



City of Norwich

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ADDENDUM

Bid No.: 7576

Addendum No.: 1

Issued: March 23, 2018

Opening Date and Time: March 28, 2018 at 2:00 P.M.

Title: 2018 ADA Sidewalk Ramps Project

Bidders Note

This addendum is issued to provide all bidders with the following:

- a. Revised first page of the project manual. The revision specifies the type of ramp that must be constructed at each of the locations that are on State roads; and
- b. the State of Connecticut Department of Transportation Sidewalk Ramps Detail Sheets

All other terms and conditions remain the same.

**City of Norwich
Department of Public Works
ADA SIDEWALK RAMPS**

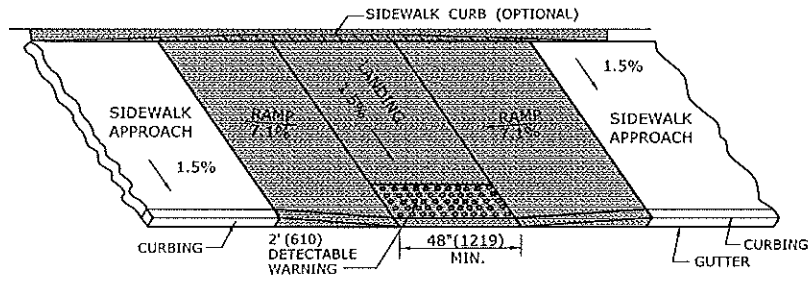
Bid # 7576

This project involves the removal of existing sidewalk and installation of new ADA compliant handicap accessible sidewalk ramps, and associated items at various locations in the City of Norwich. The Base Bid consists of 19 locations on City streets and State roads as follows:

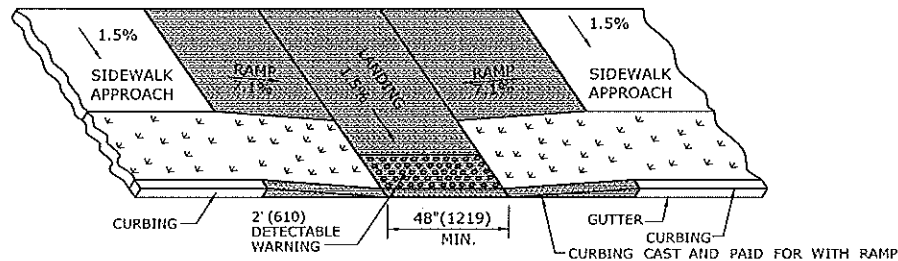
Location	DOT Ramp	Location	DOT Ramp
Broadway & Broad Street		Providence St. & Hunters	Type 5c
Central Ave & Fourth Southwest		Providence St. @ Wequonnoc School West	Type 1a
Central Ave & Fourth Northwest		Providence St. @ Wequonnoc School East	Type 1a
Central Ave & Second		Main St. @ Chelsea Groton Bank	
East Main St. & Palmer(Single side)	Type 1	Broadway & Perkins Ave Southeast	
Franklin St. & Willow Northwest		Broadway & Slater Ave Southwest	
Franklin St. & Willow Southwest		Laurel Hill & Center St. Northeast	Type 4a
Franklin St. @ Columbus Park East		Laurel Hill & Center St. Northwest	Type 4a
Franklin St. @ Columbus Park West		Laurel Hill & Center St. Southeast	Type 4b
Cliff & Cliff Place			

Notes: The following items should be given consideration:

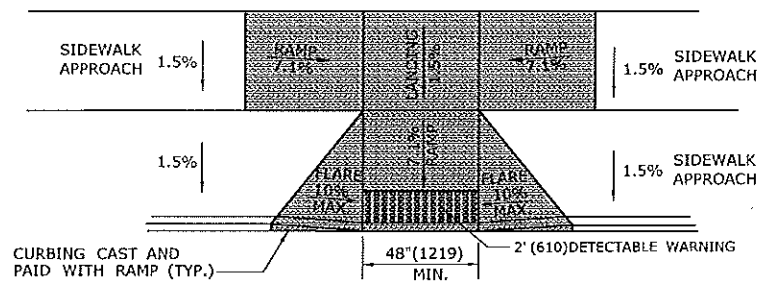
- a. **Seven (7) of the locations are on a State roads as follows: East Main Street (SR 2) and Palmer Street (1EA), Laurel Hill (SR 12) and Center Street (3EA), and Providence St. (SR 169) at Wequonnoc School (3EA), and will require a CT DOT permit. The City will acquire the permit.**
- b. Please see the attached DOT Sidewalk Ramp Detail Sheets for details of the specified ramps.
- c. **Detectable Warning Device**– These warning strips are required at all handicap ramps, as detailed in the specifications. These will be paid for as a separate contract item. There are two types. The 3 ramps at Laurel Hill and Center St. will be retrofitted with a semi rigid detectable warning device as specified. All others will be placed at the time of the concrete pour.
- d. Flaggers - The contractor should anticipate the use of at least one flagger per day to assist with traffic control. Payment will be included on the Maintenance and Protection of Traffic item.
- e. Concrete for sidewalk and aprons will be Class 'F' – 4000 psi



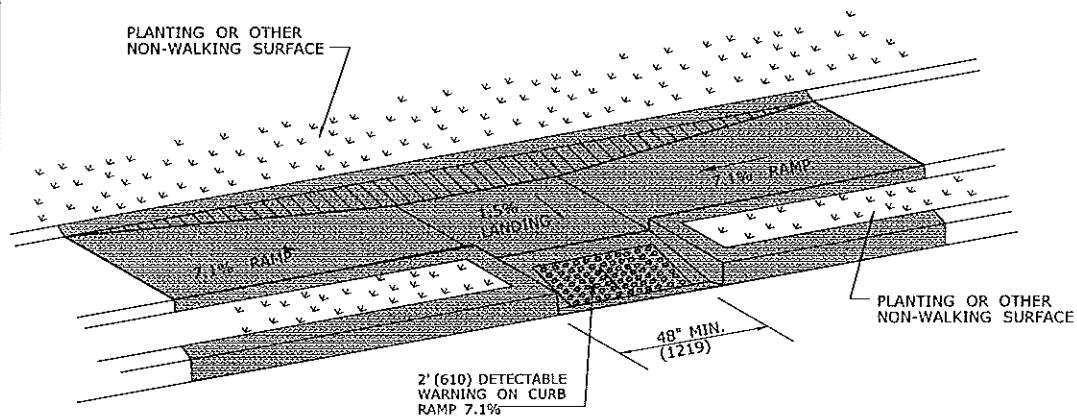
PARALLEL SIDEWALK RAMP (TYPE 1) NO UTILITY STRIP



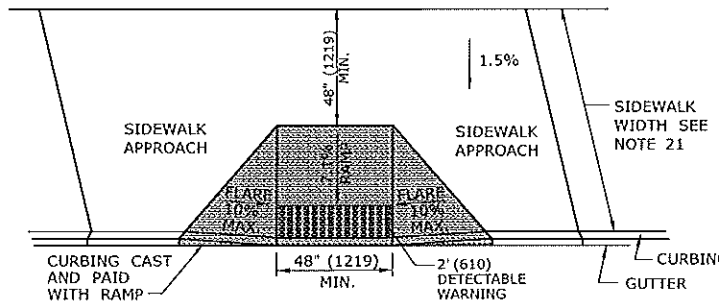
**PARALLEL SIDEWALK RAMP (TYPE 1a)
WITH UTILITY / GRASS STRIP**



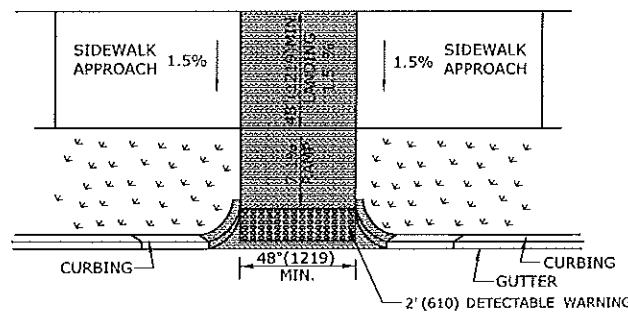
**PARALLEL/PERPENDICULAR SIDEWALK RAMP
NO UTILITY/GRASS STRIP (TYPE 1b)**



**PARALLEL SIDEWALK RAMP (TYPE 1c)
WITH UTILITY / GRASS STRIP**

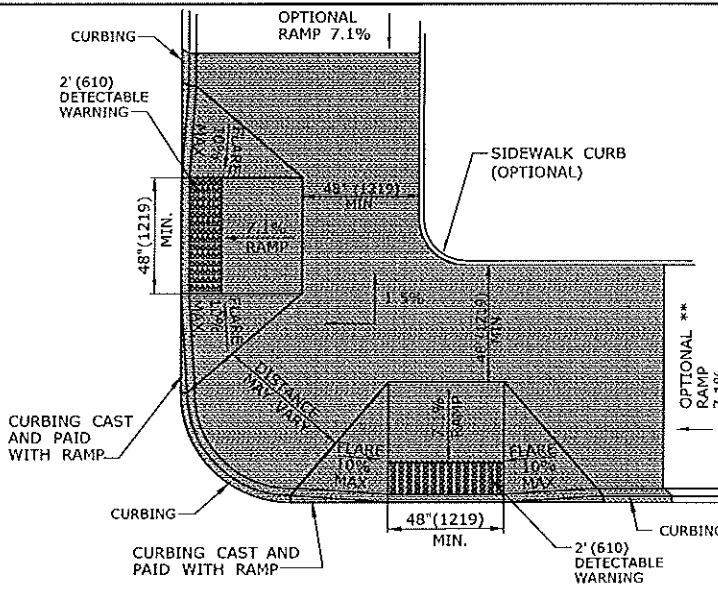


**PERPENDICULAR SIDEWALK RAMP
W/ 48" (1219) MIN. BY PASS LANDING (TYPE 2)**



**PERPENDICULAR SIDEWALK RAMP
W/CURB RETURNS / UTILITY GRASS STRIP (TYPE 2a)**

* OPTIONAL FLARE ONE SIDE OF RAMP

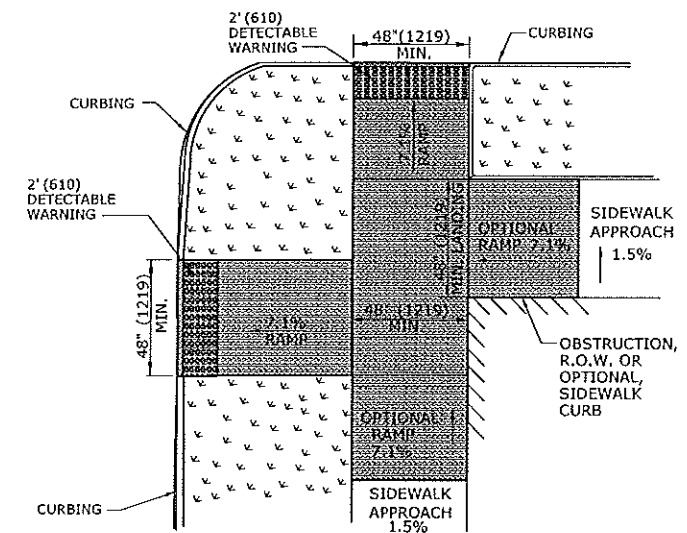


**DUAL PERPENDICULAR
SIDEWALK RAMPS (TYPE 3)**

SEE NOTES 19
* OPTIONAL CURB RETURN ON ONE SIDE OF RAMP
** SEE NOTE 23

GENERAL NOTES:

1. MAXIMUM SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE SIDEWALK RAMP SHOULD NOT EXCEED 5%. THE MAXIMUM GRADE DIFFERENCE BETWEEN THE GUTTER AND CURB RAMP SHALL NOT EXCEED 13%. SEE DETAIL 1 ON SHEET 4.
2. RAMP GRADE SHALL BE UNIFORM, FREE OF SAGS AND ABRUPT GRADE CHANGES. RUNNING SLOPES OF RAMPS SHALL NOT EXCEED 8.33% AND SHALL NOT EXCEED 15' (4.5m) WITHOUT PROVIDING A LANDING.
3. ALL RAMPS SHALL BE CONSTRUCTED OF CLASS "F" CONCRETE IN ACCORDANCE WITH CONNECTICUT STANDARD SPECIFICATIONS.
4. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP. THE SURFACE OF ALL SIDEWALK RAMPS SHALL BE STABLE, FIRM AND SLIP RESISTANT. SURFACE DISCONTINUITIES SHALL NOT EXCEED 1/2" (13) MAX. VERTICAL DISCONTINUITIES BETWEEN 1/4" (6.4) AND 1/2" (13) MAX. SHALL BE BEVELED 1:2 MINIMUM APPLIED ACROSS THE ENTIRE LEVEL CHANGE.
5. DIAGONAL SIDEWALK RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES. DIAGONAL AND PERPENDICULAR RAMPS SHALL HAVE THE RAMP CUT PERPENDICULAR TO THE TANGENT OF THE CURB RADIUS FOR THE DESIGNATED ACCESSIBLE ROUTE. BOTH LONGITUDINAL SIDES OF THE RAMP SHOULD BE THE SAME LENGTH. SKEWED RAMPS SHOULD BE AVOIDED. FLARES ARE NOT CONSIDERED PART OF PEDESTRIAN ACCESS ROUTE. DIAGONAL RAMPS SHOULD NOT BE INSTALLED WHERE CURB RADIUS IS LESS THAN 20'(6096).
6. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT. 8.3% MAXIMUM SLOPE MAY NOT BE ACHIEVABLE DUE TO EXISTING SIDEWALK GRADE. IN RECOGNITION OF THIS, A LIMIT OF 15' (4572) FOR REMOVAL SHALL BE USED UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER. SAW CUT REQUIRED FOR DUMMY JOINTS SHALL BE INCLUDED IN THE COST OF "CONCRETE SIDEWALK RAMP" OR "CONCRETE SIDEWALK".
7. EXPANSION JOINTS IN CONCRETE SHALL MATCH THOSE IN ADJACENT SIDEWALKS BUT IN NO CASE SHALL THE SPACING BETWEEN EXPANSION JOINTS EXCEED 12' (3658) UNLESS OTHERWISE NOTED.
8. CONCRETE SIDEWALK RAMPS, SHALL BE PAID FOR UNDER THE ITEM "CONCRETE SIDEWALK RAMP", AS DEFINED BY THE CONSTRUCTION LIMITS ON THE PLANS AND SHALL BE FIELD VERIFIED.
9. SIDEWALK RAMPS SHALL BE CONSTRUCTED WITH THE TOE AT THE GUTTER CAST INTEGRALLY WITH RAMP UNLESS DIRECTED OTHERWISE BY THE ENGINEER (SEE TYPICAL SECTION ON SHEET 3). CURB REMOVAL AND CAST IN PLACE CURBING REQUIRED FOR THE RAMP, SHALL BE INCLUDED WITH PAY ITEM "CONCRETE SIDEWALK RAMP". CURBING OUTSIDE LIMITS OF RAMP OR LANDING SHOWN ON SHEET 3 SHALL BE CONSTRUCTED AND PAID FOR IN ACCORDANCE WITH CONNECTICUT STANDARD SPECIFICATIONS.
10. PREFERRED LOCATION TO INSTALL DETECTABLE WARNING STRIP SHALL BE 6" (152) FROM THE EDGE OF ROAD ALONG THE FULL WIDTH OF THE RAMP. FOR ALTERNATE LOCATIONS, REFER TO DETECTABLE WARNING PLACEMENT DETAILS ON SHEET 4.
11. TO PERMIT WHEELCHAIR WHEELS TO ROLL BETWEEN DOMES, ALIGN DOMES ON A SQUARE GRID IN THE DIRECTION OF RUNNING SLOPE (PERPENDICULAR TO CURB OR SLOPE BREAK). THE TRANSITION FROM RAMP TO GUTTER SHALL BE FLUSH WITHOUT A LIP.
12. WHERE COMMERCIAL DRIVEWAYS ARE PROVIDED WITH TRAFFIC SIGNALS AND THE SIDEWALK IS CONTINUOUS THROUGH DRIVEWAY, DETECTABLE WARNINGS ARE REQUIRED AT THE JUNCTION BETWEEN THE PEDESTRIAN ROUTE AND DRIVEWAY.
13. CONSTRUCT A SIDEWALK CURB WHEN THERE IS INSUFFICIENT BUFFER AVAILABLE TO GRADE OR WHEN CALLED FOR IN PLANS. PAID FOR WITH SIDEWALK RAMP WHEN REQUIRED FOR RAMP.
14. THE TOP AND BOTTOM OF RAMPS SHOULD BE PROVIDED WITH A 4' x 4' (1219 x 1219) MINIMUM LEVEL LANDING AREA WITH A CROSS SLOPE LESS THAN OR EQUAL TO 2% IN ANY DIRECTION.
15. UTILITY POLES, LUMINAIRE, PEDESTRIAN OR SIGNAL POLES, GRATES, ACCESS COVERS, AND OTHER APPURTENANCES SHALL NOT BE LOCATED ON RAMPS, LANDINGS, BLENDED TRANSITIONS, AND @ GUTTERS WITHIN THE PEDESTRIAN ACCESS ROUTE.
16. APPROACH SIDEWALK WIDTHS, GRASS STRIP OR UTILITY STRIP WIDTHS MAY VARY.
17. APPROACH SIDEWALK AND LANDING CROSS SLOPE SHALL NOT EXCEED 2%.
18. THE RUNNING OR CROSS SLOPES ON LANDINGS AT MID BLOCK CROSSING MAY BE WARPED TO MEET STREET OR HIGHWAY GRADE.
19. FOR PERPENDICULAR CURB RAMPS A MIN. 4'(1.2m) x 4'(1.2m) LEVEL LANDING SHALL BE PROVIDED AT THE TOP OF CURB RAMP. WHERE THE LEVEL LANDING IS RESTRICTED AT THE BACK OF SIDEWALK THE LEVEL LANDING SHALL BE 4'(1.2m) x 5'(1.5m) WITH THE 5'(1.5m) DIMENSION PROVIDED IN THE DIRECTION OF THE RAMP RUN.
20. FOR PARALLEL CURB RAMPS, A MIN. 4'(1.2m) x 4'(1.2m) LEVEL LANDING SHALL BE PROVIDED AT THE BOTTOM OF CURB RAMP. IF THE LEVEL LANDING IS RESTRICTED ON 2 OR MORE SIDES, THE LEVEL LANDING SHALL BE 4'(1.2m) x 5'(1.5m) WITH THE 5'(1.5m) DIMENSION PROVIDED IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING.
21. WHEN WIDTH OF SIDEWALK IS ≥ 48" AND A PERPENDICULAR SIDEWALK RAMP IS INSTALLED, THE FLARED SIDES SHALL BE 10% MAX. IF WIDTH OF SIDEWALK IS < 48" THE FLARED SIDES MUST NOT EXCEED 8.33% (12:1).
22. SHADED AREAS ARE TYPICAL PAY LIMITS FOR CONCRETE SIDEWALK RAMP BUT, MAY VARY AS DIRECTED BY THE ENGINEER.
23. OPTIONAL RAMP, WHEN REQUIRED, SHALL BE PAID FOR AS PART OF CONCRETE SIDEWALK RAMP.



**DUAL PERPENDICULAR SIDEWALK RAMPS (TYPE 3a)
WITH UTILITY / GRASS STRIP**

SEE NOTE 20

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

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 6/17/2014
1	7/13	Created new sheets (4 total).		

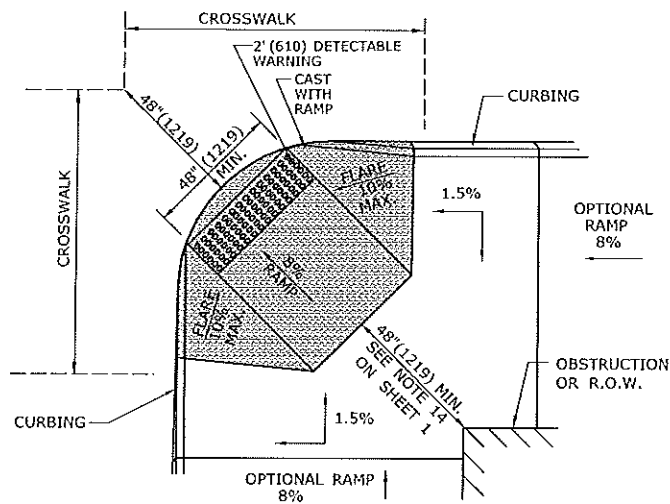
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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

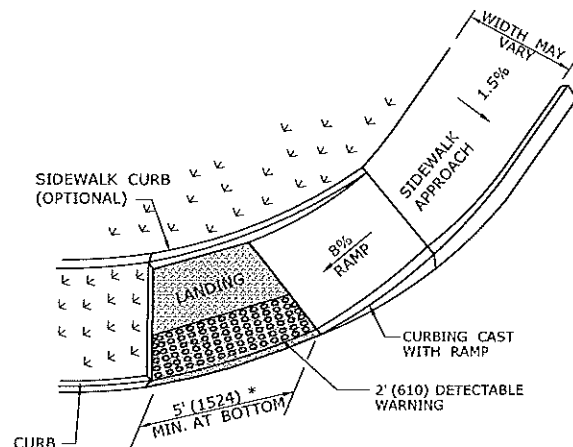
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OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
**SIDEWALK RAMPS
SHEET 1**

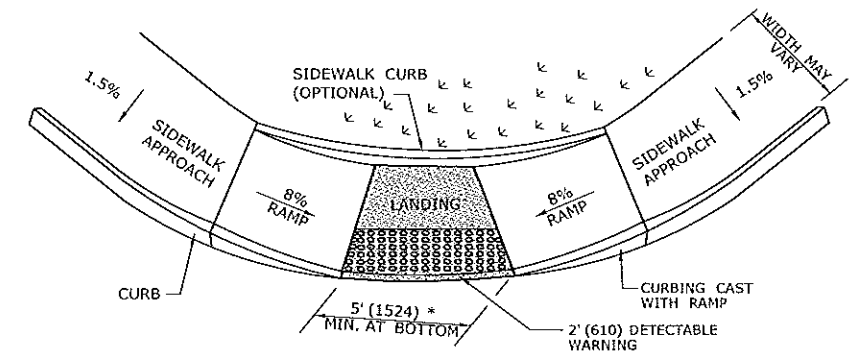
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PROJECT NO.
DRAWING NO.
SHEET NO.



**DIAGONAL SIDEWALK RAMP (TYPE 4)
W/LANDING AT TOP**

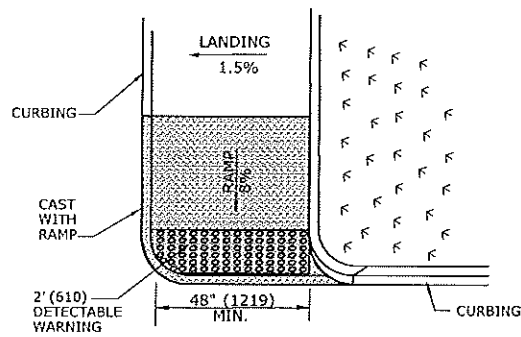


**SINGLE PARALLEL SIDEWALK RAMP
W/LANDING AT BOTTOM ON
CORNER (TYPE 4c)**
* SEE NOTE 20

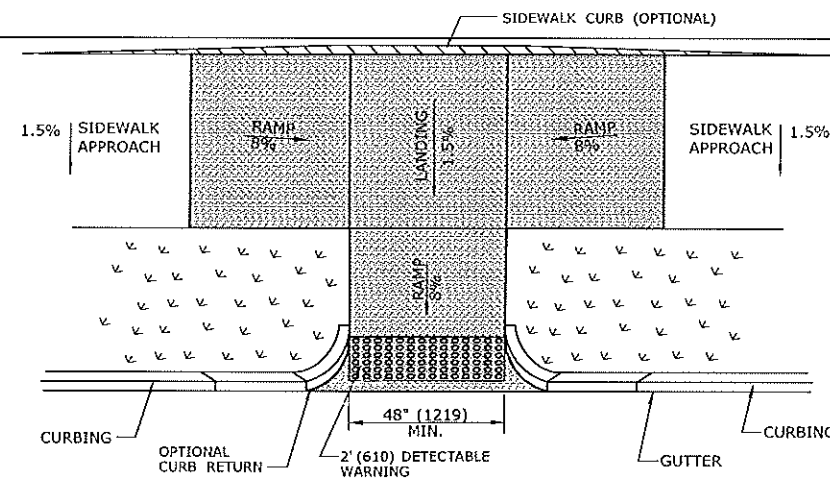


**DOUBLE SIDEWALK RAMP
W/LANDING AT BOTTOM (TYPE 4f)**

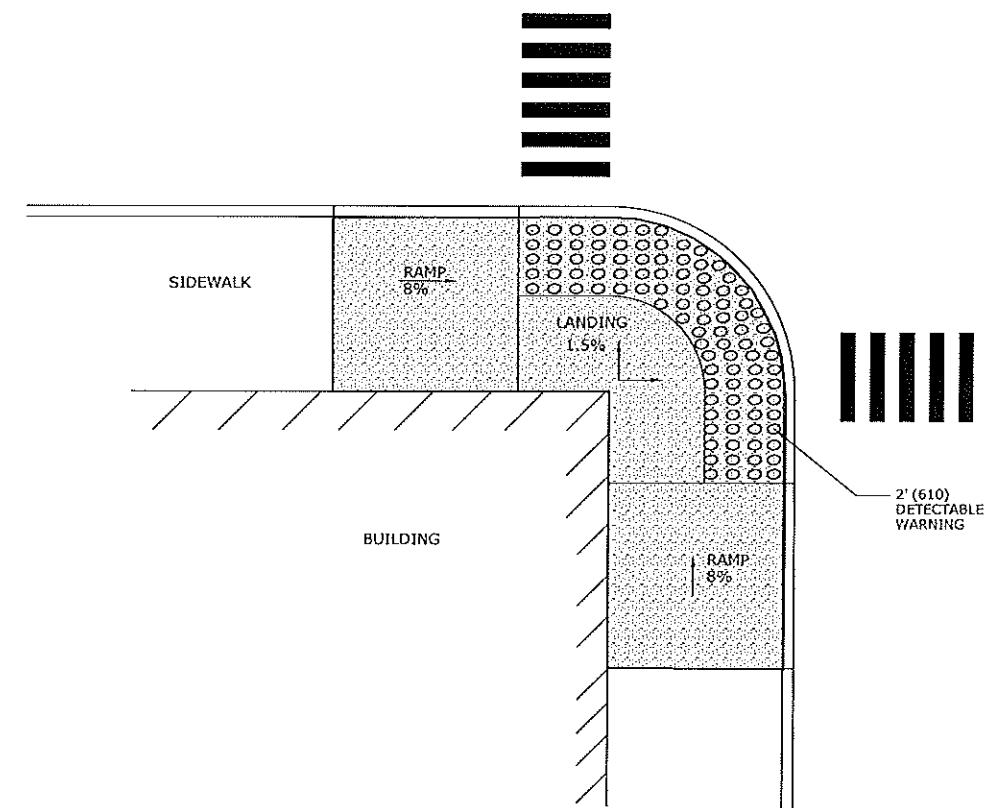
* SEE NOTE 20



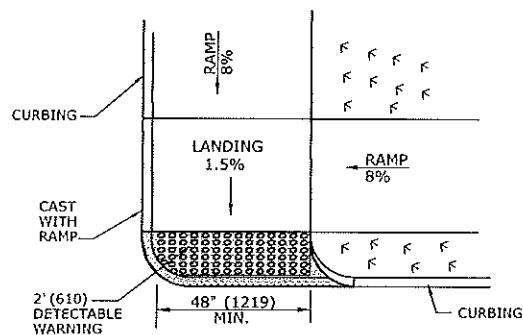
**SINGLE DIRECTION
PERPENDICULAR SIDEWALK RAMP
NO / UTILITY GRASS STRIP
(TYPE 4a)**



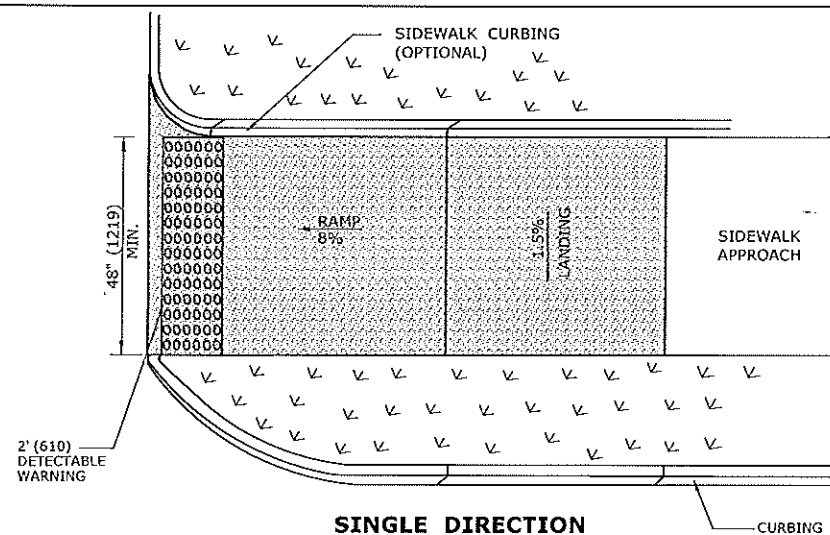
**PARALLEL/PERPENDICULAR SIDEWALK RAMP
COMBINATION W/ CURB RETURN (TYPE 4d)**



**RESTRICTED CONDITION
DIAGONAL SIDEWALK RAMP
(TYPE 4g)**



**SINGLE DIRECTION
PARALLEL SIDEWALK RAMP
NO / UTILITY GRASS STRIP
(TYPE 4b)**



**SINGLE DIRECTION
PERPENDICULAR SIDEWALK RAMP
W/ UTILITY GRASS STRIP (TYPE 4e)**

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

REV.	DATE	REVISION DESCRIPTION
1	7/13	CREATE NEW SHEETS (4 TOTAL).

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: 7/23/2013

NOT TO SCALE

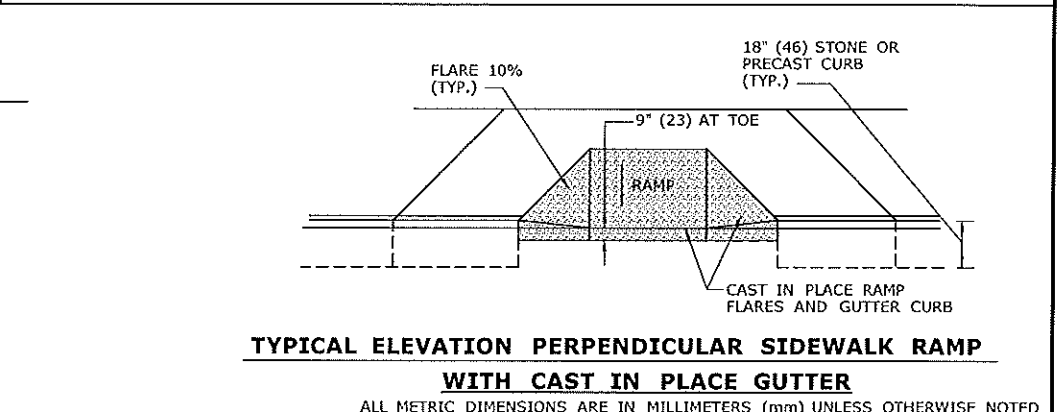
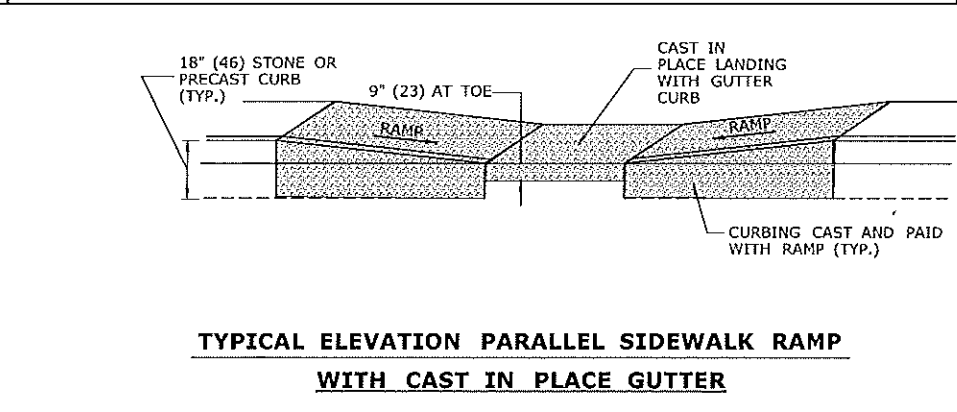
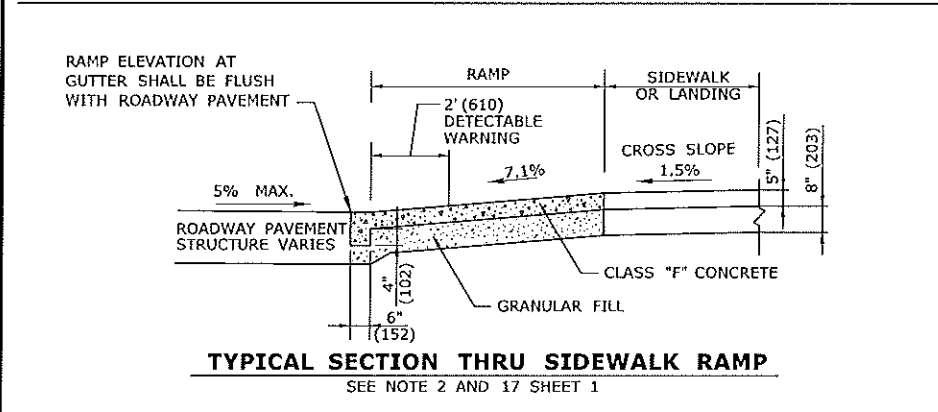
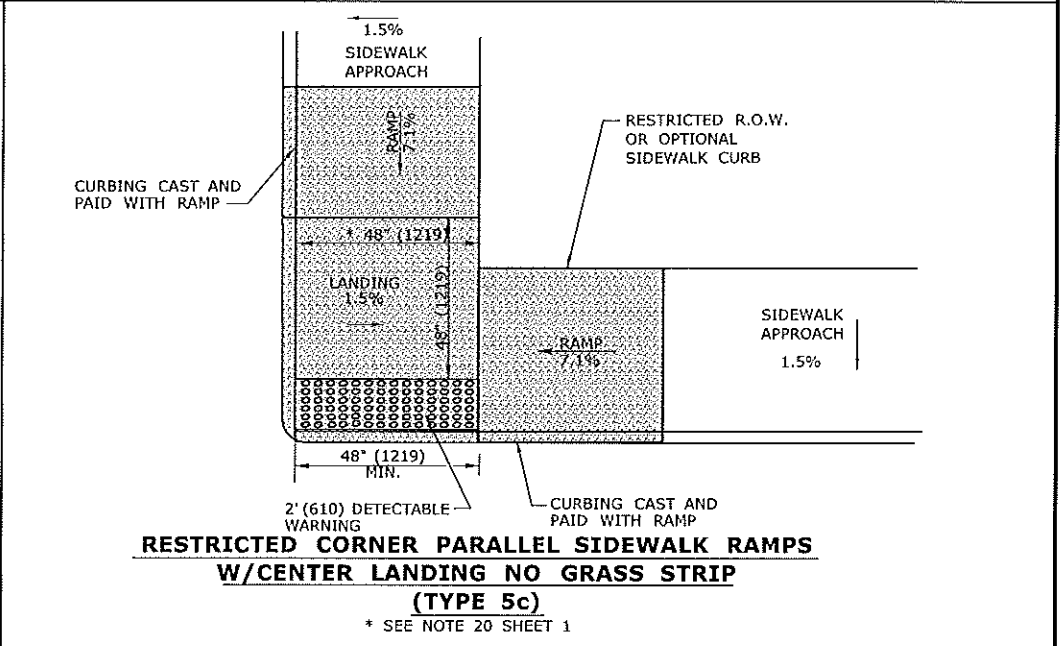
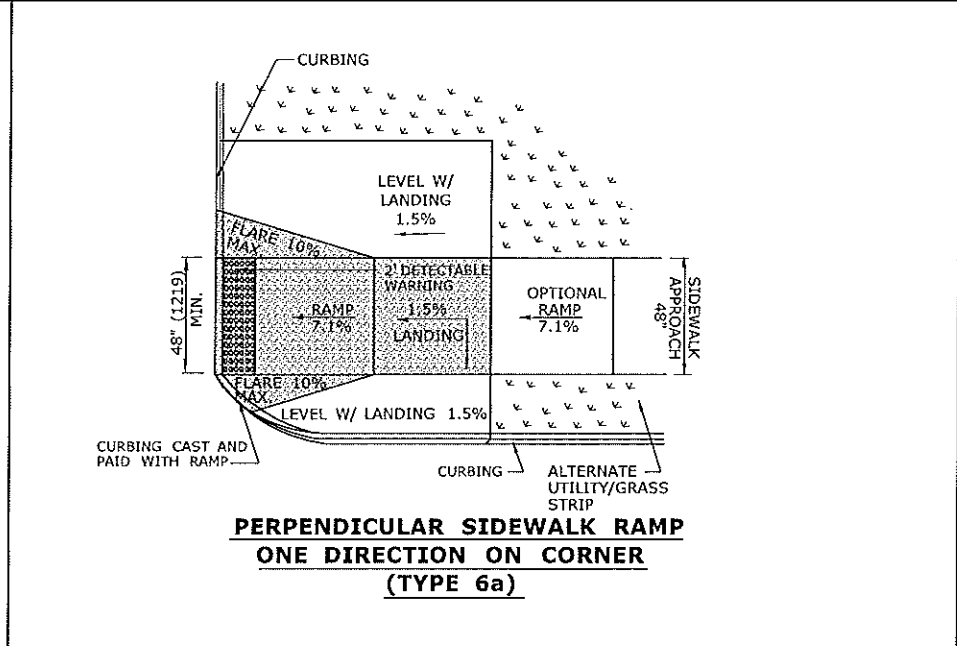
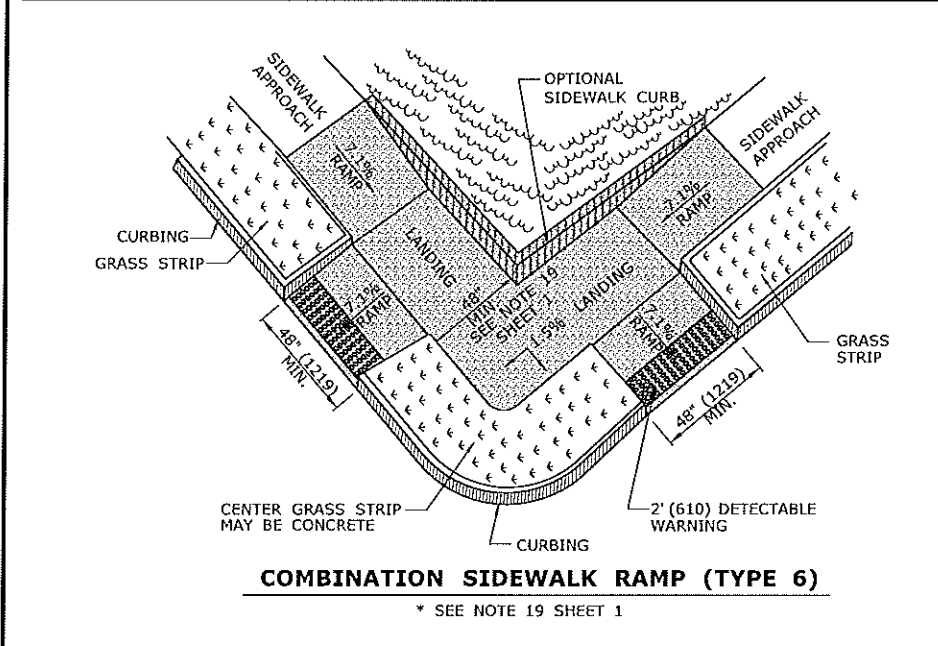
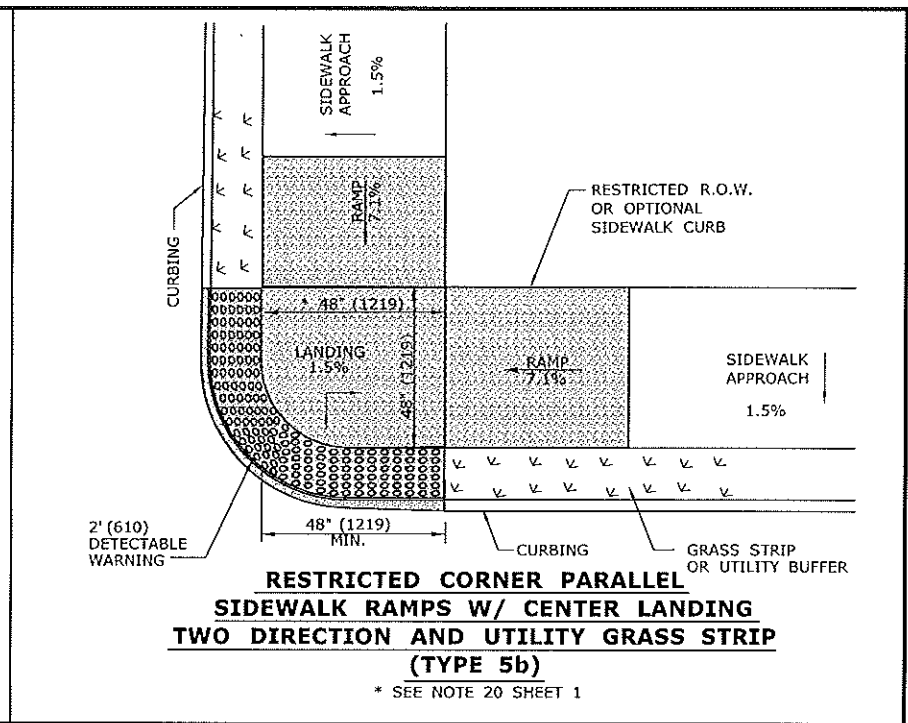
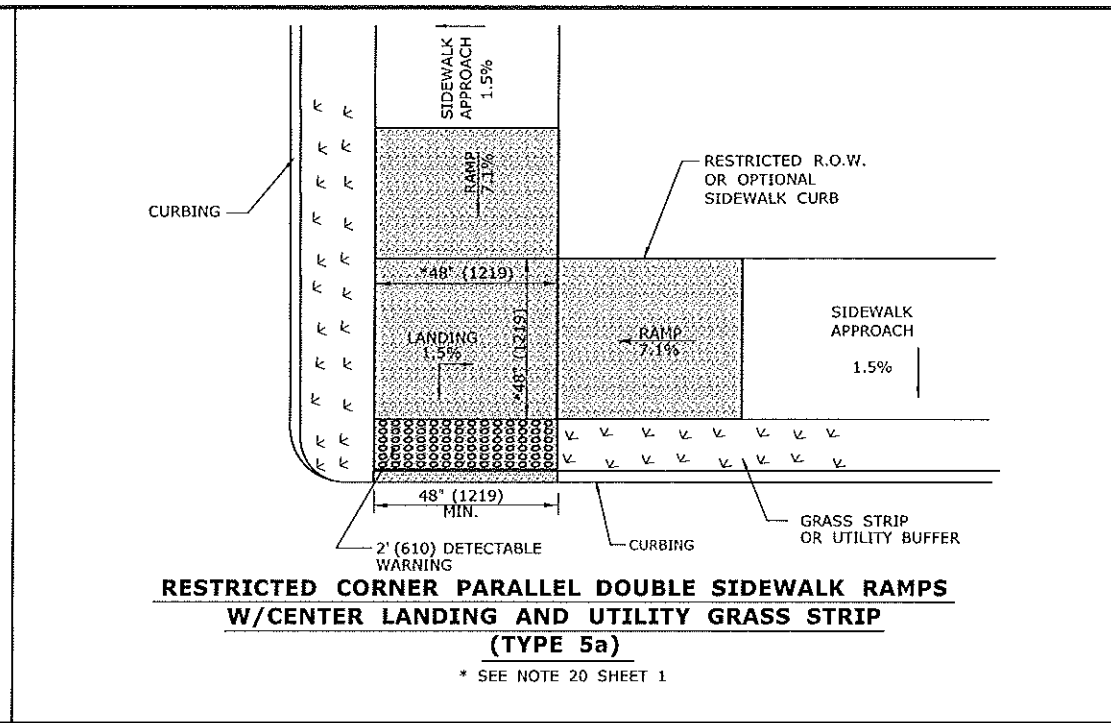
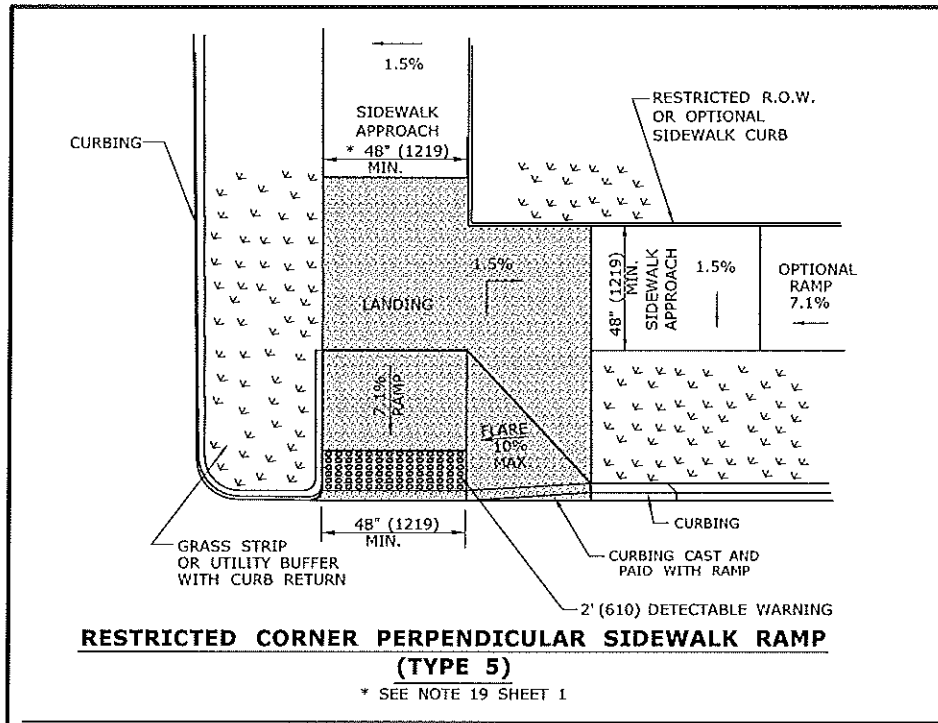


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SUBMITTED BY:	NAME/DATE/TIME:
APPROVED BY:	NAME/DATE/TIME:

**CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING**

STANDARD SHEET TITLE:	STANDARD SHEET NO.:
SIDEWALK RAMPS SHEET 2	HW-921_02b



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REV. DATE REVISION DESCRIPTION SHEET NO.	Plotted Date: 5/27/2014	Filename: ...SIDEWALK_RAMP_3.GD.dwg	OFFICE OF ENGINEERING		DRAWING TITLE: SIDEWALK RAMP SHEET 3	DRAWING NO.:	SHEET NO.:

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