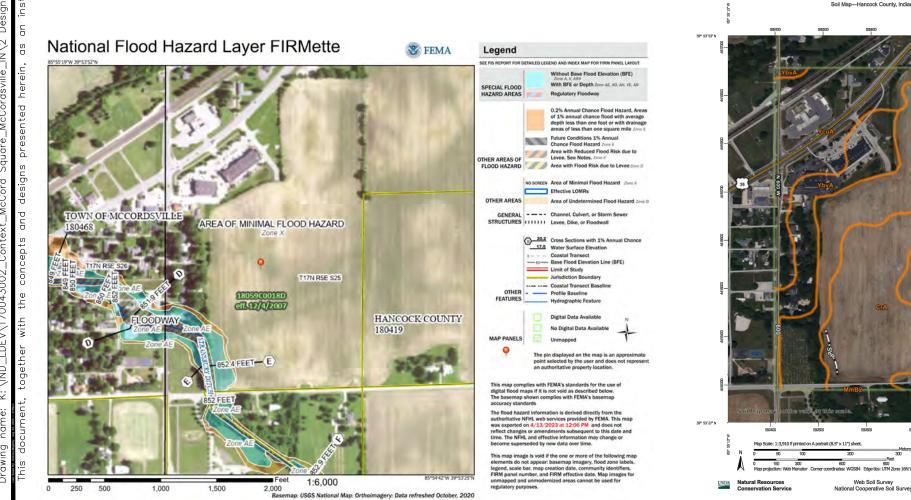
FINAL ENGINEERING PLANS NINESTAR CONNECT TOWN OF MCCORDSVILLE, IN 46055

UTILITY AND GOVERNING AGENCY CONTACTS											
COMPANY / DEPT.	ADDRESS	PHONE NUMBER	CONTACT								
AQUA INDIANA	5750 CASTLE CREEK PARKWAY NORTH DR. SUITE 314, INDIANAPOLIS, IN 46250	(317) 577-1390	JIM SHIELDS, P.E.								
McCORDSVILLE PUBLIC WORKS	6280 W 800 N McCORDSVILLE, IN 47201	(317) 335-3493	RON CRIDER								
CITIZENS ENERGY GROUP/CWA AUTHORITY, INC	2150 DR MARTIN LUTHER KING JR ST., INDIANAPOLIS, IN 46202	(317) 927-4351	BRAD HOSTETLER								
CENTERPOINT ENERGY	101 WEST OHIO ST., INDIANAPOLIS, IN 46202	(800) 227-1376	DAVID SHERRY								
DUKE ENERGY SERVICE AND INSTALLATION DEPT.	2727 CENTRAL AVE, COLUMBUS, IN 47201	(317) 774-0246	RYAN DAUGHERTY								
NINESTAR CONNECT	2243 E MAIN ST GREENFIELD, IN 46140	(317) 323-2081	JASON WARRICK								
McCORDSVILLE PUBLIC WORKS	6280 W 800 N McCORDSVILLE, IN 47201	(317) 335-3493	RON CRIDER								
McCORDSVILLE PLANNING AND BUILDING DEPARTMENT	6280 W 800 N McCORDSVILLE, IN 46055	(317) 335-3604	RYAN CRUM								
	COMPANY / DEPT. AQUA INDIANA McCORDSVILLE PUBLIC WORKS CITIZENS ENERGY GROUP/CWA AUTHORITY, INC CENTERPOINT ENERGY DUKE ENERGY SERVICE AND INSTALLATION DEPT. NINESTAR CONNECT McCORDSVILLE PUBLIC WORKS	COMPANY / DEPT.ADDRESSAQUA INDIANA5750 CASTLE CREEK PARKWAY NORTH DR. SUITE 314, INDIANAPOLIS, IN 46250McCORDSVILLE PUBLIC WORKS6280 W 800 N McCORDSVILLE, IN 47201CITIZENS ENERGY GROUP/CWA AUTHORITY, INC2150 DR MARTIN LUTHER KING JR ST., INDIANAPOLIS, IN 46202CENTERPOINT ENERGY INSTALLATION DEPT.101 WEST OHIO ST., INDIANAPOLIS, IN 46202NINESTAR CONNECT2243 E MAIN ST GREENFIELD, IN 46140McCORDSVILLE PUBLIC WORKS6280 W 800 N McCORDSVILLE, IN 47201	COMPANY / DEPT.ADDRESSPHONE NUMBERAQUA INDIANA5750 CASTLE CREEK PARKWAY NORTH DR. SUITE 314, INDIANAPOLIS, IN 46250(317) 577-1390McCORDSVILLE PUBLIC WORKS6280 W 800 N McCORDSVILLE, IN 47201(317) 335-3493CITIZENS ENERGY GROUP/CWA AUTHORITY, INC2150 DR MARTIN LUTHER KING JR ST., INDIANAPOLIS, IN 46202(317) 927-4351CENTERPOINT ENERGY IN 46202101 WEST OHIO ST., INDIANAPOLIS, IN 46202(800) 227-1376DUKE ENERGY SERVICE AND INSTALLATION DEPT.2727 CENTRAL AVE, COLUMBUS, IN 46140(317) 774-0246NINESTAR CONNECT2243 E MAIN ST GREENFIELD, IN 46140(317) 323-2081McCORDSVILLE PUBLIC WORKS6280 W 800 N McCORDSVILLE, IN 47201(317) 335-3493								

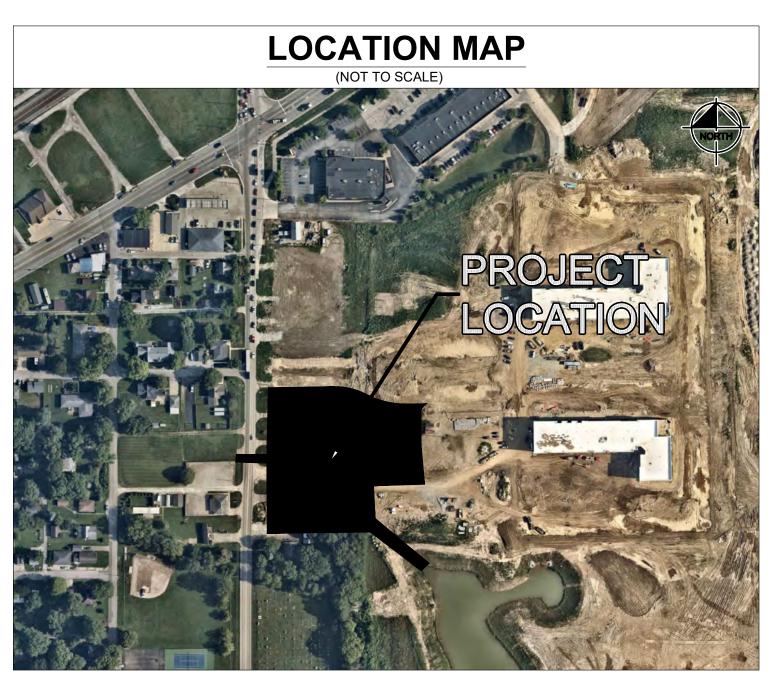
PROJECT TEAM								
ROLE	COMPANY	ADDRESS	PHONE NUMBER	CONTACT				
OWNER	NINESTAR CONNECT	2243 EAST MAIN STREET GREENFIELD, IN 46140	(317) 326-3131					
CIVIL ENGINEER	KIMLEY-HORN & ASSOCIATES, INC.	500 E. 96TH ST., STE 300, INDIANAPOLIS, IN 46240	(317) 218-9560	BILL BUTZ, PE				
LANDSCAPE ARCHITECT	CONTEXT DESIGN	5825 LAWTON LOOP EAST DRIVE INDIANAPOLIS, IN 46216	(317) 485-6900	LIZ MOONEY				
LAND SURVEYOR	CENTRAL STATES CONSULTING, LLC	23-B NORTH GREEN STREET, BROWNSBURG, IN 46112	(317) 858-8662	DONALD R. MOSSON				

LEGAL DESCRIPTION

LOT 6 OF MCCORD SQUARE







HANCOCK COUNTY

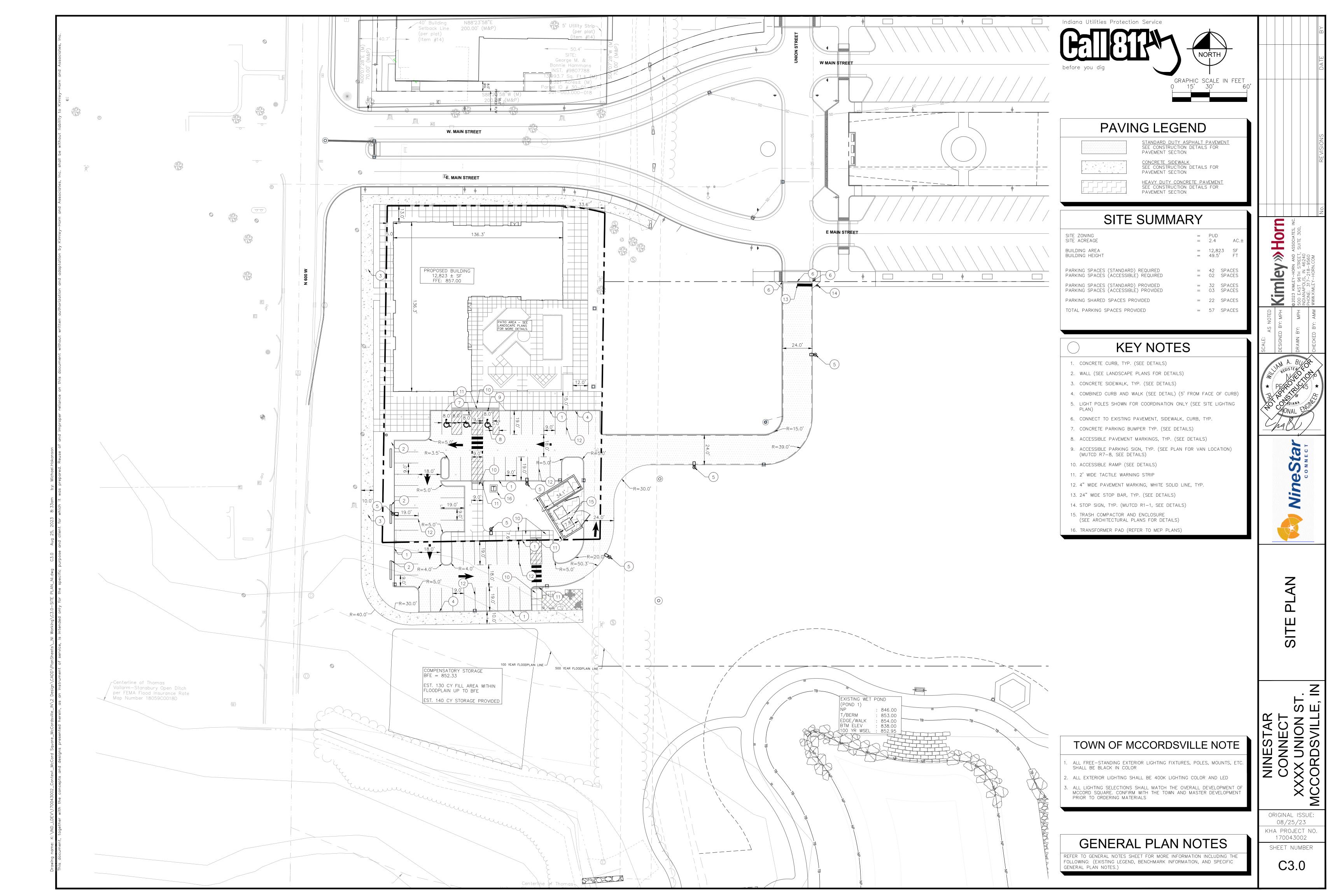
CONSTRUCTION OF A ±12,823 SF OFFICE BUILDING WITH ACCOMPANYING PARKING LOT AND DRIVES ON 2.8 AC. PROJECT IS IN SECTION 25 OF T17N, R5E IN THE TOWN OF MCCORDSVILLE, HANCOCK COUNTY, INDIANA

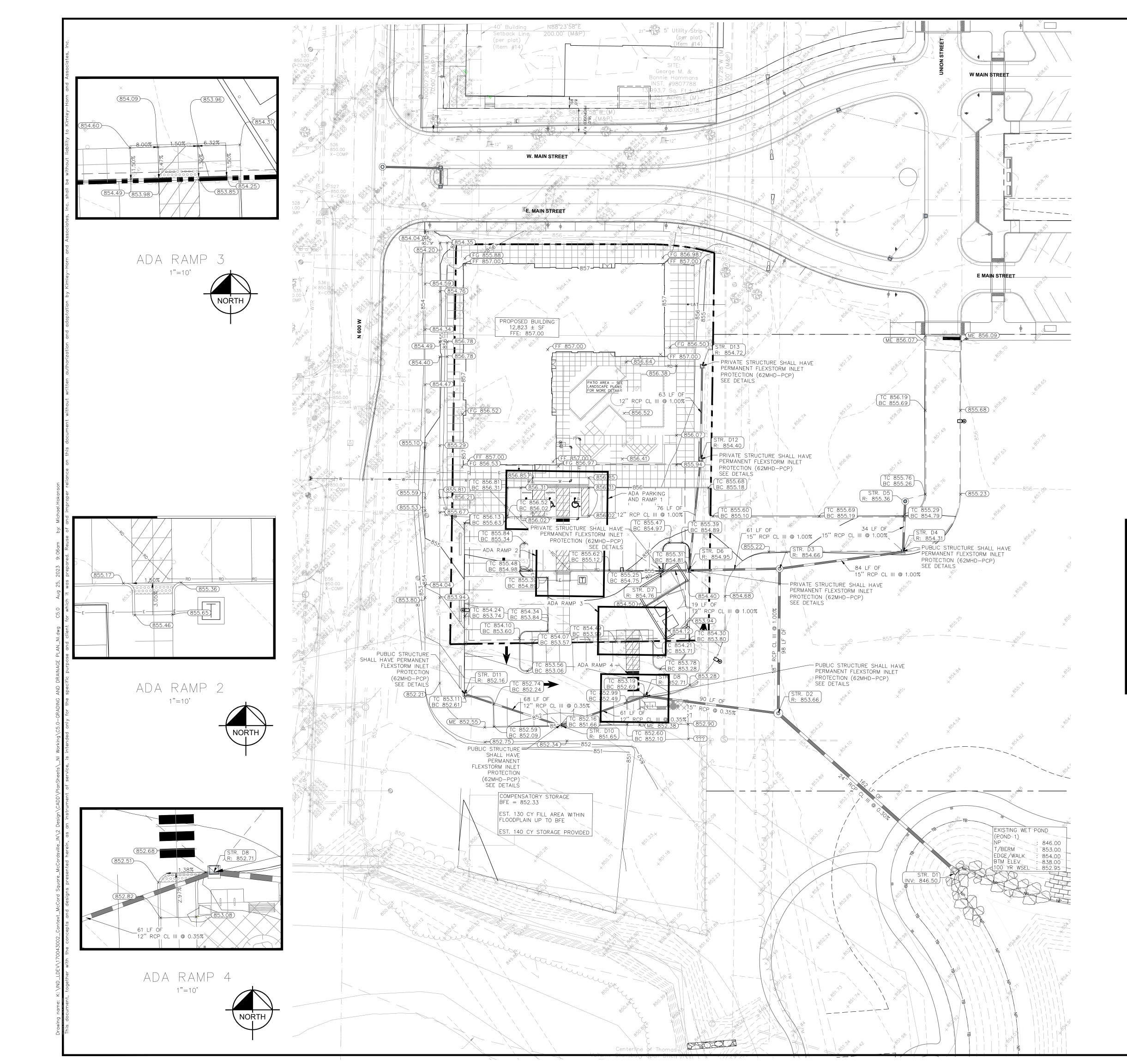
Shee C0.0 C1.0 C1.1 C2.0 C3.0 C4.0 C4.1 C4.2 C5.0 C6.0 C6.1 C6.2 C6.3 C7.0 C7.1 C7.2 L100 L400 L410 L600 L601 E101 1-10

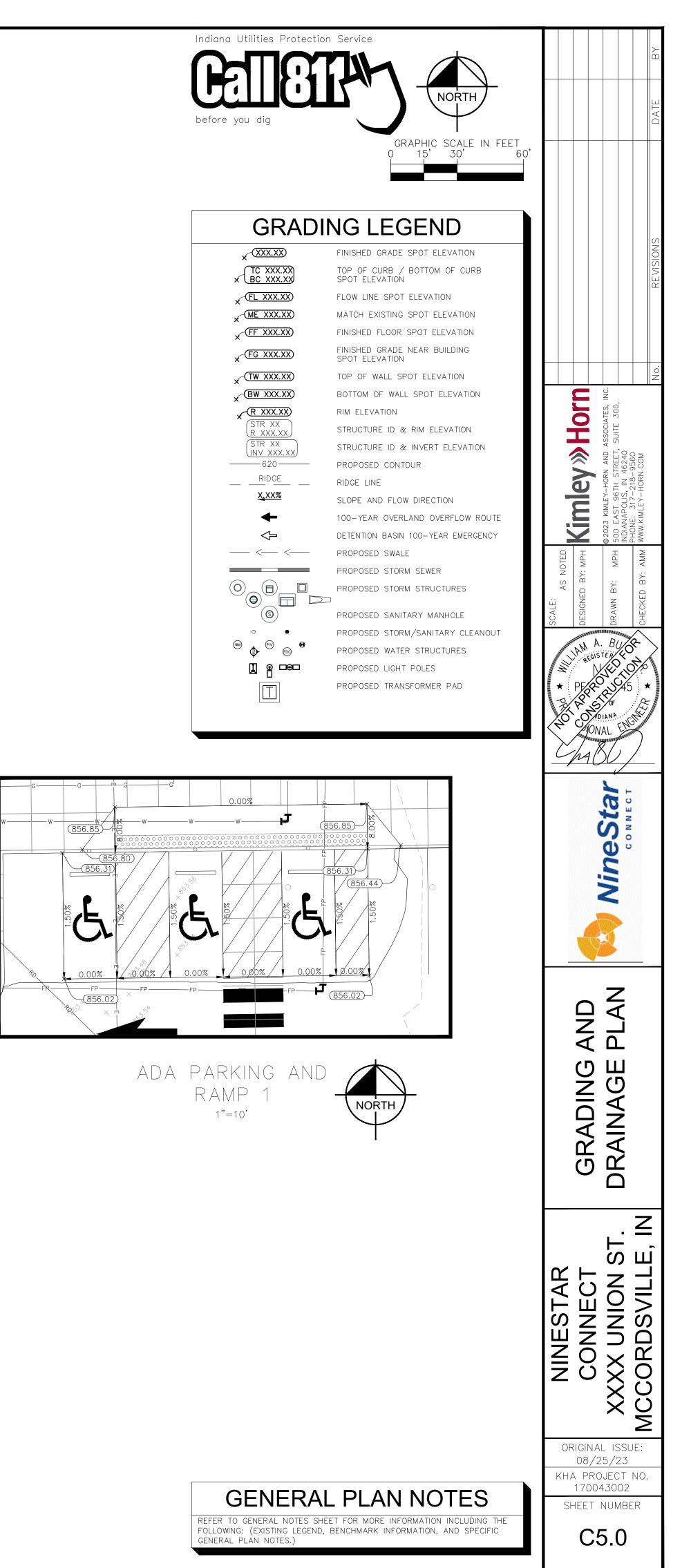


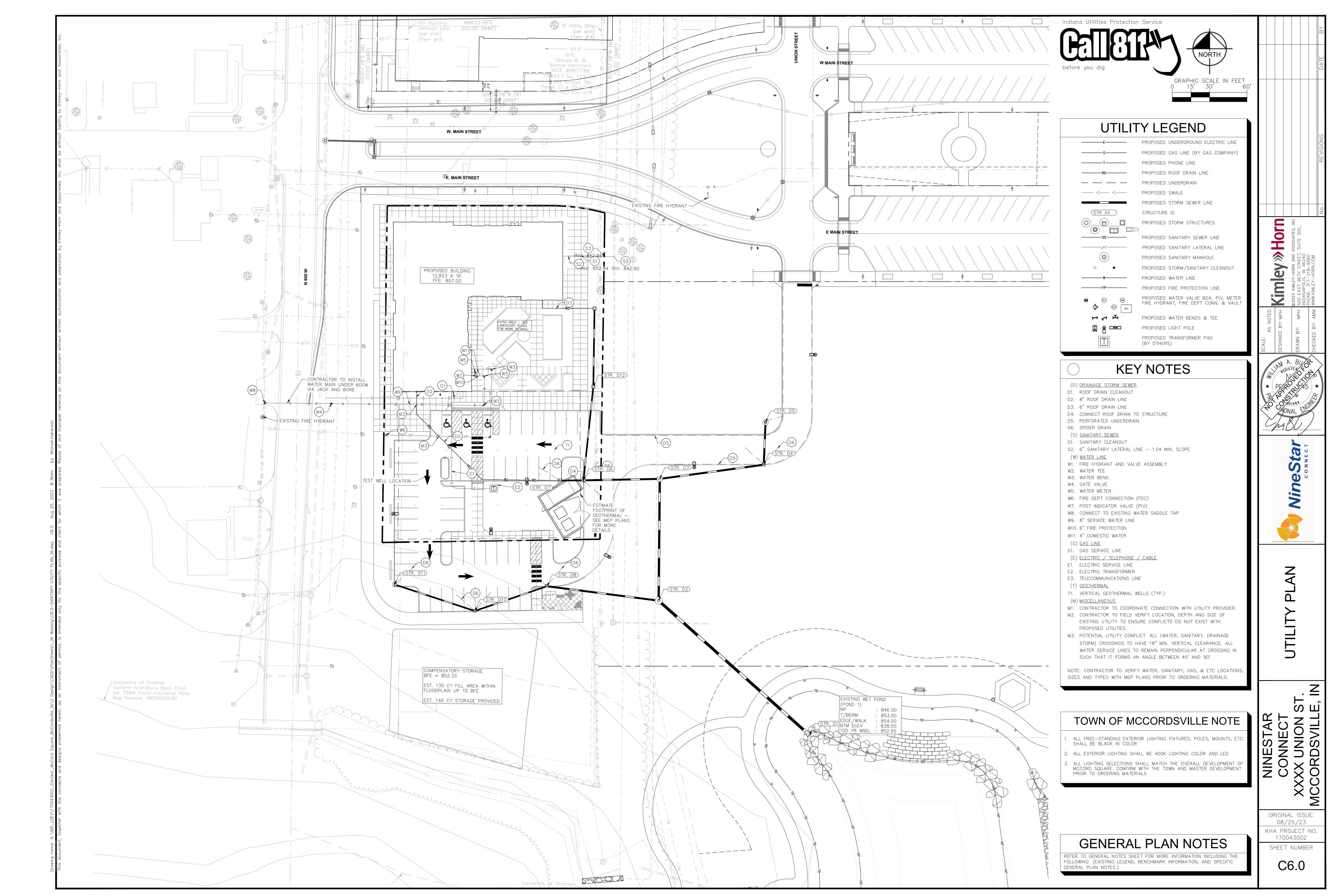
	Sheet List Table
et Number	Sheet Title
)	TITLE SHEET
)	GENERAL SPECIFICATIONS
	GENERAL NOTES
)	EXISTING CONDITIONS AND DEMO PLAN
)	SITE PLAN
)	EROSION CONTROL PLAN
	EROSION CONTROL DETAILS
2	SWPPP
)	GRADING AND DRAINAGE PLAN
)	UTILITY PLAN
	STORM PLAN AND PROFILE
2	STORM PLAN AND PROFILE
3	STRUCTURAL DATA TABLE
)	CONSTRUCTION DETAILS
	CONSTRUCTION DETAILS
2	CONSTRUCTION DETAILS
)	MATERIALS AND NOTES
)	PLANTING PLAN
)	PLANTING SCHEDULE AND DETAILS
)	SITE DETAILS
1	SITE DETAILS
1	PHOTOMETRIC (BY OTHERS)
	MCCORDSVILLE TOWN DETAILS

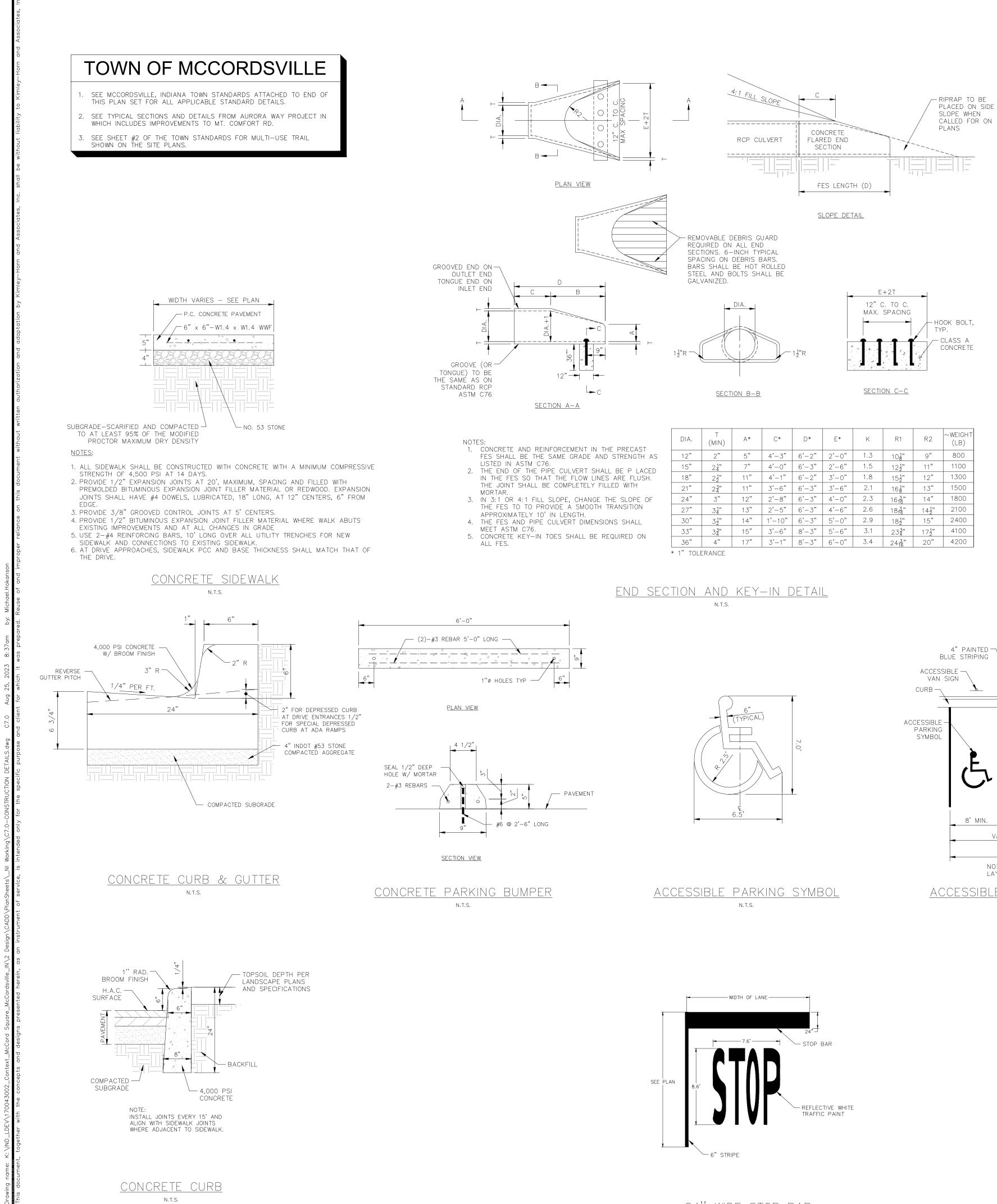






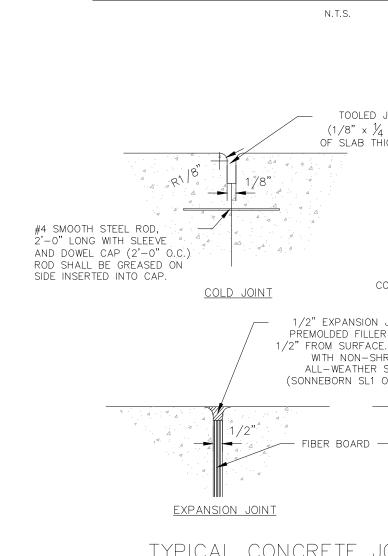






ST	DIA.	T (MIN)	A*	C*	D*	E*	К	R1
h as	12"	2"	5"	4'-3"	6'-2"	2'-0"	1.3	10 <u></u> 1"
ACED	15"	21/4	7"	4'-0"	6'-3"	2'-6"	1.5	12 <u>1</u> "
SH.	18"	2 <u>1</u> "	11"	4'-1"	6'-2"	3'-0"	1.8	15 <u>1</u> "
	21"	2 <u>3</u> "	11"	3'-6"	6'-3"	3'-6"	2.1	16 <u>1</u> "
OF	24"	3"	12"	2'-8"	6'-3"	4'-0"	2.3	16 <u>3</u> "
1	27"	3 <u>1</u> "	13"	2'-5"	6'-3"	4'-6"	2.6	18 <u>3</u> "
-	30"	3 <u>1</u> "	14"	1'-10"	6'-3"	5'-0"	2.9	18 <u>1</u> "
N	33"	3 <u>3</u> "	15"	3'-6"	8'-3"	5'-6"	3.1	23 <u>3</u> "
////	36"	4"	17"	3'-1"	8'-3"	6'-0"	3.4	24 <u>3</u> "
	* 1" TOLE	FRANCE						

/- 4" BLUE STRIPE. BLUE STRIPING at 2'-0" O.C. - ACCESSIBLE PARKING SIGN 8' MIN. 8' MIN. VAN STANDARD (PER PLAN) NOTE: REFER TO PLAN FOR DETAILED LAYOUT AND DIMENSIONS ACCESSIBLE PAVEMENT MARKINGS N.T.S.



1/4" WIDE SAWCUT, 1" DEEP, —

(4,000 PSI MIN.)

6" x 6"-W2.9 x W2.9 WWF-

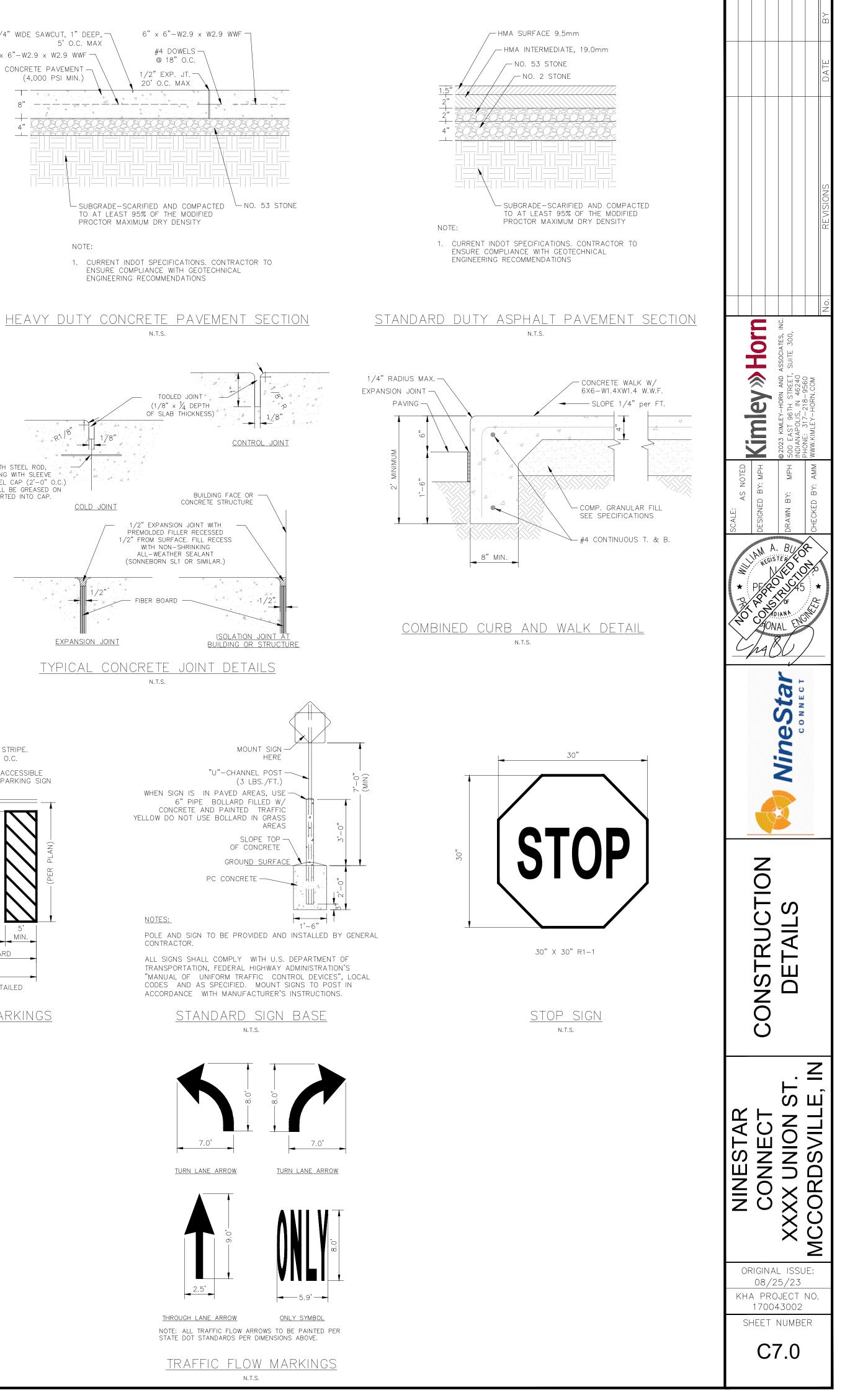
P.C. CONCRETE PAVEMENT -

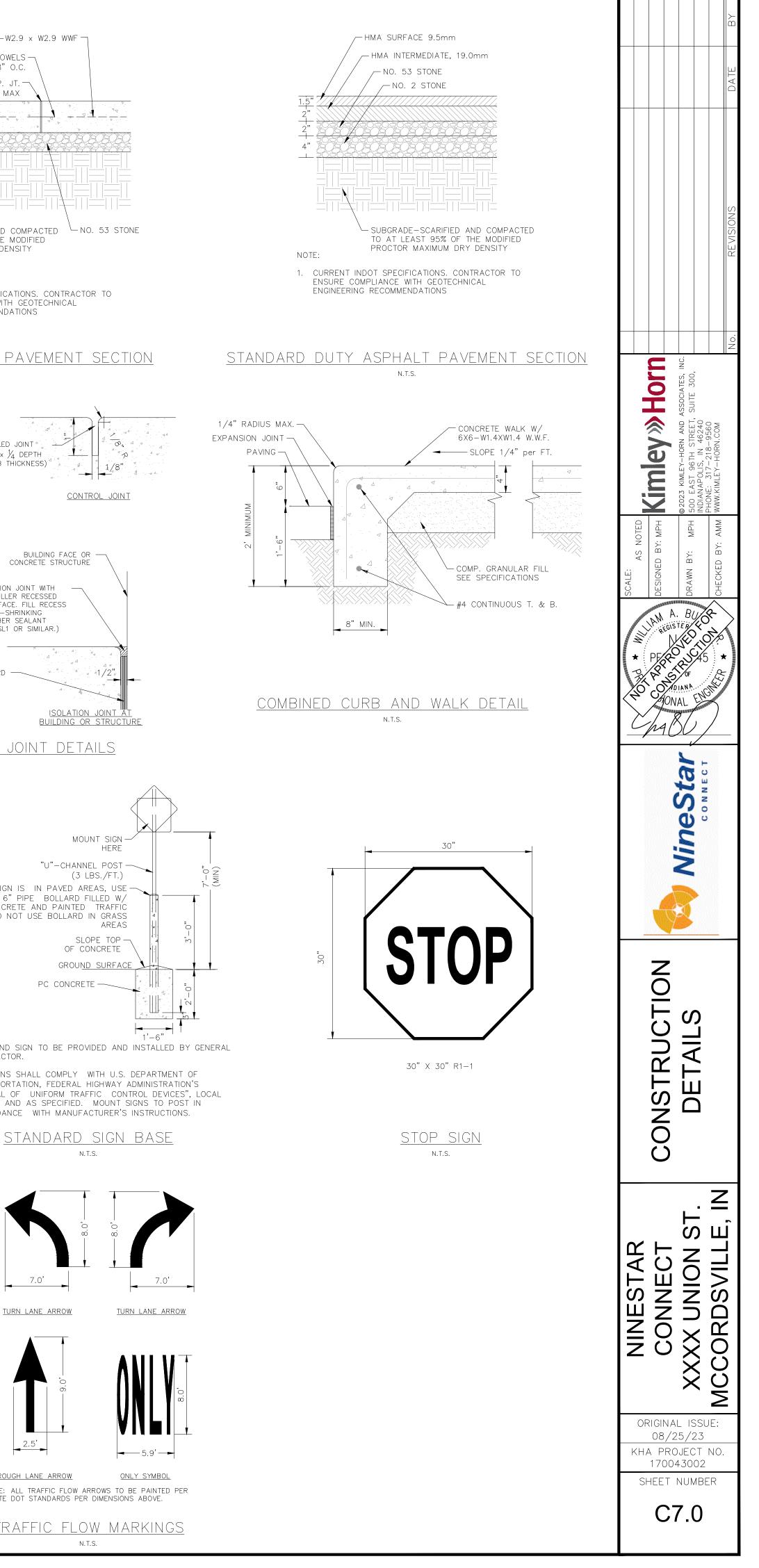
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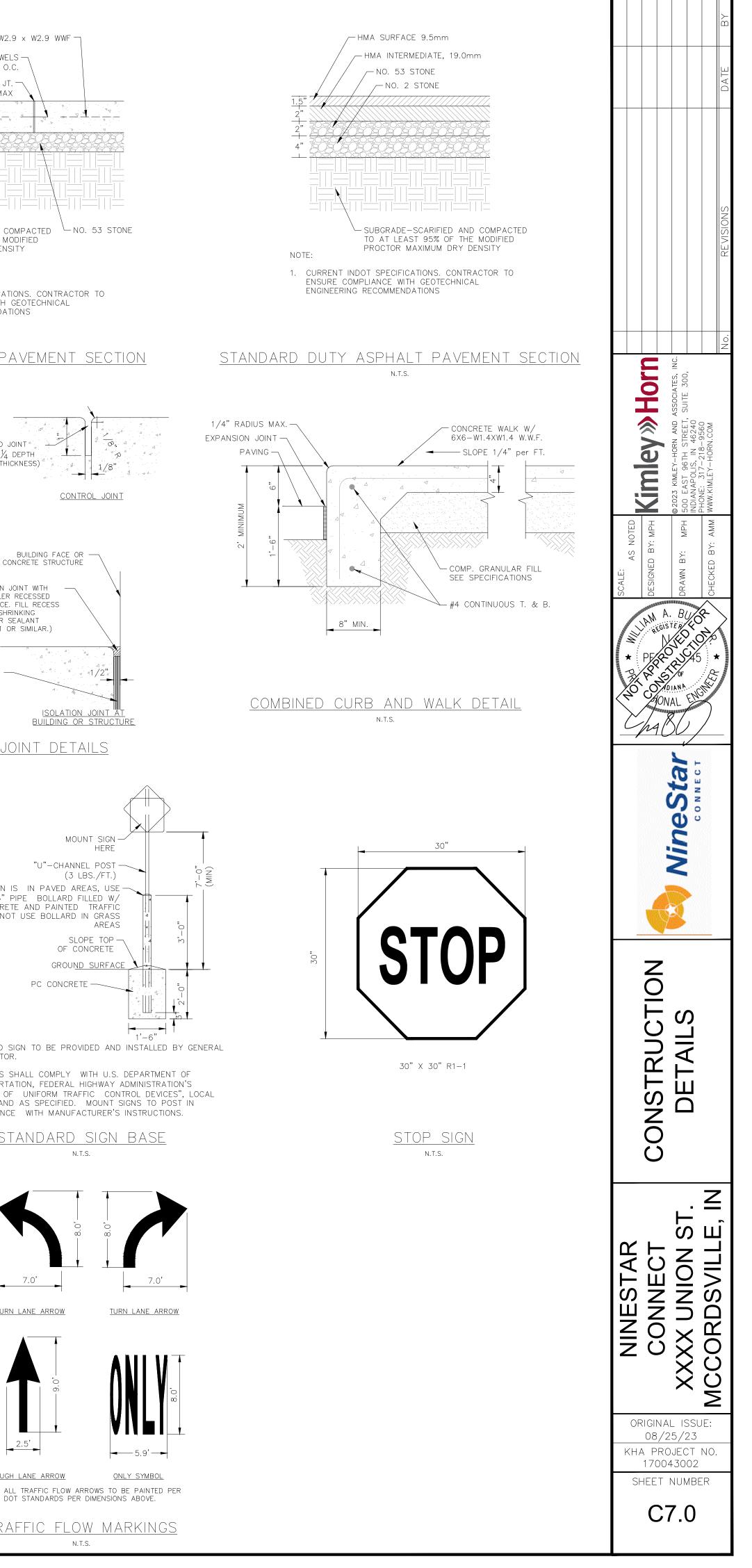
5' O.C. MAX

NOTE:

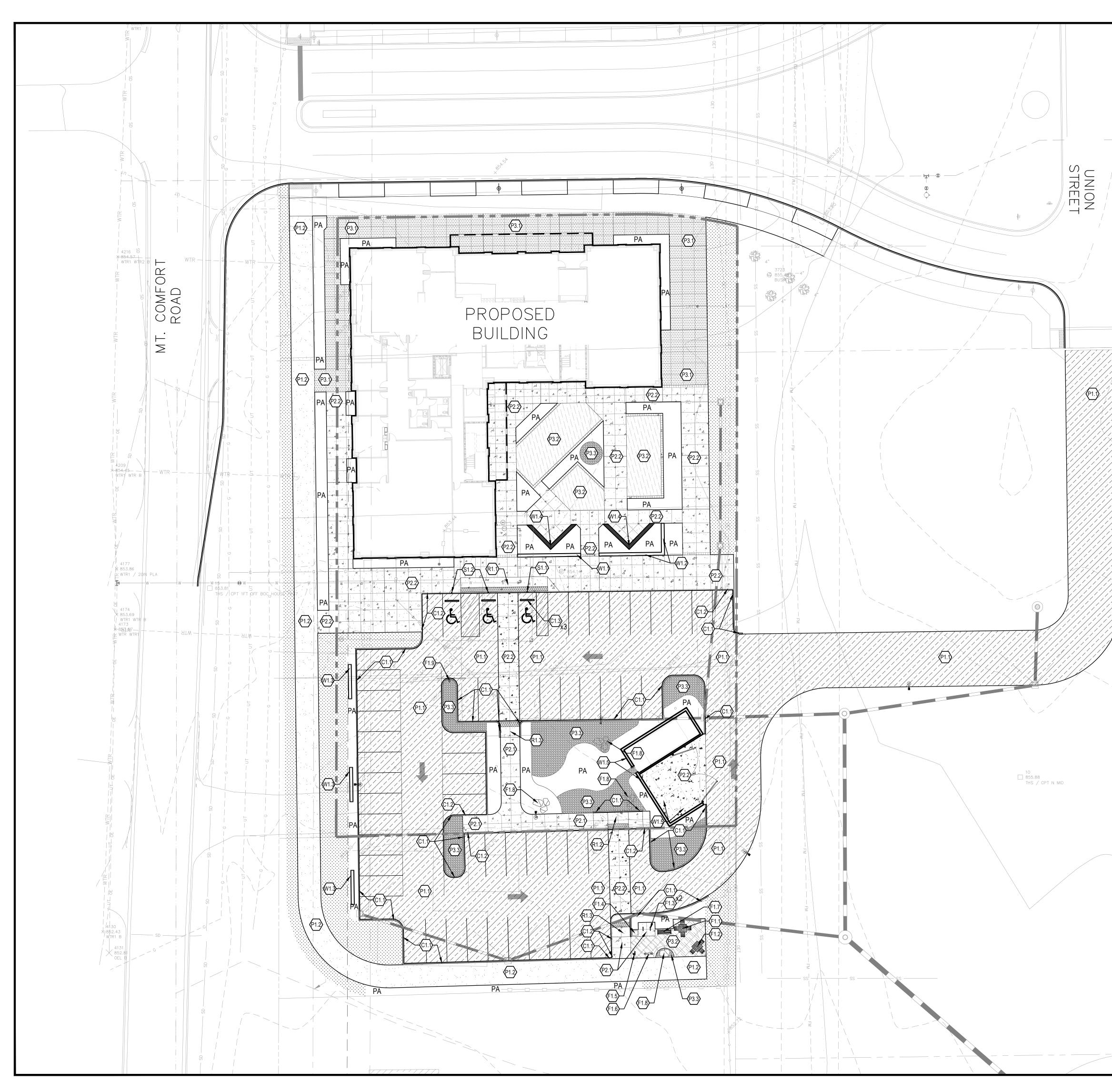
TYPICAL CONCRETE JOINT DETAILS

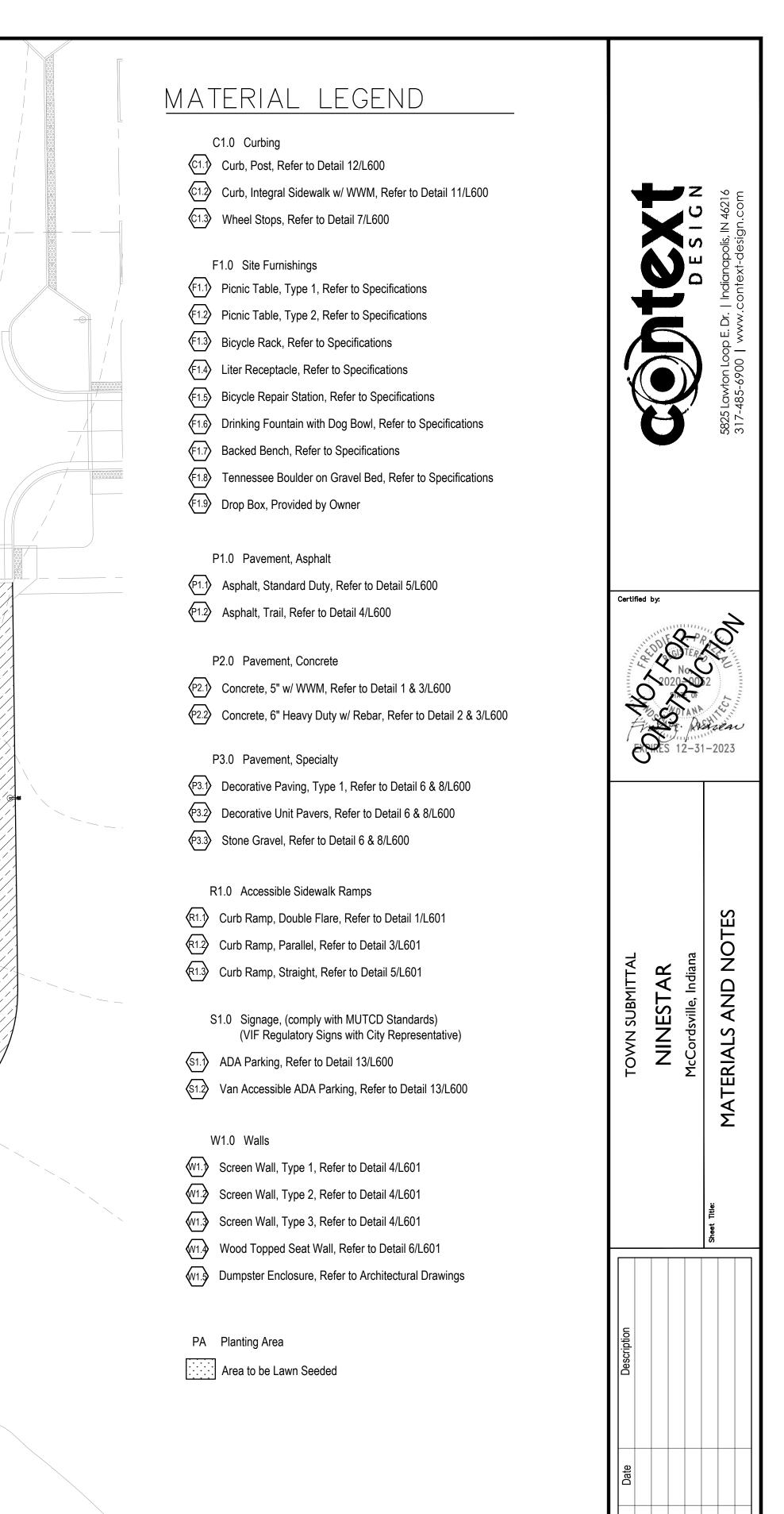


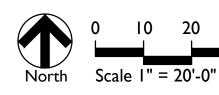




24" WIDE STOP BAR N.T.S.







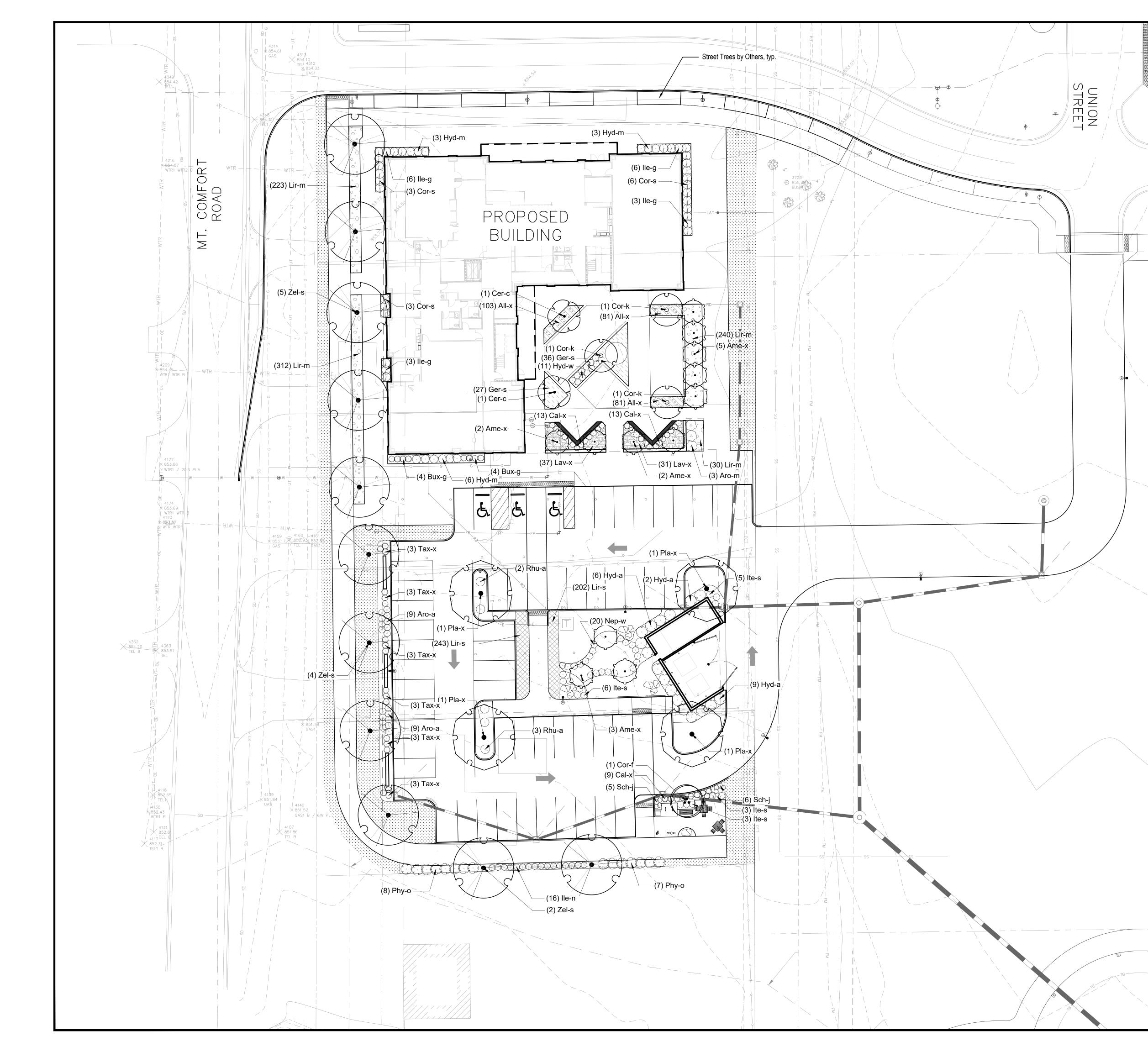
Date:2023/08/2Project No:22-1595Drawn by:MAChecked by:LM

These Drawings and Specifications, and all copies thereof are and shall remain the property and copyright of the Landscape Architect. They shall be used only with respect to this Project and are not to be used on any other Project or Work without prior written permission from the Landscape Architect.

L100

Sheet No:

2023/08/25



GENERAL LANDSCAPE AND Planting notes

- Refer to Project Manual for Planting Specifications and Topsoil requirements. Refer to Plant Schedule and Planting Details for additional information.
 All materials are subject to the approval of the Landscape Architect and Owner at any
- time. Landscape Architect to inspect all plant locations and plant bed conditions prior to installation. On-site adjustments may be required. Rootballs shall meet or exceed size standards as set forth in 'American Standards for
- Nursery Stock'. MAIN LEADERS OF ALL TREES SHALL REMAIN INTACT.
 Remove from the site any plant material that turns brown or defoliates within five (5)
- days after planting. Replace immediately with approved, specified material.
 Plant counts indicated on drawings are for Landscape Architect's use only. Contractor shall make own plant quantity takeoffs using drawings, specifications, and plant schedule requirements (i.e., spacing), unless otherwise directed by Landscape Architect. Contractor to verify bed measurements and install appropriate quantities as governed by plant spacing per schedule. Plant material quantities shown on plan are minimum quantities. Additional material may be needed to meet spacing requirements and field conditions.
- 5. Seed all areas disturbed by construction activities that are not otherwise noted to receive pavement, planting bed, or sod treatment.
- The Contractor shall install and/or amend topsoil in all proposed bed areas to meet Specifications. Contractor shall coordinate quantity and placement of topsoil. Landscaper shall verify depth of topsoil prior to plant installation. (Refer to specifications for topsoil source and placement requirements)
- 8. All tree locations shall be marked with 2x2" stakes prior to planting for review and approval by the Landscape Architect. Any plant material installed in an incorrect location, by the judgment of the Landscape Architect, shall be reinstalled at the Contractor's expense.
- All plant beds shall receive 3" minimum of shredded hardwood bark mulch (unless otherwise noted).
 Varify all utility leasting in the field prior to beginning work. Densis all demograd utility
- Verify all utility locations in the field prior to beginning work. Repair all damaged utilities to Owner's satisfaction at no additional cost.
 The Contractor shall maintain all plant material and laws until the preject is fully.
- The Contractor shall maintain all plant material and lawns until the project is fully accepted by the Landscape Architect, unless otherwise noted.
 All workmanship and materials shall be guaranteed by the Contractor for a period of one
- 12. All workmanship and materials shall be guaranteed by the contractor for a period of one calendar year after Final Acceptance.13. Install all plant material in accordance with all local codes and ordinances. Coordinate
- with the Owner to obtain any required permits necessary to complete work.14. Contractor shall test all tree pits for drainage. Any tree pit that holds water for more than
- Contractor shall be installed using tree pit drainage.
 Tree Protection Fencing is the responsibility of the Contractor. Minimum protected area
- 15. The Protection Fencing is the responsibility of the Contractor. Minimum protected area shall include the full drip line of the canopy. NO construction activities, material storage, etc. may occur within that area. The Contractor shall ensure that no soil compaction or tree damage occurs in any Protected areas, at any time during the construction process.
 16. Trees shall be matched in groups unless otherwise noted.

ORDINANCE REQUIREMENTS

ZONING: Mixed-Use District From Hancock Gateway Park Planned Unit Development as of 2019-07-15 and 1st Amendment dated 2021-03-02 and 2nd Amendment dated 2021-10-26:

Street Trees

Street trees are required 40 feet on center along Mt. Comfort Road and along internal streets.

TOTAL REQUIRED: 342 LF of Street frontage = 9 Trees TOTAL PROVIDED: 9 Trees @ 40' O.C.

Foundation Plantings

All facades shall plant foundation plantings in planting beds adjacent to the building, in planters, or in the Streetscape Zone. For buildings with commercial uses on the first floor, a minimum of 30% of the length of each façade shall feature landscape plantings. These plantings shall be a minimum of 50% evergreen.

TOTAL REQUIRED:

West - 136.33 If.(0.30) = 40.90 If. foundation plantings, 20.45 If. evergreen plantings. North - 136.33 If.(0.30) = 40.90 If. foundation plantings, 20.45 If. evergreen plantings. East - 139.58 If.(0.30) = 41.87 If. foundation plantings, 20.94 If. evergreen plantings. South - 139.37 If.(0.30) = 41.81 If. foundation plantings, 20.91 If. evergreen plantings.

TOTAL PROVIDED:

West - 140.90 lf. foundation plantings, 20.45 lf. evergreen foundation plantings.
North - 40.90 lf. foundation plantings, 20.45 lf. evergreen foundation plantings.
East - 41.87 lf. foundation plantings, 20.94 lf. evergreen foundation plantings.
South - 41.81 lf. foundation plantings, 20.91 lf. evergreen foundation plantings.

Site Plantings

All lots, including common areas (but not including Civic Green, Civic Commons, or the Stormwater Park) shall be planted with supplemental trees if less than the required number of trees exist on the lot or common area after construction is complete. Street trees do not count towards this requirement, but all other tree plantings shall. Minimum site planting provisions shall be: 5 trees for lots/common area greater than 1 acre

TOTAL REQUIRED: 59,258 sf. lot = 5 trees for lots/common area greater than 1 acre

Perimeter Parking Lot Plantings

TOTAL PROVIDED: 5 trees

All off-street parking lots, greater than 6 spaces shall include: Trees - 1 tree per 50 lineal feet of parking lot perimeter; Shrubs - 1 shrub per 3 lineal feet - minimum 50% of shrubs to be evergreen - minimum mature height of 3'; Walls - Decorative walls may be used to screen parking areas. When an opaque brick or stone wall of at least 3' in height is used, the shrub planting requirement may be reduced by 50%. Mt. Comfort Road - A wall is required for any parking lot adjacent to Mt. Comfort Road and must be opaque brick or stone. The landscape requirement will not be reduced along this roadway.

TOTAL REQUIRED:

West: 118.03 lf. of Parking - 45 lf. of wall = 73.03 lf. / 50 = 2 trees, 73.03 lf./3 = 25 total shrubs, with 13 being evergreen shrubs; 45 lf. of wall = 45 lf. / 50 / 2 = 1 tree, 45 lf. / 3 / 2 = 8 total shrubs, with 4 being evergreen shrubs. Total - 33 total shrubs with 17 being evergreen shrubs South: 91.92 lf./50 = 2 trees, 91.92 lf./3 = 31 total shrubs, with 16 being evergreen shrubs

TOTAL PROVIDED:

West: 3 trees, 36 total shrubs, with 18 being evergreen shrubs South: 2 trees, 31 total shrubs, with 16 being evergreen shrubs

Internal Parking Lot Plantings

All off-street parking lots, greater than 15 spaces shall provide at least one landscaped island, bump-out, or peninsula for every 15 parking spaces. Each island, bump-out or peninsula shall be a minimum of 180 sf and feature one tree.

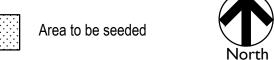
TOTAL REQUIRED: 59 parking spaces/15 spaces = 4 Islands & 4 shade trees

TOTAL PROVIDED: 4 Islands & 4 shade trees

Buffer Yards - Buffer yards are not required

Any grass strip between the curb and sidewalk that is at least ten (10) feet in width shall feature street trees every fifty (50) feet on center.

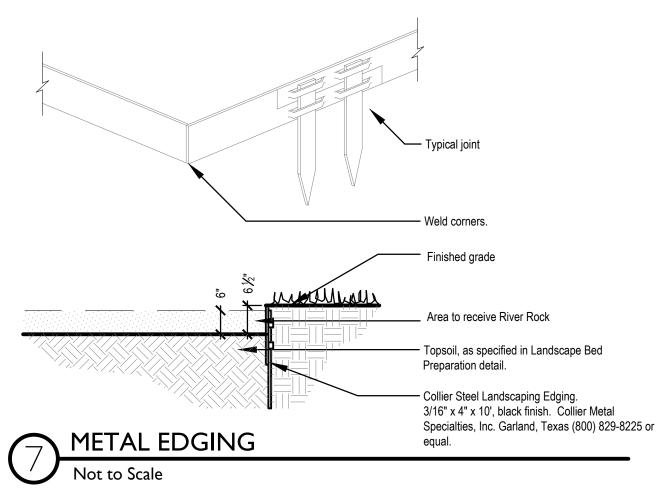
Scale I" = 20'-0"



		DESIGN	5825 Lawton Loop E. Dr. Indianapolis, IN 46216	317-485-6900 www.context-design.com
Certified		No OT ANN TANK 12-31	-2023	
TOWN SUBMITTAL	NINESTAR	McCordsville, Indiana	Sheet Title: PLANTING PLAN	
Revision Date Description				
Date: Project Drawn Checl These D and all remain of the L shall be this Pro on any without	n by: ked by: copies th the prope andscape used on ject and other Pro prior writi dscape A	22-15 MA LM erereof a erty and erty and erty and are no oject or tten per	cification re and s I copyrig ect. The respect t to be t Work mission	hall ht ey to used

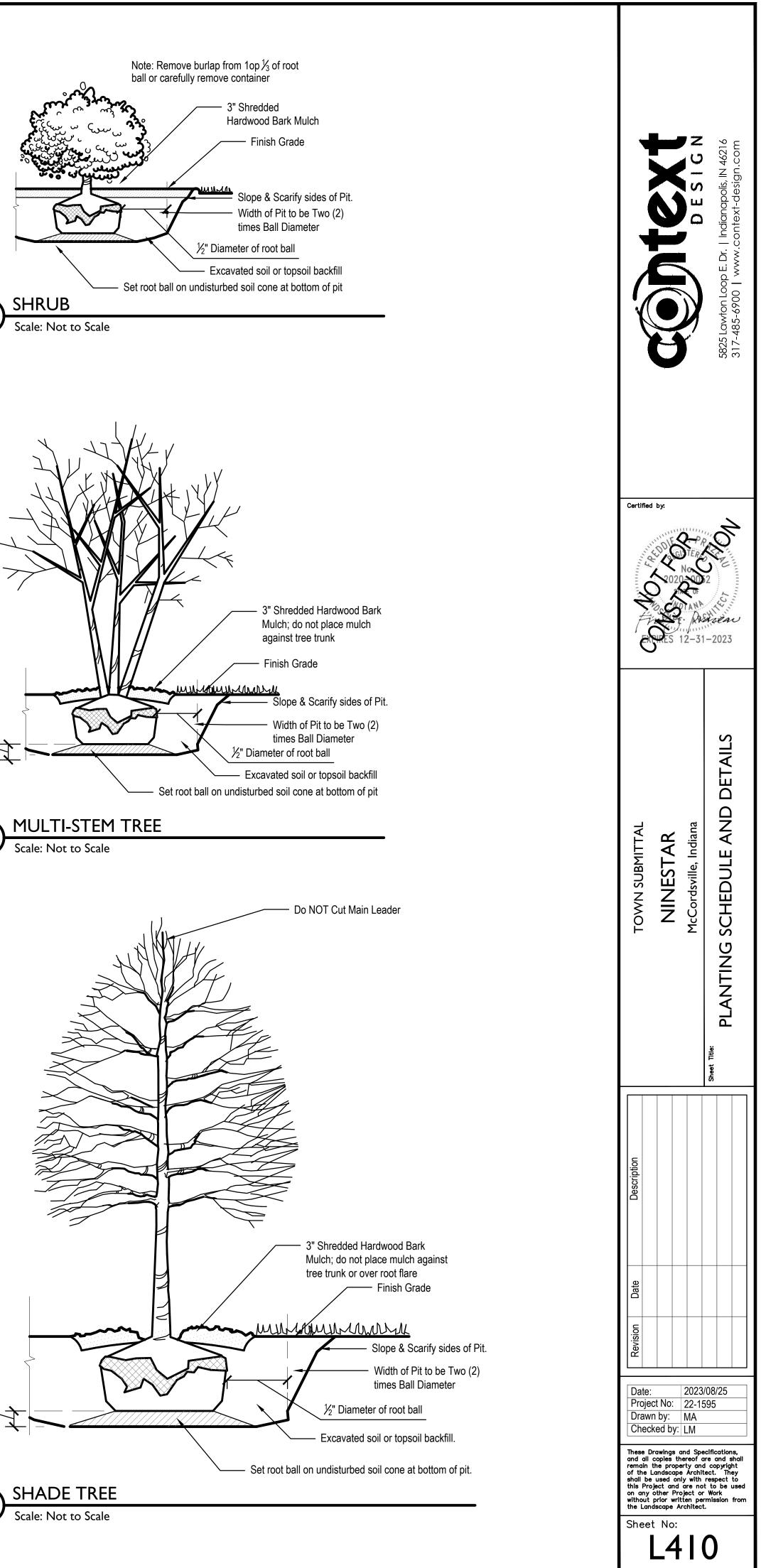
	ULE C	SITE PLANTINGS						
ECIDUOUS TREES	QTY	BOTANICAL NAME	COMMON NAME		CONT	CAL	REMARKS	
Pla-x	4	Platanus x acerifolia	London Plane Tree		B & B	2"Cal	full, strong central lead	
Zel-s	11	Zelkova serrata `Green Vase`	Green Vase Sawleaf	Zelkova	B & B	2"Cal	full, strong central lead	der, matched
LOWERING TREES	QTY	BOTANICAL NAME	COMMON NAME		CONT	CAL	REMARKS	
Ame-x	3	Amelanchier x grandiflora `Autumn Brilliance		rviceberrv	B & B	8` ht.	multi-trunk; matched	
	0			i viceberi y	Dub	0 111.		
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME		SIZE	HEIGHT	REMARKS	
Aro-a	18	Aronia arbutifolia `Brilliantissima`	Brilliant Red Chokebe	erry	container	24"	space @ 3`-0" o.c.	
Bux-g	8	Buxus x `Green Mountain`	Green Mountain Box	wood	container	18"	space @ 3`-0" o.c., all	llow to mass
Cor-s	12	Cornus sericea `Cardinal`	Cardinal Red-twig Do	ogwood	container	24"	space @ 4`-0" o.c.	
Hyd-a	17	Hydrangea arborescens `Abetwo`	Incrediball Hydrangea	а	container	24"	space @ 5`-0" o.c.	
Hyd-m	12	Hydrangea macrophylla `Endless Summer 1	wist-n-Shout` Twist-n-Shout Hydrar	ngea	container	24"	space @ 4`-0" o.c.	
le-n	16	Ilex glabra `Chamzin`	Nordic Holly		container	24"	space @ 3`-0" o.c.	
le-g	18	Ilex glabra `Shamrock`	Shamrock Inkberry		container	24"	space @ 4`-0" o.c., allo	llow to mass
te-s	11	Itea virginica `Sprich`	Little Henry Virginia S		container	24"	space @ 3`-0" o.c.	
Nep-w	20	Nepeta x 'Walker's Low'	Walker's Low Catmin		3 gal	⊃ <i>∧</i> "		
^D hy-o	15	Physocarpus opulifolius `Summer Wine` Rhus aromatica `Gro-Low`	Summer Wine Nineba		container	24"	space @ 5`-0" o.c.	llow to mass
Rhu-a Tax-x	5 18	Taxus x media `Densiformis`	Gro-Low Fragrant Su Dense Yew		container container	18" spread 24"	space @ 4`-0" o.c., alle space @ 3`-0" o.c., alle	
					Containel	27 		
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME		CONT	SPACING	REMARKS	
_ir-m	535	Liriope muscari `Big Blue`	Big Blue Lilyturf		#1 pot		space @ 15" o.c., trian	ngular spacing
_ir-s	445	Liriope spicata	Creeping Lily Turf		#1 pot		space @ 12" o.c., trian	
						1		
		OURTYARD PLANTINGS						
FLANT SCHED		BOTANICAL NAME	COMMON NAME	CON	NT CA		ARKS	
Ame-x	9	Amelanchier x grandiflora `Autumn Brilliance		B &			-trunk; matched	
Cer-c	2	Cercis canadensis	Eastern Redbud	B &			-trunk, matched	
Cor-k	3	Cornus kousa chinensis	Chinese Dogwood	В&			strong central leader, mate	tched
				I	1			
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	E HEI	GHT REM	ARKS	
Aro-m	3	Aronia melanocarpa `Autumn Magic`	Autumn Magic Black Chokeberry	cont	ainer 24"	spac	e @ 5`-0" o.c.	
Hyd-w	11	Hydrangea quercifolia `Pee Wee`	Pee Wee Oakleaf Hydrangea	cont	ainer 24"	spac	e @ 3`-0" o.c.	
					1	1		
GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE			ARKS	Note: All groundcover beds shall be
Cal-x	26	Calamagrostis x acutiflora `Karl Foerster`	Karl Foerster Feather Reed Grass	s pot	#2	spac	e @ 3`-0" o.c.	planted using triangular planting scheme. Refer to Planting Schedule for
								On-Center planting dimension.
	QTY 265		COMMON NAME	CON #1 p			ARKS	
All-x Ger-s	63	Allium x `Millenium` Geranium sanguineum `Max Frei`	Millenium Ornamental Chive Max Frei Dwarf Blood-red Cranes	#1 p sbill #1 p			e @ 12" o.c., triangular sp e @ 24" o.c., triangular sp	
_av-x	68	Lavandula x intermedia `Violet Intrigue`	Violet Intrigue Lavender	#1 p			e @ 24" o.c., triangular sp e @ 24" o.c., triangular sp	
_ir-m	270	Liriope muscari `Big Blue`	Big Blue Lilyturf	#1 p			e @ 15" o.c., triangular sp	Spacing Calit Deat Dat
			. ,	··· P				
								Refer to Specifications
_	-	RAILHEAD PLANTINGS		CONT				Compacted Subgrade
FLOWERING TREES	QTY 1	BOTANICAL NAME Cornus florida `Cherokee Princess`	COMMON NAME Cherokee Princess Dogwood	CONT B & B	CAL 2"Cal	REMARKS	entral leader, matched	
	•							
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	HEIGHT	REMARKS		GROUND COVER
te-s	6	Itea virginica `Sprich`	Little Henry Virginia Sweetspire	container	24"	space @ 3`-()" o.c.	GROUND COVER Scale: Not to Scale
			,					
GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	HEIGHT	REMARKS		Existing Grade
Cal-x	9	Calamagrostis x acutiflora `Karl Foerster`	Karl Foerster Feather Reed Grass	pot	#2	space @ 3`-()" o.c.	allandler en
Sch-j	11	Schizachyrium scoparium `Jazz`	Jazz Little Bluestem Grass	pot	#1	space @ 2`-(Area to Receive
	1				I	I		Hardwood Bark
								Topsoil (As Specified)
								SPADE EDGE
			1					Scale: Not to Scale
			7					
				Typical joint				<i>,</i> ,
				Typical joint				Note: All perennial beds shall be
								planted using triangular planting scheme. Refer to Planting Schedule
				Weld corners.				for On-Center planting dimension.
								3" Shredded Hardwood
				Finished grade				Bark Mulch
					E .			Existing Grade
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Area to receive Riv	ver Rock			Remove Container
				Topsoil, as specifie Preparation detail.	ed in Landscape Bed			12" Prepared Soil; Refer to Specifications
				•				
					ick finish. Collier Met			Compacted Subgrade
					arland, Texas (800) 82			

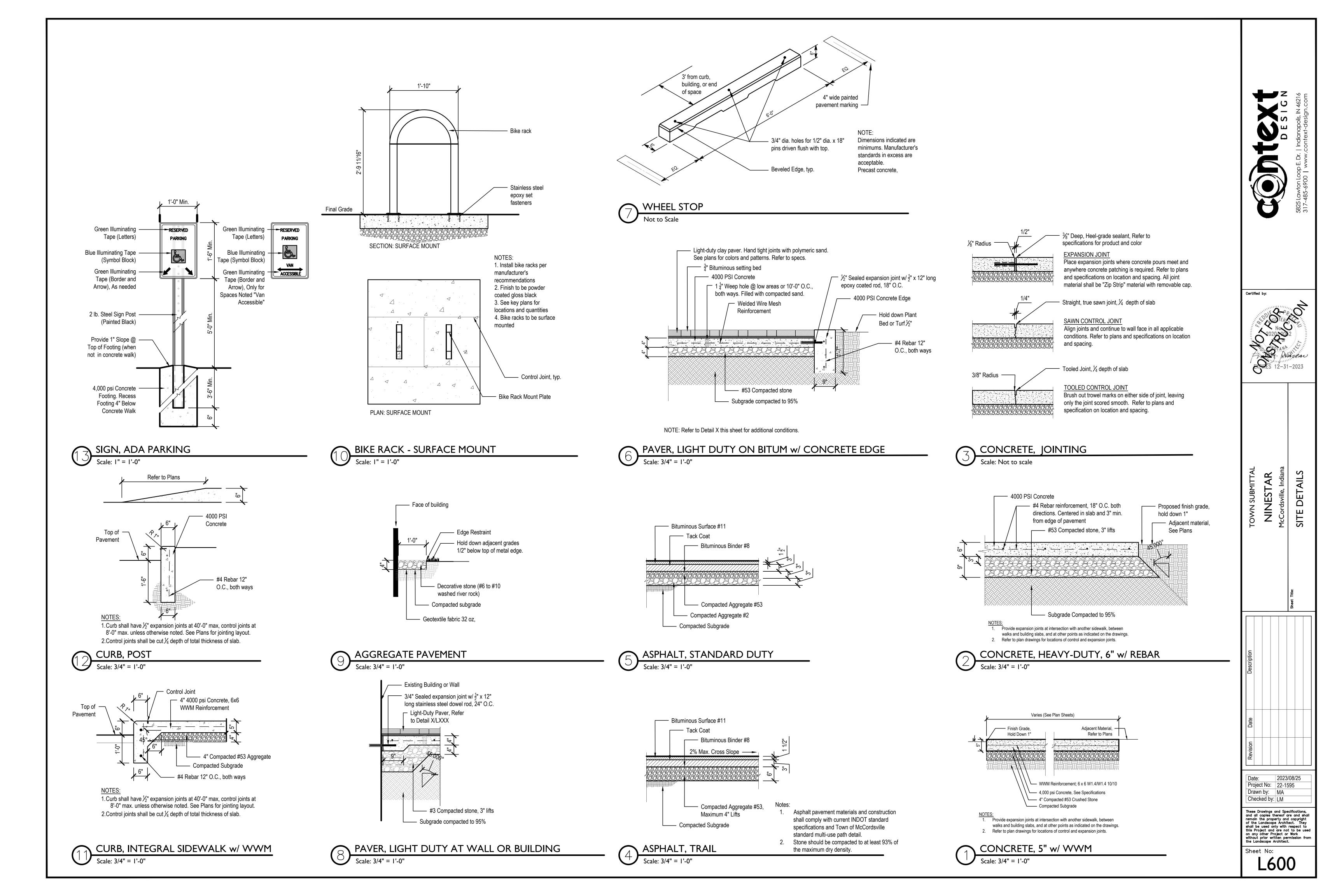
LANT SCHEDI	JLF S	ITE PLANTINGS						
		BOTANICAL NAME	COMMON NAME	CC	ONT CAL	R	REMARKS	
Pla-x	4	Platanus x acerifolia	London Plane Tree	В 8	& B 2"Cal	l fu	ull, strong central leader	er, matched
el-s	11	Zelkova serrata `Green Vase`	Green Vase Sawleaf Zelko	ova B &	& B 2"Cal	l fu	ull, strong central leader	er, matched
LOWERING TREES	QTY	BOTANICAL NAME	COMMON NAME	CC	ONT CAL	R	REMARKS	
Ame-x	3	Amelanchier x grandiflora `Autumn Brilliance`	Autumn Brilliance Serviceb				nulti-trunk; matched	
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZ	ZE HEIG	HT R	REMARKS	
Aro-a	18	Aronia arbutifolia `Brilliantissima`	Brilliant Red Chokeberry		ntainer 24"		space @ 3`-0" o.c.	
Bux-g	8	Buxus x `Green Mountain`	Green Mountain Boxwood		ntainer 18"		space @ 3`-0" o.c., allow	w to mass
Cor-s Hyd-a	12 17	Cornus sericea `Cardinal` Hydrangea arborescens `Abetwo`	Cardinal Red-twig Dogwoo Incrediball Hydrangea		ntainer 24" ntainer 24"		space @ 4`-0" o.c. space @ 5`-0" o.c.	
Hyd-m	12	Hydrangea macrophylla `Endless Summer Twis			ntainer 24"		space @ 4`-0" o.c.	
le-n	16	Ilex glabra `Chamzin`	Nordic Holly		ntainer 24"		space @ 3`-0" o.c.	
le-g	18	Ilex glabra `Shamrock`	Shamrock Inkberry	cor	ntainer 24"	s	space @ 4`-0" o.c., allow	w to mass
te-s	11	Itea virginica `Sprich`	Little Henry Virginia Sweets	tspire cor	ntainer 24"	s	space @ 3`-0" o.c.	
Nep-w	20	Nepeta x 'Walker's Low'	Walker's Low Catmint	3 g				
Phy-o	15 5	Physocarpus opulifolius `Summer Wine`	Summer Wine Ninebark		ntainer 24"		space @ 5`-0" o.c.	
Rhu-a Tax-x	5 18	Rhus aromatica `Gro-Low` Taxus x media `Densiformis`	Gro-Low Fragrant Sumac Dense Yew		ntainer 18" sj ntainer 24"		space @ 4`-0" o.c., allow space @ 3`-0" o.c., allow	
						3		
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	CC	ONT SPAC		REMARKS	
_ir-m	535	Liriope muscari `Big Blue`	Big Blue Lilyturf	#1	pot	s	space @ 15" o.c., triangu	gular spacing
_ir-s	445	Liriope spicata	Creeping Lily Turf	#1	pot	S	space @ 12" o.c., triangu	gular spacing
PLANT SCHED	JLE C	OURTYARD PLANTINGS						
FLOWERING TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	REMAR		
Ame-x	9	Amelanchier x grandiflora `Autumn Brilliance`	Autumn Brilliance Serviceberry	B&B	8` ht.		nk; matched	
Cer-c Cor-k	2	Cercis canadensis Cornus kousa chinensis	Eastern Redbud Chinese Dogwood	B & B B & B	8` ht. 2"Cal		nk, matched ng central leader, matche	hed
J01-N	.						y vontancauer, matche	
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	HEIGHT	REMAR	<s< td=""><td></td></s<>	
Aro-m	3	Aronia melanocarpa `Autumn Magic`	Autumn Magic Black Chokeberry	container	24"	space @) 5`-0" o.c.	
Hyd-w	11	Hydrangea quercifolia `Pee Wee`	Pee Wee Oakleaf Hydrangea	container	24"	space @) 3`-0" o.c.	
GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	HEIGHT	REMAR		Note: All groundcover beds shall be planted using triangular planting
Cal-x	26	Calamagrostis x acutiflora `Karl Foerster`	Karl Foerster Feather Reed Grass	pot	#2	space @) 3`-0" o.c.	scheme. Refer to Planting Schedule for
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING	REMAR	κs	On-Center planting dimension.
All-x	265	Allium x `Millenium`	Millenium Ornamental Chive	#1 pot		space @) 12" o.c., triangular spac	acing Refer to Plans for Finish Grade.
Ger-s	63	Geranium sanguineum `Max Frei`	Max Frei Dwarf Blood-red Cranesbill	#1 pot		space @	24" o.c., triangular spac	
Lav-x	68	Lavandula x intermedia `Violet Intrigue`	Violet Intrigue Lavender	#1 pot			24" o.c., triangular spac	acing 3" Shredded Hardwood Bark Mulch
Lir-m	270	Liriope muscari `Big Blue`	Big Blue Lilyturf	#1 pot		space @) 15" o.c., triangular spac	acing
								12" Prepared Soil; Refer to Specifications
		RAILHEAD PLANTINGS						
FLOWERING TREES	QTY 1		OMMON NAME CON herokee Princess Dogwood B & F				al leader, matched	
		Confus honda Cherokee Philicess						
SHRUBS	QTY	BOTANICAL NAME C	OMMON NAME SIZE	E HE	IGHT REMA	ARKS		GROUND COVER
te-s	6	Itea virginica `Sprich` Li	ttle Henry Virginia Sweetspire conta	tainer 24'	" space	e @ 3`-0" o.	С.	6 GROUND COVER Scale: Not to Scale
	1							Existing Grade
GRASSES	QTY		OMMON NAME SIZE		IGHT REMA			
Cal-x Sch-j	9		arl Foerster Feather Reed Grasspotazz Little Bluestem Grasspot	#2		e @ 3`-0" o.		
sch-j		Schizachynum scopanum Jazz Ja	azz Lille Blueslem Grass pol	#1	space	e @ 2`-0" o.e	С.	THE TANK AND A STREET AND A STR
								Mulch
								Topsoil (As Specified)
								SPADE EDGE
								Scale: Not to Scale
			Typical jc	oint				0-0-0
				ont				Note: All perennial beds shall be planted using triangular planting
								scheme. Refer to Planting Schedule
			Weld corr	rners.				for On-Center planting dimension.
			Finished	d grade				3" Shredded Hardwood Bark Mulch
								Existing Grade
				receive River Rock				Remove Container
				as specified in Land				12" Prepared Soil; Refer
			Preparatio					to Specifications
				teel Landscaping Ed				Ellie II = II
		Ο ΜΕΤΛΙ Ε	Specialtie	" x 10', black finish. es, Inc. Garland, Te	Collier Metal exas (800) 829-8225 or			
		= = = = = = = = = = = = = = = = =						

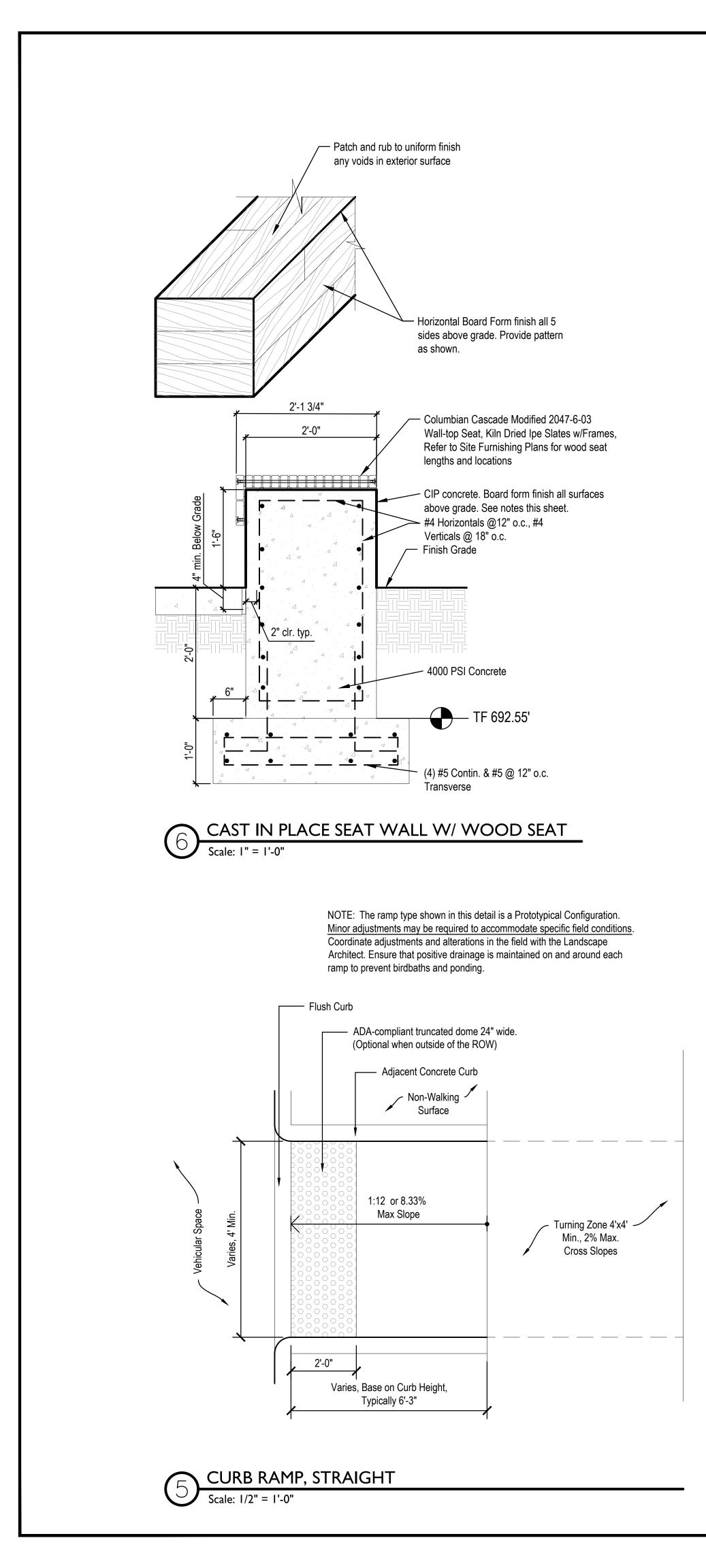


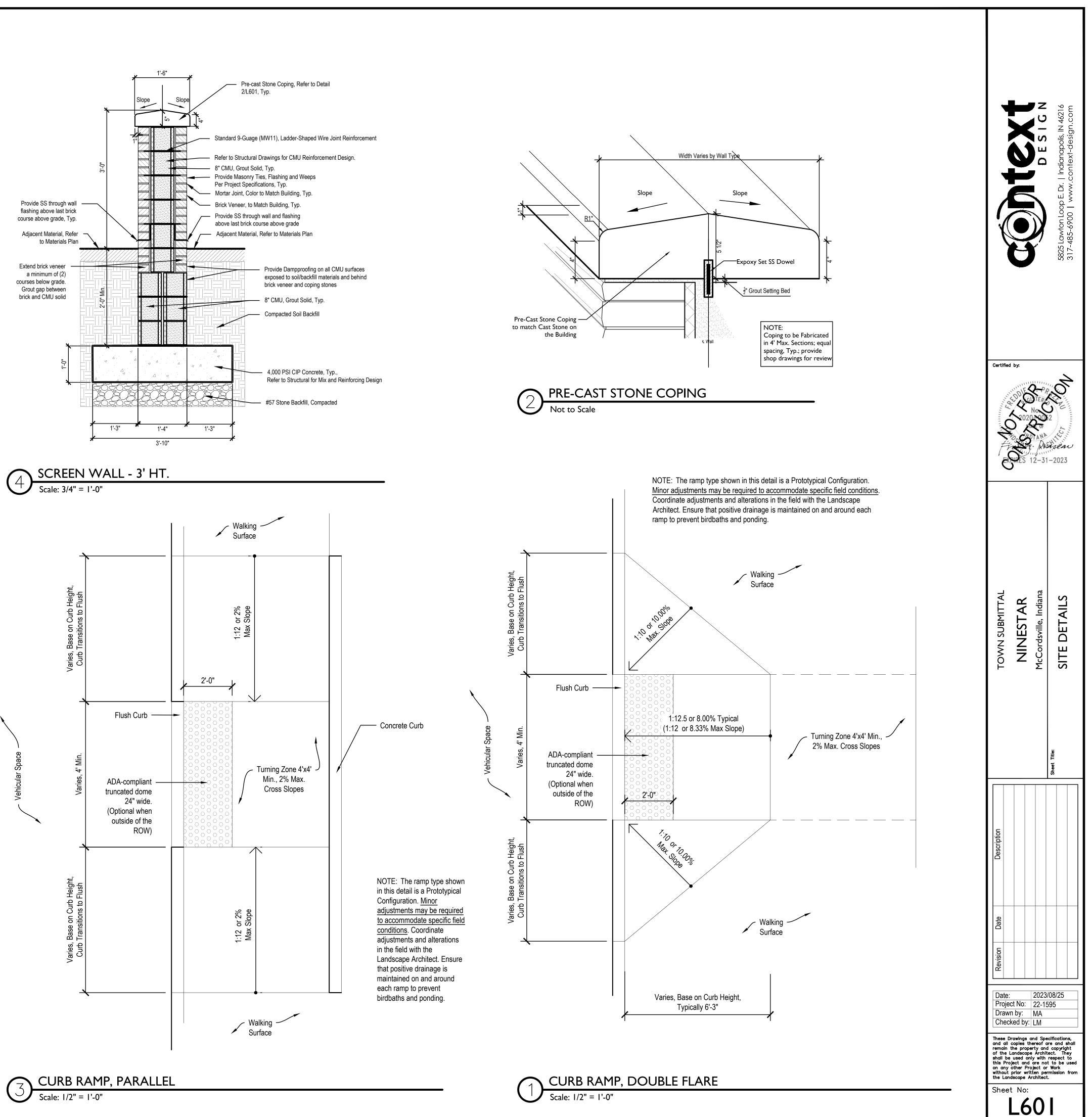
PERENNIAL or ORNAMENTAL GRASS

Scale: Not to Scale









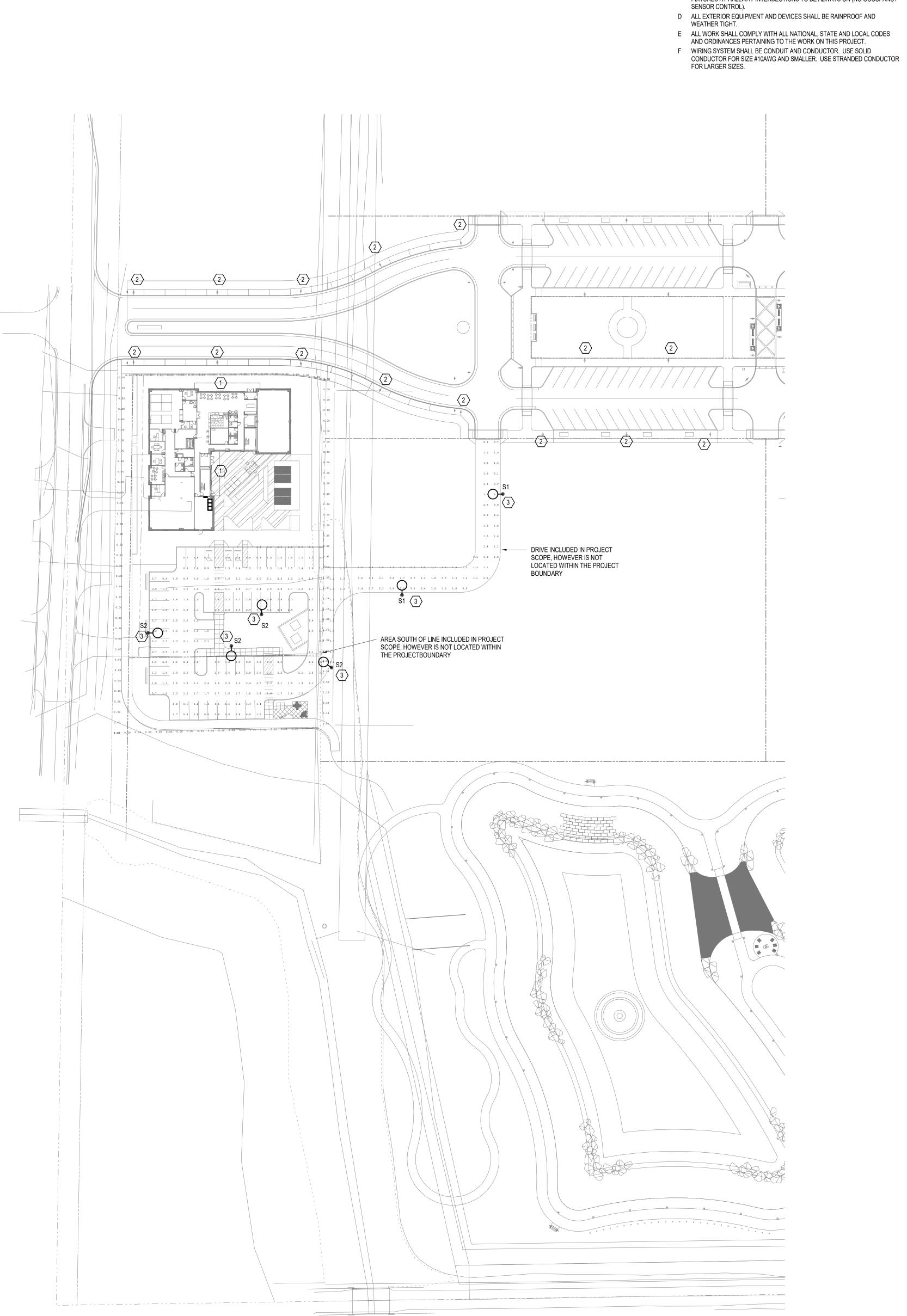
LIGHTING FIXTURE SCHEDUL

UNIT ID	BASE MANUFACTURER	EQUAL MANUFACTUR ER	LAMP	VOLTS	WATTS	UNITS	LUMENS	UNITS	ССТ	LOCATION(S)	MOUNT	DESCRIPTION
S1	US ARCH LTG: VLL-LED-PLED3-W-80LED-1050MA-X-WW-1-X-TPR7		LED	120 V	135 W	/FIXTURE	16,500	/FIXTURE 3	3500K	SITE	20' POLE	LED LIGHT POLE WITH TYPE 3 DISTRIBUTION. INTEGR PHOTOCELL. 20' ROUND TAPERED ALUMINUM POLE.
S2	US ARCH LTG: VLL-LED-PLED4-W-80LED-1050MA-X-WW-1-X-TPR7		LED	120 V	135 W	/FIXTURE	17,600	/FIXTURE \$	3500K	SITE	20' POLE	LED LIGHT POLE WITH TYPE 4 DISTRIBUTION. INTEGE PHOTOCELL. 20' ROUND TAPERED ALUMINUM POLE.
SC1	AAL: RNR-4-5-3K8-SM-DL-UNV-DF-X		LED	120 V	0 W	/FIXTURE	2000	/FIXTURE \$	3500K	CANOPY	RECESSED	4' RECESSED LINEAR DOWNLIGHT WITH FLANGE. WE' LOCATION LISTED. 80 CRI MIN.
SC1E	AAL: RNR-4-5-3K8-SM-DL-UNV-DF-X-EM		LED	120 V	0 W	/FIXTURE	2000	/FIXTURE 3	3500K	CANOPY	RECESSED	SAME AS TYPE SC1 WITH INTEGRAL BATTERY BACKU
SW1E	CURRENT: SG2-50-3K7-FT-120-X-PCU-EH		LED	120 V	50 W	/FIXTURE	5000	/FIXTURE \$	3500K	EGRESS	SURFACE	LED WALL PACK WITH INTEGRAL BATTERY BACKUP. FINISH PER ARCHITECT. FORWARD THROW OPTIC.

Symbol	Qty	Label	Description		Luminaire Lumens	Luminaire Watts	BUG Rating
	9	RNR-X-4-5-35K8-SM-DL (1)	RNR-X-4-5-35K8-SM-DL	0.900	2301	25	B1-U0-G1
Ē	2	SG1-20-3K7-FT-Visor	SG1-20-3K7-FT-Visor	0.900	1429	21	B1-U1-G0
	2	VLL-PLED-IV-40LED-1050mA-40K	VLL-PLED-IV-40LED-1050mA-40K	0.900	17694	134.8	B3-U0-G3
00	4	VLL-PLED-III-W-40LED-1050mA-4	VLL-PLED-III-W-40LED-1050mA-40K	0.900	16554	134.8	B3-U0-G3

Symbol	Qty Label		Description	LLF	Luminaire Lumens	Luminaire Watts	BUG Rating
	9	RNR-X-4-5-35K8-SM-DL (1)	RNR-X-4-5-35K8-SM-DL	0.900	2301	25	B1-U0-G1
Ē	2	SG1-20-3K7-FT-Visor	SG1-20-3K7-FT-Visor	0.900	1429	21	B1-U1-G0
	2	VLL-PLED-IV-40LED-1050mA-40K	VLL-PLED-IV-40LED-1050mA-40K	0.900	17694	134.8	B3-U0-G3
DD.	4	VLL-PLED-III-W-40LED-1050mA-4	VLL-PLED-III-W-40LED-1050mA-40K	0.900	16554	134.8	B3-U0-G3

LE - EXTERIOR



1)ELECTRICAL SITE LIGHTING PLAN

GENERAL NOTES

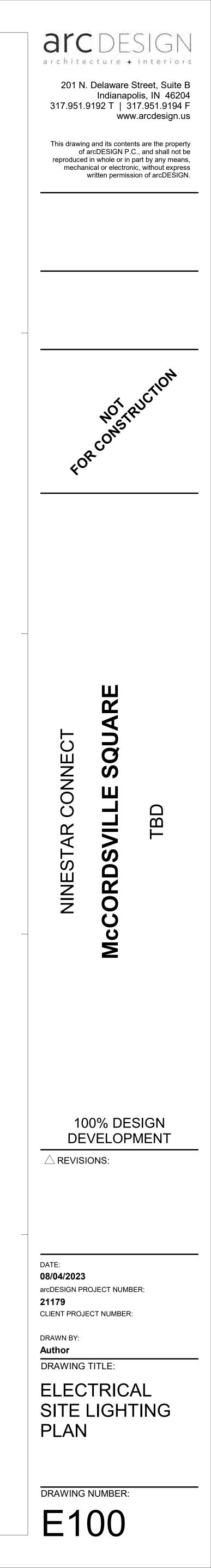
SHEET KEYNOTES

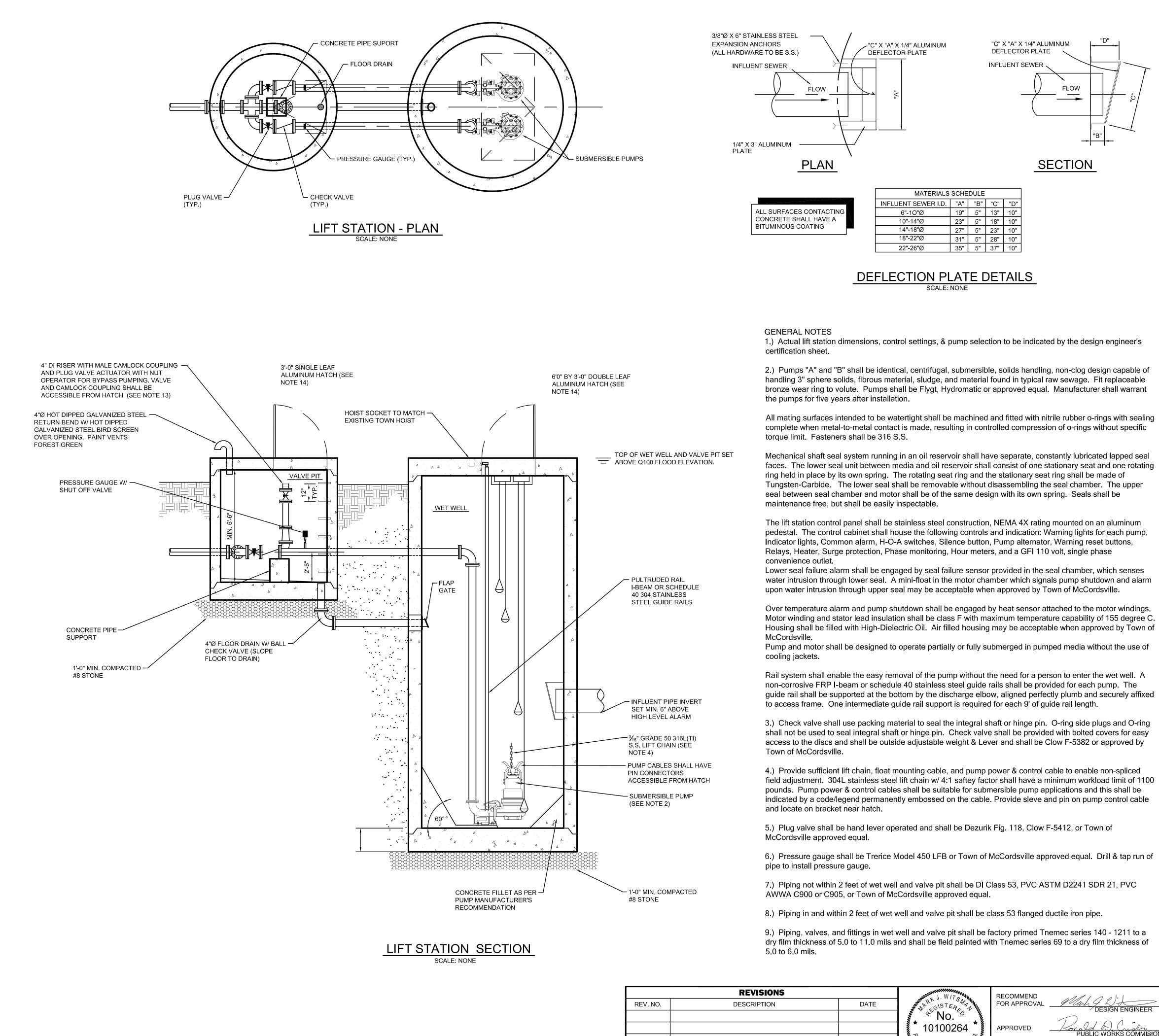
3 MOUNT LIGHT FIXTURE AND POLE ATOP CONCRETE 6" BASE. COORDINATE FINAL PLACEMENT WTIH EXISTING UTILITIES AND OTHER DISCIPLINES.

1 SEE E120 SERIES SHEETS FOR BUILDING MOUNTED LIGHTING.

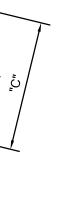
2 EXISTING LIGHT POLE.

- A REFER TO SHEET E-000 FOR GENERAL ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
- B REFER TO E-600 SERIES SHEETS FOR LIGHT FIXTURE SCHEDULES AND PANEL
- SCHEDULES.
- C WIRE EVERY THIRD HALLWAY FIXTURE, FIXTURES AT EGRESS DOORS AND FIXTURES AT HALLWAY INTERSECTIONS TO BE ALWAYS ON (NO OCCUPANCY
- D ALL EXTERIOR EQUIPMENT AND DEVICES SHALL BE RAINPROOF AND WEATHER TIGHT.
- E ALL WORK SHALL COMPLY WITH ALL NATIONAL, STATE AND LOCAL CODES AND ORDINANCES PERTAINING TO THE WORK ON THIS PROJECT.





	REVISIONS		RKJ. WITSMAN	RECOMMEND	
REV. NO.	DESCRIPTION	DATE	R R GISTER ANI	FOR APPROVAL	DESIGN EN
			, [™] No. `` , '		
			10100264	APPROVED	PUBLIC WORKS
			PR STATE OF		
			MIN SSIGNAL ENGLES	APPROVED	TOWN COUNCI
			"IIII SONAL ENG		



10.) Lift station and valve pit manholes shall be pre-cast concrete in accordance with ASTM C-478, with rubber gaskets equal to ASTM-443 with double row of 1/2" Hamilton Kent-Seal Extrudable Preformed Gasket material or Town of McCordsville approved equal. Exterior joints to have butyl rubber applied over the joint to a minimum of 1'-0" above and below the joint. Interior joints are to be sealed with non-shrink grout or precoat plug material.

11.) Valve pit shall be constructed on undisturbed soil or compacted granular material compacted with ½ inch nominal size to 95% standard proctor density.

12.) Horizontal projections from precast integral base and riser may be required to enable the weight of the vertical soil ring above the projection to resist buoyancy forces. See design engineer's certification sheet.

13.) Camlock flanged coupler and dust cap shall be used within valve vault. Camlock coupling and eccentric plug valve on by-pass line shall be 6" diameter with transition to force main size occurring with concentric reducer placed on top of base elbow. Fix operating nut for eccentric plug in vertical position to enable wrench operation from surface. Layout of all valve vault fittings and equipment to be based upon by-pass line being up close to hatch opening as shown.

14.) Aluminum hatches shall be Bilco, Halliday or Town of McCordsville approved equal. Leaf shall be 1/4" aluminum diamond plate live load rated to 300PSF. Access frames and covers shall be 1/4 inch thick one-piece, mill finish, extruded aluminum frame, incorporating a continuous concrete anchor. All surfaces contacting concrete shall have a bituminous coating. Hatch shall be provided with type 316 S.S. hardware throughout, compression spring operators, automatic hold-open arm with release handle, and non-corrosive locking bar used in conjunction with a Town of McCordsville supplied padlock.

15.) Sewer connection to wet well shall be KOR-N-SEAL, A-LOK, DURA-SEAL, or Town of McCordsville approved equal.

16.) Force main penetrations of wet well shall be KOR-N-SEAL, A-LOK, DURA-SEAL, or Town of McCordsville approved equal.

17.) Automatic pump control system shall include all necessary items and appurtenances, which might normally be considered a part of a complete system. System shall be supplied by one manufacturer, shall be factory assembled, wired and tested, and shall be per complete electrical drawings and instructions. Major components and sub-assemblies shall be identified as function with laminated, engraved, bakelite nameplates. System shall be built in a NEMA 4X S.S. enclosure suitable for the specified horsepower and voltage of the pumps. The outer door of the panel shall be a hinged dead front with provisions for padlocking. Inside shall be a separate hinged panel to protect all electrical components, H-O-A switches, run lights, circuit breakers, etc. mounted such that only the faces protrude through said panel with no wiring fixed to said panel. The manufacturer shall warrant the control center for one year after installation covering 100% parts and labor.

Provide the services of a factory-trained, qualified representative to inspect, to adjust, and to place the system in trouble-free operation and to instruct the operating personnel in the proper operation and care of the system.

All major components of control center shall be available from local sources. Pump manufacturer shall accept the control center in writing to ensure unit responsibility and warranty.

Provide a disconnect switch housed in a separate NEMA 4X S.S. enclosure with external operation handle capable of being locked in the "on" position. Provide 480 volt, 200 amp, 4 wire weatherproof receptacle, Crouse Hindes AR204 or equal, to match plug on existing portable generator.

Provide a Omni-site net Crystall WM housed within the NEMA 4X control panel.

An incoming power terminal block shall be located at the bottom of the control enclosure. A lightning arrestor shall be provided at the terminal block and connected to each line of the incoming side of the power input terminals. A single main fusible/breaker disconnect switch of adequate size to provide power for control, operation, and appurtenant components shall be provided. Provide a circuit breaker and magnetic starter with each leg manual reset overload protected for each pump. Starters shall have auxiliary contacts on 3Φ applications to operate both pumps simultaneously. Provide a circuit breaker and transformer to power the control panel with 1 Φ , 115 volt service for all control functions. Provide a green "run" light and H-O-A switch to enable field connections.

Materials and installation of the required equipment grounding shall be in accordance with NEC section 250-83(c). All wiring shall have not less than 600 volt insulation. Wiring and buss shall be in accordance with NEC, state, local, and NEMA standards. All wiring shall be color coded.

Minimum 4" diameter, schedule 40 conduit shall be provided from wet well to control panel enabling pump power & sensor cables and float switch cables to be easily pulled. Seal conduit at control panel to prevent sewer gases from entering. All conduits, fittings, or connections shall enter from the bottom of enclosures.

Sump level rise to lead pump run float causes lead pump to operate. Lead pump operating and sump level falling to pumps off float causes lead pump to shut off. Lead pump operating and sump level rising to lag pump run float causes lag pump to operate. Lag pump operating and sump level falling to pumps off float causes both pumps to shut off. Sump level rise to high level alarm causes high level alarm to operate. An alternating relay all be provided to cause pumps to alternate whenever pumps off float is de-energized. If one pump fails for y reason, the remaining pump shall operate upon sump level rise to lag pump run float. An hour meter shall e provided for each pump to record the elapsed operating time of each pump.

.) Four manuals shall be presented to the owner, which shall include the following minimum information: 1) peration instructions, 2) Maintenance instructions, 3) Recommended spare parts list, 4) Lubrication schedule, 5) Structural diagrams, 6) As-built wiring diagrams, & 7) Bill of materials.

> **TOWN OF McCORDSVILLE TOWN STANDARDS SANITARY SEWER LIFT STATION**

STANDARDS & GUIDELINES

SHEET 10 OF 10

<u>7/12/05</u> DATE <u>7/12/05</u> DATE 7/12/05 DATE

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	18.) Op