## ADDENDUM NO. 4

**November 1, 2021** 

Fort Ben Branch Library Project 9330 East 56th Street Lawrence, IN 46216

## TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, and the Drawings and Specifications dated September 24, 2021, by Ratio Architects, Inc. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Page ADD 4-1 and attached Ratio Architects, Inc. Addendum No. 4 dated November 1, 2021, consisting of 2 pages, and Drawing Sheets: L-201, L-501 and L-702.

#### **ADDENDUM NO. 4**

DATE: 11 / 01 / 2021

PROJECT: FORT BENJAMIN HARRISON BRANCH

INDIANAPOLIS PUBLIC LIBRARY

LAWRENCE, INDIANA

RATIO PROJECT NUMBER: 18005.000

## **OWNER:**

INDIANAPOLIS PUBLIC LIBRARY INDIANAPOLIS, IN

2450 North Meridian Street Indianapolis, IN 46208 (317) – 275-4100

## **ARCHITECT / LANDSCAPE ARCHITECT:**

RATIO ARCHITECTS, INC.

101 South Pennsylvania Street Indianapolis, Indiana 46204-3684

Phone: (317) 633-4040 Fax: (317) 633-4153

## **STRUCTURAL ENGINEER:**

Lynch, Harrison, & Brumleve, Inc

550 Virginia Avenue Indianapolis, IN 46203 Phone: (317)-423-1550

## **MECHANICAL/ELECTRICAL ENGINEER:**

Loftus Engineering, Inc.

201 South Capitol Avenue, Suite 310 Indianapolis, IN 46225 Phone: (317) 352-5822

### **TECHNOLOGY DESIGN:**

Design 27

1650 East 49<sup>th</sup> Street Indianapolis, IN 46205 Phone: (317) 536-8000

### **CIVIL ENGINEER:**

The Schneider Corporation
Historic Fort Harrison
530 E. Ohio Street, Suite G
Indianapolis, IN 46204
Phone: (247) 655, 7777

Phone: (317) 655-7777

## **RATIO Design**

This Addendum is issued in accordance with the provisions of Contract Documents and becomes a part of the Contract Documents as provided therein. The information contained herein modifies the original Bidding Documents dated October 4, 2021 and all prior Addenda as applicable. Requirements of the original Bidding Documents and previous Addenda remain in effect except as modified by this Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

## PART 1 - GENERAL CLARIFICATIONS (BIDDER QUESTIONS & RESPONSE)

1. NONE.

## **PART 2 – PROJECT MANUAL CHANGES**

1. NONE.

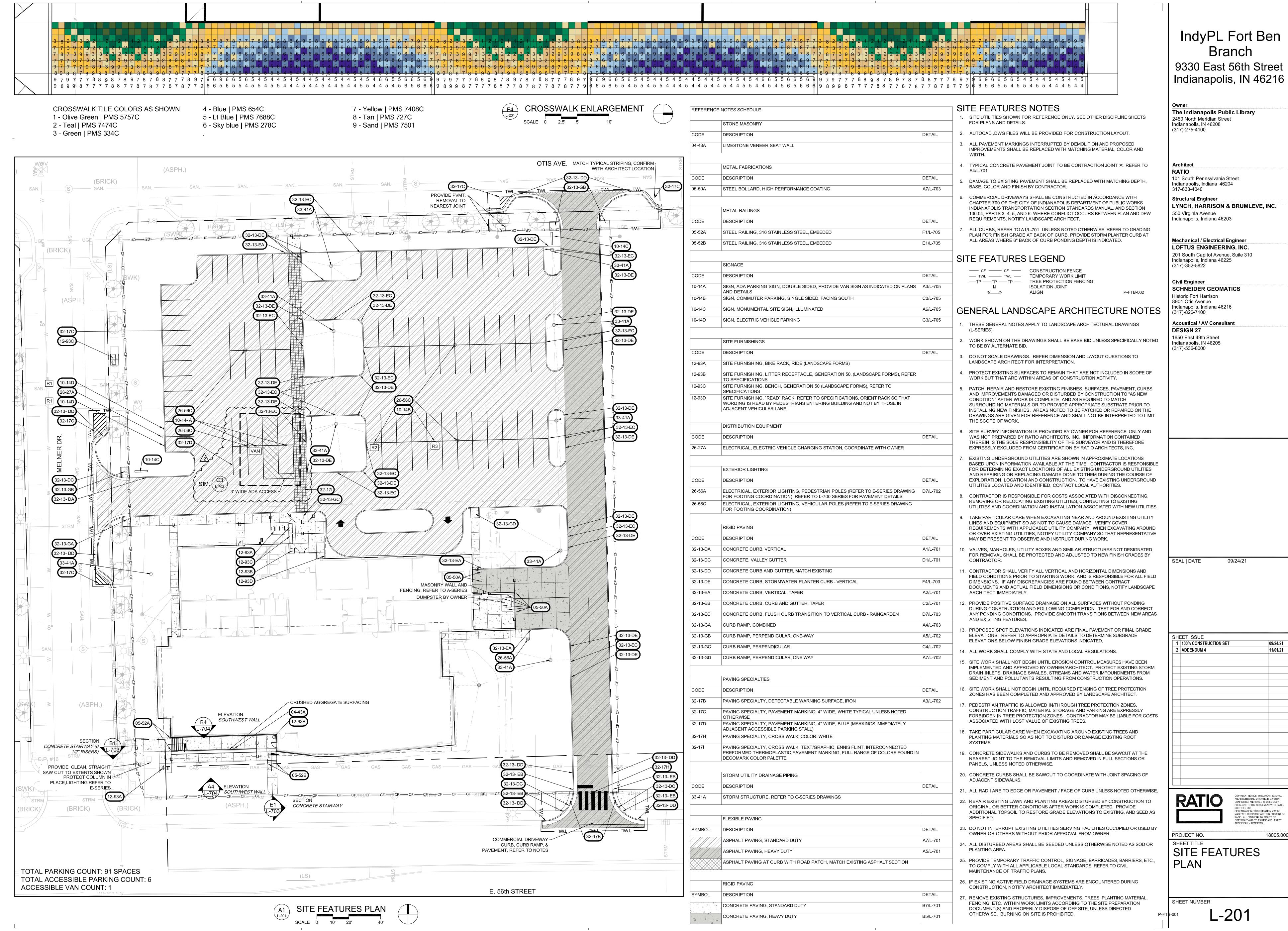
## **PART 3 - DRAWING SHEET CHANGES**

- 1. SHEET L-201 SITE FEATURES PLAN
  - a. See revised sheet.
  - b. Revised ADA striping and van accessible sign location.
- 2. SHEET L-501 PLANTING PLAN
  - a. See revised sheet.
  - b. Revised Note 10 Soil Depths
  - c. Revised Plant Schedule.
- 3. SHEET L-702 SITE DETAILS
  - a. See revised sheet.
  - b. Added Detail C3 Plan Enlargement | ADA Parking Layout
  - c. Added Details G6 International Symbol of Accessibility

## **PART 4 – ATTACHMENTS**

- 1. SHEET L-201 SITE FEATURES PLAN
- 2. SHEET L-501 PLANTING PLAN
- 3. SHEET L-702 DETAILS

**END OF ADDENDUM 04** 



# PLANTING NOTES

- 1. PARTICIPATE IN THE PRE-INSTALLATION CONFERENCE FOR THE PLANTING SCOPE OF WORK, ACCORDING TO THE PROJECT SPECIFICATIONS, PRIOR TO COMMENCEMENT.
- 2. MATCH GRAPHIC REPRESENTATION OF PLANTING DESIGN SHOWN UNLESS NOTED / DIMENSIONED OTHERWISE. REFER TO PROJECT DETAILS FOR PLACEMENT OF HATCHED AREAS.
- 3. DEVIATION FROM THE PLANTING PLAN DESIGN IN FORM OR MATERIALS WILL REQUIRE CORRECTION; COST INCURRED WILL BE CONTRACTOR'S.
- 4. EXISTING AND PROPOSED UTILITIES THAT ARE SHOWN ARE FOR REFERENCE ONLY. REFER TO THE SITE SURVEY FOR EXISTING
- UTILITIES AND VERIFY IN THE FIELD. REFER TO C-SERIES AND E-SERIES DRAWINGS FOR PROPOSED UTILITIES.
- 5. COMMENCEMENT OF PLANTING SCOPE CONSTITUTES ACCEPTANCE OF SITE CONDITIONS, SUBGRADE, AND SUBSOIL CONDITIONS. ENSURE THAT NECESSARY AND SPECIFIED PLANTING CONDITIONS HAVE BEEN ACHIEVED PRIOR TO LANDSCAPE INSTALLATION.
- 6. INSTALL SPECIFIED TURFGRASS SEED AT DISTURBED AREAS NOT OTHERWISE IDENTIFIED FOR PLANT MATERIAL.
- 7. PROVIDE 2" ORGANIC MULCH AT ALL PLANTING AREAS, UNLESS NOTED OTHERWISE. REFER TO DETAILS.
- 8. REFER TO SPECIFICATIONS FOR PLANT STAGING, HANDLING, PLANTING, AND STAKING REQUIREMENTS.
- 9. REMOVE OVERPOUR OF LIME STABILIZED SOILS FROM AREAS PROPOSED TO RECEIVE SOIL AND PLANTINGS PRIOR TO INSTALLATION OF SOILS AND PLANT MATERIAL. SUBGRADE TO BE REVIEWED PRIOR TO PLACEMENT OF PLANT AND SOIL MATERIAL PER SPECIFICATIONS. AREAS FOUND TO BE NON-CONFORMING WILL BE REJECTED.
- 10. SOIL DEPTHS: 10.1. SEEDED GRASS - SIX INCHES - IMPORTED TOPSOIL
- 10.2. SODDED GRASS FOUR INCHES IMPORTED TOPSOIL
- 10.4. NATIVE PLUG AREAS EIGHT INCHES IMPORTED TOPSOIL

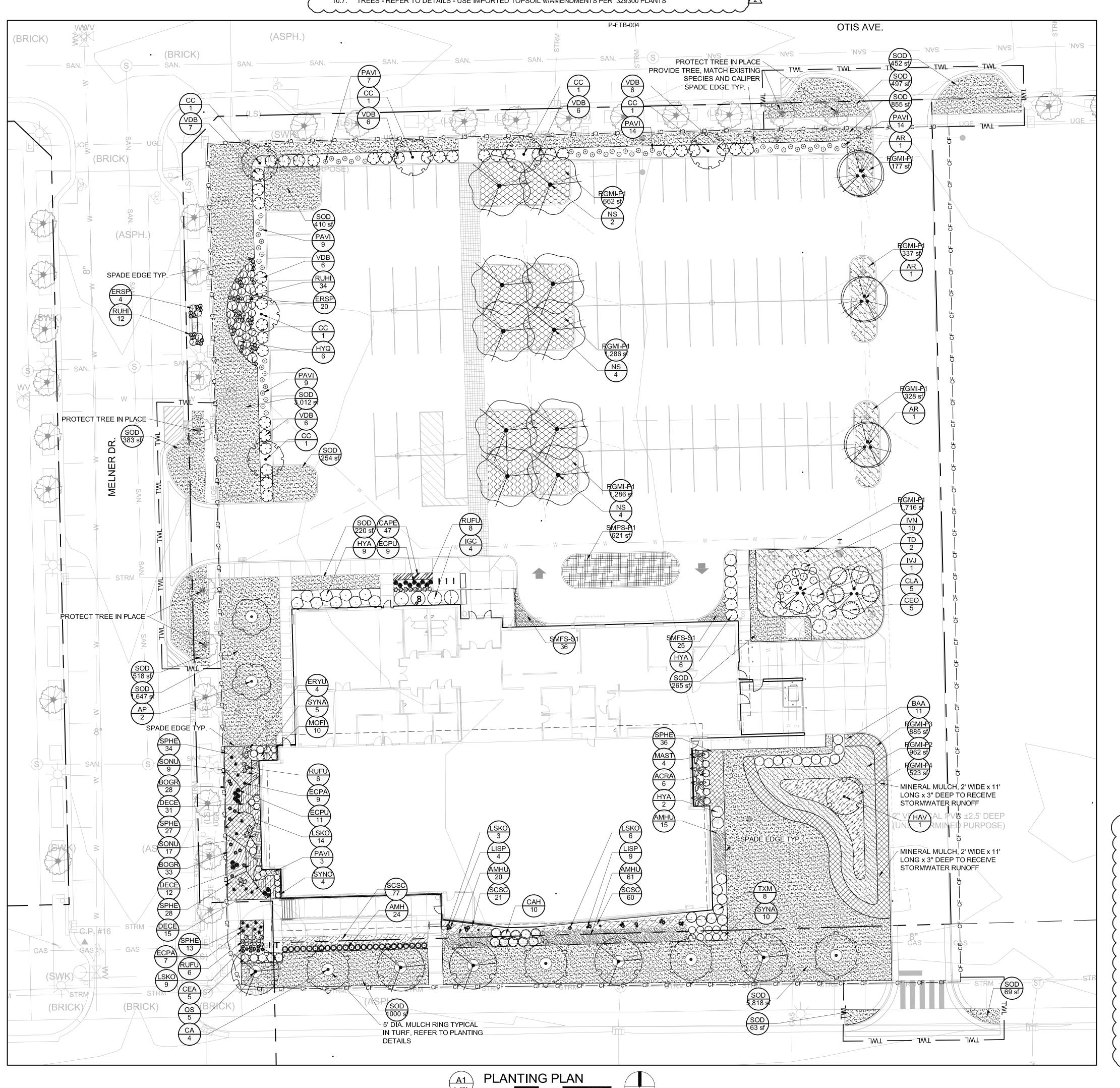
10.3. GROUND COVER - EIGHT INCHES - IMPORTED TOPSOIL

- 10.5. SHRUB AND PERENNIAL BEDS FOURTEEN INCHES IMPORTED TOPSOIL w/AMENDMENTS PER "329300 PLANTS"
- 10.6. STORMWATER PLANTER AREAS FOURTEEN INCHES WATER QUALITY MANAGEMENT FACILITY SOIL MIX 10.7. TREES - REFER TO DETAILS - USE IMPORTED TOPSOIL w/AMENDMENTS PER "329300 PLANTS"

# TREE PROTECTION NOTES

- 1. TREE PROTECTION FENCING SHALL BE 6'-0" HEIGHT GALVANIZED STEEL CHAIN LINK FENCE WITH IN-GROUND POSTS DIRECT BURIED. NO CONSTRUCTION TRAFFIC, MATERIAL OR EQUIPMENT STORAGE SHALL BE ALLOWED WITHIN FENCE LIMITS. PROVIDE 4'-0" WIDE GATED OPENINGS FOR OWNER ACCESS AND MAINTENANCE. GATES SHALL BE LOCKABLE. PROVIDE LOCKS AND KEYS FOR OWNER USE DURING CONSTRUCTION.
- 2. PROVIDE TREE PROTECTION FENCING AT EXISTING TREES TO REMAIN LOCATED OUTSIDE THE FENCED-IN CONSTRUCTION ZONE - AREAS DEMARCATED WITH TWL (TEMPORARY WORK LIMIT) BOUNDARIES. EXTEND TREE PROTECTION FENCE TO 2' BEYOND TREE CANOPY UNLESS PREVENTED BY SITE CONDITIONS. FENCE LOCATIONS MUST BE APPROVED IN THE FIELD BY LANDSCAPE ARCHITECT.

- 3. AN APPROVED LICENSED ARBORIST IS TO OVERSEE ALL REMOVALS WITHIN CRITICAL ROOT ZONES OF EXISTING TREES TO REMAIN. LICENSED ARBORIST IS TO PERFORM TREE PRUNING AND ROOT PRUNING ON TREE(S) TO REMAIN PER SPECIFICATIONS AND AS NEEDED DURING CONSTRUCTION.
- 4. TREE PROTECTION FENCING AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) NOTICE OF INTENT SHALL BE IN PLACE PRIOR TO BEGINNING DEMOLITION (AS REQUIRED).
- 5. FAILURE TO PROVIDE AND MAINTAIN TREE PROTECTION FENCE AND INDICATED AREA BY CONTRACTOR WILL REQUIRE CONSULTATION WITH LICENSED ARBORIST TO DETERMINE EXTENT OF DAMAGE. REMEDIATION OF DAMAGES TO PROTECTED TREES WILL BE AT CONTRACTOR COST.



DECIDUOUS SHADE TREE	BOTANICAL / COMMON NAME	SIZE	CAL	SIZE	. •	Indianapolis
	Acer rubrum `October Glory` / October Glory Red Maple	8` Minimum	3"			,
CA	Carpinus caroliniana / American Hornbeam	8` Minimum	3"			Owner
CC	Crataegus crus-galli `Cruzam` TM / Crusader Cockspur Hawthorn	8` Minimum	3"			<b>The Indianapolis Publ</b> 2450 North Meridian Stree
S	Nyssa sylvatica / Tupelo	8` Minimum	3"			Indianapolis, IN 46208 (317)-275-4100
QS ·D	Quercus shumardii / Shumard Oak  Taxodium distichum / Bald Cypress	8` Minimum	3"			
	Taxoulum distinum / Baid Oypross	)				
INDERSTORY TREES	BOTANICAL / COMMON NAME	SIZE	CAL	SIZE	ĺ	Architect RATIO
<sub>r</sub> P	Aesculus pavia / Red Buckeye SINGLE TRUNK	8' Minimum	3"	SINGLE STEM		101 South Pennsylvania S Indianapolis, Indiana  4620 317-633-4040
ECIDUOUS SHRUBS	BOTANICAL / COMMON NAME	SIZE				Structural Engineer LYNCH, HARRISON &
AA	Baptisia australis / Blue Wild Indigo	3 Gal.				550 Virginia Avenue Indianapolis, Indiana 4620
EA	Ceanothus americanus / New Jersey Tea	24" Ht.				inulariapolis, mularia 4020
CEO	Cephalanthus occidentalis / Buttonbush  Clethra alnifolia / Summersweet	30" Ht.				Mechanical / Electrical E
CAH	Clethra alnifolia 'Hummingbird' / Hummingbird Summersweet	24" Ht.				LOFTUS ENGINEERII 201 South Capitol Avenue
AV	Hamamelis virginiana / Common Witch Hazel	30" Ht.				Indianapolis, Indiana 4622 (317)-352-5822
IYA	Hydrangea arborescens / Wild Hydrangea	24" Ht.				Civil Funcion and
IYQ	Hydrangea quercifolia 'Pee Wee' / Pee Wee Oakleaf Hydrangea	24" Ht.				Civil Engineer SCHNEIDER GEOMA
/J	Ilex verticillata `Jim Dandy` / Jim Dandy Winterberry	24" Ht.				Historic Fort Harrison 8901 Otis Avenue
/N	Ilex verticillata `Nana` / Red Sprite Winterberry	24" Ht.				Indianapolis, Indiana 4621 (317)-826-7100
DB	Viburnum dentatum `Blue Muffin` / Blue Muffin Arrowwood Viburnum	30" Ht.				Acoustical / AV Consulta DESIGN 27
VERGREEN SHRUBS	BOTANICAL / COMMON NAME	SIZE				1650 East 49th Street Indianapolis, IN 46205
GC	Ilex glabra `Compacta` / Compact Inkberry	30" Ht.				(317)-536-8000
XM	Taxus x media `Dark Green Spreader` / Dark Green Spreader Anglojap Yew	24" Ht.				
GRASSES	BOTANICAL / COMMON NAME	SIZE				
RSP	Eragrostis spectabilis / Purple Lovegrass	3 Gal.				
PAVI	Panicum virgatum `Heavy Metal` / Heavy Metal Switch Grass	3 Gal.				
PERENNIALS ACRA	BOTANICAL / COMMON NAME  Actaea racemosa / Black Cohosh	SIZE 1 Gal.				
MH	Amsonia hubrichtii / Arkansas Bluestar	3 Gal.				
:CPA	Echinacea pallida / Pale Purple Coneflower	1 Gal.				
CPU	Echinacea purpurea / Coneflower	1 Gal.				
RYU	Eryngium yuccifolium / Rattlesnake Master	1 Gal.				
ISP SKO	Liatris spicata `Floristan Weiss` / Floristan White Spike Gayfeather  Liatris spicata `Kobold` / Kobold Spike Gayfeather	1 Gal.				
MAST	Matteuccia struthiopteris / Ostrich Fern	1 Gal.				
MOFI	Monarda fistulosa / Bergamot	3 Gal.				
RUFU	Rudbeckia fulgida sullivantii `Goldsturm` / Goldsturm Coneflower	1 Gal.				
RUHI	Rudbeckia hirta 'Indian Summer' / Indian Summer Black-eyed Susan	1 Gal.				
SYNO	Symphyotrichum novae-angliae / New England Aster	1 Gal.			•	SEAL   DATE
SYNA	Symphyotrichum novae-angliae `Purple Dome` / Purple Dome New England Aster	1 Gal.				
GRASSES	BOTANICAL / COMMON NAME	SIZE				
	Bouteloua gracilis / Blue Grama Grass	1 Gal.		21" o.c.		
	Carex pennsylvanica / Pennsylvania Sedge	1 Gal.		12" o.c.		
XIKKO XIKKO KIKUKIKIKI KA	Deschampsia cespitosa / Tufted Hair Grass	1 Gal.		21" o.c.	<b> </b> -	SHEET ISSUE
						1 100% CONSTRUCTION SET 2 ADDENDUM 4
	Schizachyrium scoparium / Little Bluestem	3 Gal.		21" o.c.		
	Sorghastrum nutans / Indian Grass	1 Gal.		21" o.c.		
	Sporobolus heterolepis / Prairie Dropseed	1 Gal.		24" o.c.		
IERBACEOUS PERENNIAL	BOTANICAL / COMMON NAME	SIZE				
Wast wast wast wast wast was	Amsonia hubrichtii / Arkansas Bluestar	3 Gal.		30" o.c.		
NIXES	Rain Garden Mix - Full Sun Mix 1 / Rain Garden Mix - Full Sun Mix 1	SIZE  Refer to Remarks	For hide	ling: 3 Echinacea pallida		
	Carex brevior; Carex vulpinoidea (equally; 18" o.c.,1 GL.); Echinacea pallida (72" o.c. in groups of 1-3, Quart)	TOTAL TO INCINIALIKS		together @ 72" o.c. overlaid	<b>\[ \]</b>	
	Rain Garden Mix - Full Sun Mix 2 / Rain Garden Mix - Full Sun Mix 2 Carex brevior; Carex vulpinoidea (equally; 18" o.c.1 GL) <del>; Asclepias syriaca ( 36"</del>	Refer to Remarks	o.c. ove	ling: 4 Ratibida pinnata @ 60" rlaid on carex; 2 Liatris spicata	$  \langle       \rangle$	
	o.c, Quart); Ratibidia pinnata (60" o.c. in groups of 3-5, Quart)); Liatris spicata		@ 8' o.c spicata.	. overlaid on carex and L	<b>                                     </b>	
	Rain Garden Mix - Full Sun Mix 3 / Rain Garden Mix - Full Sun Mix 3	Refer to Remarks		ing: calculate plants @ 24" o.c.	$\mid \cdot \mid \mid \cdot \mid$	
	Sporobolus heterolepis (24" o.c., 1 GL.); Asclepias tuberosa (48" o.c., 1 GL.)  Rain Garden Mix - Full Sun Mix 4 / Rain Garden Mix - Full Sun Mix 4	Refer to Remarks	4:1 plar	Sporobolus:Asclepias ratio = ts; do not overlay. ling: calculate plants @ 18"	<b>                                     </b>	<b>RATIO</b>
THE STATE OF THE S	Carex brevior; Carex vulpinoidea (equally: 24" o.c., 1 GL.); Lobelia siphilitica (30" o.c., Quart); Asclepias incarnata (48" o.c., Quart); Lobelia cardinalis (36" o.c.,		o.c. x 8	7:1:2 plants; do not overlay.		
	Quart) 18" Rain Garden Mix - Part Sun Mix / Rain Garden Mix - Part Sun Mix	Refer to Remarks		ling: calculate plants @ 18" o.c.	<b>3</b>   1	
******	Carex brevior; Carex vulpinoidea (equally; 18" o.c., 1 GL.); Lobelia siphilitica (36" o.c., Quart); Conoclinium coelestinum (24" o.c. Quart), Marcissus trumpet `Dutch		x 80%; ratio = 7	Carex:Lobelia:Conoclinium :1:2 plants; do not overlay.	<b> </b>	PROJECT NO. SHEET TITLE
	Master` (groupings of 3-5 from 2` from back of curb to back of curb, spac 24" o.c.)  Shade Mix - Full Shade Mix 1 / Shade Mix - Full Shade Mix 1	Refer to Remarks	Add 60	Narcissus, overlaid.  18" o.c.	) [	PLANTING
lalalalalalalalalalalalalalalalalalala	3:1 Mix of Carex Pensylvanica (1 GL.) and Tiarella cordifolia (straight species, 1 GL).				<b>\lambda</b>	
Mallallallallallallallallallallallallall	Mix of Carex Pensylvanica (12" o.c., 1 GL.) and Allium cernuum (irregular drifts of	Refer to Remarks	For bide	ling: Carex:Liatris ratio = 12:1; verlay.		
	5-7 throughout mix 6" 0.0.) and Lintric spicate 'Kohold' Ot imaginate difference of the		1	i i	, I	
	5-7 throughout mix - 6" o,c,) and Liatris spicata `Kobold` Qt. irregular drifts of 3-5 throughout mix - 2" o,c,. Drifted plants do not replace Carex, but drifted between.  BOTANICAL / COMMON NAME 12"	SIZE			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	

# IndyPL Fort Ben Branch

9330 East 56th Street dianapolis, IN 46216

ndianapolis Public Library North Meridian Street apolis, IN 46208 275-4100

outh Pennsylvania Street apolis, Indiana 46204

ural Engineer CH, HARRISON & BRUMLEVE, INC.

nical / Electrical Engineer **TUS ENGINEERING, INC.** outh Capitol Avenue, Suite 310

apolis, Indiana 46225 352-5822 IEIDER GEOMATICS c Fort Harrison Otis Avenue

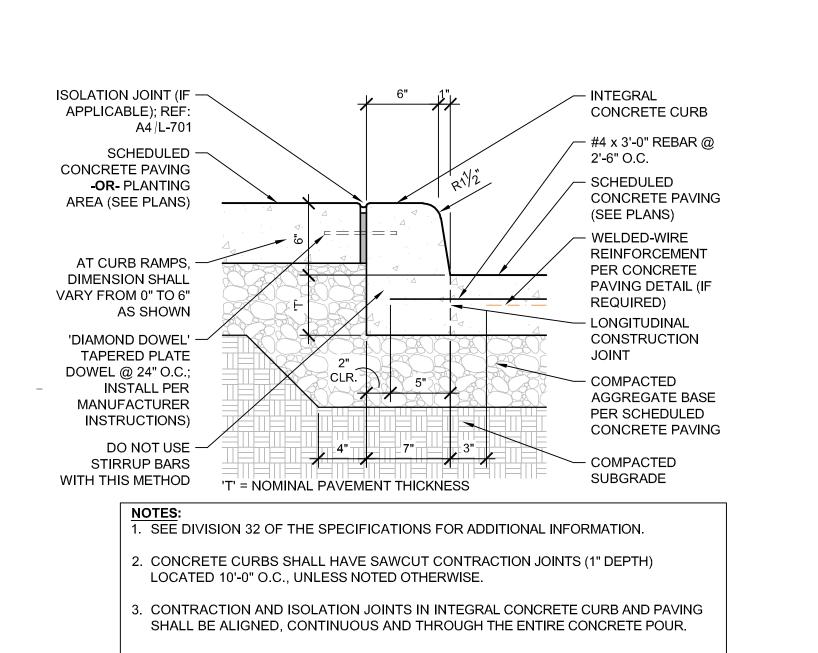
apolis, Indiana 46216 326-7100 stical / AV Consultant GN 27 East 49th Street apolis, IN 46205 536-8000

% CONSTRUCTION SET

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ANTING PLAN

L-501



SECTION | INTEGRAL CURB (BARRIER)

2" O.C. 2" O.C. 2" O.C. - BROOM FINISH TRANSVERSE TO THE

P-FTB-032

- TOOLED RAMF

GROOVES

# **CURB RAMP GENERAL NOTES:**

SECTION | RAMP GROOVES

- 1. ALL SLOPES ARE ABSOLUTE RATHER THAN RELATIVE TO THE SIDEWALK OR ROADWAY GRADE. SLOPES AT LEAST 0.50% LESS THAN THE MAXIMUM ARE PREFERRED.
- 2. RAMP OR BLENDED TRANSITION: A RAMP OR BLENDED TRANSITION SHALL BE USED TO LOWER OR RAISE THE SIDEWALK TO CONNECT WITH THE STREET OR HIGHWAY.

3. TURNING SPACE: A TURNING SPACE SHALL BE PROVIDED AT THE TOP OF A PERPENDICULAR RAMP, BOTTOM OF A PARALLEL RAMP, OR WHERE THE PEDESTRIAN TRAVEL REQUIRES A CHANGE IN DIRECTION. A COMMON TURNING SPACE MAY BE SHARED BY ADJACENT RAMPS. THE TURNING SPACE SHALL HAVE A MINIMUM CLEAR DIMENSION OF 4'-0" x 4'-0". WHERE THE TURNING SPACE IS CONSTRAINED AT THE BACK OF THE SIDEWALK BY A CURB, RETAINING WALL, BUILDING, OR FEATURE OVER 2" IN HEIGHT, THE MINIMUM CLEAR DIMENSION SHALL BE 4'-0" x 5'-0", WITH THE 5'-0" DIMENSION IN THE DIRECTION OF THE RAMP RUNNING SLOPE

4. FLARED SIDE: A FLARED SIDE SHALL BE USED ADJACENT TO A WALKABLE SURFACE. A FLARED SIDE MAY BE USED ADJACENT TO A NON-WALKABLE SURFACE. A FLARED SIDE SHALL HAVE A MAXIMUM SLOPE OF 10,00% MEASURED PARALLEL TO THE BACK OF CURB. 5. RETURN CURB: A RETURN CURB IS PLACED PERPENDICULAR TO THE ROADWAY CURB. A RETURN CURB MAY BE USED ADJACENT TO A NON-WALKABLE SURFACE. A RETURN CURB SHALL NOT BE USED ADJACENT TO A WALKABLE SURFACE.

6. CLEAR SPACE: A CLEAR SPACE SHALL BE PROVIDED BEYOND THE BOTTOM GRADE BREAK OF A CURB RAMP WHOLLY CONTAINED WITHIN HE CROSSWALK AND WHOLLY OUTSIDE THE PARALLEL VEHICULAR TRAVEL PATH. THE CLEAR SPACE SHALL HAVE A MINIMUM CLEAR DIMENSION OF 4'-0" x 4'-0".

7. DETECTABLE WARNING SURFACE: A DETECTABLE WARNING SURFACE SHALL BE PLACED AT EACH STREET, HIGHWAY, OR RAILROAD CROSSING. A DETECTABLE WARNING SURFACE SHALL EXTEND A MINIMUM OF 2'-0" IN THE DIRECTION OF PEDESTRIAN TRAVEL AND BE PLACED THE ENTIRE WIDTH OF THE RAMP, BLENDED TRANSITION, OR TURNING SPACE. SEE PLANS AND SPECIFICATIONS FOR THE SPECIFIC DETECTABLE WARNING SURFACE MATERIALS TO BE UTILIZED. "TACTILE WARNING SURFACE" SHALL BE SYNONYMOUS WITH "DETECTABLE WARNING SURFACE."

8. RUNNING SLOPE: THE RUNNING SLOPE OF A RAMP, BLENDED TRANSITION, OR TURNING SPACE SHALL BE MEASURED PARALLEL TO THE DIRECTION OF PEDESTRIAN TRAVEL.

- 8.1. A RUNNING SLOPE OF 2.00% OF LESS IS CONSIDERED LEVEL.
- 8.2. A RAMP SHALL HAVE A MAXIMUM RUNNING SLOPE OF 8.33% BUT SHALL NOT REQUIRE A RAMP LENGTH TO EXCEED 15'-0".
- 8.3. A BLENDED TRANSITION SHALL HAVE A MAXIMUM RUNNING SLOPE OF 5.00%.
- 8.4. A TURNING SPACE SHALL HAVE A MAXIMUM RUNNING SLOPE OF 2.00%.
- 9. WIDTH: UNLESS OTHERWISE NOTED, MINIMUM WIDTH OF A RAMP, BLENDED TRANSITION, OR TURNING SPACE, EXCLUDING FLARED SIDES OR RETURN CURB, SHALL BE 4'-0".

10. GRADE BREAK: A GRADE BREAK AT THE TOP AND BOTTOM OF A RAMP, BLENDED TRANSITION, OR TURNING SPACE, SHALL BE PERPENDICULAR TO THE RUNNING SLOPE. GRADE BREAKS SHALL NOT BE WITHIN THE RAMP, BLENDED TRANSITION, TURNING SPACE, OR DETECTABLE WARNING SURFACE. GRADE BREAKS SHALL BE FLUSH. VERTICAL DISCONTINUITIES SHALL NOT BE GREATER THAN ½". WHERE A DISCONTINUITY IS GREATER THAN ¼" THE SURFACE SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1V:2H.

PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL.

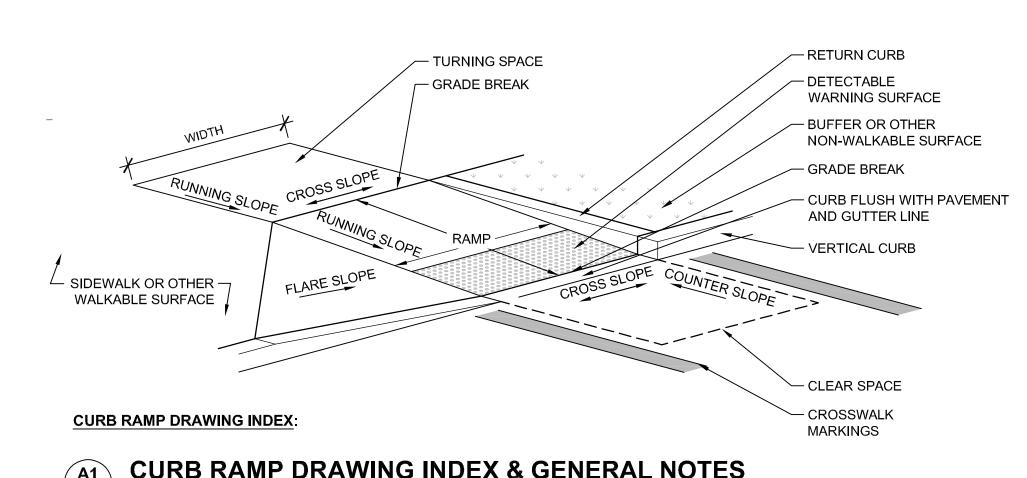
11. CROSS SLOPE EXCEPTIONS: THE CROSS SLOPE OF A RAMP, BLENDED TRANSITION, OR TURNING SPACE SHALL BE MEASURED

- 11.1.THE MAXIMUM CROSS SLOPE AT A PEDESTRIAN CROSSING WITHOUT YIELD OR STOP CONTROL SHALL BE 5.00%.
- 11.2.THE MAXIMUM CROSS SLOPE AT A PEDESTRIAN STREET CROSSING WITH YIELD OR STOP CONTROL SHALL BE 2.00%. 11.3.THE MAXIMUM CROSS SLOPE AT A MID-BLOCK CROSSING SHALL BE THE ESTABLISHED GRADE OF THE ADJACENT ROADWAY.

12. OBJECTS SUCH AS A UTILITY COVER, VAULT FRAME, AND GRATING SHALL BE PLACED OUTSIDE THE CURB RAMP.

13. CURB RAMPS SHALL BE PLACED WITHIN THE MARKED CROSSWALK AREA.

14.DRAINAGE INLETS SHOULD BE LOCATED UPHILL FROM A CURB RAMP TO PREVENT PONDING IN THE PATH OF PEDESTRIAN TRAVEL. 15. REFER TO THE INDIANA DEPARTMENT OF TRANSPORTATION STANDARD CURB RAMP DRAWINGS (CURRENT VERSION) FOR ADDITIONAL INFORMATION.



TACTILE WARNING SIDEWALK (SEE PLANS) — SURFACING, IF APPLICABLE (SEE PLANS FOR TYPE) (REF: A4/L-701) TOOLED RAMP GROOVES -@ 2" O.C (REF: E1/L-702) SCHEMATIC ISOMETRIC VIEW: CONCRETE CURB, FLUSH (REF: B1/L-701) FLARE WIDTH RAMP WIDTH CONCRETE PAVING (MATCH ADJACENT SIDEWALK CROSS 1:10 MAX. SIDEWALK (SEE PLANS) SECTION **ISOLATION JOINT** ISOLATION JOINT (REF: A4/L-701) (REF: A4/L-701) TACTILE WARNING TOOLED RAMP GROOVES -SURFACING, IF @ 2" O.C (REF: E1/L-702) APPLICABLE (SEE PLANS FOR TYPE) ISOLATION JOINT -(REF: A4/L-701) - CONCRETE CURB, FLUSH 1:12 MAX (REF: B1/L-701) - ROADWAY PAVING (SEE PLANS) - ISOLATION JOINT CONCRETE PAVING -**SECTION VIEW 'A-A'** (REF: A4/L-701) (MATCH ADJACENT SIDEWALK CROSS SECTION FLARE WIDTH RAMP WIDTH FLARE WIDTH - ISOLATION JOINT (REF: A4/L-701) SIDEWALK (SEE -PLANS) - CONCRETE PAVING (MATCH ADJACENT SIDEWALK CROSS TOOLED RAMP GROOVES @ 2" O.C. (REF: E1/L-702) TACTILE WARNING SURFACING, IF APPLICABLE (SEE PLANS FOR TYPE) - ISOLATION JOINT (REF: A4/L-701) - CONCRETE CURB, VERTICAL (REF: A1/L-701) -ROADWAY PAVING (SEE - CONCRETE CURB, FLUSH PLAN VIEW: (REF: B1/L-701) . SEE DIVISION 32 OF THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

2. CONCRETE PAVING JOINTS: SEE A4/L-701 FOR JOINT DETAILS.

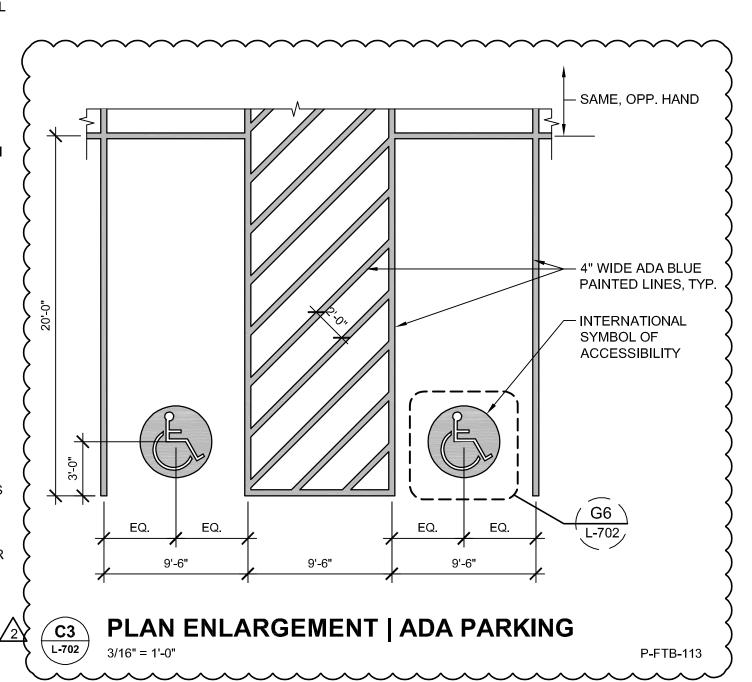
- $3.\,$  COMPLY WITH CURB RAMP DRAWING INDEX AND GENERAL NOTES. REFER TO A 1/L -702.

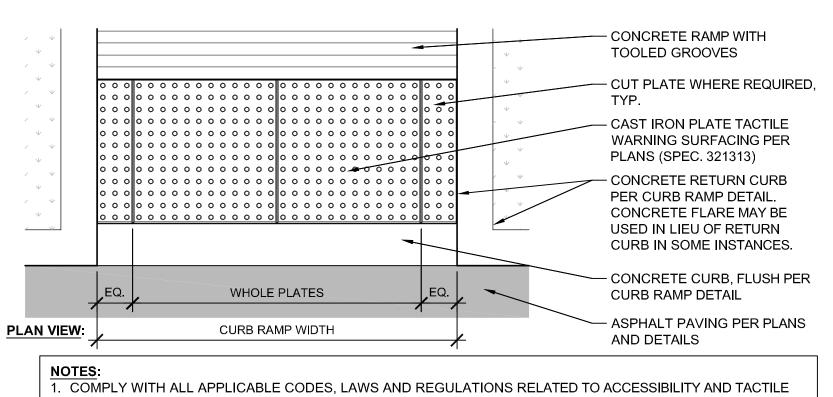
5. CURB RAMP SURFACE SHALL BE COARSE-BROOMED TRANSVERSE TO THE RUNNING SLOPE.

4. THE BOTTOM EDGE OF THE RAMP AND TOP OF CURB SHALL BE FLUSH WITH THE EDGE OF ADJACENT PAVEMENT AND GUTTER LINE

PERPENDICULAR CURB RAMP W/ ADJACENT WALKABLE SURFACE

**DETAIL | PERPENDICULAR CURB RAMP (CONCRETE)** 





WARNING SURFACING.

- 2. COMPLY WITH CURB RAMP DRAWING INDEX AND GENERAL NOTES. REFER TO A1/L-702.
- INSTALL PLATES TIGHT SO THAT CONCRETE MATERIAL DOES NOT APPEAR IN JOINTS.
- WHEN INSTALLED ON RADIUS, INSTALL PLATES AND CONCRETE SLAB TRUE TO RADIUS WITH TIGHT JOINTS TO AVOID WEDGE-SHAPED GAPS BETWEEN PLATES PRIOR TO INSTALLATION CURBING. CONCRETE CURBING CAN THEN BE FORMED TO MEET PROPERLY INSTALLED CAST IRON TACTILE WARNING PLATES.
- WHEN PLATES MUST BE CUT TO FIT THE ALLOCATED SPACE FOR TACTILE WARNING SURFACING, PLATES OF WHOLE SIZE SHALL BE CENTERED IN THE SPACE WITH TWO (2) CUT PLATES OF EQUAL SIZE FITTING OUT EACH END AS APPLICABLE. CUT PLATES SHALL NOT BE INSTALLED IN THE CENTER OF AN INSTALLATION.

CAST IRON TACTILE WARNING PLATE APPLICATION **DETAIL | TACTILE WARNING SURFACING** 

P-FTB-017

P-FTB-009

P-FTB-018

RETURN CURB, TYF

(REF: SIM. F1/L-702)

GROOVES @ 2" O.C.

TOOLED RAMP

(REF: E1/L-702)

**ISOLATION JOINT** 

(REF: A4/L-701)

CONCRETE PAVING

(MATCH ADJACENT

SIDEWALK CROSS

RETURN CURB, TYP.

(REF: SIM. F1/L-702)

**ROADWAY PAVING** 

(SEE PLANS)

A1/L-702

RUNNING SLOPE.

PLAN VIEW:

SIDEWALK (SEE

SECTION

PLANS)

SECTION VIEW 'B-B'

**SECTION VIEW 'A-A'** 

RAMP LENGTH

1:12 MAX

RAMP WIDTH

1. SEE DIVISION 32 OF THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

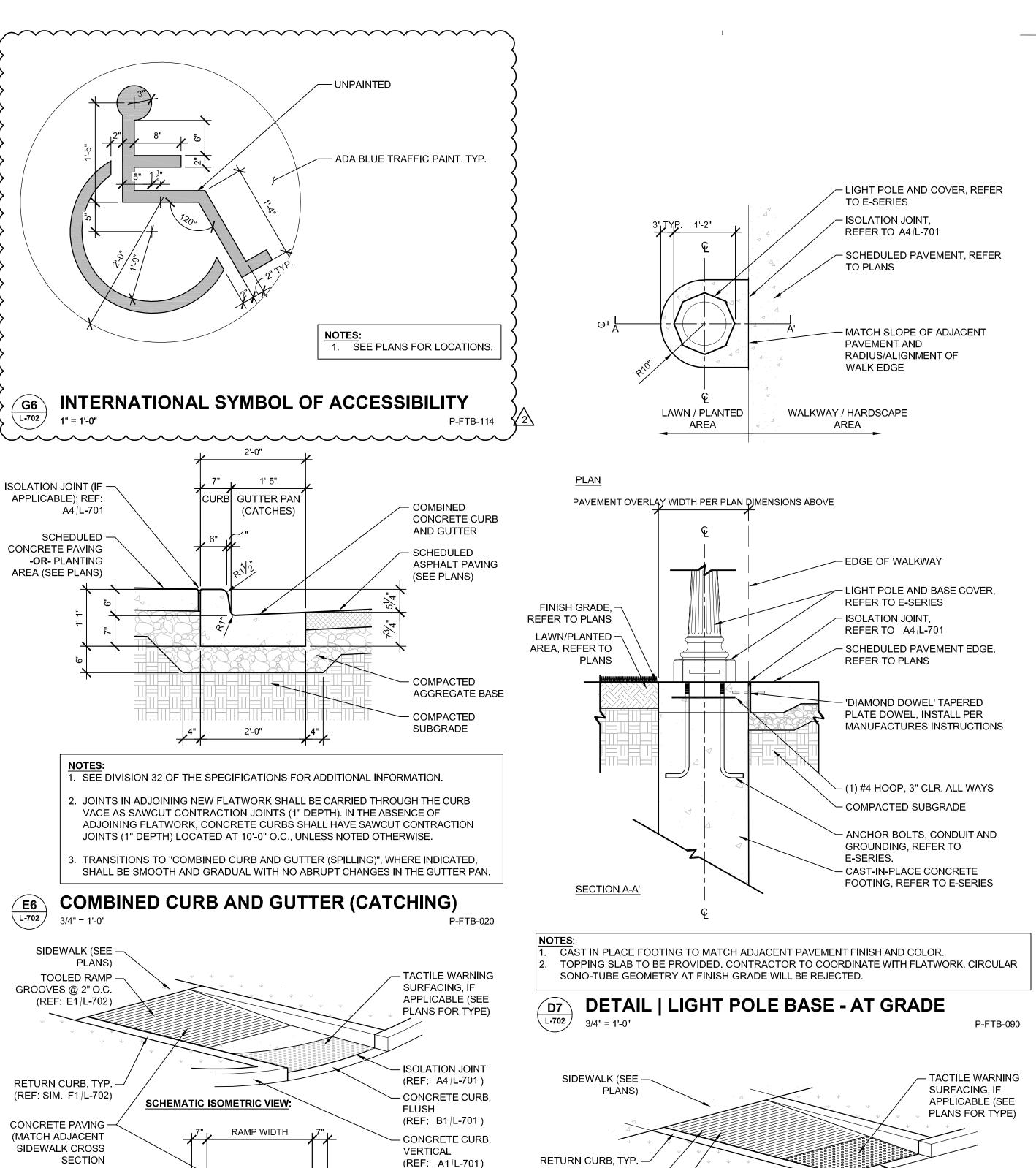
3. COMPLY WITH CURB RAMP DRAWING INDEX AND GENERAL NOTES. REFER TO

5. CURB RAMP SURFACE SHALL BE COARSE-BROOMED TRANSVERSE TO THE

4. THE BOTTOM EDGE OF THE RAMP AND TOP OF CURB SHALL BE FLUSH WITH THE

2. CONCRETE PAVING JOINTS: SEE A4/L-701 FOR JOINT DETAILS.

EDGE OF ADJACENT PAVEMENT AND GUTTER LINE.



- FINISH GRADE

(SEE PLANS)

FLUSH

PLANS)

SECTION

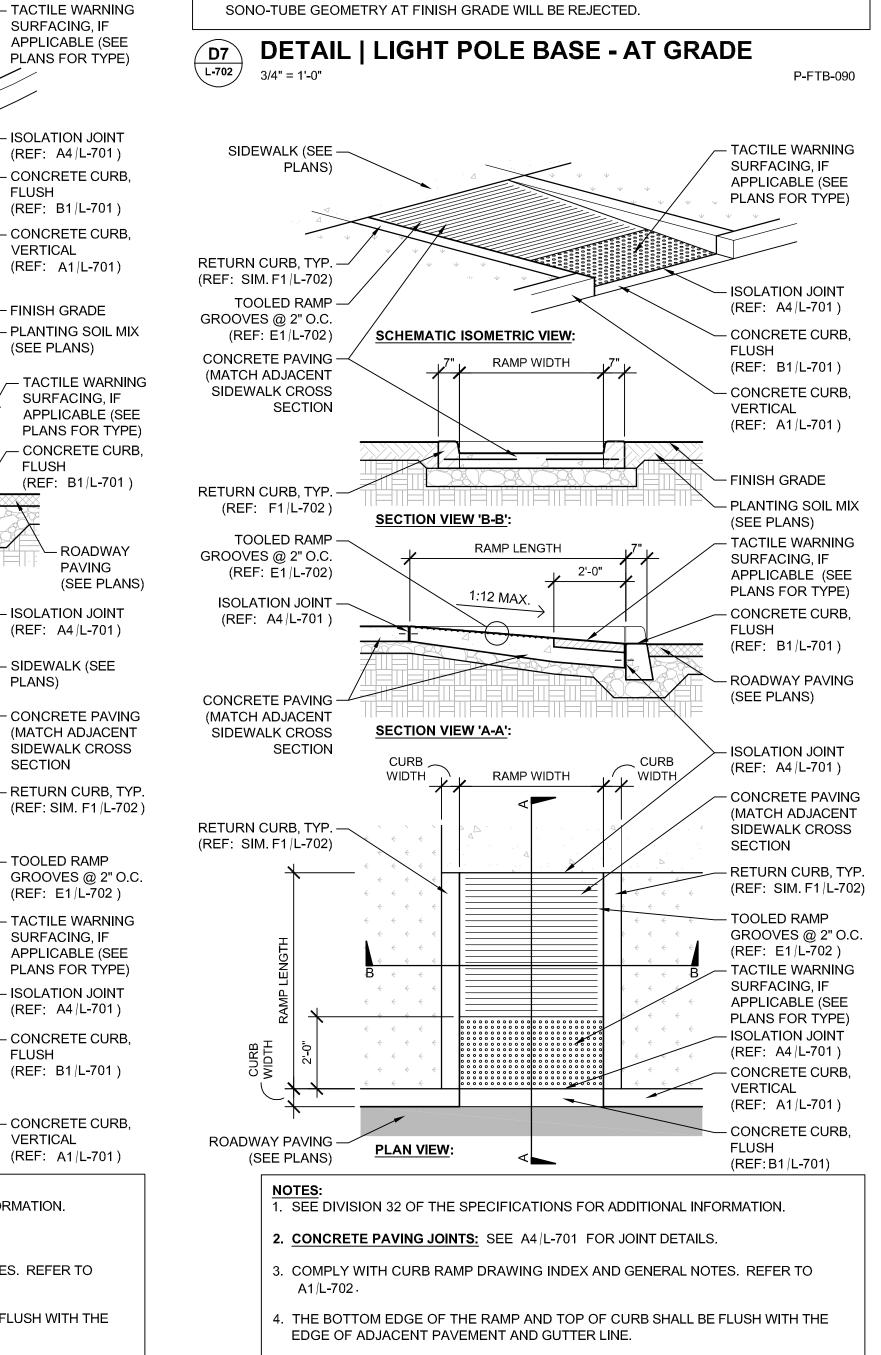
TOOLED RAMP

SURFACING, IF

VERTICAL

PAVING

LANDING



5. CURB RAMP SURFACE SHALL BE COARSE-BROOMED TRANSVERSE TO THE

IndyPL Fort Ben Branch

9330 East 56th Street Indianapolis, IN 46216

The Indianapolis Public Library 2450 North Meridian Street Indianapolis, IN 46208 (317)-275-4100

Architect RATIO 101 South Pennsylvania Street Indianapolis, Indiana 46204

Structural Engineer LYNCH, HARRISON & BRUMLEVE, INC. 550 Virginia Avenue Indianapolis, Indiana 46203

317-633-4040

(317)-352-5822

(317)-826-7100

Mechanical / Electrical Engineer LOFTUS ENGINEERING, INC 201 South Capitol Avenue, Suite 310 Indianapolis, Indiana 46225

Civil Engineer **SCHNEIDER GEOMATICS** Historic Fort Harrison 8901 Otis Avenue Indianapolis, Indiana 46216

Acoustical / AV Consultant **DESIGN 27** 1650 East 49th Street Indianapolis, IN 46205 (317)-536-8000

SEAL | DATE 09/24/21

SHEET ISSUE 1 100% CONSTRUCTION SET 11/01/21 ADDENDUM 4

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PROJECT NO. SITE DETAILS

P-FTB-013

L-702

ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP WITH BUFFER PERPENDICULAR CURB RAMP W/ ADJACENT NON-WALKABLE SURFACE DETAIL | ONE-WAY PERPENDICULAR CURB RAMP DETAIL | PERPENDICULAR CURB RAMP L-702 3/8" = 1'-0"

RUNNING SLOPE.