CLOSED AHEAD (R)

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L)	16.0	48	80-9837	2
(R)	16.0	48	80-9838	2

SLOW MOVING TRUCKS AHEAD

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
32.0	96X48	80-9815	2B

W20-2

DETOUR 1000 FT

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9805	1
16.0	48	80-9806	2

LEFT LANE CLOSED AHEAD (L) / RIGHT LANE CLOSED AHEAD (R)

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L)	16.0	48	80-9847	2
(R)	16.0	48	80-9848	2

AHEAD

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
2.0	24X12	80-9870	
3.75	30X18	80-9871	

W20-4

ONE LANE ROAD AHEAD

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9834	1
16.0	48	80-9835	2

LEFT LANE CLOSED (L) / RIGHT LANE CLOSED (R)

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L)	16.0	48	80-9846	2
(R)	16.0	48	80-9849	2

1 MILE

VARIABLE MILEAGE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
2.5	30X12	80-9872	
4.5	36X18	80-9873	

W21 - SERIES

W21-6

SURVEY CREW

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9607	1

PEDESTRIAN DETOUR

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
2.0	24X12	80-9912	1

W22 - SERIES

W22-1

BLASTING ZONE 1000 FT

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9620	1
16.0	48	80-9625	2

W22-2

TURN OFF 2-WAY RADIO AND CELL PHONE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
10.5	42X36	80-9623	2

W22-3

END BLASTING ZONE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
7.5	36X30	80-9622	2
10.5	42X36	80-9621	2

(VARIABLE LEGEND)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
4.17	60X10	80-9913	2
12.0	96X18	80-9914	2
3.33	48X10	80-9916	2

BLANK OR
VARIABLE LEGEND

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
9.0	36	80-9933	1
16.0	48	80-9934	2

(VARIABLE LEGEND)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
12.5	60X30	80-9928	2
24.0	72X48	80-9929	2

STAY IN LINE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
16.0	48	80-9951	2

USE SHOULDER

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
16.0	48	80-9956	2

SHOULDER CLOSED AHEAD (1) / SHOULDER CLOSED (2)

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(1)	16.0	48	80-9957	2
(2)	9.0	36	80-9958	1
(2)	16.0	48	80-9959	2

STOP-SLOW PADDLE

SIDE A: * STOP
SIDE B: * SLOW

SIDE A
BACKGROUND - RED
COPY & BORDER - WHITE
SIDE B
BACKGROUND - ORANGE
COPY & BORDER - BLACK PLAIN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
2.51	19	80-9950	PADDLE

NEW

COPY & BORDER - BLACK
BACKGROUND - YELLOW

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
2.0	12X24	41-0815	

NOTES:

1. R1-SERIES SIGN THE LEGEND "O.S.T.A." SHALL APPEAR.
2. POSTS - SEE STANDARD SHEET TR-1208_02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS".
3. POSTS - TYPE A (EXCEPT WHERE NOTED WITH A "B" FOR TYPE B)
4. ALL POSTS NOTED ARE FOR LONG TERM INSTALLATION. SEE STANDARD SHEET TR-1208_02.
5. FOR TEMPORARY SUPPORTS SEE STANDARD SHEET TR-1220_02 - "CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES".
6. FOR SPECIFIC SIGN DESIGN, CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
7. ALL CONSTRUCTION SIGNS TO BE PAID FOR UNDER THE CONSTRUCTION SIGNS ITEM IN THE CONTRACT.
8. MATERIALS & COLORS SHALL CONFORM TO STATE SPECIFICATIONS.

MATERIALS:
SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES. ALUMINUM THICKNESS FOR POST MOUNTED SIGNS SHALL BE .100" EXCEPT SIGN #s. 80-9815, 80-9728, 80-9519, & 51-6147 (L OR R) WHICH SHALL BE .125", PLYWOOD THICKNESS FOR POST MOUNTED SIGNS SHALL BE 1/2" EXTERIOR GRADE A-C OR BETTER. SIGN BLANKS SHALL HAVE ONE COAT OF PRIMER PAINT PRIOR TO APPLICATION OF RETROREFLECTIVE SHEETING & COPY.

COLORS:
BACKGROUND - FLUORESCENT ORANGE - EXCEPT AS NOTED.
LEGEND - BLACK - EXCEPT AS NOTED.
ALL SIGNS WITH FLUORESCENT ORANGE BACKGROUND TO USE TYPE VIII RETROREFLECTIVE SHEETING.
ALL OTHER SIGNS TO USE TYPE IV RETROREFLECTIVE SHEETING EXCEPT AS NOTED BY *.
* SIGNS TO USE TYPE IX RETROREFLECTIVE SHEETING.

REV.	DATE	REVISION DESCRIPTION
5	8-2015	UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.
4	6-2012	REVISED NOTE #1 TO REFERENCE "O.S.T.A."
3	4-2012	REVISED NEW SIGNAL SIGN(S) TO CONFORM TO 2009 MUTCD.
2	2-2011	MINOR REVISIONS.
1	3-2010	REMOVED OBSOLETE SIGNS (50-5925, 50-5935).

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 8/25/2015

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_STD.DGN Model: TR-1220_01

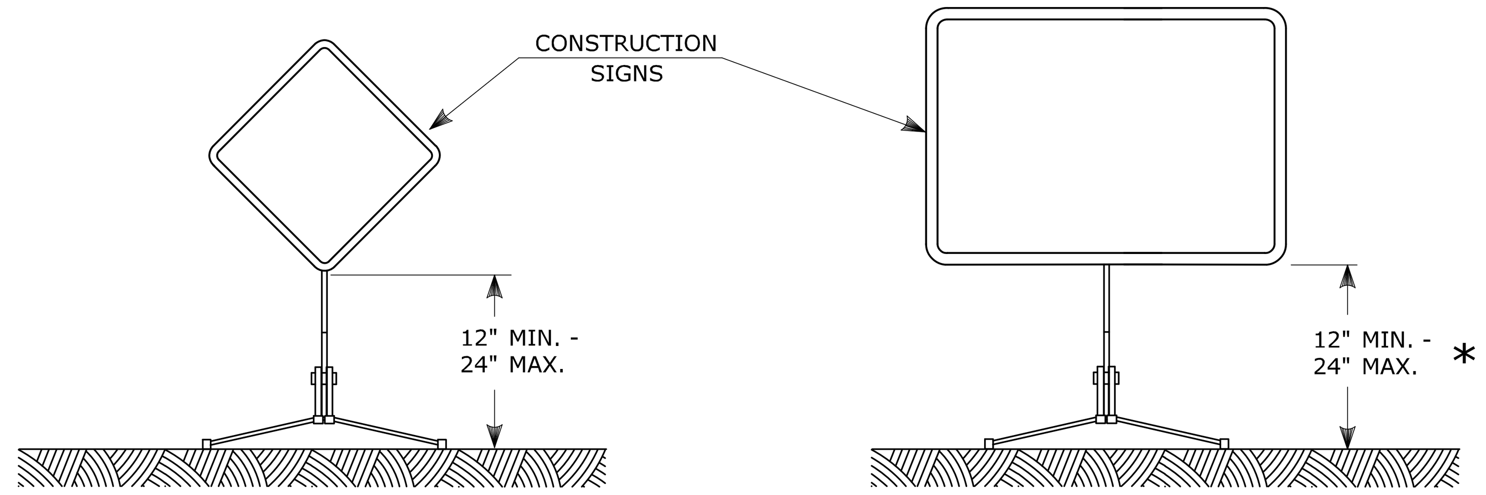
SUBMITTED BY: NAME/DATE/TIME:
Mark F. Makuch, P.E. 2015.08.26 07:15:03-04'00'
APPROVED BY: NAME/DATE/TIME:
Charles S. Harlow, P.E. 2015.08.28 11:40:30-04'00'

CTDOT
STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS

STANDARD SHEET NO.:
TR-1220_01



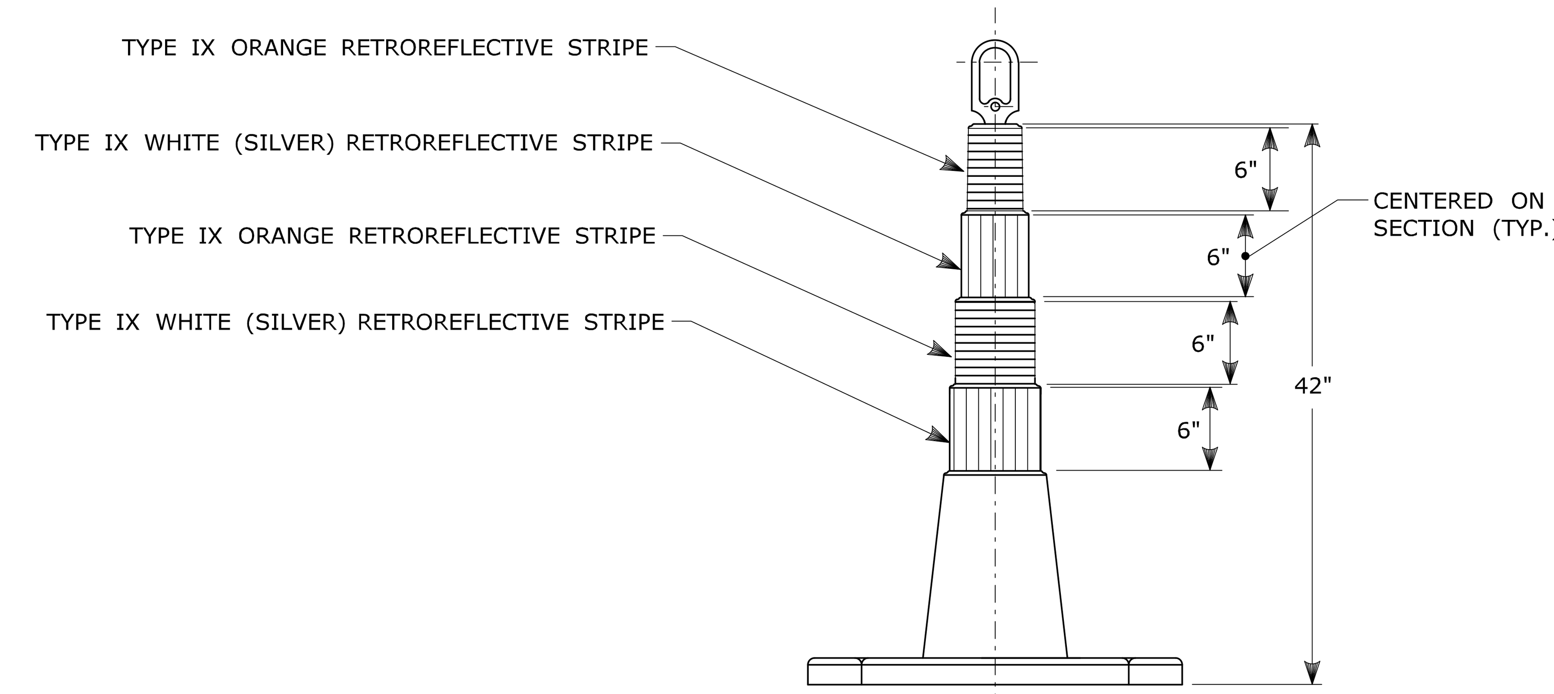
DIAMOND SHAPE **RECTANGLE SHAPE**

PORTABLE CONSTRUCTION SIGNS

NOTES FOR PORTABLE SIGN SUPPORTS:

1. SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES AND THE LATEST EDITION OF THE MUTCD.
2. MOUNTING HEIGHT OF SIGNS SHALL BE A MINIMUM OF 12" AND A MAXIMUM OF 24". SIGNS SHALL BE MOUNTED HIGHER AS NEEDED TO MEET FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.
3. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY SUPPORT DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
4. PORTABLE SIGN SUPPORTS SHALL BE STABILIZED IN A MANNER THAT WILL NOT AFFECT THEIR COMPLIANCE WITH NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES.
5. PORTABLE CONSTRUCTION SIGN SUPPORTS SHOULD NOT BE USED FOR DURATION OF MORE THAN 3 DAYS EXCEPT FOR R9-8 THROUGH R9-11a SERIES, R11 SERIES, W1-6 THROUGH W1-8 SERIES, M4-10, AND E5-1. SEE STANDARD SHEET TR-1220_01 - "SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS" FOR SIGN DETAILS.

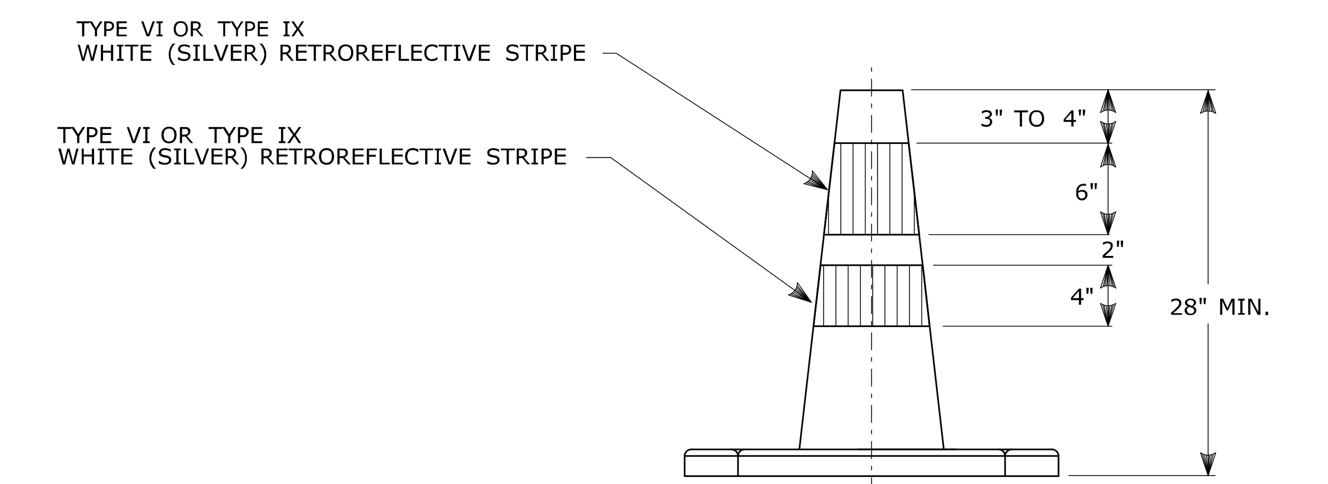
* FOR E5-1 (EXIT SIGNS) USE MIN 48".



42" TRAFFIC CONE

NOTES:

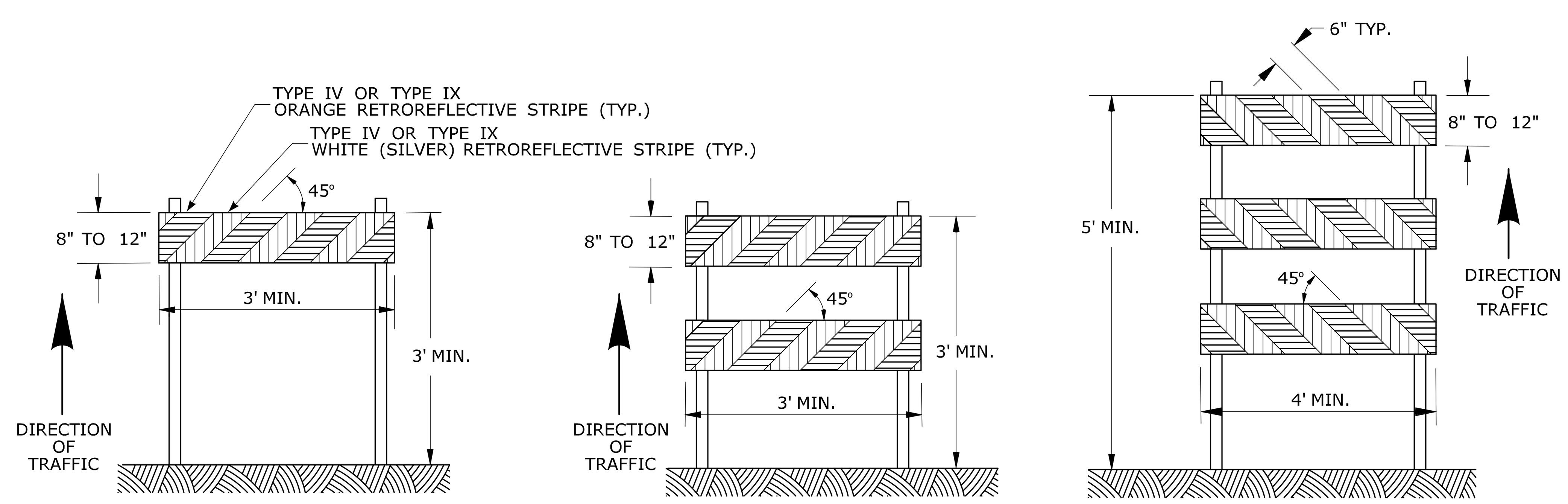
1. TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
2. IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
3. IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
4. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
5. THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
6. THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



TRAFFIC CONE

NOTES:

1. TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
2. IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
3. IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
4. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
5. TRAFFIC CONES NOT USED AT NIGHT MAY UTILIZE TYPE III SHEETING.
6. THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.

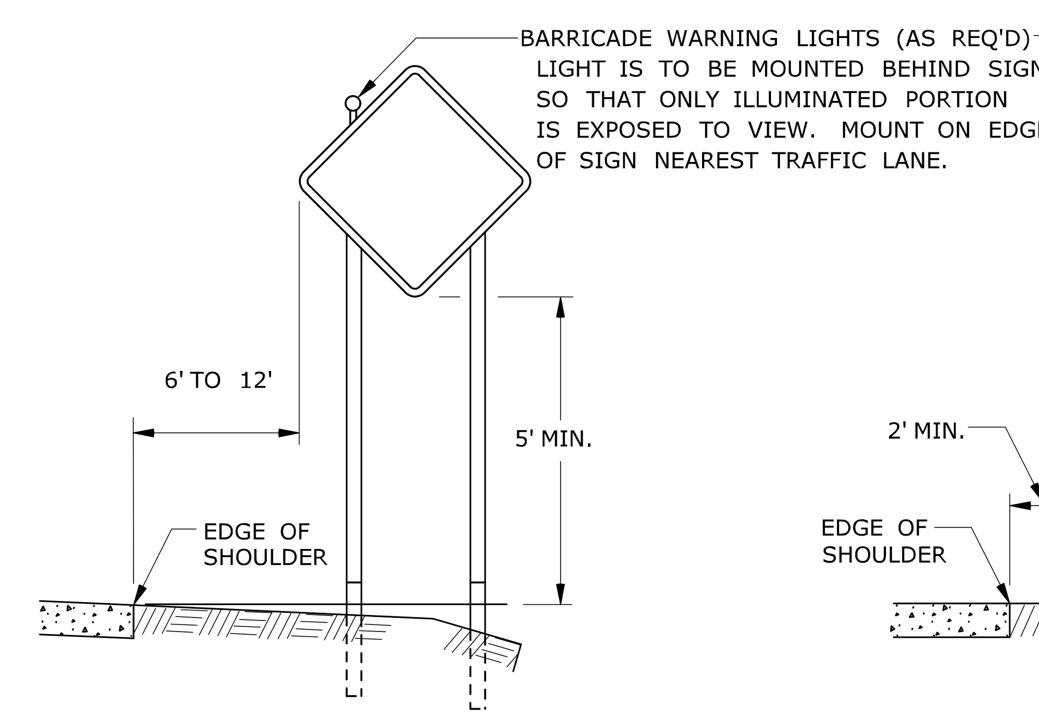


TYPE I BARRICADE **TYPE II BARRICADE** **TYPE III BARRICADE**

CONSTRUCTION BARRICADES

NOTES:

1. CONSTRUCTION BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH AND THE LATEST EDITION OF THE MUTCD.
2. MARKINGS FOR BARRICADE RAILS SHALL BE ALTERNATE ORANGE AND WHITE STRIPES SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS. 6" WIDE STRIPES SHALL BE USED.
3. THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS. THE SIDES OF BARRICADES FACING TRAFFIC SHALL HAVE RETROREFLECTIVE RAIL FACES.
4. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY BARRICADE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
5. CORNERS OF BARRICADE RAILS SHALL BE ROUNDED.
6. SIGNS MAY ONLY BE INSTALLED ON TYPE III BARRICADES AND SHALL BE PLACED SO AS TO COVER NO MORE THAN ONE BARRICADE RAIL.



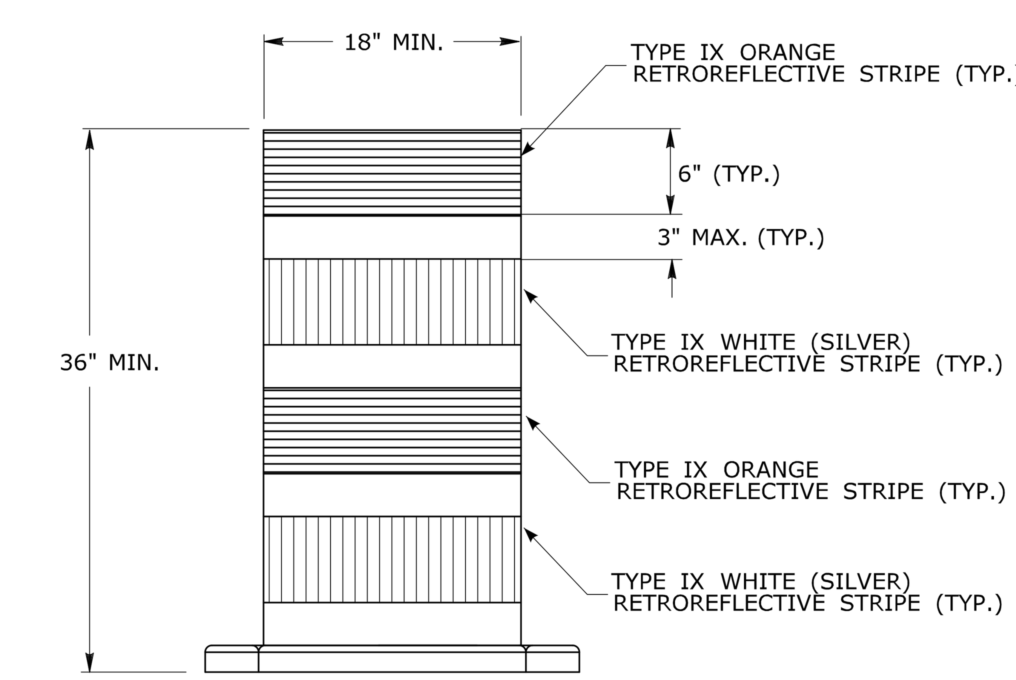
RURAL AREA **URBAN AREA**

PLACEMENT OF CONSTRUCTION SIGNS
TYPICAL LONG TERM INSTALLATION

NOTES:

SUPPORTS SHALL BE METAL SIGN POSTS AND HAVE BREAK-AWAY FEATURES.

SEE TYPICAL SHEETS:
"TYPICAL SIGN SUPPORT AND SIGN PLACEMENT DETAILS-GORE EXIT SIGN"
"TYPICAL METAL SIGN POSTS AND SIGN MOUNTING DETAILS"



TRAFFIC DRUM
FRONT VIEW

NOTES:

1. TRAFFIC DRUM SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
2. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY DRUM DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
3. THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
4. THE SECTIONS OF DRUMS NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.

REV.	DATE	REVISION DESCRIPTION
2	8-2015	UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.
1	2-2011	MINOR REVISIONS.

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Plotted Date: 8/14/2015

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_STD.DGN Model: TR-1220_02

SUBMITTED BY: NAME/DATE/TIME:
Mark F. Makuch, P.E. 2015.08.26 07:15:47-04'00'

APPROVED BY: NAME/DATE/TIME:
Charles S. Harlow, P.E. 2015.08.28 11:40:57-04'00'

CTDOT
STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES

STANDARD SHEET NO.:
TR-1220_02