LANDSCAPE EXTENTS
(LANDSCAPE POINTS CALCULATED UTILIZING IMPERVIOUS AREA THROUGHOUT LANDSCAPE EXTENTS BOUNDARY)

TRASH ENCLOSURE

PROPOSED PARKING STRUCTURE

SEE SHEET L101

VILLAGER SHOPPING CENTER

SEE SHEET L102

SEE SHEET L103

LOADING ZONE

URBAN LEAGUE HUB

MADISON PUBLIC LIBRARY

H U G H E S P L A C E

S O U T H P A R K S T R E E T (S B)

THE RIGHT OF WAY IS THE SOLE JURISDICTION OF THE CITY OF MADISON AND IS SUBJECT TO CHANGE AT ANY TIME PER THE RECOMMENDED PLAN BY TRAFFIC ENGINEERING AND CITY ENGINEERING DEPARTMENT

EXISTING STREET TREES

SEE SHEET L102 FOR STREET TREE PLANTING SCHEDULE

PLANT LIST

ORNAMENTAL TREES	CODE	BOTANICAL / COMMON NAME
	CCJN	*Carpinus caroliniana 'J.N. Strain'* / *J.N. Strain American Hornbeam*
	CECA	*Cercis canadensis 'Columbus'* / *Columbus Strain Eastern Redbud*
	MAAM	*Maackia amurensis* / *Amur Maackia*
OVERSTORY DECIDUOUS TREES	**CODE**	**BOTANICAL / COMMON NAME**
	ACMM	*Acer miyabei 'Morton'* / *State Street™ Miyabe Maple*
	CDPP	*Celtis occidentalis 'Prairie Pride'* / *Prairie Pride Hackberry*
	GIBI	*Ginkgo biloba 'Autumn Gold' TM* / *Autumn Gold Maidenhair Tree*
	GBPS	*Ginkgo biloba 'Princeton Sentry'* / *Princeton Sentry Maidenhair Tree*
	GLTR	*Gleditsia triacanthos inermis 'Shademaster' TM* / *Shademaster Locust*
	GYDE	*Gymnocladus dioica 'Espresso'* / *Kentucky Coffeetree*
	PAMC	*Platanus x acerifolia 'Morton Circle'* / *Exclamation!™ London Plane Tree*
UPRIGHT EVERGREEN SHRUB	**CODE**	**BOTANICAL / COMMON NAME**
	THOC	*Thuja occidentalis 'Emerald'* / *Emerald Arborvitae*
	THTE	*Thuja occidentalis 'Techny'* / *Techny Arborvitae*
DECIDUOUS SHRUBS	**CODE**	**BOTANICAL / COMMON NAME**
	ARME	*Aronia melanocarpa 'Morton' TM* / *Iroquis Beauty Black Chokeberry*
	CLAH	*Clethra alnifolia 'Hummingbird'* / *Hummingbird Summersweet*
	COSE	*Cornus sericea 'Farrow'* / *Arctic Fire® Red Twig Dogwood*
	FOVB	*Forsythia viridissima 'Bronxensis'* / *Bronx Forsythia*
	HPDP	*Hydrangea paniculata 'Dvp Pinky' TM* / *Pinky Winky Panicle Hydrangea*
	HPLQ	*Hydrangea paniculata 'Little Quick Fire'* / *Little Quick Fire Hydrangea*
	SYPA	*Syringa x 'SMNJRPP' TM* / *Bloomerang Dwarf Pink Lilac*
	VDLJ	*Viburnum dentatum 'ILMseventeen'* / *Little Joe™ Arrowwood Viburnum*
EVERGREEN SHRUBS	**CODE**	**BOTANICAL / COMMON NAME**
	BUGV	*Buxus x 'Green Velvet'* / *Green Velvet Boxwood*
	JCPK	*Juniperus chinensis 'Pfitzerana Kallays Compacta'* / *Kally Pfitzer Compact Juniper*
	JUCH	*Juniperus chinensis 'Sea Green'* / *Sea Green Juniper*
	JUMA	*Juniperus sabina 'Mini-Arcadia'* / *Mini Arcadia Juniper*
PERENNIALS & GRASSES	**CODE**	**BOTANICAL / COMMON NAME**
	ALSU	*Allium x 'Summer Beauty'* / *Summer Beauty Allium*
	AQCA	*Aquilegia canadensis* / *Eastern Columbine*
	ASAZ	*Aster azureus* / *Sky Blue Aster*
	CAAC	*Calamagrostis x acutiflora 'Karl Foerster'* / *Karl Foerster Feather Reed Grass*
	CANE	*Calamintha nepeta 'Montrose White'* / *Montrose White Catmint*
	ECPU	*Echinacea purpurea 'PAS782917'* / *Powwow® Wild Berry Coneflower*
	LISK	*Liatris spicata 'Kobold'* / *Kobold Spike Gayfeather*
	MNFI	*Monarda fistulosa* / *Bergamot*
	PAVI	*Panicum virgatum 'Shenandoah'* / *Shenandoah Switch Grass*
	PVNW	*Panicum virgatum 'Northwind'* / *Northwind Switch Grass*
	PNDT	*Penstemon x 'Dark Towers'* / *Dark Towers Beardtongue*
	RUFU	*Rudbeckia fulgida sullivantii 'Goldsturm'* / *Goldsturm Coneflower* *
	SCSC	*Schizachyrium scoparium 'Prairie Blues'* / *Prairie Blues Little Bluestem* *
	SPHE	*Sporobolus heterolepis 'Tara'* / *Prairie Dropseed*

CONTRACTOR NOTES

1. ALL LANDSCAPE AREAS TO RECEIVE SHREDDED HARDWOOD BARK MULCH UNLESS OTHERWISE SPECIFIED.
2. REFERENCE SHEET C1.0 FOR LEGEND.

north

SCALE IN FEET
20' 0 20'

GRÄEF
1010 East Wisconsin Avenue,
Suite 202
Madison, WI 53703
608 / 242 1550

www.graef-usa.com

CONSULTANTS:
JSD

CLIENT:
Community Development Authority of the City of Madison
CDA
Madison Municipal Building
215 Martin Luther King Jr Blvd
Suite 161
Madison, WI 53703

PROJECT TITLE:
VILLAGE ON PARK PARKING STRUCTURE AND SITE IMPROVEMENTS

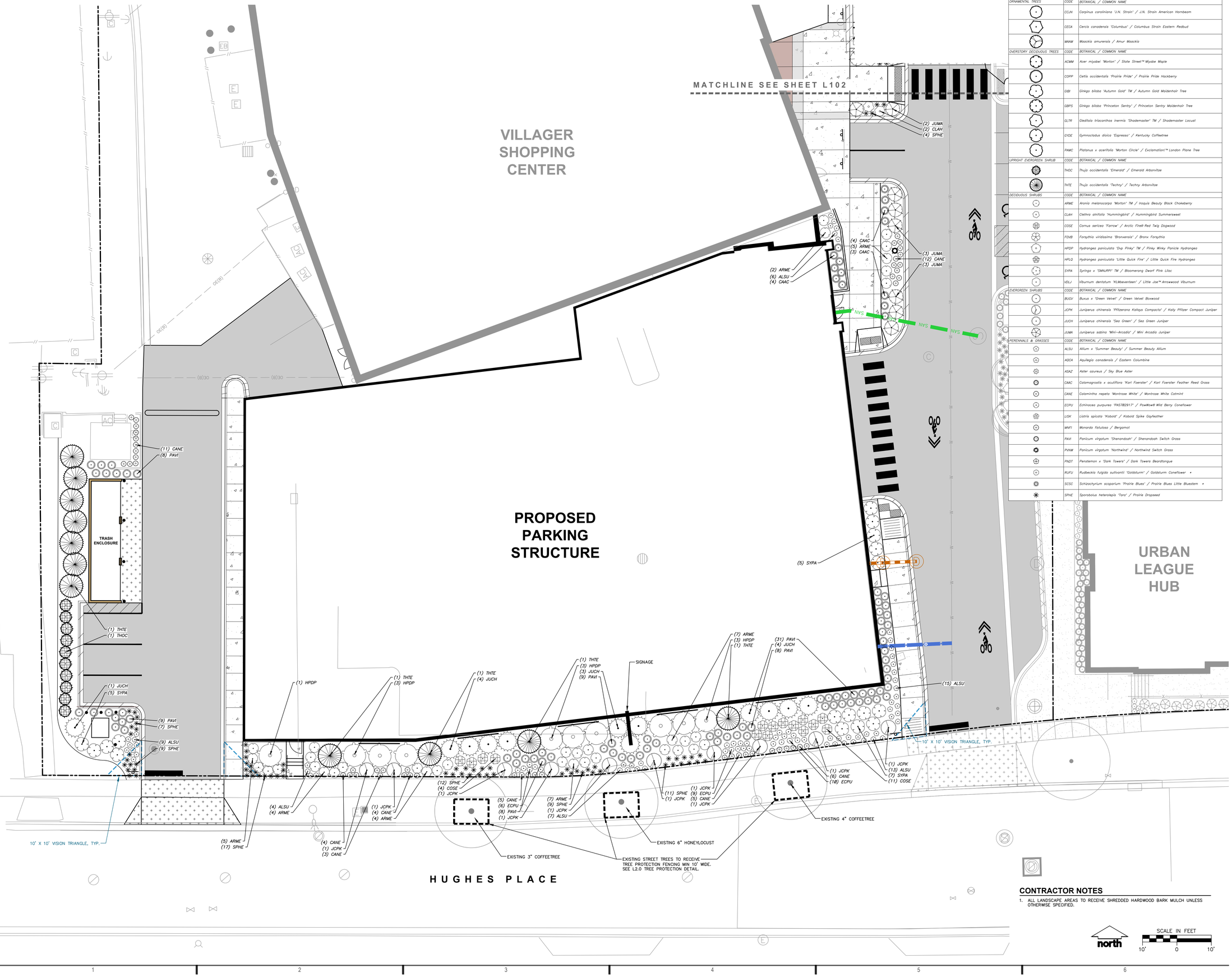
808 HUGHES PLACE
MADISON, WI 53713

ISSUE:
07/28/2023 BID DOCUMENTS

PROJECT INFORMATION:
PROJECT NUMBER: 20225013.00
DATE: 07/28/2023
DRAWN BY: MRA
CHECKED BY: KJY
APPROVED BY: KJY
AS NOTED

SHEET TITLE:
LANDSCAPE PLAN - OVERALL

SHEET NUMBER:
L100



PLANT LIST

ORNAMENTAL TREES	CODE	BOTANICAL / COMMON NAME
	CCJN	Carpinus caroliniana 'J.N. Strain' / J.N. Strain American Hornbeam
	CECA	Cercis canadensis 'Columbus' / Columbus Strain Eastern Redbud
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	GLTR	Gleditsia triacanthos inermis 'Shademaster' TM / Shademaster Locust
	GYDE	Gymnocladus dioica 'Espresso' / Kentucky Coffeetree
	PAMC	Platanus x acerifolia 'Morton Circle' / Exclamation!™ London Plane Tree
UPRIGHT EVERGREEN SHRUB	**CODE**	**BOTANICAL / COMMON NAME**
	THOC	Thuja occidentalis 'Emerald' / Emerald Arborvitae
	THTE	Thuja occidentalis 'Techny' / Techny Arborvitae
DECIDUOUS SHRUBS	**CODE**	**BOTANICAL / COMMON NAME**
	ARME	Aronia melanocarpa 'Morton' TM / Iroquis Beauty Black Chokeberry
	CLAH	Clethra alnifolia 'Hummingbird' / Hummingbird Summersweet
	COSE	Cornus sericea 'Farrow' / Arctic Fire® Red Twig Dogwood
	FOVB	Forsythia viridissima 'Bronxensis' / Bronx Forsythia
	HPDP	Hydrangea paniculata 'Dvp Pinky' TM / Pinky Winky Panicle Hydrangea
	HPLQ	Hydrangea paniculata 'Little Quick Fire' / Little Quick Fire Hydrangea
	SYPA	Syringa x 'SMNJRPP' TM / Bloomerang Dwarf Pink Lilac
	VDLJ	Viburnum dentatum 'ILMseventeen' / Little Joe™ Arrowwood Viburnum
EVERGREEN SHRUBS	**CODE**	**BOTANICAL / COMMON NAME**
	BUGV	Buxus x 'Green Velvet' / Green Velvet Boxwood
	JCPK	Juniperus chinensis 'Pfitzerana Kallays Compacta' / Kally Pfitzer Compact Juniper
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PERENNIALS & GRASSES	**CODE**	**BOTANICAL / COMMON NAME**
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	AQCA	Aquilegia canadensis / Eastern Columbine
	ASAZ	Aster azureus / Sky Blue Aster
	CAAC	Calamagrostis x acutiflora 'Karl Foerster' / Karl Foerster Feather Reed Grass
	CANE	Calamintha nepeta 'Montrose White' / Montrose White Catmint
	ECPU	Echinacea purpurea 'PAS782917' / Powwow® Wild Berry Coneflower
	LISK	Liatris spicata 'Kobold' / Kobold Spike Gayfeather
	MNFI	Monarda fistulosa / Bergamot
	PAVI	Panicum virgatum 'Shenandoah' / Shenandoah Switch Grass
	PVNW	Panicum virgatum 'Northwind' / Northwind Switch Grass
	PNDT	Penstemon x 'Dark Towers' / Dark Towers Beardtongue
	RUFU	Rudbeckia fulgida sullivantii 'Goldsturm' / Goldsturm Coneflower •
	SCSC	Schizachyrium scoparium 'Prairie Blues' / Prairie Blues Little Bluestem •
	SPHE	Sporobolus heterolepis 'Tara' / Prairie Dropseed

CONTRACTOR NOTES

1. ALL LANDSCAPE AREAS TO RECEIVE SHREDDED HARDWOOD BARK MULCH UNLESS OTHERWISE SPECIFIED.

north

SCALE IN FEET
10' 0 10'

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808 HUGHES PLACE
MADISON, WI 53713

ISSUE:
07/28/2023 BID DOCUMENTS

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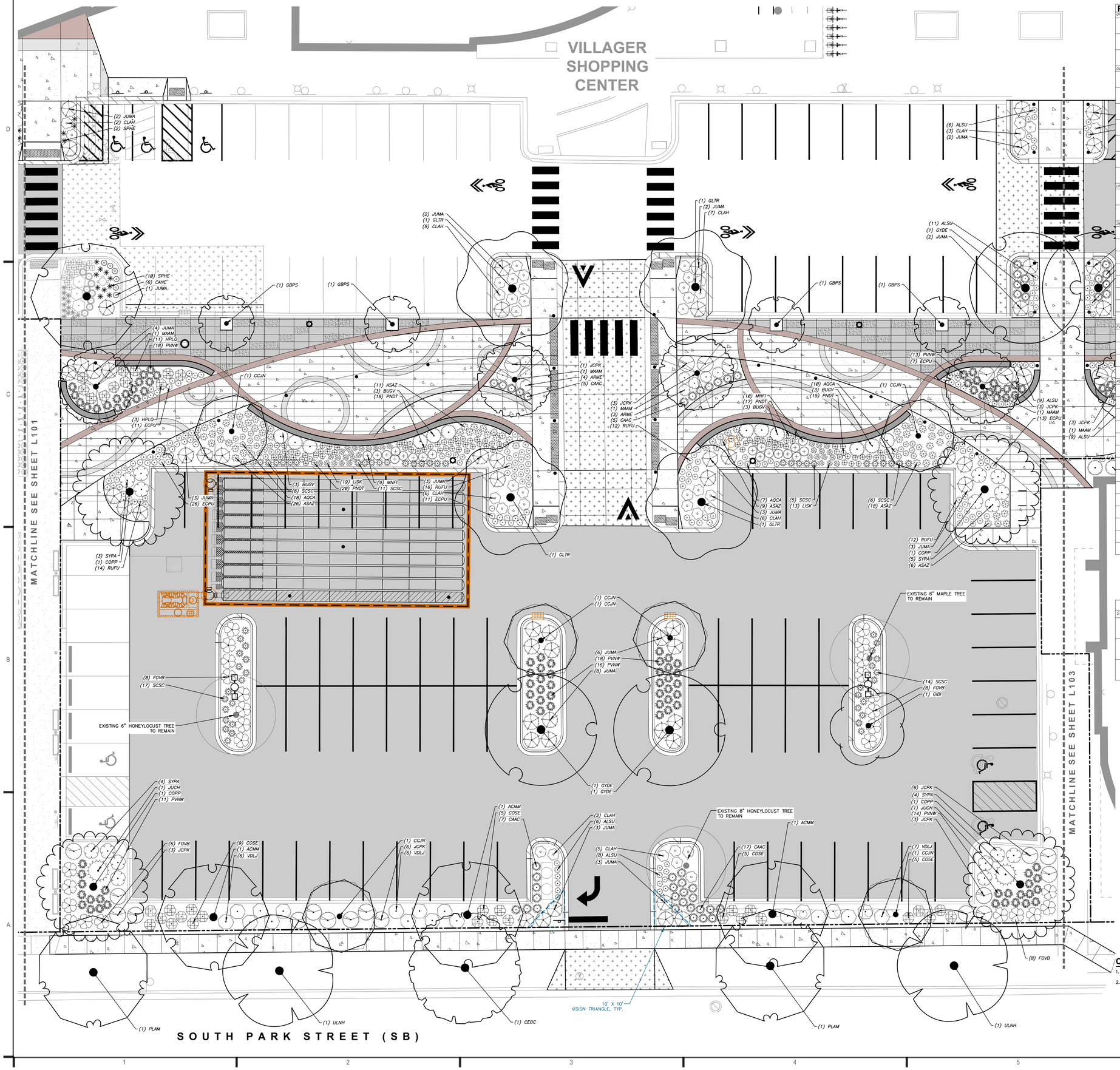
CHECKED BY: KJY
APPROVED BY: KJY
AS NOTED

SHEET TITLE:
LANDSCAPE PLAN - PARKING STRUCTURE

SHEET NUMBER:
L101



PLANT LIST

ORNAMENTAL TREES	CODE	BOTANICAL / COMMON NAME
	CCJN	Carpinus caroliniana 'U.N. Strain' / U.N. Strain American Hornbeam
	CECA	Cercis canadensis 'Columbus' / Columbus Strain Eastern Redbud
	MAAM	Maackia amurensis / Amur Maackia
OVERSTORY DECIDUOUS TREES	**CODE**	**BOTANICAL / COMMON NAME**
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	CORP	Celtis occidentalis 'Prairie Pride' / Prairie Pride Hackberry
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	GYDE	Gymnocladus dioica 'Espresso' / Kentucky Coffeetree
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UPRIGHT EVERGREEN SHRUB	**CODE**	**BOTANICAL / COMMON NAME**
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	VDLI	Viburnum dentatum 'ICMseventeen' / Little Joe™ Arrowwood Viburnum
EVERGREEN SHRUBS	**CODE**	**BOTANICAL / COMMON NAME**
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	SCSC	Schizachyrium scoparium 'Prairie Blues' / Prairie Blues Little Bluestem *
	SPHE	Sporobolus heterolepis 'Tara' / Prairie Dropseed

PLANT SCHEDULE - STREET TREES S. PARK ST.

STREET TREES	CODE	BOTANICAL / COMMON NAME	CONT	SIZE	QTY
	CEOC	Celtis occidentalis Common Hackberry	B & B	2"Cal	1
	PLAM	Platanus x acerifolia 'Morton Circle' Exclamation!™ London Plane Tree	B & B	2"Cal	2
	ULNH	Ulmus x 'New Horizon' New Horizon Elm	B & B	2"Cal	2

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north

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SHEET TITLE:
LANDSCAPE PLAN - VILLAGE GREEN SOUTH

SHEET NUMBER:
L102

VILLAGER SHOPPING CENTER

MADISON PUBLIC LIBRARY

MATCHLINE SEE SHEET L102

SOUTH PARK STREET (SB)

LOADING ZONE

LOADING ZONE

ARTIFICIAL TURF SEATING SPACE

(6) ALSU
(3) CLAH
(2) JUMA

(2) JUMA
(1) CLAH
(3) ALSU

(11) ALSU
(1) GYDE
(2) JUMA

(2) JUMA
(6) CAAC
(1) GYDE
(8) ALSU

(1) GBPS

(1) GBPS

(7) ECPU

(3) JUMA
(18) SPHE

(1) GLTR

(3) JUMA
(1) GLTR
(9) SPHE

(18) PVNW
(9) FOVB
(1) ACMM

(1) PAMC
(13) PAVI
(18) PAVI
(16) ALSU
(28) SCSC
(23) SCSC

(13) PVNW
(7) ECPU

(9) ALSU
(3) JCPK
(1) MAAM
(13) ECPU

(7) ECPU
(13) PVNW
(2) CECA

(9) ALSU
(28) SPHE
(5) HPLQ

(3) JCPK
(1) MAAM
(9) ALSU

(7) ECPU

(5) JCPK
(5) ALSU

(12) RUFU
(4) BUGV

(8) PAVI
(3) COSE

(17) RUFU
(5) COSE

(5) BUGV

(5) COSE

(12) RUFU
(3) JUMA
(1) COPP
(5) SYPA
(6) ASAZ

(14) SCSC
(8) FOVB
(1) GIBI

(6) JCPK
(4) SYPA
(1) COPP
(1) JUCH
(14) PVNW
(3) JCPK

(7) VDLJ
(1) CCJN
(5) COSE

(8) FOVB

(1) ULNH

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CONTRACTOR NOTES

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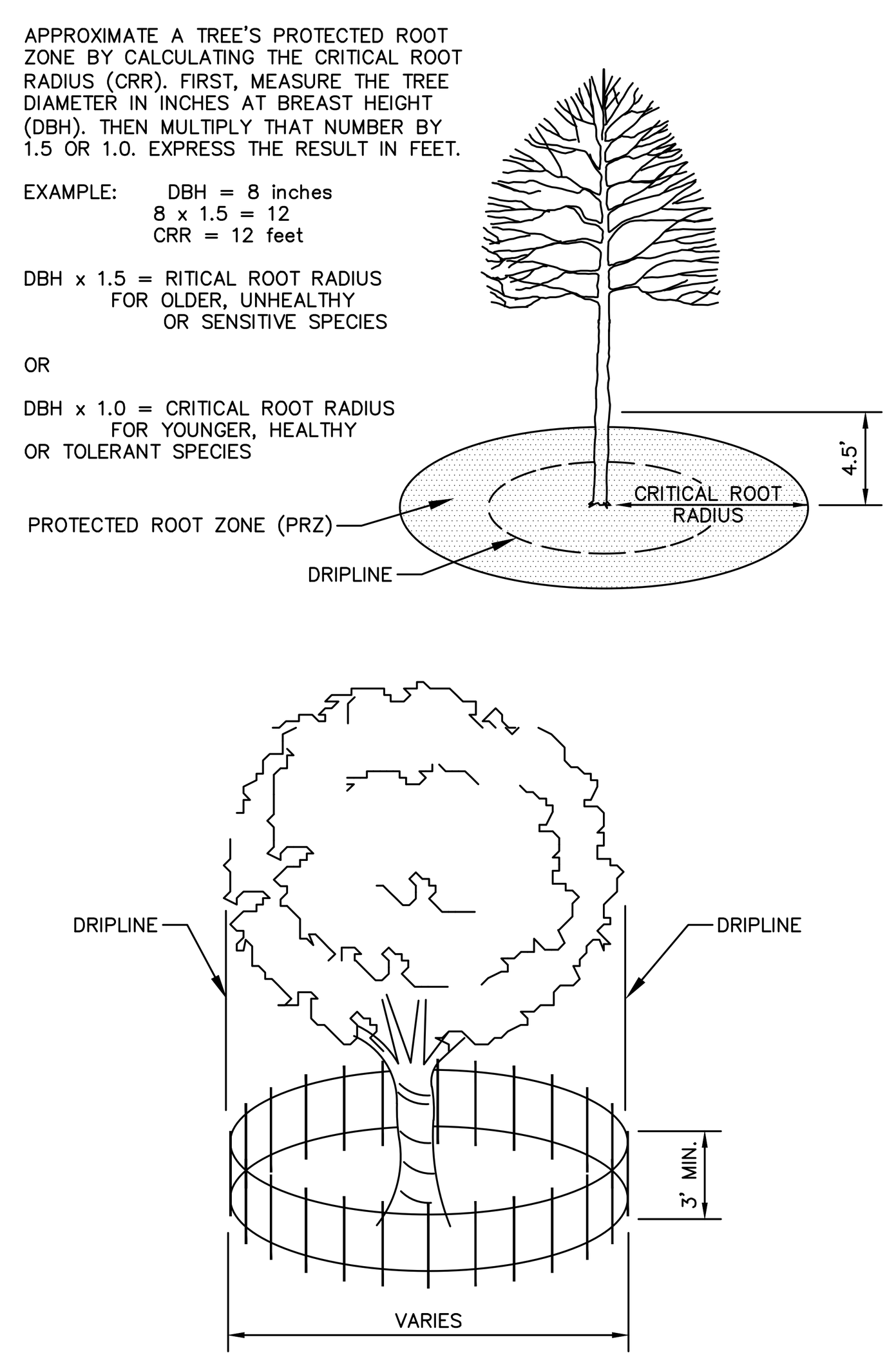
SHEET TITLE:

LANDSCAPE PLAN - VILLAGE GREEN NORTH

SHEET NUMBER:

L103

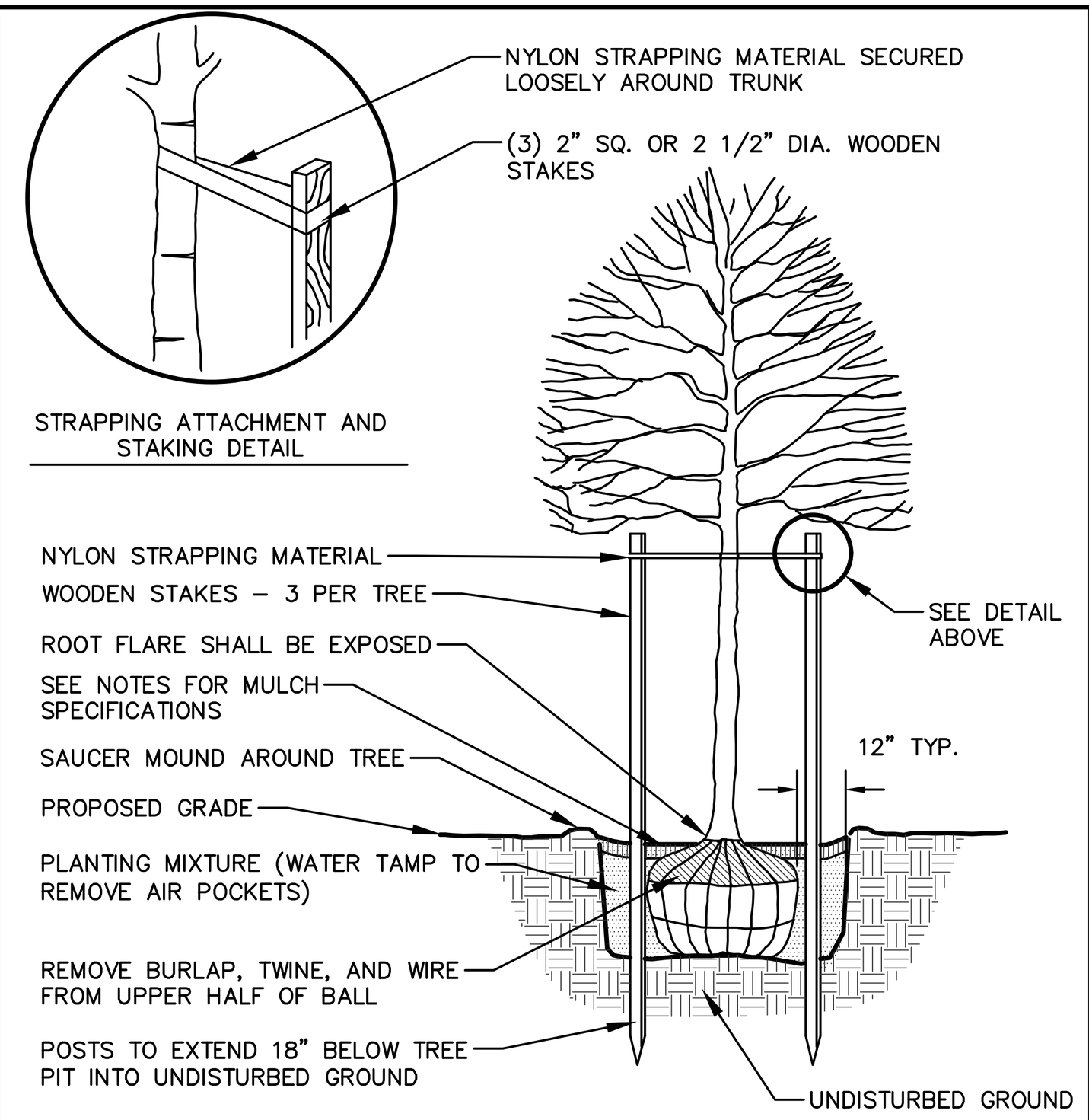


NOTE:
1. CONTRACTOR SHALL INSTALL TREE PROTECTION FENCING IN THE AREA SURROUNDING THE TREE WITHIN THE CRITICAL ROOT RADIUS
2. NO EXCAVATION IS PERMITTED WITHIN THE CRITICAL ROOT RADIUS
3. IF EXCAVATION WITHIN THE CRITICAL ROOT RADIUS OF ANY TREE IS NECESSARY, CONTRACTOR SHALL CONTACT CITY FORESTER PRIOR TO EXCAVATION TO ASSESS THE IMPACT TO THE TREE AND ROOT SYSTEM.

TREE PROTECTION DETAIL

N.T.S.

REV. 01-04-2019

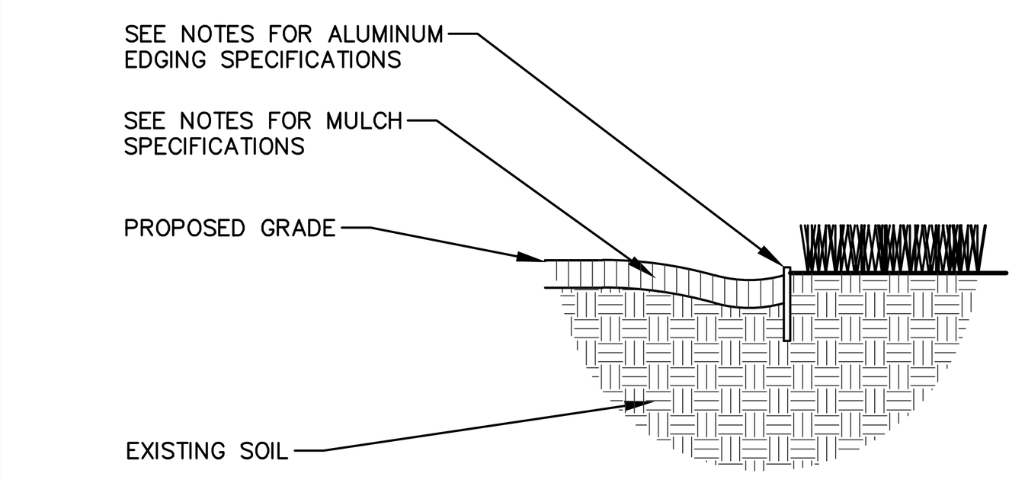


NOTE:
1. DIG HOLE NO DEEPER THAN BASE OF ROOT BALL TO FLARE. ROOT BALL TO BE SET ON UNDISTURBED SOIL UNLESS COMPACTED AGGREGATE STONE REMAINS FROM SITE EXCAVATOR. REMOVE REMAINING AGGREGATE STONE UNTIL SOIL LAYER IS REACHED.
2. REMOVE NYLON STRAPPING WITHIN 9-18 MONTHS FOLLOWING INSTALLATION

DECIDUOUS TREE PLANTING DETAIL

N.T.S.

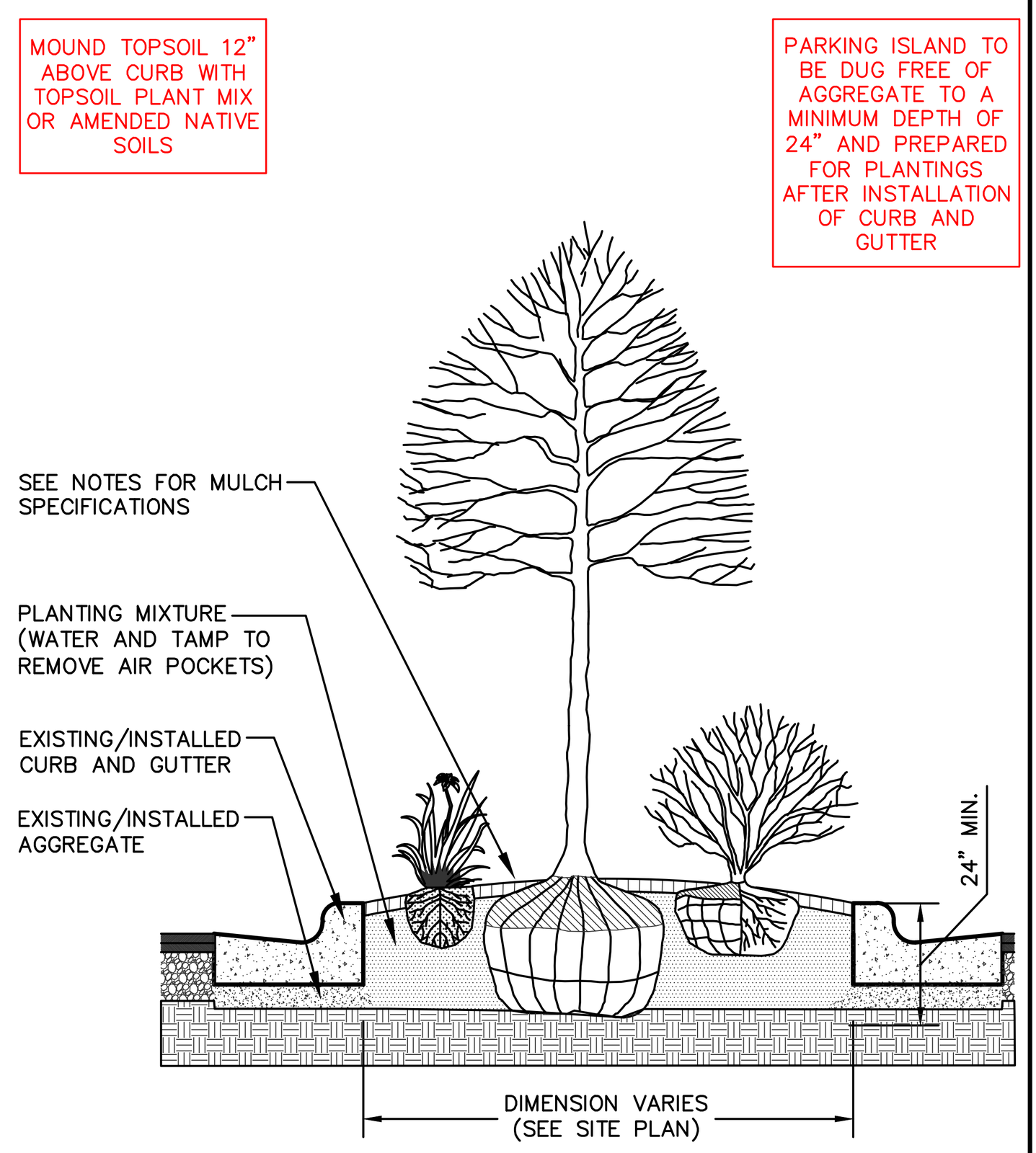
REV. 01-04-2019



ALUMINUM LANDSCAPE EDGING DETAIL

N.T.S.

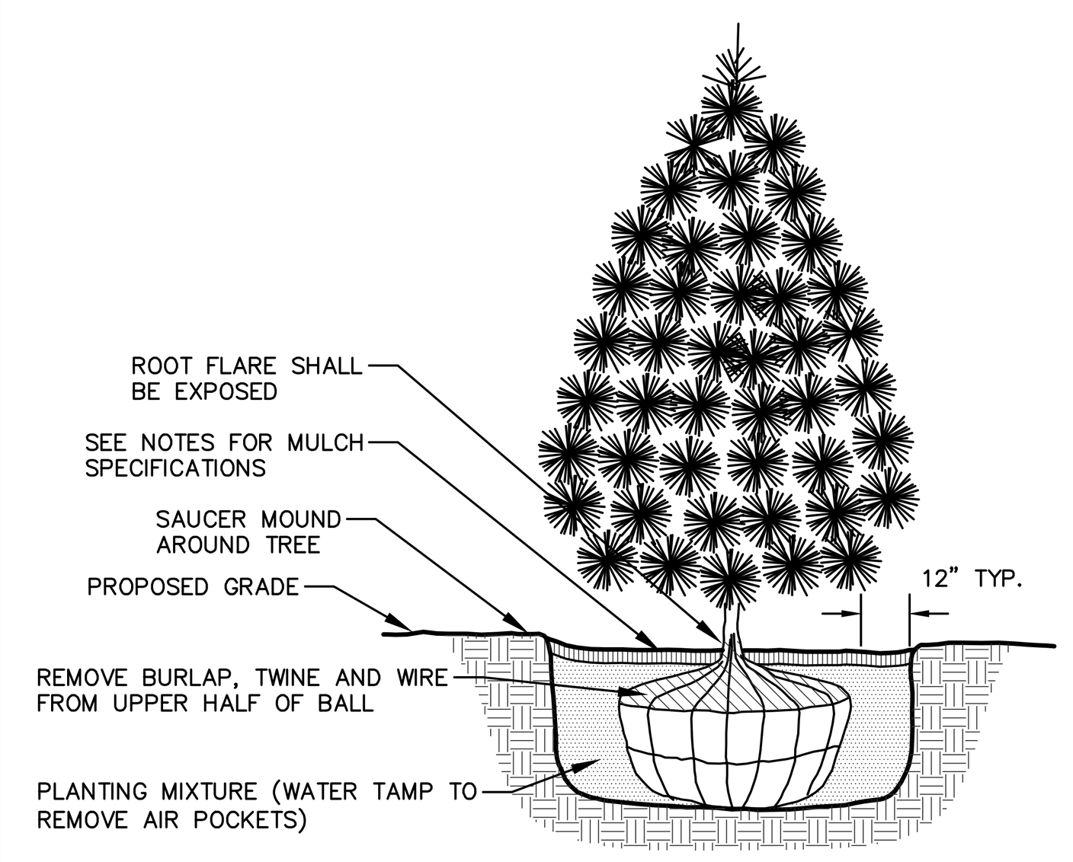
REV. 01-03-2019



PARKING ISLAND LANDSCAPE DETAIL

N.T.S.

REV. 01-03-2019

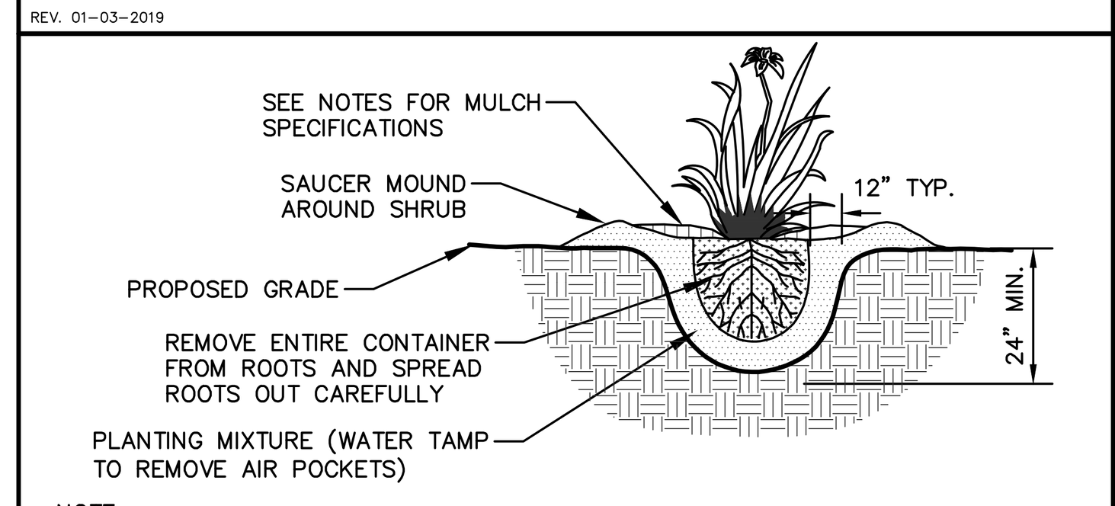


NOTE:
1. DIG HOLE NO DEEPER THAN BASE OF ROOT BALL TO FLARE. ROOT BALL TO BE SET ON UNDISTURBED SOIL UNLESS COMPACTED AGGREGATE STONE REMAINS FROM SITE EXCAVATOR. REMOVE REMAINING AGGREGATE STONE UNTIL SOIL LAYER IS REACHED

EVERGREEN TREE PLANTING DETAIL

N.T.S.

REV. 01-03-2019

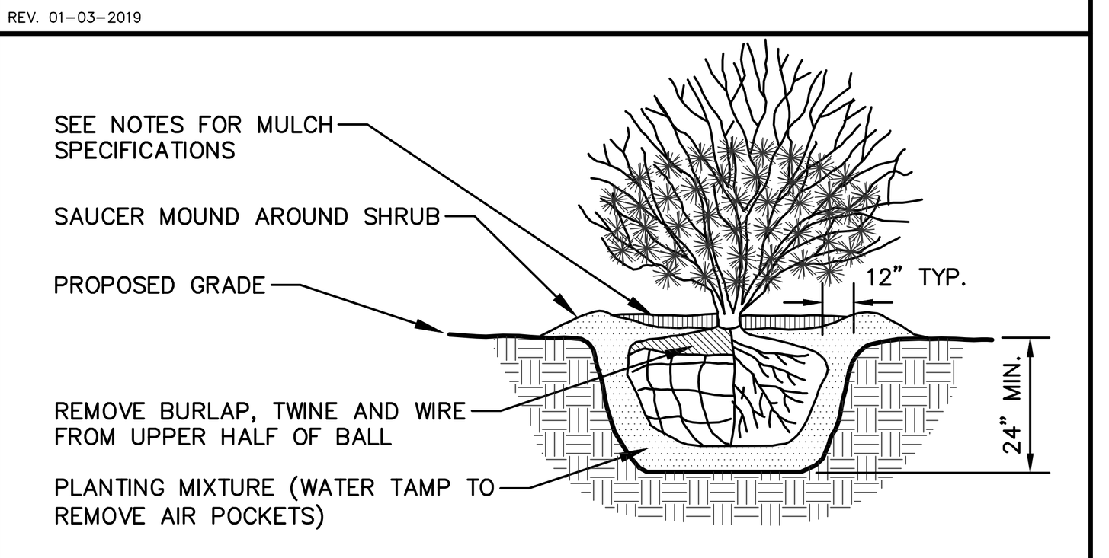


NOTE:
1. ROOT FLARE TO BE EXPOSED

PERENNIAL/ORNAMENTAL GRASS PLANTING DETAIL

N.T.S.

REV. 01-03-2019



NOTE:
1. ROOT FLARE TO BE EXPOSED.

SHRUB PLANTING DETAIL

N.T.S.

REV. 01-03-2019

COMPREHENSIVE PLANT SCHEDULE

ORNAMENTAL TREES	CODE	BOTANICAL / COMMON NAME	CONT	SIZE	QTY
	CCJN	Carpinus caroliniana 'J.N. Strain' / J.N. Strain American Hornbeam	B & B	1.5"Cal	6
	CECA	Cercis canadensis 'Columbus' / Columbus Strain Eastern Redbud	B & B	Multi-Stem	2
	MAAM	Maackia amurensis / Amur Maackia	B & B	2.5"Cal	5
OVERSTORY DECIDUOUS TREES	CODE	BOTANICAL / COMMON NAME	CONT	SIZE	QTY
	ACMM	Acer miyabei 'Morton' / State Street™ Miyabe Maple	B & B	2.5"Cal	5
	COPP	Celtis occidentalis 'Prairie Pride' / Prairie Pride Hackberry	B & B	2.5"Cal	4
	GIBI	Ginkgo biloba 'Autumn Gold' TM / Autumn Gold Maidenhair Tree	B & B	2.5"Cal	1
	GBPS	Ginkgo biloba 'Princeton Sentry' / Princeton Sentry Maidenhair Tree	B & B	2.5"Cal	6
	GLTR	Gleditsia triacanthos inermis 'Shademaster' TM / Shademaster Locust	B & B	2.5"Cal	6
	GYDE	Gymnocladus dioica 'Espresso' / Kentucky Coffeetree	B & B	2.5"Cal	4
	PAMC	Platanus x acerifolia 'Morton Circle' / Exclamation!™ London Plane Tree	B & B	2.5"Cal	1
UPRIGHT EVERGREEN SHRUB	CODE	BOTANICAL / COMMON NAME	CONT	SIZE	QTY
	THOC	Thuja occidentalis 'Emerald' / Emerald Arborvitae	B & B	Min. 6' tall	10
	THTE	Thuja occidentalis 'Techny' / Techny Arborvitae	B & B	Min. 6' tall	11
DECIDUOUS SHRUBS	CODE	BOTANICAL / COMMON NAME	CONT	SIZE	QTY
	ARME	Aronia melanocarpa 'Morton' TM / Iroquis Beauty Black Chokeberry	#5	Min. 24"	45
	CLAH	Clethra alnifolia 'Hummingbird' / Hummingbird Summersweet	#5	Min. 24"	43
	COSE	Cornus sericea 'Farrow' / Arctic Fire® Red Twig Dogwood	#7	Min. 36"	47
	FOVB	Forsythia viridissima 'Bronxensis' / Bronx Forsythia	#5	Min. 24"	36
	HPDP	Hydrangea paniculata 'Dvp Pinky' TM / Pinky Winky Panicle Hydrangea	#5	Min. 24"	10
	HPLQ	Hydrangea paniculata 'Little Quick Fire' / Little Quick Fire Hydrangea	#5	Min. 24"	16
	SYPA	Syringa x 'SMNJRPI' TM / Bloomerang Dwarf Pink Lilac	#5	Min. 24" tall	33
	VDLJ	Viburnum dentatum 'KLMseventeen' / Little Joe™ Arrowwood Viburnum	#5	Min. 36"	19
EVERGREEN SHRUBS	CODE	BOTANICAL / COMMON NAME	CONT	SIZE	QTY
	BUGV	Buxus x 'Green Velvet' / Green Velvet Boxwood	#5	Min. 24" tall	21
	JCPK	Juniperus chinensis 'Pfitzerana Kallays Compacta' / Kally Pfitzer Compact Juniper	#5	Min. 24" wide	47
	JUCH	Juniperus chinensis 'Sea Green' / Sea Green Juniper	B & B	Min. 36" Wide	14
	JUMA	Juniperus sabina 'Mini-Arcadia' / Mini Arcadia Juniper	#5	Min. 24" wide	72
PERENNIALS & GRASSES	CODE	BOTANICAL / COMMON NAME	CONT	SIZE	QTY
	ALSU	Allium x 'Summer Beauty' / Summer Beauty Allium	#1	Min. 8"-18"	146
	AQCA	Aquilegia canadensis / Eastern Columbine	#1	Min 8"-18"	42
	ASAZ	Aster azureus / Sky Blue Aster	#1	Min 8"-18"	71
	CAAC	Calamagrostis x acutiflora 'Karl Foerster' / Karl Foerster Feather Reed Grass	#1	Min. 8"-18"	62
	CANE	Calamintha nepeta 'Montrose White' / Montrose White Catmint	#1	Min. 8"-18"	56
	ECPU	Echinacea purpurea 'PAS702917' / PowWow® Wild Berry Coneflower	#1	Min 8"-18"	106
	LISK	Liatris spicata 'Kobold' / Kobold Spike Gayfeather	#1	Min. 8"-18"	32
	MNFI	Monarda fistulosa / Bergamot	#1	Min 8"-18"	19
	PAVI	Panicum virgatum 'Shenandoah' / Shenandoah Switch Grass	#1	Min. 8"-18"	112
	PVNW	Panicum virgatum 'Northwind' / Northwind Switch Grass	#1	Min 8"-18"	117
	PNDT	Penstemon x 'Dark Towers' / Dark Towers Beardtongue	#1	Min 8"-18"	83
	RUFU	Rudbeckia fulgida sullivantii 'Goldsturm' / Goldsturm Coneflower *	#1	Min. 8"-18"	93
	SCSC	Schizachyrium scoparium 'Prairie Blues' / Prairie Blues Little Bluestem *	#1	Min. 8"-18"	102
	SPHE	Sporobolus heterolepis 'Tara' / Prairie Dropseed	#1	Min. 8"-18"	125

PLANT SCHEDULE - STREET TREES S. PARK ST.

STREET TREES	CODE	BOTANICAL / COMMON NAME	CONT	SIZE	QTY
	CEOC	Celtis occidentalis Common Hackberry	B & B	2"Cal	1
	PLAM	Platanus x acerifolia 'Morton Circle' Exclamation!™ London Plane Tree	B & B	2"Cal	2
	ULNH	Ulmus x 'New Horizon' New Horizon Elm	B & B	2"Cal	2

GENERAL NOTES

1. GENERAL: ALL WORK IN THE R-O-W AND PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH LOCAL MUNICIPAL REQUIREMENTS. JSD SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER/CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY ANY OR ALL REGULATORY AGENCIES. LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE DONE TO UTILITIES. CONTRACTOR MUST CALL 1-800-242-8511 FOR UTILITY LOCATIONS AT LEAST THREE DAYS PRIOR TO DIGGING. HAND DIG AND INSTALL ALL PLANTS THAT ARE NEAR EXISTING UTILITIES. PROTECT PREVIOUSLY INSTALLED WORK OF OTHER TRADES. CONTRACTOR IS RESPONSIBLE FOR STAKING THE PLANT MATERIALS FOR REVIEW BY OWNER PRIOR TO DIGGING AND PLACEMENT AND SHALL COORDINATE ALL FINE GRADING AND RESTORATION WITH THE GRADING CONTRACTOR.
2. DELIVERY AND HANDLING: DO NOT DELIVER MORE PLANT MATERIALS THAN CAN BE PLANTED IN ONE DAY, UNLESS ADEQUATE, APPROPRIATE AND SECURE STORAGE IS PROVIDED AND APPROVED BY OWNER'S REPRESENTATIVE. AT ALL TIMES, PROTECT ALL PLANT MATERIALS FROM WIND AND DIRECT SUN. DELIVER PLANTS WITH LEGIBLE IDENTIFICATION LABELS. PROTECT PLANTS DURING DELIVERY AND DO NOT PRUNE PRIOR TO DELIVERY. ALL TREES AND SHRUBS SHALL BE PLANTED ON THE DAY OF DELIVERY; IF THIS IS NOT POSSIBLE, PROTECT THE PLANT MATERIALS NOT PLANTED BY STORING THEM IN A SHADED, SECURE AREA, PROTECTING THE ROOT MASS WITH WET SOIL, MULCH, HAY OR OTHER SUITABLE MEDIUM. CONTRACTOR TO KEEP ALL PLANT MATERIALS ADEQUATELY WATERED TO PREVENT ROOT DESICCATION. DO NOT REMOVE CONTAINER GROWN STOCK FROM CONTAINERS BEFORE TIME OF PLANTING. DO NOT PICK UP CONTAINER OR BALLED PLANTS BY STEM OR ROOTS. ALL PLANTS SHALL BE LIFTED AND HANDLED FROM THE BOTTOM OF THE CONTAINER OR BALL. PERFORM ACTUAL PLANTING ONLY WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE IN ACCORDANCE WITH LOCALLY ACCEPTED BEST HORTICULTURAL PRACTICES.
3. MATERIALS – PLANTS: ALL PLANTS SHALL CONFORM TO THE LATEST VERSION OF THE AMERICAN STANDARD FOR NURSERY STOCK ANSI Z60.1. PLANTS SHALL BE TRUE TO SPECIES AND VARIETY SPECIFIED AND NURSERY GROWN IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR AT LEAST 2 YEARS. PLANTS SHALL BE FRESHLY DUG (DURING THE MOST RECENT FAVORABLE HARVEST SEASON). PLANTS SHALL BE SO TRAINED IN DEVELOPMENT AND APPEARANCE AS TO BE UNQUESTIONABLY SUPERIOR IN FORM, COMPACTNESS, AND SYMMETRY. PLANTS SHALL BE SOUND, HEALTHY, VIGOROUS, WELL BRANCHED AND DENSELY FOLIATED WHEN IN LEAF, AND FREE OF DISEASE AND INSECTS (ADULT EGGS, PUPAE OR LARVAE). THEY SHALL HAVE HEALTHY, WELL-DEVELOPED ROOT SYSTEMS AND SHALL BE FREE FROM PHYSICAL DAMAGE OR OTHER CONDITIONS THAT WOULD PREVENT THRIVING GROWTH OR PREMATURE MORTALITY. PLANTS SHALL BE OF THE HIGHEST QUALITY, POSSESS TYPICAL GROWTH HABITS AND FORM FOR THEIR SPECIES AND BE FREE OF INJURY. PARKWAY TREES AND PARKING LOT TREES SHALL HAVE A MINIMUM BRANCHING HEIGHT OF SIX (6) FEET ABOVE THE GROUND TO ALLOW ADEQUATE VISUAL AND PHYSICAL CLEARANCE.
4. PRUNING: THE CONTRACTOR SHALL PRUNE ALL TREES AND REPAIR ANY INJURIES THAT OCCURRED DURING THE PLANTING PROCESS. DOUBLE LEADERS, DEAD BRANCHES, AND LIMBS DAMAGED OR BROKEN DURING THE PLANTING PROCESS, SHALL BE PRUNED. THIS SHALL BE THE ONLY PRUNING ALLOWED AT PLANTING. PRUNING SHALL CONFORM TO THE LATEST VERSION OF THE AMERICAN STANDARD FOR TREE CARE OPERATIONS, ANSI A300. PRUNE TREES IN ACCORDANCE WITH NAA GUIDELINES. DO NOT TOP TREES. PRUNE SHRUBS ACCORDING TO STANDARD HORTICULTURAL PRACTICES. ON CUTS OVER 3/4" IN DIAMETER AND BRUISES OR SCARS ON BARK, TRACE THE INJURED CAMBIUM LAYER BACK TO LIVING TISSUE AND REMOVE. SMOOTH AND SHAPE WOUNDS SO AS NOT TO RETAIN WATER. TREAT THE AREA WITH AN APPROVED INCONSPICUOUS LATEX BASED ANTISEPTIC TREE PAINT, IF PRUNING OCCURS "IN SEASON". DO NOT PRUNE ANY OAK TREES DURING THE MONTHS FROM APRIL TO OCTOBER.
5. CLEANUP: THE WORK AREA SHALL BE KEPT SAFE AND NEAT AT ALL TIMES. DISPOSED OF EXCESS SOIL. REMOVE ALL CUTTINGS AND WASTE MATERIALS. SOIL AND BRANCHES. BIND AND WRAP THESE MATERIALS, ANY REJECTED PLANTS, AND ANY OTHER DEBRIS RESULTING FROM ALL PLANTING TASKS AND PROMPTLY CLEAN UP AND REMOVE FROM THE PROJECT SITE. UNDER NO CIRCUMSTANCES SHALL THE ACCUMULATION OF SOIL, BRANCHES OR OTHER DEBRIS BE ALLOWED UPON A PUBLIC PROPERTY IN SUCH A MANNER AS TO RESULT IN A PUBLIC SAFETY HAZARD OR DAMAGE. LIKEWISE, UNDER NO CIRCUMSTANCES SHALL ANY DEBRIS OR INCIDENTAL MATERIALS BE ALLOWED UPON ADJACENT PRIVATE PROPERTY.
6. ANY SUBSTITUTIONS IN PLANT TYPE, LOCATION, OR SIZE SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
7. CONTRACTOR TO VERIFY PLANT MATERIAL QUANTITIES AND SQUARE FOOTAGES. QUANTITIES SHOWN ON PLAN TAKE PRECEDENCE OVER THOSE ON SCHEDULE.

LANDSCAPE MATERIAL NOTES

1. MATERIALS – PLANTING MIXTURE: ALL HOLES EXCAVATED FOR TREES, SHRUBS, PERENNIALS AND ORNAMENTAL GRASSES SHALL BE BACKFILLED WITH TWO (2) PARTS TOPSOIL, ONE (1) PART SAND AND ONE (1) PART COMPOST. SOIL MIXTURE SHALL BE WELL BLENDED PRIOR TO INSTALLATION.
2. MATERIALS – TOPSOIL: TOPSOIL TO BE CLEAN, FRIABLE LOAM FROM A LOCAL SOURCE, FREE FROM STONES OR DEBRIS OVER 3/4" IN DIAMETER, AND FREE FROM TOXINS OR OTHER DELETERIOUS MATERIALS. TOPSOIL SHALL HAVE A pH VALUE BETWEEN 6 AND 7. TOPSOIL AND PLANTING SOIL SHALL BE TESTED TO ENSURE CONFORMANCE WITH THESE SPECIFICATIONS AND SHALL BE AMENDED TO MEET THESE SPECIFICATIONS. PROVIDE TEST RESULTS TO OWNER'S REPRESENTATIVE PRIOR TO PLACEMENT. DO NOT PLACE FROZEN OR MUDDY TOPSOIL. APPLY SOIL AMENDMENTS TO ALL LANDSCAPE AREAS PER SOIL TEST.
3. MATERIALS – SHREDDED HARDWOOD BARK MULCH: ALL PLANTING AREAS LABELED ON PLAN SHALL RECEIVE CERTIFIED WEED FREE SHREDDED HARDWOOD BARK MULCH INSTALLED TO A MINIMUM AND CONSISTENT DEPTH OF 3-INCHES. SHREDDED HARDWOOD BARK MULCH SIZE & COLOR TO BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. FERTILIZER SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, COUNTY AND STATE REQUIREMENTS. SHREDDED HARDWOOD BARK MULCH AREAS SHALL NOT RECEIVE WOVEN WEED BARRIER FABRIC.
4. MATERIALS – TREE & SHRUB RINGS: ALL TREES AND/OR SHRUBS PLANTED IN SEEDED LAWN AREAS TO BE INSTALLED WITH A MINIMUM 4' DIAMETER SHREDDED HARDWOOD BARK MULCH TREE RING SPREAD TO A CONSISTENT DEPTH OF 3-INCHES. ALL TREE RINGS SHOULD BE INSTALLED WITH A 5" DEPTH SHOVEL CUT EDGE, ANGLED 45 DEGREES INTO SOIL AT A 5' DIAMETER ABOUT THE CENTER OF THE TREE PLANTING. A PRE-EMERGENT GRANULAR HERBICIDE WEED-PREVENTER SHOULD BE MIXED WITH MULCH USED TO INSTALL TREE RING AS WELL AS TOPICALLY APPLIED TO COMPLETED INSTALLATION OF TREE RING.
5. MATERIALS – ALUMINUM EDGING: EDGING SHALL BE 1/8" X 4", ALUMINUM EDGING, MILL FINISH. OWNER'S REPRESENTATIVE SHALL APPROVE PRODUCT SPECIFICATION PROVIDED BY LANDSCAPE CONTRACTOR.

SEEDING NOTES

1. MATERIALS – TURFGRASS SEED: DISTURBED LAWN AREAS LABELED ON PLAN AS SUCH, SHALL RECEIVE 6" OF TOPSOIL AND EARTH CARPET'S "MADISON PARKS" GRASS SEED, OR EQUIVALENT AS APPROVED BY THE OWNER'S REPRESENTATIVE, INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. IN ADDITION TO TURFGRASS SEED, ANNUAL RYE SHALL BE APPLIED TO ALL DISTURBED AREAS AT A RATE OF 1 1/2 LBS PER 1000 SQUARE FEET. FERTILIZE AND MULCH PER MANUFACTURER'S RECOMMENDATIONS. MULCH SHALL BE CERTIFIED NOXIOUS WEED SEED-FREE

CONTRACTOR AND OWNER RESPONSIBILITY NOTES

1. GUARANTEE: THE CONTRACTOR SHALL GUARANTEE ALL PLANTS THROUGH ONE (1) YEAR AFTER ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. PLANTS SHALL BE ALIVE AND IN HEALTHY AND FLOURISHING CONDITION AT THE END OF THE GUARANTEE PERIOD. THE CONTRACTOR SHALL REPLACE (AT NO COST TO OWNER) ANY PLANTS THAT ARE DEAD OR NOT IN A VIGOROUS THRIVING CONDITION. REPLACEMENT PLANTS SHALL BE OF THE SAME KIND AND SIZE AS ORIGINALLY SPECIFIED UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE. RESTORE BEDS AS NECESSARY FOLLOWING PLANT REPLACEMENT, INCLUDING BUT NOT LIMITED TO BEDDING, EDGING, MULCH, ETC. REPLACE PLANTS DAMAGED AT TIME OF PLANTING. REPAIR AREAS DISTURBED IN ANY WAY DURING PLANT REPLACEMENT AT NO COST TO OWNER. CONTRACTOR SHALL PROVIDE A ONE (1)-YEAR STRAIGHTENING GUARANTEE FOR ALL TREES.
2. CONTRACTOR IS RESPONSIBLE FOR STAKING THE PLANT MATERIALS FOR REVIEW BY OWNER'S REPRESENTATIVE PRIOR TO DIGGING AND PLACEMENT AND SHALL COORDINATE ALL FINE GRADING AND RESTORATION WITH THE GRADING CONTRACTOR.
3. MAINTENANCE: (CONTRACTOR) FOR ALL PLANTINGS, SEEDED AND/OR SODDED LAWN AREAS: THE CONTRACTOR SHALL MAINTAIN ALL PLANTINGS AND LAWN AREAS FOR A MINIMUM TIME PERIOD OF 60 DAYS, UNTIL FINAL ACCEPTANCE BY OWNER'S REPRESENTATIVE. THE CONTRACTOR IS RESPONSIBLE FOR ADEQUATELY WATERING PLANTS AND LAWN/TURFGRASS DURING THIS 60 DAY ESTABLISHMENT PERIOD. CONTRACTOR IS RESPONSIBLE FOR THE ESTABLISHMENT OF HEALTHY VIGOROUS PLANT MATERIALS AND LAWN/TURFGRASS GROWTH. CONTRACTOR IS ALSO RESPONSIBLE FOR ANY PRUNING OF PLANT MATERIALS, AND SHAPING AND/OR REPLACEMENT OR SUPPLEMENT OF DEFICIENT SHREDDED HARDWOOD BARK MULCH DURING THIS PERIOD. LONG TERM PLANT MATERIALS AND LAWN/TURFGRASS MAINTENANCE AND ANY PROGRAM FOR SUCH IS THE RESPONSIBILITY OF THE OWNER. ALL PLANTINGS AND LAWN/TURFGRASS AREAS SHALL BE MAINTAINED IN A MANICURED CONDITION UNTIL THE TIME WHEN THE OWNER'S ACCEPTANCE IS GIVEN.
4. MAINTENANCE: (OWNER) THE OWNER IS RESPONSIBLE FOR THE CONTINUED MAINTENANCE, REPAIR AND REPLACEMENT OF ALL LANDSCAPING MATERIALS AND WEED BARRIER FABRIC AS NECESSARY FOLLOWING THE ONE (1) YEAR CONTRACTOR GUARANTEE PERIOD.

LANDSCAPE CALCULATIONS AND DISTRIBUTIONS

Required landscaped areas shall be calculated based upon the total developed area of the property. Developed area is defined as that area within a single contiguous boundary which is made up of structures, parking, driveways and docking/loading facilities, but excluding the area of any building footprint at grade, land designated for open space uses such as athletic fields, and undeveloped land area on the same zoning lot. There are three methods for calculating landscape points depending on the size of the lot and Zoning District.

(A) For all lots except those described in (B) and (C) below, five (5) landscape points shall be provided for each three hundred (300) square feet of developed area.

Total square footage of developed area: **80,544 Square Feet**

Total landscape points required: **1,342 Points**

(B) For lots larger than five (5) acres, points shall be provided at five (5) points per three hundred (300) square feet for the first Five (5) developed acres, and one (1) point per one hundred (100) square feet for all additional acres.

Total square footage of developed area: ____

Five (5) acres = ____

First five (5) developed acres = ____

Remainder of developed area: ____

Total landscape points required ____

(C) For the Industrial – Limited (IL) and Industrial – General (IG) districts, one (1) point shall be provided per one hundred (100) square feet of developed area.

Total square footage of developed area: ____

Total landscape points required: ____

TABULATION OF LANDSCAPE CREDITS AND POINTS

			CREDITS / EXISTING LANDSCAPING		NEW / PROPOSED LANDSCAPING	
PLANT TYPE/ELEMENT	MINIMUM INSTALLATION SIZE	POINTS	QUANTITY	POINTS ACHIEVED	QUANTITY	POINTS ACHIEVED
OVERSTORY DECIDUOUS TREE	2.5" CAL MIN.	35	0	0	27	945
TALL EVERGREEN TREE	5-6' TALL MIN.	35	0	0	0	0
ORNAMENTAL TREE	1.5" CAL MIN.	15	0	0	13	195
UPRIGHT EVERGREEN SHRUB	3-4' TALL, MIN.	10	0	0	4	40
SHRUB, DECIDUOUS	#3 CONT., MIN. 12"-24"	3	0	0	254	762
SHRUB, EVERGREEN	#3 CONT., MIN. 12"-24"	4	0	0	161	644
ORNAMENTAL GRASS & PERENNIAL	#1 CONT., MIN. 8"-18"	2	0	0	1189	2378
ORNAMENTAL / DECORATIVE FENCING OR WALL	4 POINTS / 10 LF	.4	0	0	0	0
EXISTING SIGNIFICANT SPECIMAN TREE	14 POINTS / CAL. (MAXIMUM 200 POINTS PER TREE)	14	0	0	0	0
LANDSCAPE FURNITURE	5 POINTS PER SEAT (WITHIN PUBLICALLY ACCESSIBLE DEVELOPED AREA. CANNOT COMPRISE MORE THAN 5% OF TOTAL REQUIRED POINTS)	5	0	0	0	0
		SUBTOTAL		**0**		**4,964**
		TOTAL NUMBER OF POINTS PROVIDED	**4,964**			

GRAEF
1010 East Wisconsin Avenue,
Suite 202
Madison, WI 53703
608 / 242 1550
www.graef-usa.com

CONSULTANTS:
JSD

CLIENT:
Community Development Authority of the City of Madison
CDA
Madison Municipal Building
215 Martin Luther King Jr Blvd
Suite 161
Madison, WI 53703

PROJECT TITLE:
VILLAGE ON PARK PARKING STRUCTURE AND SITE IMPROVEMENTS
808 HUGHES PLACE
MADISON, WI 53713

ISSUE:
07/28/2023 BID DOCUMENTS

PROJECT INFORMATION:
PROJECT NUMBER: 20225013.00
DATE: 07/28/2023
DRAWN BY: MRA
CHECKED BY: KJY
APPROVED BY: KJY
AS NOTED

SHEET TITLE:
LANDSCAPE DETAILS & NOTES

SHEET NUMBER:
L200

DESIGN SPECIFICATIONS

1. DESIGN IS IN ACCORDANCE WITH THE STATE OF WISCONSIN AND THE 2015 INTERNATIONAL BUILDING CODE.

2. MINIMUM 28 DAY CONCRETE CYLINDER STRENGTH SHALL BE:

FOOTINGS	4000 PSI
PIERS	4000 PSI
GRADE BEAMS	4000 PSI
FOUNDATION WALLS	4000 PSI
SLABS ON GRADE	4000 PSI
COLUMNS	5000 PSI
STRUCTURAL SLAB SYSTEMS	6000 PSI

1. REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60.

2. POST-TENSIONING STEEL SHALL CONFORM TO ASTM A416.

3. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 TYPE II NORMAL WEIGHT UNITS .

4. CONCRETE MASONRY BRICK SHALL CONFORM TO ASTM C55 GRADE SW

5. MORTAR SHALL CONFORM TO ASTM C270.

6. MASONRY GROUT SHALL CONFORM TO ASTM C476. MINIMUM COMPRESSIVE STRENGTH SHALL BE f'_g = 3000 PSI.

7. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY CONSTRUCTION SHALL BE f'_m = 2500 PSI.

8. STRUCTURAL STEEL W-SHAPES SHALL CONFORM TO ASTM A992 GRADE 50.

9. STRUCTURAL STEEL PLATES, ANGLES, CHANNELS, AND OTHER ROLLED MEMBERS SHALL CONFORM TO ASTM A36.

10. RECTANGULAR OR SQUARE HSS MEMBERS SHALL CONFORM TO ASTM A500 GRADE B.

11. ROUND HSS MEMBERS SHALL CONFORM TO ASTM A500 GRADE B.

12. STEEL PIPE SHALL CONFORM TO ASTM A53 GRADE B.

13. ASSUMED BEARING CAPACITY FOR SPREAD FOOTINGS IS 5000 PSF UNLESS NOTED OTHERWISE, BASED UPON INSTALLATION OF RAMMED AGGREGATE PIERS AS DESIGNED BY RAMMED AGGREGATE PIER INSTALLED.

DESIGN LOADS: (PARKING GARAGE)

FLOOR LIVE LOADS

GARAGES	40 PSF
STAIRS AND EXIT WAYS	100 PSF
LOBBIES	100 PSF
MECHANICAL ROOMS	50 PSF

ROOF LIVE LOAD

MINIMUM ROOF LIVE LOAD	20 PSF

LIVE LOAD REDUCTION
LIVE LOAD REDUCTION PER IBC 2015 SECTION 1607.10 IS INCLUDED.

ROOF SNOW LOAD (ASCE 7-10)

RISK CATEGORY	II
IMPORTANCE FACTOR	I_s = 1.0
GROUND SNOW LOAD	P_g = 30 PSF
FLAT ROOF SNOW LOAD	P_f = 25.2 PSF
EXPOSURE FACTOR	C_e = 1.0
THERMAL FACTOR	C_t = 1.2

REFER TO PLAN SHEETS FOR SNOW DRIFT SURCHARGE LOADS (P_D) AND WIDTHS OF SNOW DRIFTS (w)

ROOF RAIN LOAD
BUILDING HAS BEEN DESIGNED FOR RAIN LOADS PER IBC 2015 SECTION 1611.

WIND LOAD (ASCE 7-10)

RISK CATEGORY	II
ULTIMATE WIND SPEED	V_{ult} = 115 MPH
NOMINAL WIND SPEED	V_{asd} = 90 MPH
EXPOSURE	C
INTERNAL PRESSURE COEFFICIENT	GC_{pi} = +/- 0.55
COMPONENTS AND CLADDING	REFER TO TABLE THIS SHEET

SEISMIC LOAD (IBC 2015)

RISK CATEGORY	II
IMPORTANCE FACTOR	I_e = 1.0
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS	S_S = 0.085 g S_1 = 0.046 g
DESIGN SPECTRAL RESONSE ACCELERATION	S_{DS} = 0.091 g
SEISMIC RESPONSE COEFFICIENT	C_S = 0.01
RESPONSE MODIFICATION FACTOR	R = 3
SITE CLASS	D
SEISMIC DESIGN CATEGORY	A
SEISMIC FORCE-RESISTING SYSTEM	ORDINARY REINFORCED CONCRETE MOMENT FRAMES
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDCURE
DESIGN BASE SHEAR	150 KIPS (N-S/E-W)

DESIGN LOADS: (EXISTING GROCERY)

ROOF LIVE LOAD

MINIMUM ROOF LIVE LOAD	20 PSF

ROOF SNOW LOAD (ASCE 7-10)

RISK CATEGORY	II
IMPORTANCE FACTOR	I_s = 1.0
GROUND SNOW LOAD	P_g = 30 PSF
FLAT ROOF SNOW LOAD	P_f = 25.2 PSF
EXPOSURE FACTOR	C_e = 1.0
THERMAL FACTOR	C_t = 1.0

REFER TO PLAN SHEETS FOR SNOW DRIFT SURCHARGE LOADS (P_D) AND WIDTHS OF SNOW DRIFTS (w)

ROOF RAIN LOAD
BUILDING HAS BEEN DESIGNED FOR RAIN LOADS PER IBC 2015 SECTION 1611.

WIND LOAD (ASCE 7-10)

RISK CATEGORY	II
ULTIMATE WIND SPEED	V_{ult} = 115 MPH
NOMINAL WIND SPEED	V_{asd} = 90 MPH
EXPOSURE	C
INTERNAL PRESSURE COEFFICIENT	GC_{pi} = +/- 0.18
COMPONENTS AND CLADDING	REFER TO TABLE THIS SHEET

14. RESISTANCE TO LATERAL LOADS ON STRUCTURE IS PROVIDED BY FLOOR DIAPHRAGMS. CONTRACTOR SHALL PROVIDE SUFFICIENT TEMPORARY BRACING UNTIL ALL LATERAL SUPPORT SYSTEMS ARE IN PLACE AND FUNCTIONAL.

15. ALL STRUCTURAL FRAMING AND CONNECTIONS HAVE BEEN DESIGNED FOR THE FINAL COMPLETED CONDITION AND HAVE NOT BEEN INVESTIGATED FOR POTENTIAL LOADINGS ENCOUNTERED DURING ERECTION AND CONSTRUCTION. ANY INVESTIGATION OF THE STRUCTURAL FRAMING AND CONNECTIONS FOR ADEQUACY DURING THE ERECTION AND CONSTRUCTION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR.

16. CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION AND JOB SITE SAFETY.

GENERAL NOTES

EARTHWORK

1. FOOTINGS SHALL BE CAST ON UNDISTURBED SUBSOIL. IF DESIGN CAPACITY IS NOT ENCOUNTERED AT THE ELEVATIONS SHOWN, FOOTINGS MUST BE LOWERED. CONSULT ENGINEER BEFORE PROCEEDING.
2. NO HOLES, TRENCHES OR DISTURBANCES OF THE SOIL SHALL BE ALLOWED WITHIN THE VOLUME DESCRIBED BY 45 DEGREE LINES SLOPING FROM THE BOTTOM EDGE OF THE FOOTING. IF SUCH ARE REQUIRED, FOOTINGS MUST BE LOWERED.
3. BACKFILL EVENLY ON EACH SIDE OF FOUNDATION WALLS AND RETAINING WALLS.
4. DO NOT BACKFILL AGAINST BASEMENT WALLS UNTIL FLOOR SYSTEM IS IN PLACE AND FASTENED OR UNTIL WALLS ARE ADEQUATELY BRACED. BRACING SHALL BE DESIGNED BY THE CONTRACTOR.
5. TOPSOIL AND FILL BELOW SLABS ON GROUND SHALL BE REMOVED. AGGREGATE BASE COURSE UNDER SLABS ON GROUND SHALL BE AS SPECIFIED (EXCEPT WHERE LOOSE FILL IS INDICATED ON DRAWINGS).
6. BACKFILL AGAINST INTERIOR FOUNDATION WALLS SHALL BE AS SPECIFIED COMPACTED TO MAXIMUM 6-INCH LAYERS.
7. BACKFILL AGAINST EXTERIOR FOUNDATION WALLS SHALL BE AS SPECIFIED COMPACTED TO MAXIMUM 6-INCH LAYERS.
8. PROVIDE MINIMUM 24 INCHES OF FREE DRAINING AGGREGATE OVER ALL DRAIN TILES AND 4 INCHES BELOW.

CONCRETE

1. FORMWORK SHALL BE DESIGNED IN ACCORDANCE WITH THE ACI "MANUAL OF CONCRETE PRACTICE", LATEST EDITION.
2. REINFORCING STEEL SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH THE ACI "MANUAL OF CONCRETE PRACTICE", LATEST EDITION, UNLESS OTHERWISE NOTED.
3. LAP ALL WALL BARS 30 DIAMETERS WITH CLASS B SPLICES UNLESS OTHERWISE DETAILED. LAP WELDED WIRE MESH 6 INCHES.
4. PROVIDE COLUMN AND WALL DOWELS OF THE SAME SIZE AND NUMBER AS THE RESPECTIVE COLUMN AND WALL REINFORCING UNLESS OTHERWISE DETAILED.
5. PROVIDE TWO #4 BARS AS STIRRUP CARRY BARS WHERE NO TOP STEEL IS AVAILABLE TO HOLD STIRRUPS.
6. WHEREVER AN APPROVED PIPE OR CONDUIT EXTENDS THROUGH A BEAM, PROVIDE ONE ADDITIONAL STIRRUP ON EACH SIDE OF THE OPENING.
7. CONCRETE PROTECTION FOR REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", ACI 318-14.
8. SLABS ON GRADE SHALL BE CAST ALLOWING A SUFFICIENT NUMBER OF JOINTS TO ADEQUATELY CONTROL SHRINKAGE CRACKING. SAWCUTTING SHALL BE DONE AS SOON AS SAWCUT WILL NOT RAVEL CONCRETE OR WITHIN 24 HOURS MAXIMUM OF INITIAL POURING OPERATION. MAXIMUM SIZE OF PANELS SHALL BE 15 FEET BY 15 FEET FOR 5-INCH SLAB ON GRADE. GENERALLY, JOINTS SHALL OCCUR ON COLUMN CENTERLINES.
9. SLABS ON GRADE SHALL BE 5 INCHES THICK AND REINFORCED AS SHOWN ON THE DRAWINGS.
10. ALLOW AT LEAST 24 HOURS BEFORE POURING ADJACENT WALL SECTIONS BETWEEN CONSTRUCTION JOINTS. MAXIMUM LENGTH OF POUR TO BE 40 FEET, UNLESS CRACK INDUCERS ARE USED AS DETAILED ON THE DRAWINGS.
11. CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 24 HOURS PRIOR TO PLACING CONCRETE.
12. CONCRETE SLABS ON METAL DECK SHALL BE POURED TO A CONSTANT THICKNESS.
13. CONSTRUCTION JOINTS IN BEAMS, JOISTS OR SLABS TO BE LOCATED BETWEEN THE 1/4 POINT AND CENTERLINE OF SPAN, OR AS DIRECTED BY THE ENGINEER.
14. DO NOT PLACE OR CUT HOLES IN CONCRETE SLABS, BEAMS, WALLS OR COLUMNS WITHOUT PRIOR APPROVAL OF THE ENGINEER.
15. EXTERIOR EXPOSED CONCRETE SHALL BE AIR-ENTRAINED. AIR CONTENT SHALL BE 6 PERCENT (+/-1 1/2 PERCENT).
16. CAMBER CONCRETE MEMBERS FOR DEAD LOAD DEFLECTION BY ADJUSTING FORMS.
17. PIPES AND CONDUITS EMBEDDED IN OR PASSING THROUGH STRUCTURAL MEMBERS MUST BE APPROVED BY THE STRUCTURAL ENGINEER. PIPE AND CONDUITS EMBEDDED IN CONCRETE SHALL NOT BE LARGER THAN 2 INCHES IN OUTSIDE DIAMETER AT THEIR WIDEST POINT OR FITTING OR 1/3 OF THE THICKNESS OF THE SLAB, BEAM OR WALL.
18. ELECTRICAL CONDUIT OR PIPES EMBEDDED IN OR PASSING THROUGH SLABS, BEAMS OR WALLS SHALL BE LOCATED AND PLACED SO THAT:
    1. THEY ARE NOT CLOSER THAN THREE DIAMETERS ON CENTER.
    2. THE CONCRETE COVER IS NOT LESS THAN 2 INCHES.
    3. THEY RUN BETWEEN REINFORCING AND DO NOT DISPLACE IT IN ANY MANNER.
19. ALUMINUM CONDUITS SHALL NOT BE PLACED IN CONCRETE.
20. CHAMFER ALL EXPOSED CONCRETE CORNERS. SEE ARCHITECTURAL/STRUCTURAL DRAWINGS FOR REQUIREMENTS.
21. CONCRETE SHALL BE TESTED BY THE OWNER'S TESTING LAB. REFER TO SPECIFICATIONS FOR REQUIREMENTS.
22. PROPER CURING PROCEDURES SHALL BE USED FOR SLAB ON GRADE TO PREVENT CURLING.
23. CALCIUM CHLORIDE SHALL NOT BE USED IN CONCRETE MIXES.
24. PROVIDE WATERSTOPS AT ALL CONSTRUCTION JOINTS BELOW THE WATER TABLE AND AS SHOWN ON DRAWINGS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
25. CONCRETE COVER REQUIREMENTS FOR MILD REINFORCEMENT (MINIMUM)

COMPONENT	REQUIRED COVER
FOOTINGS	3"
BEAMS (BOTTOM)	1 1/2"
BEAMS (TOP)	2"
SLABS (BOTTOM)	1"
SLABS (TOP)	2"
WALLS (EXTERIOR FACE)	2"
COLUMN TIES	2"

CONCRETE MASONRY

1. PRODUCTION AND CONSTRUCTION OF CONCRETE MASONRY SHALL BE IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", ACI 530-13, AND THE NCMA "TEK MANUAL FOR CONCRETE MASONRY DESIGN AND CONSTRUCTION", LATEST EDITION.
2. HOT AND COLD WEATHER CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE IMIAC (INTERNATIONAL MASONRY INDUSTRY ALL-WEATHER COUNCIL) "RECOMMENDED PRACTICES AND GUIDE SPECIFICATIONS FOR HOT AND COLD WEATHER MASONRY AND CONSTRUCTION".
3. CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED.
4. MASONRY WALLS SHALL BE ADEQUATELY BRACED TO RESIST WIND FORCES UNTIL PERMANENT DESIGN SUPPORTS ARE IN PLACE AND FUNCTIONAL. BRACING SHALL BE DESIGNED BY THE CONTRACTOR.
5. PROVIDE DOWELS INTO FOUNDATION THE SAME SIZE AND NUMBER AS WALL REINFORCING.
6. LAP REINFORCING BARS 48 DIAMETERS.
7. CONCRETE MASONRY WALLS SHALL BE REINFORCED AT EVERY OTHER BED JOINT WITH 9 GAGE LADDER TYPE JOINT REINFORCEMENT.
8. VERTICAL BARS SHOWN ON THE DESIGN DRAWINGS SHALL BE PLACED IN A CONTINUOUS UNOBSTRUCTED CELL OF NOT LESS THAN 3 INCHES BY 4 INCHES.
9. ALL BOND BEAMS AND PILASTERS SHALL BE REINFORCED AS SHOWN ON THE DESIGN DRAWINGS AND FILLED WITH GROUT.
10. ALL DOOR AND WINDOW JAMBS SHALL BE GROUTED SOLID 8 INCHES WIDE UNLESS SHOWN OTHERWISE.
11. WHERE NOT SHOWN OTHERWISE, MINIMUM SOLID GROUTED MASONRY BELOW BEAM REACTIONS SHALL BE 16 INCHES DEEP BY 32 INCHES LONG.
12. WHERE NOT SHOWN OTHERWISE, MINIMUM SOLID GROUTED MASONRY BELOW LINTEL REACTIONS SHALL BE 16 INCHES DEEP BY 16 INCHES LONG.

PRECAST CONCRETE

1. PRECAST CONCRETE MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", ACI 318-14.
2. PRECAST CONCRETE SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE ACI "MANUAL OF CONCRETE PRACTICE", LATEST EDITION, AND THE AFOREMENTIONED CONCRETE PROVISIONS.
3. PRECAST CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DESIGN AND REINFORCING OF PRECAST CONCRETE FOR HANDLING AND ERECTION STRESSES.
4. PRECAST MEMBERS SHALL BE ATTACHED AND SUPPORTED BY THE STRUCTURE AS INDICATED ON THE DRAWINGS.
5. PRECAST MEMBERS SHALL BE DESIGNED AND REINFORCED FOR SELF-WEIGHT AND ALL SUPERIMPOSED LOADS SHOWN ON THE DRAWINGS.
6. PRECAST MEMBERS SHALL BE CAPABLE OF SAFELY SUPPORTING ANY CONCENTRATED LOADS INDICATED BY THE STRUCTURAL, MECHANICAL, AND ARCHITECTURAL DRAWINGS.
7. PRECAST CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS (HANGERS, CLIPS, PLATES, HEADERS, ANCHORAGES, ETC.) WHICH MUST BE PRECAST INTO THE CONCRETE UNLESS OTHERWISE NOTED OR REQUIRED FOR CONNECTION OF PRECAST TO STRUCTURE.
8. CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL HOLES OR OPENINGS WITH RESPECTIVE TRADES BEFORE FABRICATION. ANY DEVIATION FROM THESE LOCATIONS OR ADDITIONAL OPENINGS MUST BE APPROVED BY THE FABRICATOR.
9. GROUT IN PRECAST MEMBER KEYWAYS SHALL BE SAND-CEMENT GROUT. MINIMUM COMPRESSIVE STRENGTH SHALL BE 2500 PSI.
10. FIRE RATING OF PRECAST WALL PANELS SHALL BE 2 HOUR.
11. WALL PANEL JOINTS SHALL BE FILLED WITH APPROVED FIRE STOP MATERIAL AND POLYURETHANE JOINT SEALANT.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE AISC "STEEL CONSTRUCTION MANUAL", FOURTEENTH EDITION, AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", APRIL 14, 2010 EDITION.
2. WHERE INDICATED ON DRAWINGS, STRUCTURAL AND MISCELLANEOUS STEEL WHICH SHALL REMAIN EXPOSED TO VIEW SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR ARCHITECTURALLY EXPOSED STRUCTURAL STEEL", LATEST EDITION, WITHOUT GAPS OR OPEN JOINTS.
3. STEEL JOIST FABRICATION AND ERECTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE. JOISTS SHALL BE MANUFACTURED WITH HOT-ROLLED TOP AND BOTTOM CHORD MEMBERS.
4. STEEL DECK FABRICATION AND ERECTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE STEEL DECK INSTITUTE.
5. ALL WELDING SHALL COMPLY WITH AWS D1.1 USING E70XX ELECTRODES. ALL WELDING TO BE DONE BY AWS PREQUALIFIED WELDERS, CERTIFIED FOR WELDS MADE. PROVIDE CONTINUOUS MINIMUM SIZED WELDS PER AISC REQUIREMENTS, UNLESS NOTED OTHERWISE.
6. THE MINIMUM SIZE OF FILLET WELDS SHALL BE AS SPECIFIED IN TABLE J2.4 IN THE AISC "STEEL CONSTRUCTION MANUAL".
7. MINIMUM STRENGTH OF WELDED CONNECTIONS: UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL SHOP AND FIELD WELDS SHALL DEVELOP THE FULL TENSILE STRENGTH OF THE MEMBER OF ELEMENT JOINED. ALL MEMBERS WITH MOMENT CONNECTIONS, NOTED ON THE DRAWINGS, SHALL BE WELDED TO DEVELOP THE FULL FLEXURAL CAPACITY OF THE MEMBER, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
8. BOLTED CONNECTIONS SHALL BE MADE WITH ASTM A325 HIGH STRENGTH BOLTS (MINIMUM 3/4-INCH DIAMETER).

   BEAM-TO-COLUMN CONNECTIONS SHALL BE MADE WITH DOUBLE ANGLES UNLESS OTHERWISE DETAILED.
9. MINIMUM NUMBER OF BOLTS FOR END SHEAR REACTIONS ARE AS FOLLOWS:
   1. W8, W10 OR W12: 2   3. W21 OR W24: 4   5. W33, W36 OR W40: 6
   2. W14, W16 OR W18: 3   4. W27 OR W30: 5   6. W44: 7
10. BEAMS AND JOISTS SHALL BE EQUALLY SPACED IN A BAY UNLESS NOTED OTHERWISE ON PLAN.
11. ALL STRUTS, HANGERS, AND BRACES SHALL HAVE CONNECTIONS DESIGNED TO DEVELOP THE FULL ALLOWABLE TENSILE STRENGTH OF THE MEMBER UNLESS THE DESIGN FORCE IS INDICATED ON THE DRAWINGS, IN WHICH CASE THE CONNECTIONS SHALL BE DESIGNED FOR THE FORCE INDICATED.
12. COLUMN BASE PLATES SHALL HAVE OVERSIZED HOLES WITH PLATE WASHERS (MINIMUM 3/8-INCH THICK) PROVIDED WITH ANCHOR RODS.
13. GROUT UNDER BASE PLATES IN ACCORDANCE WITH THE "AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", APRIL 14, 2010 EDITION.
14. WHERE BEAMS SUPPORT JOISTS FROM ONLY ONE SIDE, JOIST SEAT SHALL EXTEND 1-INCH BEYOND BEAM CENTERLINE.
15. JOISTS SHALL BE DESIGNED FOR NET UPLIFT SHOWN ON THE "WIND PROVISIONS FOR COMPONENTS AND CLADDING TABLE" THIS SHEET. JOIST SUPPLIER SHALL PROVIDE ALL ADDITIONAL BRIDGING AND BRACING AS REQUIRED BY THE STEEL JOIST INSTITUTE.
16. ALL JOISTS ADJACENT AND RUNNING PARALLEL TO BEAMS SHALL BE SUPPLIED WITH ONE HALF OF STANDARD CAMBER.
17. STEEL ROOF DECK SHALL BE WIDE RIB 1 1/2-INCH DEEP AND 18 GAGE THICKNESS UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
18. DECK END LAPS SHALL BE 2-INCH MINIMUM AND SHALL OCCUR AT SUPPORTS. LOCATE AT VALLEYS AND RIDGES.
19. WHERE CONTINUOUS DIAPHRAGM CHORD ANGLES ARE INDICATED, PROVIDE A FULL PENETRATION WELD AT THE SPLICE LOCATIONS.
20. CLEAN, PREPARE, AND SHOP PRIME EXTERIOR EXPOSED STRUCTURAL STEEL MEMBERS IN ACCORDANCE WITH SSPC STANDARDS SP-1 AND SP-6.
21. CLEAN, PREPARE, AND SHOP PRIME INTERIOR EXPOSED STRUCTURAL STEEL MEMBERS IN ACCORDANCE WITH SSPC STANDARDS SP-1 AND SP-3.
22. WHILE THE DESIGN DOCUMENTS MAY REFERENCE OSHA, THEY ARE NOT INTENDED TO SPECIFICALLY IDENTIFY ALL APPLICABLE OSHA REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND COMPLY WITH ALL APPLICABLE OSHA REQUIREMENTS.
23. ALL STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE WEATHER, INCLUDING MASONRY SHELF ANGLES, SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123, UNLESS OTHERWISE NOTED.
24. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL MISCELLANEOUS STEEL.

COLD-FORMED STEEL FRAMING

1. DESIGN, FABRICATION, AND ERECTION OF COLD-FORMED STEEL FRAMING SHALL BE IN ACCORDANCE WITH THE AISI "COLD-FORMED STEEL DESIGN MANUAL", LATEST EDITION. ALL FRAMING MEMBERS SHOWN ON PLANS ARE SCHEMATIC AND ARE SHOWN FOR INTENT ONLY. DESIGN AND CALCULATIONS WILL BE REVIEWED BY GRAEF.
2. STEEL STUD CURTAIN WALL AND CONNECTIONS TO BE DESIGNED BY SUPPLIER. STEEL STUD CURTAIN WALL AND CONNECTION DESIGN SHALL BE SEALED BY PROFESSIONAL ENGINEER EXPERIENCED IN THIS WORK AND REGISTERED IN THE STATE OF WISCONSIN.
3. LIVE LOAD DEFLECTION CRITERIA FOR COMPONENTS SHALL BE AS FOLLOWS:

   EXTERIOR WALL STUDS   L/240 NOT TO EXCEED 1-INCH AT METAL PANELS
   L/600 FOR BRICK VENEER
4. MINIMUM DESIGN THICKNESS OF STUDS AND TRACK AT EXTERIOR OF BUILDING SHALL BE 18 GAGE.
5. LOAD BEARING STUDS SHALL BE DESIGNED TO CARRY ALL GRAVITY LOADS AND LATERAL FORCES INCLUDING BUT NOT LIMITED TO DEAD LOADS, LIVE LOADS, WIND LOADS, AND AXIAL LOAD ECCENTRICITY.
6. NON-LOAD BEARING STUDS SHALL TRANSFER LATERAL LOADS TO STRUCTURE BY MEANS OF SLIDE CLIPS TO ALLOW FOR VERTICAL MOVEMENT OF PRIMARY STRUCTURAL MEMBERS.
7. SPLICES IN AXIALLY LOADED STUDS ARE NOT PERMITTED.
8. STUDS, TRACK, AND ACCESSORIES SHALL BE GALVANIZED WITH A MINIMUM G90 COATING PER ASTM A653.
9. STUDS SHALL BE PLUMBED, ALIGNED, AND SECURELY ATTACHED TO FLANGES OR WEBS OF LOWER TRACK. STUDS SHALL BE SEATED TIGHT TO TRACK WEBS PRIOR TO ATTACHMENT.
10. JOISTS SHALL BE LOCATED DIRECTLY OVER BEARING STUDS OR A LOAD DISTRIBUTION MEMBER SHALL BE PROVIDED AT THE TOP OF THE WALL.
11. REFER TO ARCHITECTURAL WALL SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION.
12. ALL MEMBERS 0.0566-INCH MINIMUM THICKNESS OR THICKER (16 GAGE OR LOWER) SHALL BE OF MINIMUM 50 KSI STEEL. ALL MEMBERS OF 0.0451-INCH MINIMUM THICKNESS OR THINNER (18 GAGE OR HIGHER) AND ALL ACCESSORIES SHALL BE OF MINIMUM 33 KSI STEEL.
13. STEEL STUD ERECTOR SHALL CONSTRUCT ALL LIGHTGAGE FRAMING IN A MANNER WHICH PROTECTS LATERAL STABILITY OF THE STRUCTURE.
14. ALL WELDS PERFORMED ON GALVANIZED LIGHTGAGE COMPONENTS SHALL BE COATED WITH ZINC RICH PAINT FOR CORROSION PROTECTION IN ACCORDANCE WITH ASTM A780. CONTRACTOR SHALL NOTIFY THE ENGINEER TO ALLOW ADEQUATE TIME FOR WELDS TO BE REVIEWED BEFORE SYSTEMS ARE ENCLOSED.
15. STEEL STUD WALLS SHALL BE DESIGNED AND CONSTRUCTED TO PROVIDE REQUIRED CAPACITIES TO CARRY CONSTRUCTION LOADS. CONTRACTOR SHALL PROVIDE NECESSARY BRIDGING OR ATTACHMENT TO WALL SHEATHING BEFORE STRUCTURAL COMPONENTS ARE LOADED.

MISCELLANEOUS

1. DIMENSIONS OF EXISTING CONSTRUCTION OR CONSTRUCTION IN PROGRESS SHALL BE VERIFIED AND COORDINATED PRIOR TO FABRICATION OF STRUCTURAL COMPONENTS.
2. VERIFY AND COORDINATE, WITH ALL CONTRACTORS, THE LOCATION OF ALL ARCHITECTURAL AND MECHANICAL APPURTENANCES AND OPENINGS.
3. PROTECTION TO BE PROVIDED AT ALL PIPE LOCATIONS PER TYPICAL DETAIL ON SHEET S521.
4. REFER TO PLUMBING DRAWINGS FOR ROOF DRAIN LOCATIONS.
5. EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT TZ.
6. ADHESIVE ANCHORS SHALL BE HILTI HIT-HY 200.
7. SLEEVE ANCHORS SHALL BE HILTI HLC.
8. SCREW ANCHORS SHALL BE HILTI KWIK HUS.
9. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR THE FOLLOWING ITEMS PRIOR TO FABRICATION: CONCRETE REINFORCING, POST-TENSIONING, STRUCTURAL STEEL.

POST-TENSIONING

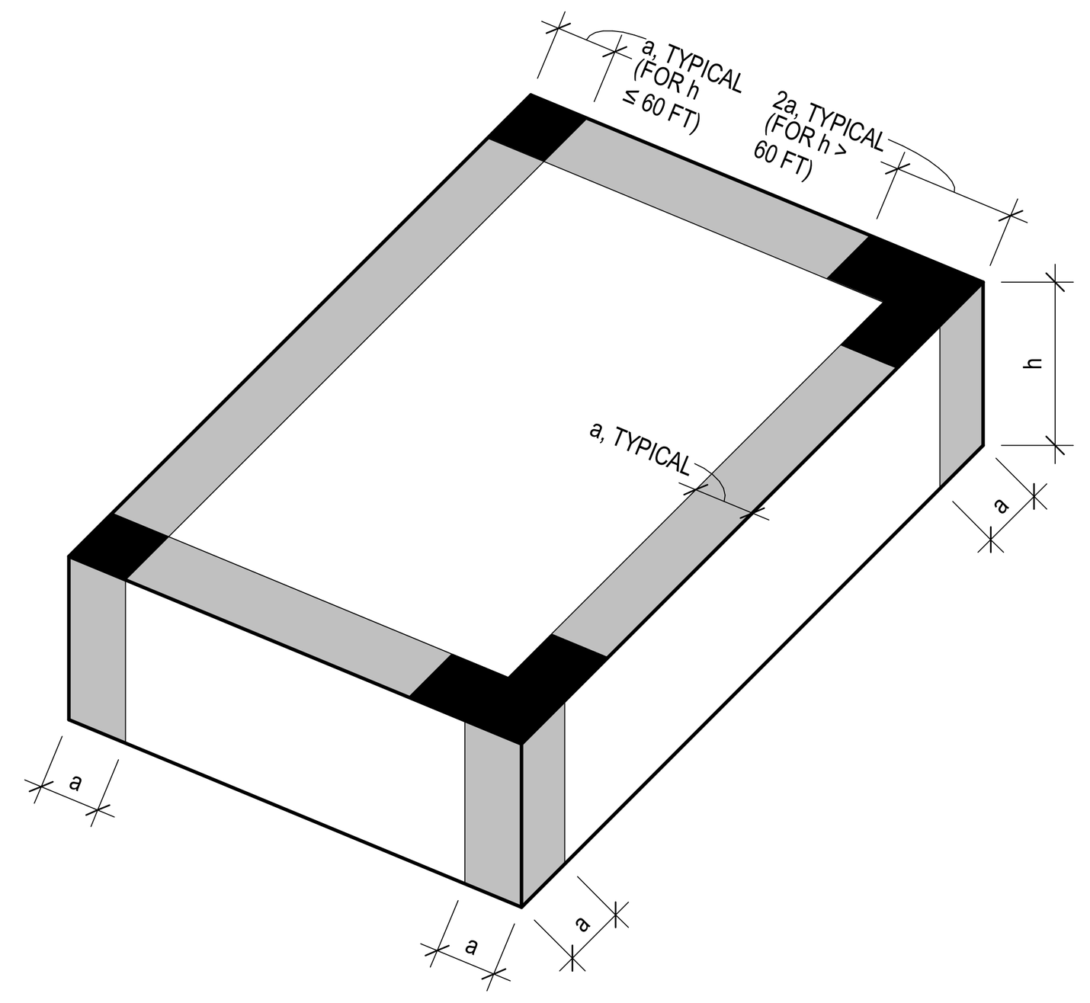
1. POST-TENSIONING CABLES SHALL BE LOW RELAXATION 7-WIRE STRAND WITH ULTIMATE TENSILE CAPACITY OF 270 KSI.
2. ACTUAL LOSSES SHALL BE COMPUTED BY TENDON SUPPLIER AND FURNISHED TO THE ENGINEER FOR RECORD PURPOSES ONLY.
3. DEAD STRESSING ENDS IN A SLAB SHALL BE ANCHORED AT MID-DEPTH.
4. TENDONS SHALL BE DRAPED ON A PARABOLIC PROFILE WITH LOW POINTS AND HIGH POINTS AS DETAILED ON THE DRAWINGS. TENDON PLACEMENT SHALL NOT VARY VERTICALLY BY MORE THAN 1/8-INCH.
5. PARTIAL STRANDS NEEDED IN ADDITION TO FULL LENGTH STRANDS SHALL BE ANCHORED AT THE 1/4 POINT OF THE ADJACENT SPAN.
6. PROVIDE MINIMUM OF TWO #4 BARS BEHIND ALL POST-TENSIONING ANCHORAGES. BARS SHALL BE CONTINUOUS FOR SLABS AND AS DETAILED FOR BEAMS.
7. A MINIMUM OF THREE 1/2-INCH DIAMETER OR TWO 0.6-INCH DIAMETER CABLES SHALL PASS THROUGH ALL COLUMNS IN EACH DIRECTION FOR SLAB SYSTEM CONSTRUCTION.
8. ALL ANCHORAGE HARDWARE SHALL MEET THE REQUIREMENTS OF PCI AND ACI. ANCHORS SHALL BE DESIGNED FOR 3750 PSI CONCRETE STRENGTH. SUBMIT ALL CALCULATIONS TO THE ENGINEER.
9. THE GENERAL CONTRACTOR SHALL COORDINATE THE FINAL LOCATIONS OF CONSTRUCTION JOINTS WITH THE POST-TENSIONING SUPPLIER AND TO SUBMIT POURING AND STRESSING SEQUENCE TO THE ENGINEER DURING POST-TENSIONING SHOP DRAWING SUBMITTALS.
10. MAXIMUM LENGTH OF TENDONS WHICH CAN BE PULLED FROM ONE END TO BE 125 FEET. JACKING FROM BOTH ENDS SHALL BE PERFORMED WHEN THERE IS EXCESSIVE FRICTIONAL LOSS ANTICIPATED. POST-TENSIONING SUPPLIER TO SUBMIT ALL CALCULATIONS SHOWING POST TENSION LOSSES TO THE ENGINEER.
11. INSERTS AND FASTENING DEVICES DUE TO OTHER WORK: INSERTS MAY BE USED ONLY IN AREAS WHERE THERE WILL BE NO INTERFERENCE WITH POST-TENSIONING TENDONS AND/ OR ANCHORAGES. IN NO CASE MAY EMBEDDED ITEMS BE ATTACHED TO POST-TENSIONING STEEL, AND CARE SHALL BE TAKEN SO AS NOT TO HAVE THE TENDONS OUT OF THERE DESIGNED POSITIONS. POWDER-DRIVEN OR DRILLED-IN INSERTS WILL NOT BE PERMITTED, UNLESS OTHERWISE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. AT A MINIMUM, POST TENSIONING TENDONS NEED TO BE LOCATED PRIOR TO DRILLING IN POST-TENSIONED CONCRETE SLABS, BEAMS, OR GIRDERS.

    CONCRETE COVER REQUIREMENTS FOR POST-TENSIONED TENDONS

COMPONENT	REQUIRED COVER
UNRESTRAINED SLABS (BOTTOM)	1 1/2"
UNRESTRAINED SLABS (TOP)	2"

12. ALL TENDONS TO BE ENCAPSULATED PER ACI 362 AND PTI SPECIFICATIONS.

WIND PROVISIONS FOR COMPONENTS AND CLADDING



FLAT ROOF BUILDING
a = 21'-6"

= **INTERIOR ZONE** ROOF = ZONE 1 WALLS = ZONE 4
= **END ZONE** ROOF = ZONE 2 WALLS = ZONE 5
= **CORNER ZONE** ROOF = ZONE 3

DESIGN WIND PRESSURE, PSF								
	EFFECTIVE WIND AREA, SF							
ZONE	1	10	20	50	100	200	> 500	DESCRIPTION
1	53	53	53	53	53	53	53	ROOF INTERIOR ZONE
2	59.4	59.4	58.5	57.2	56.2	56.2	56.2	END ZONE REGION OF THE ROOF
3	75.5	75.5	69.7	62	56.2	56.2	56.2	CORNER ZONE REGION OF THE ROOF
4 (+)	46.6	46.6	45.1	43	41.5	40	37.9	WALL INTERIOR ZONE
4 (-)	-49.5	-49.5	-47.9	-45.9	-44.4	-42.8	-40.8	
5 (+)	46.6	46.6	45.1	43	41.5	40	37.9	END ZONE REGION OF THE WALL
5 (-)	-58.2	-58.2	-55.5	-51	-47.9	-44.9	-44.8	

NOTES:

1. NEGATIVE WIND PRESSURES ACT AWAY FROM COMPONENT SURFACE. POSITIVE WIND PRESSURES ACT TOWARD COMPONENT SURFACES.

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CONSULTANTS:

CLIENT:

Community Development Authority of the City of Madison

CDA

Madison Municipal Building
215 Martin Luther King Jr Blvd
Suite 161
Madison, WI 53703

PROJECT TITLE:

VILLAGE ON PARK PARKING STRUCTURE AND SITE IMPROVEMENTS

808 HUGHES PLACE
MADISON, WI 53713

ISSUE:

07/28/2023 BID DOCUMENTS

PROJECT INFORMATION:

PROJECT NUMBER:	20225013.00
DATE:	07/28/2023
DRAWN BY:	JL
CHECKED BY:	AMG
APPROVED BY:	DFW
SCALE:	AS NOTED

SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:

S001

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SYMBOL LEGEND

LINE

- BEYOND
- CENTER, GRID
- DEMOLITION
- EXISTING (HALFTONE)
- HIDDEN
- MATCHLINE
- NEW (CUT)
- NEW (PROJECTION)
- OVERHEAD

MATERIAL

- ALUMINUM
- BRICK
- CONCRETE
- CONCRETE MASONRY BLOCK
- EARTH
- GRAVEL
- GROUT
- WOOD STRUCTURAL PANEL
- STEEL

REFERENCE

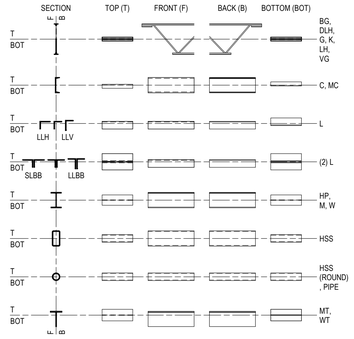
- NORTH INDICATOR
- DETAIL VIEW INDICATOR (A6 / S-501)
- ELEVATION VIEW INDICATOR (A1 / D1 / B1 / C1 / S-201)
- SECTION VIEW INDICATOR (A6 / S-501)
- VIEW INDICATOR (A6/S-501)
- GRID INDICATOR (1)
- EXISTING GRID INDICATOR (1)
- BREAK LINE
- SPAN DIRECTION INDICATOR
- SLOPE INDICATOR
- STEP INDICATOR
- OPENING (FLOOR, ROOF OR WALL)
- ELEVATION INDICATOR (TOC 100'-0")
- KEYNOTE INDICATOR (01)
- REVISION CLOUD
- REVISION INDICATOR (01)

VIEW LOCATION LEGEND

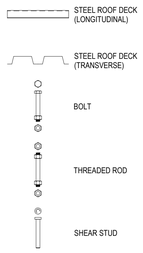
D1	D2	D3	D4	D5	D6
C1	C2	C3	C4	C5	C6
B1	B2	B3	B4	B5	B6
A1	A2	A3	A4	A5	A6

SHEET INDEX

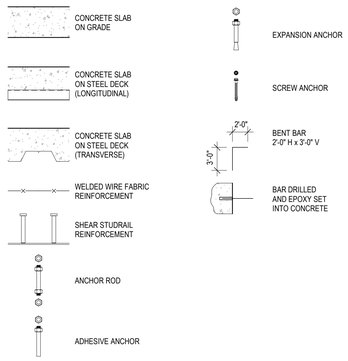
STEEL SHAPES LEGEND



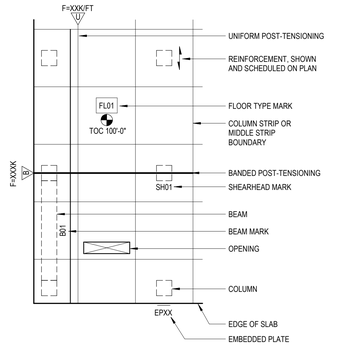
STEEL LEGEND



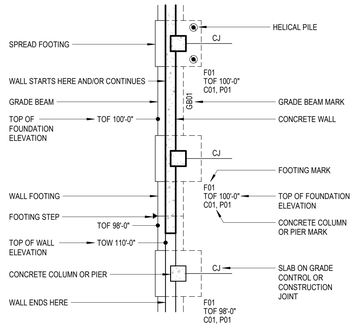
CONCRETE LEGEND



CONCRETE TWO-WAY FLAT SLAB FRAMING PLAN LEGEND



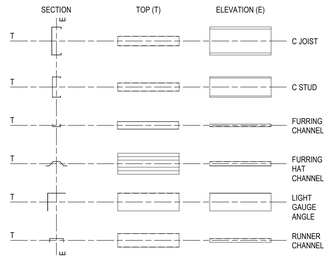
FOUNDATION PLAN LEGEND



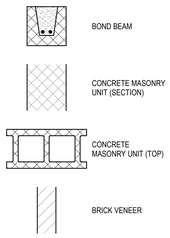
ABBREVIATIONS

1WAY	ONE-WAY
AB	ANCHOR BOLT
ADDL	ADDITIONAL
ADDM	ADDENDUM
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
APPROX	APPROXIMATE
AR	AS REQUIRED
ARCH	ARCHITECT
B PL	BASE PLATE
B/B	BACK TO BACK
BC	BOTTOM CHORD
BF	BOTH FACES
BF	BOTTOM FACE
BLDG	BUILDING
BM	BEAM
BO	BOTTOM OF __ (REFER TO TOP OF __)
BOT	BOTTOM
BRDG	BRIDGING
BRG	BEARING
BRG PL	BEARING PLATE
BS	BOTH SIDES
BSMT	BASEMENT
BW	BOTH WAYS
C	CHANNEL
C TO C	CENTER TO CENTER
CANTIL	CANTILEVER
CIP	CAST-IN-PLACE
CJ	CONSTRUCTION JOINT
CJ	CONTROL JOINT
CL	CENTER LINE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECT
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CPRS	COMPRESSIBLE
CTRL	CONTROL
CU	CUBIC
CU FT	CUBIC FEET
CU IN	CUBIC INCH
CU YD	CUBIC YARD
D	DEEP
D	DEPTH
DBE	DECK BEARING ELEVATION
DBL	DOUBLE
DEG	DEGREE
DET	DETAIL
DEMO	DEMOLITION
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIR	DIRECTION
DL	DEAD LOAD
DWG	DRAWING
E	EAST
EA	EACH
EE	EACH END
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC
ELEV	ELEVATOR
ENGR	ENGINEER
EOD	EDGE OF DECK
EOG	EDGE OF GRATING
EOS	EDGE OF SLAB
EQ	EQUAL
EQL SP	EQUALLY SPACED
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
EW	EACH WAY
EXC	EXCAVATE
EXIST, (E)	EXISTING
EXP	EXPANSION
EXP BT	EXPANSION BOLT
EXT	EXTERIOR
FD	FLOOR DRAIN
FDTN	FOUNDATION
FF	FAR FACE
FLR	FLOOR
FR	FRAME
FS	FAR SIDE
FSTNR	FASTENER
FT	FEET
FTG	FOOTING
FUT	FUTURE
GA	GAGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GLU LAM	GLUE LAMINATED WOOD
GR BM	GRADE BEAM
GRTG	GRATING
H	HIGH
HDR	HEADER
HGR	HANGER
HORIZ, H	HORIZONTAL
HS	HIGH STRENGTH
HSKPG	HOUSEKEEPING
HT	HEIGHT
I	MOMENT OF INERTIA
ID	INSIDE DIAMETER
IF	INSIDE FACE
INFO	INFORMATION
INT	INTERIOR
JST	JOIST
JST BRG	JOIST BEARING
K	KIP (ONE THOUSAND POUNDS)
KB	KNEE BRACE
KLF	KIPS PER LINEAR FOOT
KOP	KNOCK OUT PANEL
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
KWY	KEYWAY
L	ANGLE
LATL	LATERAL
LB	POUND
LD BRG	LOAD-BEARING
LDH	LONG DIMENSION HORIZONTAL
LDV	LONG DIMENSION VERTICAL
LL	LIVE LOAD
LLBB	LONG LEG BACK TO BACK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LVL	LAMINATED VENEER LUMBER
LVR	LOUVER
M	MOMENT
MAX	MAXIMUM
MBR	MEMBER
MC	MOMENT CONNECTION
MD	METAL DECK
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MFR REC	MANUFACTURER'S RECOMMENDATION
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
ML	MONOLITHIC
MO	MASONRY OPENING
MTL	METAL
MULT	MULTIPLE
N	NORTH
NF	NEAR FACE
NIC	NOT IN CONTRACT
NLB	NON LOAD-BEARING
NO	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OPNG	OPENING
OPH	OPPOSITE HAND
OPP	OPPOSITE
OPT	OPTIONAL
O/O	OUT TO OUT
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PRCST	PRECAST
PRELIM	PRELIMINARY
PS CONC	PRESTRESSED CONCRETE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POST-TENSIONED
PT	PRESSURE TREATED
PT CONC	POST-TENSIONED CONCRETE
QTY	QUANTITY
R	RADIUS
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCE
REQD	REQUIRED
REV	REVISION
RS	ROUGH SAWN
RTU	ROOF TOP UNIT
S	SOUTH
SCHED	SCHEDULE
SCHEM	SCHEMATIC
SE	STRUCTURAL ENGINEER
SECT	SECTION
SF	SQUARE FOOT (FEET)
SHT	SHEET
SIM	SIMILAR
SL	SLAB
SLBB	SHORT LEG BACK TO BACK
SP	SUMP PIT
SPCL	SPECIAL
SPEC	SPECIFICATION
SQ	SQUARE
SQ IN	SQUARE INCH
SQ YD	SQUARE YARD
STD	STANDARD
STIF	STIFFENER
STL JST	STEEL JOIST
STRUC	STRUCTURAL
SYMM	SYMMETRICAL
T&B	TOP AND BOTTOM
TB	THROUGH BOLT
TC	TOP CHORD
TEMJ	TOP ELEVATION MATCHES JOIST
TEMP	TEMPORARY
THK	THICKNESS
THRU	THROUGH
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOCF	TOP OF COLD-FORMED
TOD	TOP OF DECK
TODP	TOP OF DRILLED PIER
TOF	TOP OF FOUNDATION
TOG	TOP OF GRATING
TOGB	TOP OF GRADE BEAM
TOP	TOP OF PIER
TOPC	TOP OF PILE CAP
TOS	TOP OF STEEL
TOW	TOP OF WALL
TS	TUBE STEEL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VAR	VARIES
VERT, V	VERTICAL
VIF	VERIFY IN FIELD
W	WEST
W	WIDE
W/	WITH
W/O	WITHOUT
WBL	WOOD BLOCKING
WD	WOOD
WF	WIDE FLANGE
WP	WORK POINT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
YD	YARD

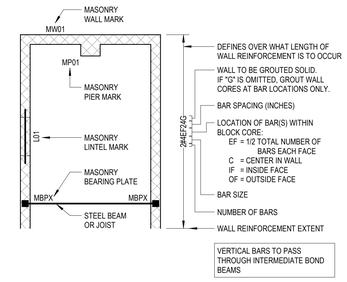
COLD-FORMED SHAPES LEGEND



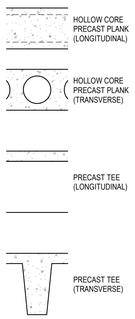
CONCRETE MASONRY LEGEND



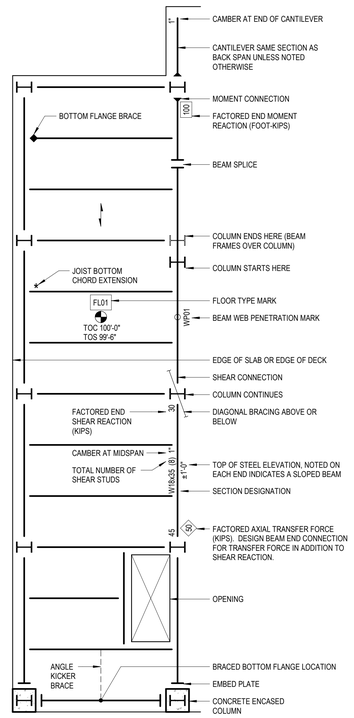
CONCRETE MASONRY PLAN LEGEND



PRECAST CONCRETE LEGEND



STEEL FRAMING PLAN LEGEND



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SCALE:	AS NOTED

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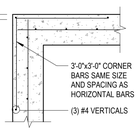
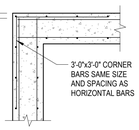


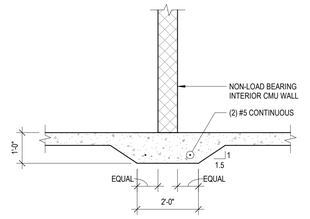
ONE LAYER OF REINFORCEMENT



TWO LAYERS OF REINFORCEMENT

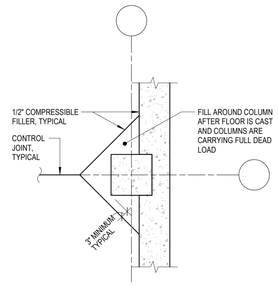
D5 WALL CORNER

1/2" = 1'-0"



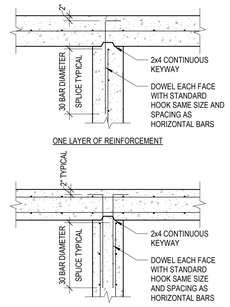
D6 CMU WALL ON SLAB ON GRADE

1/2" = 1'-0"



C4 EXTERIOR COLUMN ISOLATION JOINT

1/2" = 1'-0"

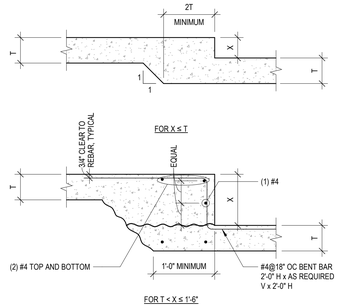


ONE LAYER OF REINFORCEMENT

TWO LAYERS OF REINFORCEMENT

C5 WALL INTERSECTION

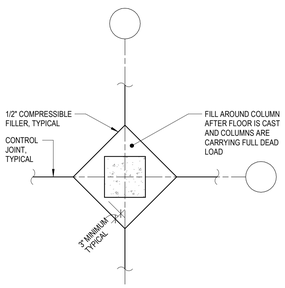
1/2" = 1'-0"



FOR T < X ≤ 1'-6"

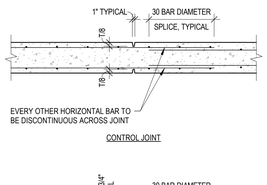
C6 SLAB ON GRADE DEPRESSION

1" = 1'-0"

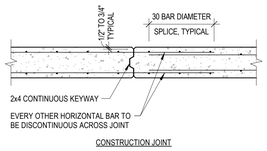


B4 INTERIOR COLUMN ISOLATION JOINT

1/2" = 1'-0"



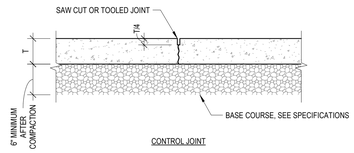
CONTROL JOINT



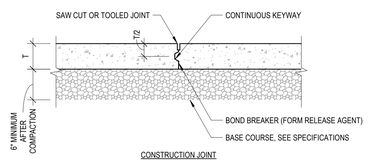
CONSTRUCTION JOINT

B5 WALL CONTROL AND CONSTRUCTION JOINT

1/2" = 1'-0"



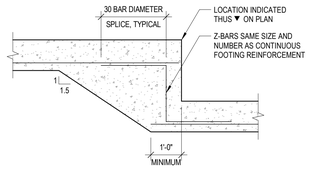
CONTROL JOINT



CONSTRUCTION JOINT

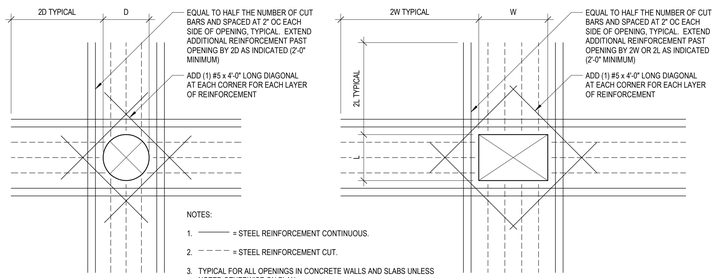
B6 SLAB ON GRADE CONTROL AND CONSTRUCTION JOINT

1" = 1'-0"



A4 FOOTING STEP

1/2" = 1'-0"



NOTES:

1. ——— = STEEL REINFORCEMENT CONTINUOUS.
2. – – – – = STEEL REINFORCEMENT CUT.
3. TYPICAL FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS UNLESS NOTED OTHERWISE ON PLAN.
4. DO NOT WELD REINFORCEMENT TO PIPE SLEEVES AND INSERTS.
5. FOR OPENINGS 1'-0" ROUND/SQUARE OR LESS THE WALL STEEL CAN BE REPLACED WITHOUT ADDITIONAL REINFORCEMENT.

A5 OPENING REINFORCEMENT

1/2" = 1'-0"

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GENERAL FOUNDATION DETAILS

SHEET NUMBER:

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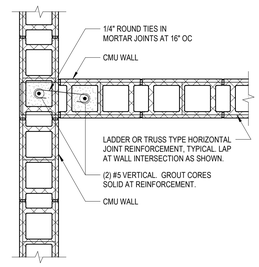
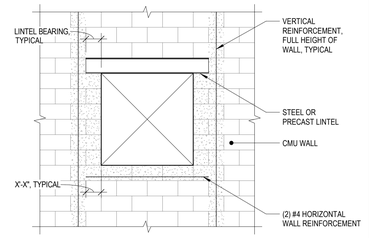


D5 CMU WALL INTERSECTION

1" = 1'-0"

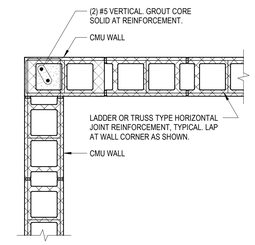


NOTES:

1. GROUT ALL CELLS SOLID CONTAINING REINFORCEMENT.

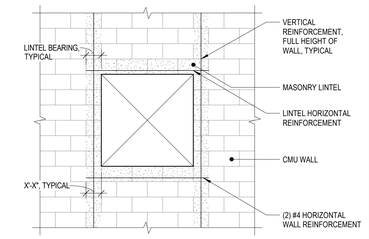
D6 CMU WALL PUNCHED OPENING

3/8" = 1'-0"



C5 CMU WALL CORNER

1" = 1'-0"

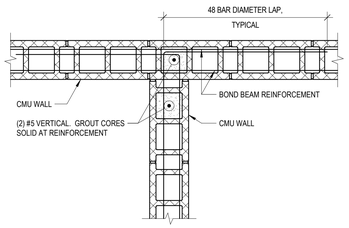


NOTES:

1. GROUT ALL CELLS SOLID CONTAINING REINFORCEMENT.

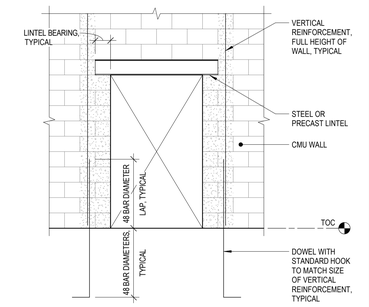
C6 CMU WALL PUNCHED OPENING

3/8" = 1'-0"



B5 BOND BEAM INTERSECTION

1" = 1'-0"

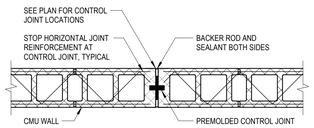


NOTES:

1. GROUT ALL CELLS SOLID CONTAINING REINFORCEMENT

B6 CMU WALL DOOR OPENING

3/8" = 1'-0"

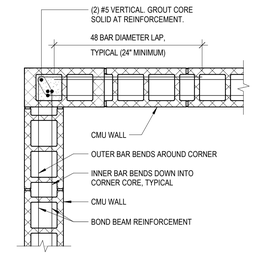


NOTES:

1. STOP BOND BEAM REINFORCEMENT (NOT SHOWN) AT CONTROL JOINT.

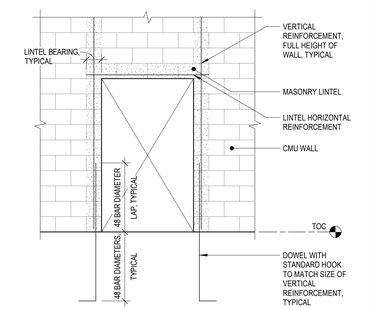
A4 CMU WALL VERTICAL CONTROL JOINT

1" = 1'-0"



A5 BOND BEAM CORNER

1" = 1'-0"



NOTES:

1. GROUT ALL CELLS SOLID CONTAINING REINFORCEMENT

A6 CMU WALL DOOR OPENING

3/8" = 1'-0"

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SHEET TITLE:

GENERAL MASONRY DETAILS

SHEET NUMBER:

S004

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SHEET KEYNOTES

01 2'-6" THICK COMBINED FOOTING. REINFORCE WITH #8 @ 10" NORTH-SOUTH BOTTOM, #8 @ 9" EAST-WEST BOTTOM, #8 @ 12" NORTH-SOUTH TOP, AND #5 @ 18" EAST-WEST TOP.

02 2'-6" THICK COMBINED FOOTING. REINFORCE WITH #8 @ 12" NORTH-SOUTH TOP AND BOTTOM, #8 @ 12" EAST-WEST BOTTOM, AND #5 @ 18" EAST-WEST TOP.

03 2'-6" THICK COMBINED FOOTING. REINFORCE WITH #8 @ 8" NORTH-SOUTH TOP AND BOTTOM, #8 @ 8" EAST-WEST BOTTOM, AND #5 @ 18" EAST-WEST TOP.

04 4'-0" THICK COMBINED FOOTING. REINFORCE WITH #8 @ 8" NORTH-SOUTH TOP AND BOTTOM, #8 @ 8" EAST-WEST BOTTOM, AND #5 @ 18" EAST-WEST TOP.

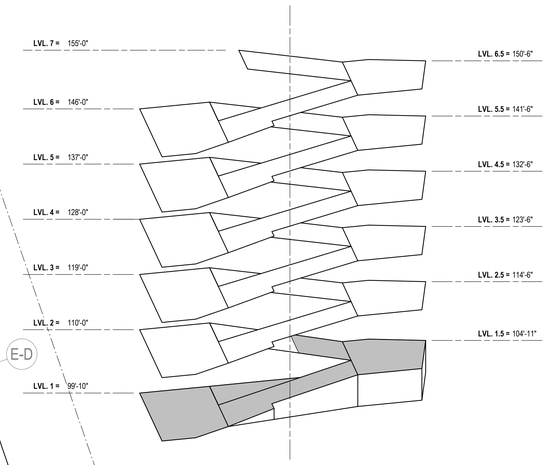
05 2'-6" THICK COMBINED FOOTING. REINFORCE WITH #8 @ 9" NORTH-SOUTH BOTTOM, #8 @ 12" EAST-WEST BOTTOM, #8 @ 12" NORTH-SOUTH TOP, AND #5 @ 18" EAST-WEST TOP.

12 HELICAL PILES WHERE NOTED, DESIGN BY HELICAL PILE DESIGNER. DESIGN TO MINIMUM OF 30 KIPS/PILE (ASD). DEPTH OF REINFORING TO BE COORDINATED BY GC WITH HELICAL PILE DESIGNER'S EMBEDDMENT REQUIREMENTS. CLEAR COVER TO BOTTOM REINFORCING NOT TO EXCEED 6".

GENERAL SHEET NOTES

- TYPICAL FLOOR = 5" CONCRETE SLAB ON GRADE REINFORCED WITH 3.5 LB/CU YARD MACRO FIBER REINFORCEMENT. TOP OF CONCRETE SLAB ELEVATION VARIES, SEE PLAN.
- FOR FLOOR ELEVATIONS BETWEEN POINTS INDICATED USE STRAIGHT LINE INTERPOLATION. ALL SLABS TO SLOPE TO DRAIN, MAXIMUM OF 3/16" PER FOOT.
- LEAD CONTRACTOR TO COORDINATE DRAIN TILE LATERAL CONNECTIONS THROUGH FOUNDATION WALLS, SEE PLUMBING.
- TOP OF FOUNDATION WALL/GRADE BEAM NOTED TOW/TOF X'-X" ON PLAN.
- SEE "SCHEDULES" SHEET(S) FOR SPREAD FOOTINGS AND CONCRETE COLUMN SCHEDULES.
- SEE "GENERAL DETAILS" SHEET(S) FOR THE FOLLOWING DETAILS:
  - OPENING REINFORCEMENT
  - SLAB ON GRADE CONTROL AND CONSTRUCTION JOINT
  - WALL CONTROL AND CONSTRUCTION JOINT
  - WALL CORNER
  - WALL INTERSECTION
  - FOOTING STEP
  - SLAB ON GRADE DEPRESSION
  - CMU WALL ON SLAB ON GRADE
  - INTERIOR COLUMN ISOLATION JOINT
  - EXTERIOR COLUMN ISOLATION JOINT
  - FLOOR DRAIN AT SLAB ON GRADE
- RAMMED AGGREGATE PIERS TO BE INSTALLED AT ALL COLUMN FOUNDATIONS. RAMMED AGGREGATE PIER DESIGNER TO PROVIDE DESIGN AND LAYOUT FOR AN EQUIVALENT 5000 PSF SOIL BEARING CAPACITY FOR SHALLOW FOUNDATIONS.

(E) X X'-XX" DENOTES RESULTS FROM JSD POTHOLING SURVEY OF APPROXIMATE TOP ELEVATIONS OF EXISTING BURIED AT&T 4" CONDUIT OR EXISTING WATER LINE.



ISOMETRIC KEY PLAN - LEVEL 1

GRÄEF

1010 East Washington Avenue,
Suite 202
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608 / 242 1550

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CONSULTANTS:

CLIENT:

Community Development Authority of the City of Madison

CDA

Madison Municipal Building
215 Martin Luther King Jr Blvd
Suite 161
Madison, WI 53703

PROJECT TITLE:

VILLAGE ON PARK PARKING STRUCTURE AND SITE IMPROVEMENTS

808 HUGHES PLACE
MADISON, WI 53713

ISSUE:

07/28/2023 BID DOCUMENTS

PROJECT INFORMATION:

PROJECT NUMBER:	20225013.00
DATE:	07/28/2023
DRAWN BY:	JL
CHECKED BY:	AMG
APPROVED BY:	DFW
SCALE:	AS NOTED

SHEET TITLE:

LEVEL ONE FOUNDATION PLAN

SHEET NUMBER:

S101

A1 LEVEL ONE FOUNDATION PLAN

1/8" = 1'-0"

N

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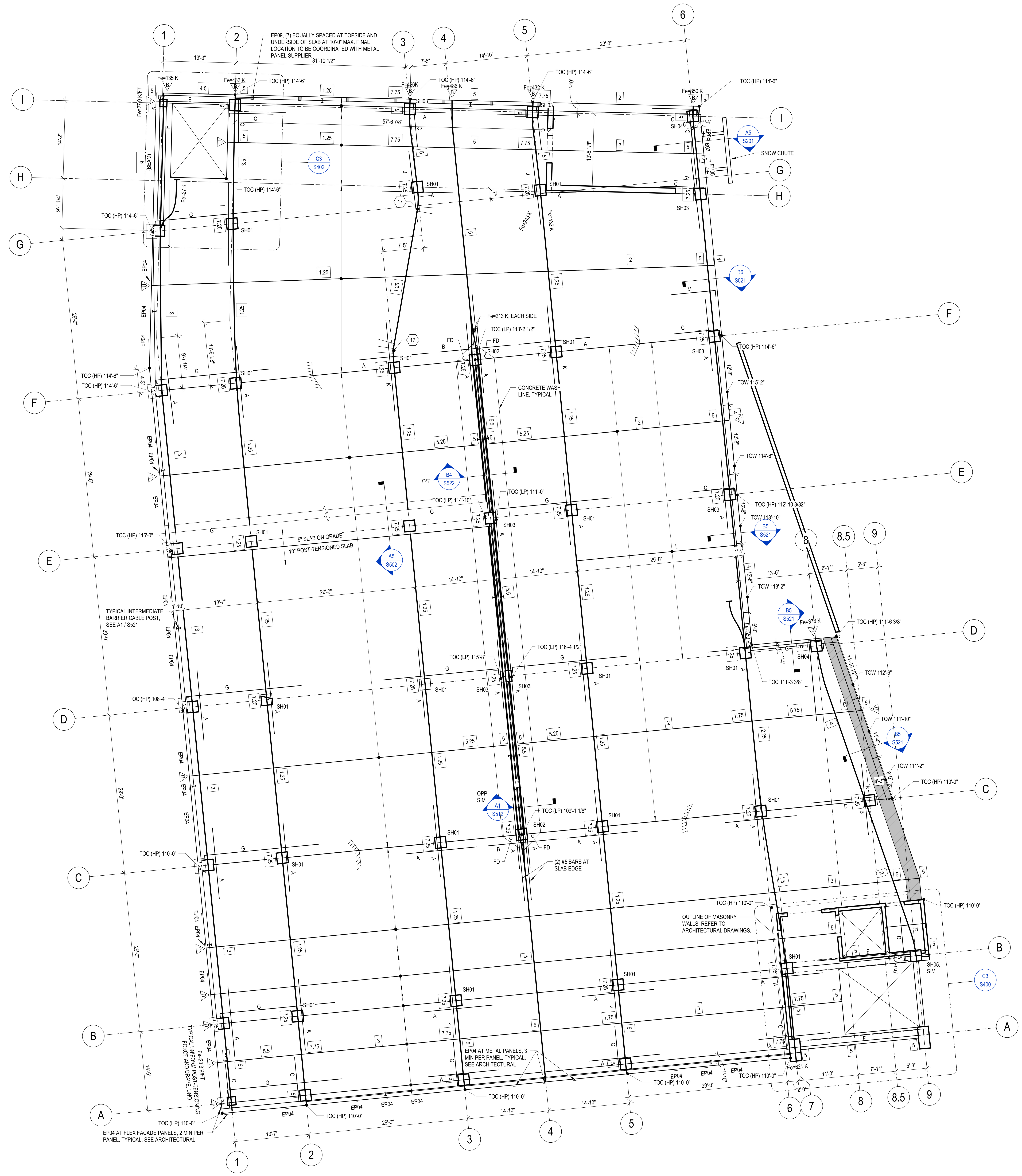
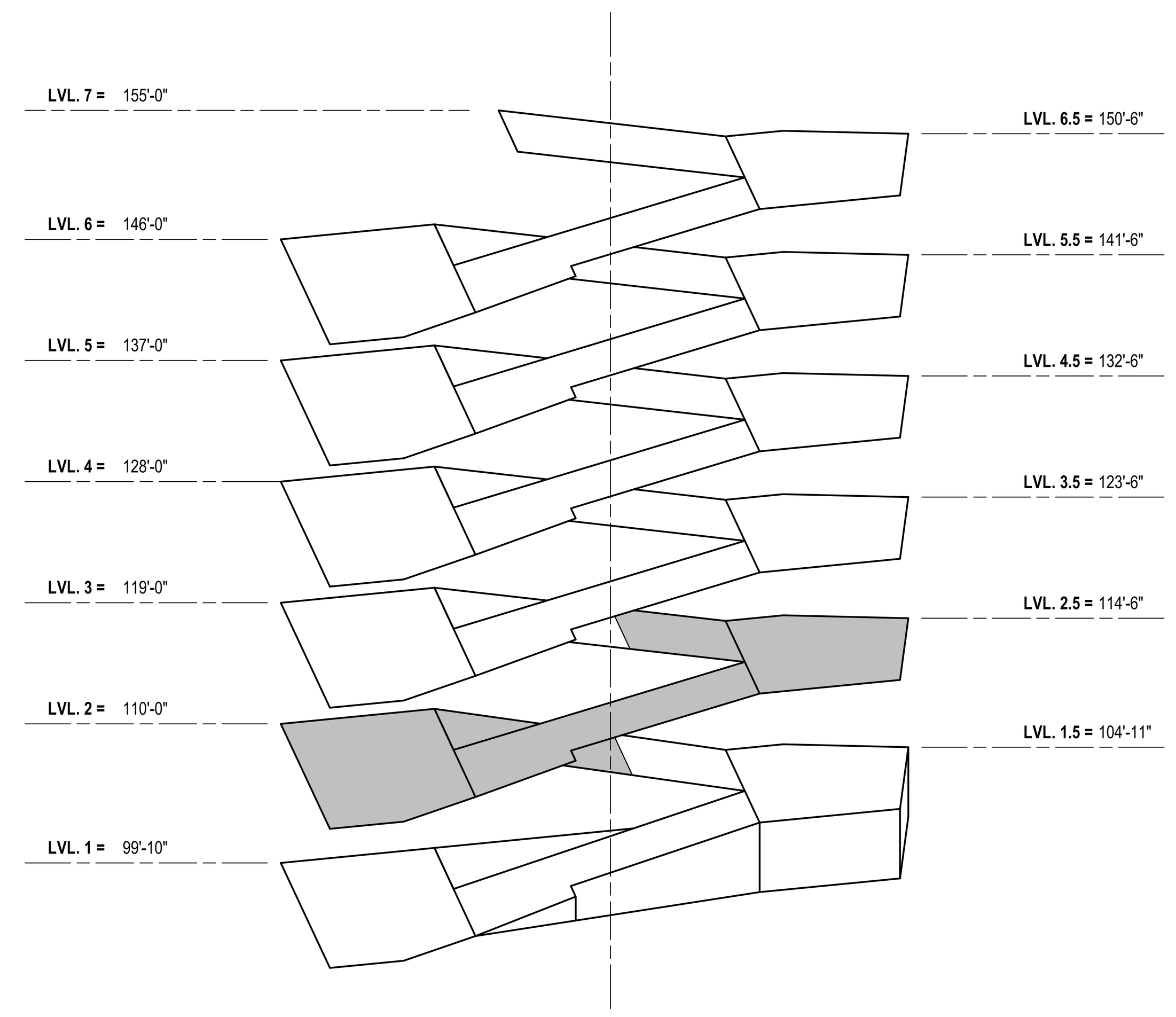


A1 LEVEL TWO FRAMING PLAN

1/8" = 1'-0"

GENERAL SHEET NOTES

- TYPICAL FLOOR = 10" TWO-WAY FLAT WITH #4@18" OC EACH WAY BOTTOM UNLESS NOTED OTHERWISE. SEE S101 FOR SLAB ON GRADE NOTES. ADDITIONAL TOP AND BOTTOM BARS AS NOTED ON PLAN. PROVIDE STANDARD 90-DEGREE HOOK ON ALL BARS THAT TERMINATE NEAR SLAB EDGE. TOP OF CONCRETE SLAB ELEVATION VARIES, SEE PLAN.
- FOR FLOOR ELEVATIONS BETWEEN POINTS INDICATED USE STRAIGHT LINE INTERPOLATION. ALL SLABS TO SLOPE TO DRAIN, MAXIMUM OF 3/16" PER FOOT.
- SEE "SCHEDULES" SHEET FOR CONCRETE BEAM AND SHEARHEAD SCHEDULES.
- MAINTAIN SPECIFIED SLAB THICKNESS THROUGHOUT FLAT SLAB UNLESS NOTED OTHERWISE.
- SEE ELECTRICAL, PLUMBING, FIRE PROTECTION, HVAC AND ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATIONS OF SLAB OPENINGS AND PIPE SLEEVES. PROVIDE SLEEVES WITH DIAMETER 1" LARGER THAN CONDUIT. ALL SLEEVES TO BE SCHEDULE 40 STEEL PIPE.
- NO RECESSED AREAS IN SLAB ARE ALLOWED WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.
- SLAB REINFORCEMENT PLACING ORDER:
  - E/W BOTTOM
  - N/S BOTTOM
  - N/S TOP
  - E/W TOP
- REINFORCING NOTES (SEE PLAN FOR LOCATION):
  A. 12 #5 x 13'-0" LONG (TOP)
  B. 15 #5 x 13'-0" LONG (TOP)
  C. 9 #5 x 8'-0" LONG (TOP), HOOKED
  D. 10 #5 x 12'-0" LONG (TOP), HOOKED
  E. 4 #5 x 21'-0" LONG (TOP), HOOKED
  F. 8 #5 x 21'-0" LONG (TOP), HOOKED
  G. 12 #5 x 21'-0" LONG (TOP), HOOKED
  H. #5 @ 12" (TOP & BOTTOM)
  I. 13 #5 x 15'-0" LONG (TOP)
  J. 21 #5 x 13'-0" LONG (TOP)
  K. 12 #5 x 17'-0" LONG (TOP)
  L. #4 x 30'-6" @ 12" OC (BOTTOM), HOOKED
  M. #4 x 5'-0" @ 18" OC (BOTTOM), HOOKED - TYPICAL AT SLAB INTERIOR/EXTERIOR PERIMETERS
  N. 18 #5 x 13'-0" LONG (TOP)
  O. 18 #5 x 21'-0" LONG TOP, HOOKED



ISOMETRIC KEY PLAN - LEVEL 2

GRAEF
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CONSULTANTS:

CLIENT:

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PROJECT TITLE:

VILLAGE ON PARK PARKING STRUCTURE AND SITE IMPROVEMENTS

808 HUGHES PLACE
MADISON, WI 53713

ISSUE:

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PROJECT INFORMATION:

PROJECT NUMBER:	20225013.00
DATE:	07/28/2023
DRAWN BY:	JL
CHECKED BY:	AMG
APPROVED BY:	DFW
SCALE:	AS NOTED

SHEET TITLE:

LEVEL TWO FRAMING PLAN

SHEET NUMBER:

S102

Autodesk Docs://20225013.00 - Village on Park Garage/20225013_S22.rvt
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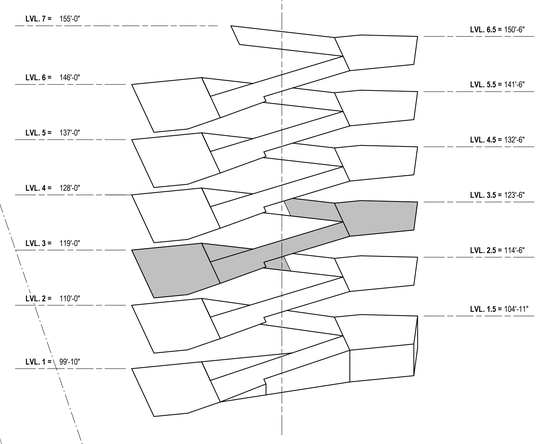
GENERAL SHEET NOTES

- TYPICAL FLOOR = 10" TWO-WAY FLAT SLAB WITH #4@18" OC EACH WAY BOTTOM. ADDITIONAL TOP AND BOTTOM BARS AS NOTED ON PLAN. PROVIDE STANDARD 90-DEGREE HOOK ON ALL BARS THAT TERMINATE NEAR SLAB EDGE
- TOP OF CONCRETE SLAB ELEVATION AS NOTED ON PLAN
- SEE "SCHEDULES" SHEET FOR CONCRETE BEAM AND SHEARHEAD SCHEDULES.
- MAINTAIN SPECIFIED SLAB THICKNESS THROUGHOUT FLAT SLAB UNLESS NOTED OTHERWISE.
- SEE ELECTRICAL, PLUMBING, FIRE PROTECTION, HVAC AND ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATIONS OF SLAB OPENINGS AND PIPE SLEEVES. PROVIDE SLEEVES WITH DIAMETER 1" LARGER THAN CONDUIT. ALL SLEEVES TO BE SCHEDULE 40 STEEL PIPE.
- NO RECESSED AREAS IN SLAB ARE ALLOWED WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.
- SLAB REINFORCEMENT PLACING ORDER:
  - N/S BOTTOM
  - E/W BOTTOM
  - E/W TOP
  - N/S TOP
- REINFORCING NOTES (SEE PLAN FOR LOCATION):
  - A. 12 #5 x 13'-0" LONG (TOP)
  - B. 15 #5 x 13'-0" LONG (TOP)
  - C. 9 #5 x 8'-0" LONG (TOP), HOOKED
  - D. 10 #5 x 12'-0" LONG (TOP), HOOKED
  - E. 4 #5 x 21'-0" LONG (TOP), HOOKED
  - F. 6 #5 x 21'-0" LONG (TOP), HOOKED
  - G. 12 #5 x 21'-0" LONG (TOP), HOOKED
  - H. #5 @ 12" (TOP & BOTTOM)
  - I. 13 #5 x 15'-0" LONG (TOP)
  - J. 21 #5 x 13'-0" LONG (TOP)
  - K. 12 #5 x 17'-0" LONG (TOP)
  - L. #4 x 30'-6" @ 12" OC (BOTTOM), HOOKED
  - M. #4 x 5'-0" @ 18" OC (BOTTOM), HOOKED - TYPICAL AT SLAB INTERIOR/EXTERIOR PERIMETERS
  - N. 18 #5 x 13'-0" LONG (TOP)
  - O. 18 #5 x 21'-0" LONG TOP, HOOKED



ISOMETRIC KEY PLAN - LEVEL 3

A1 LEVEL THREE FRAMING PLAN
1/8" = 1'-0"

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DATE:	07/28/2023
DRAWN BY:	JL
CHECKED BY:	AMG
APPROVED BY:	DFW
SCALE:	AS NOTED

SHEET TITLE:

LEVEL THREE FRAMING PLAN

SHEET NUMBER:

S103

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7/25/2023 3:27:35 PM

GENERAL SHEET NOTES

- TYPICAL FLOOR = 10" TWO-WAY FLAT SLAB WITH #4@18" OC EACH WAY BOTTOM. ADDITIONAL TOP AND BOTTOM BARS AS NOTED ON PLAN. PROVIDE STANDARD 90-DEGREE HOOK ON ALL BARS THAT TERMINATE NEAR SLAB EDGE
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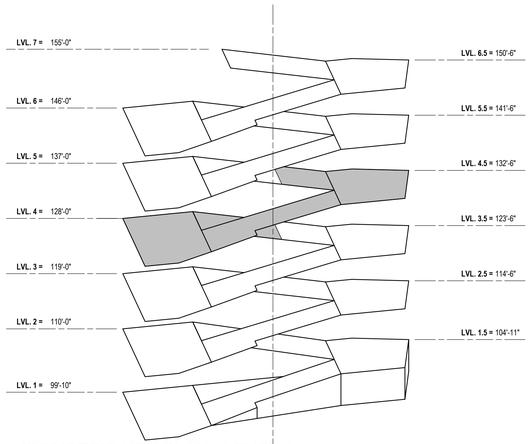
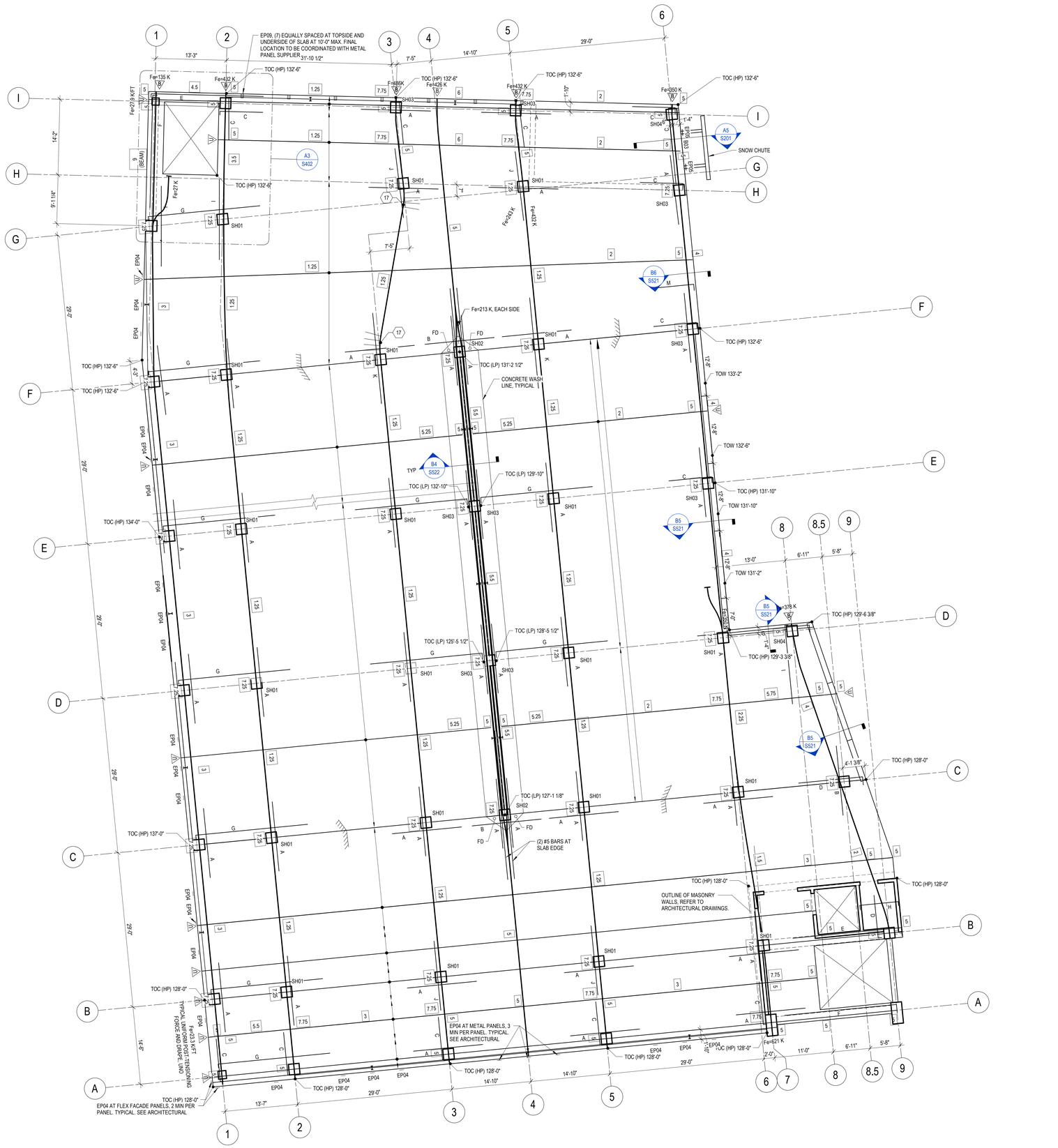
  - N/S BOTTOM
  - E/W BOTTOM
  - E/W TOP
  - N/S TOP
- REINFORCING NOTES (SEE PLAN FOR LOCATION):
  - A. 12 #5 x 13'-0" LONG (TOP)
  - B. 15 #5 x 13'-0" LONG (TOP)
  - C. 9 #5 x 8'-0" LONG (TOP), HOOKED
  - D. 10 #5 x 12'-0" LONG (TOP), HOOKED
  - E. 4 #5 x 21'-0" LONG (TOP), HOOKED
  - F. 6 #5 x 21'-0" LONG (TOP), HOOKED
  - G. 12 #5 x 21'-0" LONG (TOP), HOOKED
  - H. #5 @ 12" (TOP & BOTTOM)
  - I. 13 #5 x 15'-0" LONG (TOP)
  - J. 21 #5 x 13'-0" LONG (TOP)
  - K. 12 #5 x 17'-0" LONG (TOP)
  - L. #4 x 30'-6" @ 12" OC (BOTTOM), HOOKED
  - M. #4 x 5'-0" @ 18" OC (BOTTOM), HOOKED - TYPICAL AT SLAB INTERIOR/EXTERIOR PERIMETERS
  - N. 18 #5 x 13'-0" LONG (TOP)
  - O. 18 #5 x 21'-0" LONG TOP, HOOKED



ISOMETRIC KEY PLAN - LEVEL 4



A1 LEVEL FOUR FRAMING PLAN

1/8" = 1'-0"

N

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808 HUGHES PLACE
MADISON, WI 53713

ISSUE:

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DRAWN BY:	JL
CHECKED BY:	AMG
APPROVED BY:	DFW
SCALE:	AS NOTED

SHEET TITLE:

LEVEL FOUR FRAMING PLAN

SHEET NUMBER:

S104

Autodesk Docs://20225013.00 - Village on Park Garage/20225013_S22.rvt
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GENERAL SHEET NOTES

- TYPICAL FLOOR = 10" TWO-WAY FLAT SLAB WITH #4@18" OC EACH WAY BOTTOM. ADDITIONAL TOP AND BOTTOM BARS AS NOTED ON PLAN. PROVIDE STANDARD 90-DEGREE HOOK ON ALL BARS THAT TERMINATE NEAR SLAB EDGE
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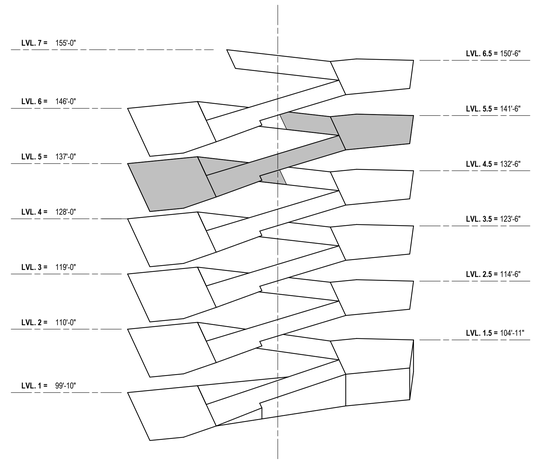
- NO RECESSED AREAS IN SLAB ARE ALLOWED WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.
- SLAB REINFORCEMENT PLACING ORDER:
  - N/S BOTTOM
  - E/W BOTTOM
  - E/W TOP
  - N/S TOP
- REINFORCING NOTES (SEE PLAN FOR LOCATION):
  - A. 12 #5 x 13'-0" LONG (TOP)
  - B. 15 #5 x 13'-0" LONG (TOP)
  - C. 9 #5 x 8'-0" LONG (TOP), HOOKED
  - D. 10 #5 x 12'-0" LONG (TOP), HOOKED
  - E. 4 #5 x 21'-0" LONG (TOP), HOOKED
  - F. 6 #5 x 21'-0" LONG (TOP), HOOKED
  - G. 12 #5 x 21'-0" LONG (TOP), HOOKED
  - H. #5 @ 12" (TOP & BOTTOM)
  - I. 13 #5 x 15'-0" LONG (TOP)
  - J. 21 #5 x 13'-0" LONG (TOP)
  - K. 12 #5 x 17'-0" LONG (TOP)
  - L. #4 x 30'-6" @ 12" OC (BOTTOM), HOOKED
  - M. #4 x 5'-0" @ 18" OC (BOTTOM), HOOKED - TYPICAL AT SLAB INTERIOR/EXTERIOR PERIMETERS
  - N. 18 #5 x 13'-0" LONG (TOP)
  - O. 18 #5 x 21'-0" LONG TOP, HOOKED



ISOMETRIC KEY PLAN - LEVEL 5

A1 LEVEL FIVE FRAMING PLAN

1/8" = 1'-0"

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CHECKED BY:	AMG
APPROVED BY:	DFW
SCALE:	AS NOTED

SHEET TITLE:

LEVEL FIVE FRAMING PLAN

SHEET NUMBER:

S105

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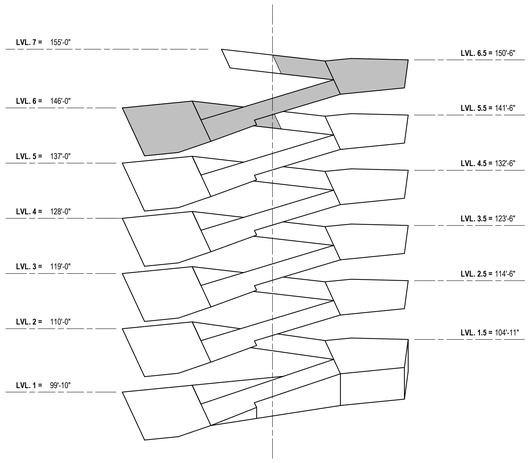
PV SYSTEM COLUMN LOADING SCHEDULE

MARK	DEAD (GRAVITY)	DEAD (LATERAL)	SNOW (GRAVITY)	SNOW (LATERAL)	WIND: N/S (GRAVITY)	WIND: N/S (LATERAL)	WIND: E/W (GRAVITY)	WIND: E/W (LATERAL)
R_{E1}	5 KIPS	2 KIPS N/S	13 KIPS	7 KIPS N/S	28 KIPS	15 KIPS	31 KIPS	12 KIPS
R_{I1}	5 KIPS	8 KIPS N/S	24 KIPS	24 KIPS N/S	55 KIPS	56 KIPS	52 KIPS	52 KIPS

NOTES:
- DEAD AND SNOW LOADS GIVEN AT SERVICE LEVEL.
- WIND LOADS GIVEN AT ULTIMATE AND ARE REVERSIBLE.
- LATERAL LOADING DIRECTION GIVEN RELATIVE TO TRUE NORTH.

GENERAL SHEET NOTES

- TYPICAL FLOOR = 10" TWO-WAY FLAT SLAB WITH #4@18" OC EACH WAY BOTTOM. ADDITIONAL TOP AND BOTTOM BARS AS NOTED ON PLAN. PROVIDE STANDARD 90-DEGREE HOOK ON ALL BARS THAT TERMINATE NEAR SLAB EDGE
- TOP OF CONCRETE SLAB ELEVATION AS NOTED ON PLAN
- SEE "SCHEDULES" SHEET FOR CONCRETE BEAM AND SHEARHEAD SCHEDULES.
- MAINTAIN SPECIFIED SLAB THICKNESS THROUGHOUT FLAT SLAB UNLESS NOTED OTHERWISE.
- SEE ELECTRICAL, PLUMBING, FIRE PROTECTION, HVAC AND ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATIONS OF SLAB OPENINGS AND PIPE SLEEVES. PROVIDE SLEEVES WITH DIAMETER 1" LARGER THAN CONDUIT. ALL SLEEVES TO BE SCHEDULE 40 STEEL PIPE.
- NO RECESSED AREAS IN SLAB ARE ALLOWED WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.
- SLAB REINFORCEMENT PLACING ORDER:
  - N/S BOTTOM
  - E/W BOTTOM
  - E/W TOP
  - N/S TOP
- REINFORCING NOTES (SEE PLAN FOR LOCATION):
  - A. 12 #5 x 13'-0" LONG (TOP)
  - B. 15 #5 x 13'-0" LONG (TOP)
  - C. 9 #5 x 8'-0" LONG (TOP), HOOKED
  - D. 10 #5 x 12'-0" LONG (TOP), HOOKED
  - E. 4 #5 x 21'-0" LONG (TOP), HOOKED
  - F. 6 #5 x 21'-0" LONG (TOP), HOOKED
  - G. 12 #5 x 21'-0" LONG (TOP), HOOKED
  - H. #5 @ 12" (TOP & BOTTOM)
  - I. 13 #5 x 15'-0" LONG (TOP)
  - J. 21 #5 x 13'-0" LONG (TOP)
  - K. 12 #5 x 17'-0" LONG (TOP)
  - L. #4 x 30'-6" @ 12" OC (BOTTOM), HOOKED
  - M. #4 x 5'-0" @ 18" OC (BOTTOM), HOOKED - TYPICAL AT SLAB INTERIOR/EXTERIOR PERIMETERS
  - N. 18 #5 x 13'-0" LONG (TOP)
  - O. 18 #5 x 21'-0" LONG TOP, HOOKED



ISOMETRIC KEY PLAN - LEVEL 6

A1 LEVEL SIX FRAMING PLAN

1/8" = 1'-0"

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CHECKED BY:	AMG
APPROVED BY:	DFW
SCALE:	AS NOTED

SHEET TITLE:

LEVEL SIX FRAMING PLAN

SHEET NUMBER:

S106

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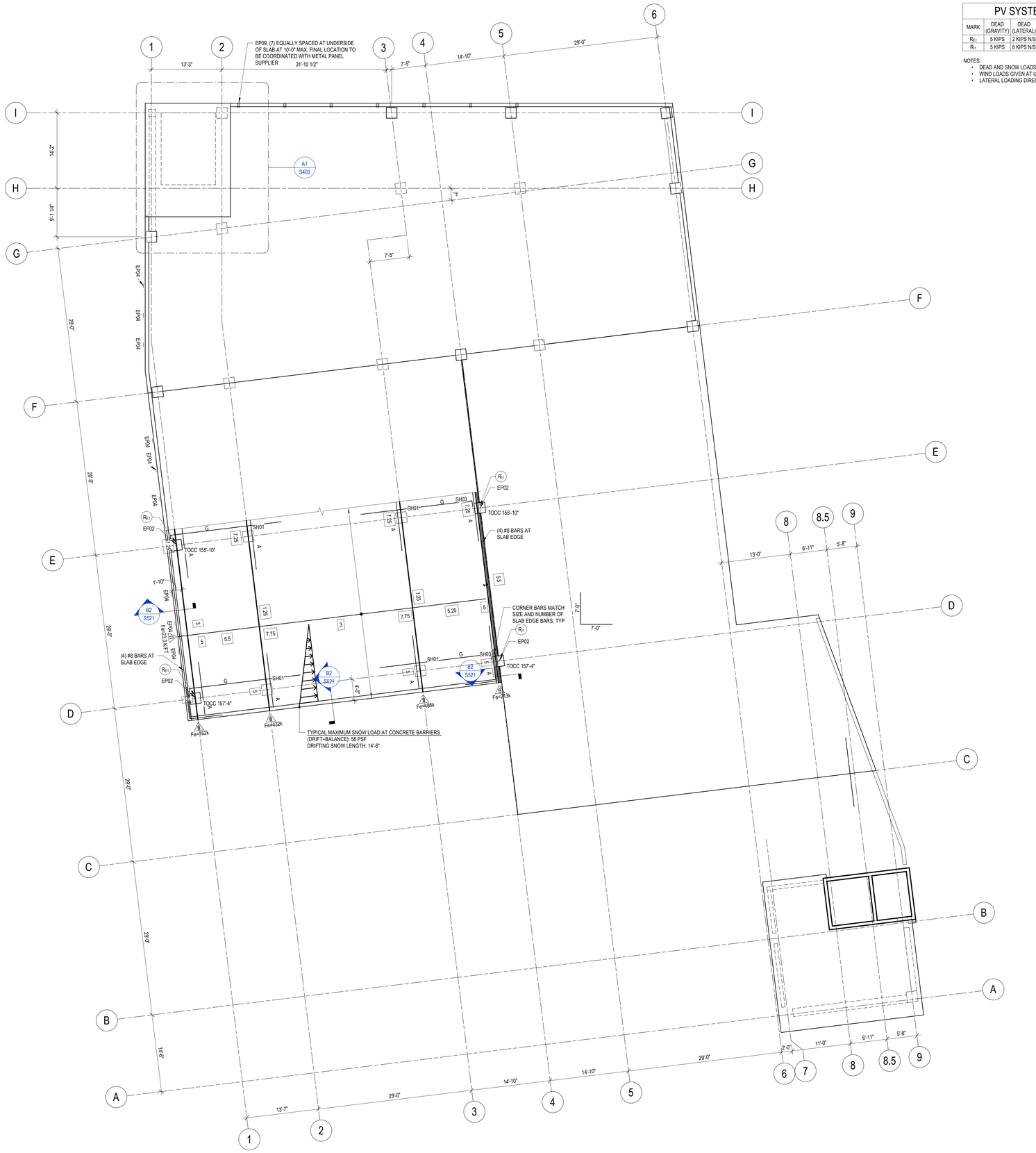


A1 ROOF FRAMING PLAN

1/8" = 1'-0"

N

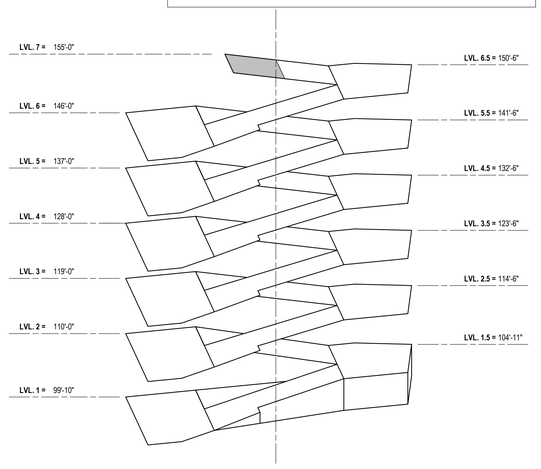
PV SYSTEM COLUMN LOADING SCHEDULE

MARK	DEAD (GRAVITY)	DEAD (LATERAL)	SNOW (GRAVITY)	SNOW (LATERAL)	WIND: N/S (GRAVITY)	WIND: N/S (LATERAL)	WIND: E/W (GRAVITY)	WIND: E/W (LATERAL)
R_{E1}	5 KIPS	2 KIPS N/S	13 KIPS	7 KIPS N/S	28 KIPS	15 KIPS	31 KIPS	12 KIPS
R_{I1}	5 KIPS	8 KIPS N/S	24 KIPS	24 KIPS N/S	55 KIPS	56 KIPS	52 KIPS	52 KIPS

NOTES:
- DEAD AND SNOW LOADS GIVEN AT SERVICE LEVEL.
- WIND LOADS GIVEN AT ULTIMATE AND ARE REVERSIBLE.
- LATERAL LOADING DIRECTION GIVEN RELATIVE TO TRUE NORTH.

GENERAL SHEET NOTES

- TYPICAL FLOOR = 10" TWO-WAY FLAT SLAB WITH #4@18" OC EACH WAY BOTTOM. ADDITIONAL TOP AND BOTTOM BARS AS NOTED ON PLAN. PROVIDE STANDARD 90-DEGREE HOOK ON ALL BARS THAT TERMINATE NEAR SLAB EDGE
- TOP OF CONCRETE SLAB ELEVATION AS NOTED ON PLAN
- SEE "SCHEDULES" SHEET FOR CONCRETE BEAM AND SHEARHEAD SCHEDULES.
- MAINTAIN SPECIFIED SLAB THICKNESS THROUGHOUT FLAT SLAB UNLESS NOTED OTHERWISE.
- SEE ELECTRICAL, PLUMBING, FIRE PROTECTION, HVAC AND ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATIONS OF SLAB OPENINGS AND PIPE SLEEVES. PROVIDE SLEEVES WITH DIAMETER 1" LARGER THAN CONDUIT. ALL SLEEVES TO BE SCHEDULE 40 STEEL PIPE.
- NO RECESSED AREAS IN SLAB ARE ALLOWED WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.
- SLAB REINFORCEMENT PLACING ORDER:
  - N/S BOTTOM
  - E/W BOTTOM
  - E/W TOP
  - N/S TOP
- REINFORCING NOTES (SEE PLAN FOR LOCATION):
  - A. 12 #5 x 13'-0" LONG (TOP)
  - B. 15 #5 x 13'-0" LONG (TOP)
  - C. 9 #5 x 8'-0" LONG (TOP), HOOKED
  - D. 10 #5 x 12'-0" LONG (TOP), HOOKED
  - E. 4 #5 x 21'-0" LONG (TOP), HOOKED
  - F. 6 #5 x 21'-0" LONG (TOP), HOOKED
  - G. 12 #5 x 21'-0" LONG (TOP), HOOKED
  - H. #5 @ 12" (TOP & BOTTOM)
  - I. 13 #5 x 15'-0" LONG (TOP)
  - J. 21 #5 x 13'-0" LONG (TOP)
  - K. 12 #5 x 17'-0" LONG (TOP)
  - L. #4 x 30'-6" @ 12" OC (BOTTOM), HOOKED
  - M. #4 x 5'-0" @ 18" OC (BOTTOM), HOOKED - TYPICAL AT SLAB INTERIOR/EXTERIOR PERIMETERS
  - N. 18 #5 x 13'-0" LONG (TOP)
  - O. 18 #5 x 21'-0" LONG TOP, HOOKED



ISOMETRIC KEY PLAN - ROOF

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CONSULTANTS:

CLIENT:

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VILLAGE ON PARK PARKING STRUCTURE AND SITE IMPROVEMENTS

808 HUGHES PLACE
MADISON, WI 53713

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APPROVED BY:	DFW
SCALE:	AS NOTED

SHEET TITLE:

ROOF FRAMING PLAN

SHEET NUMBER:

S107

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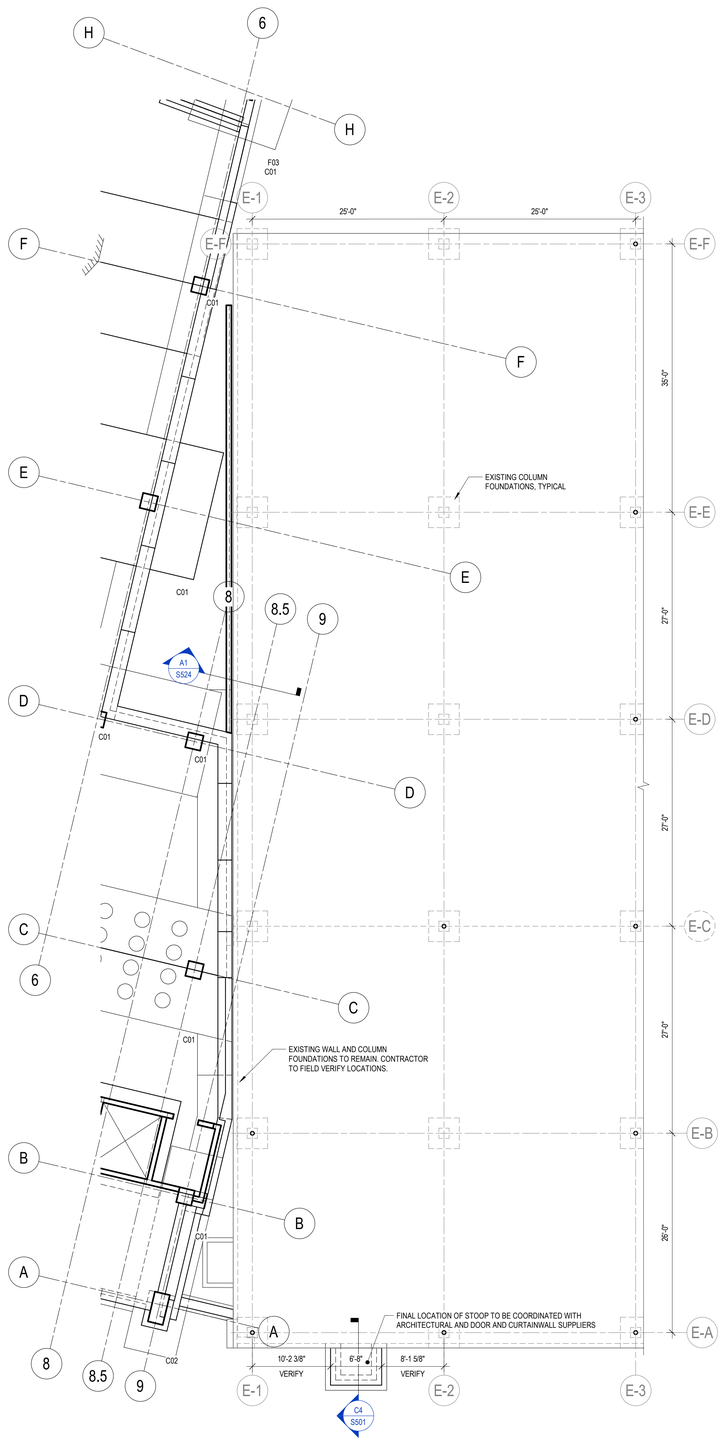
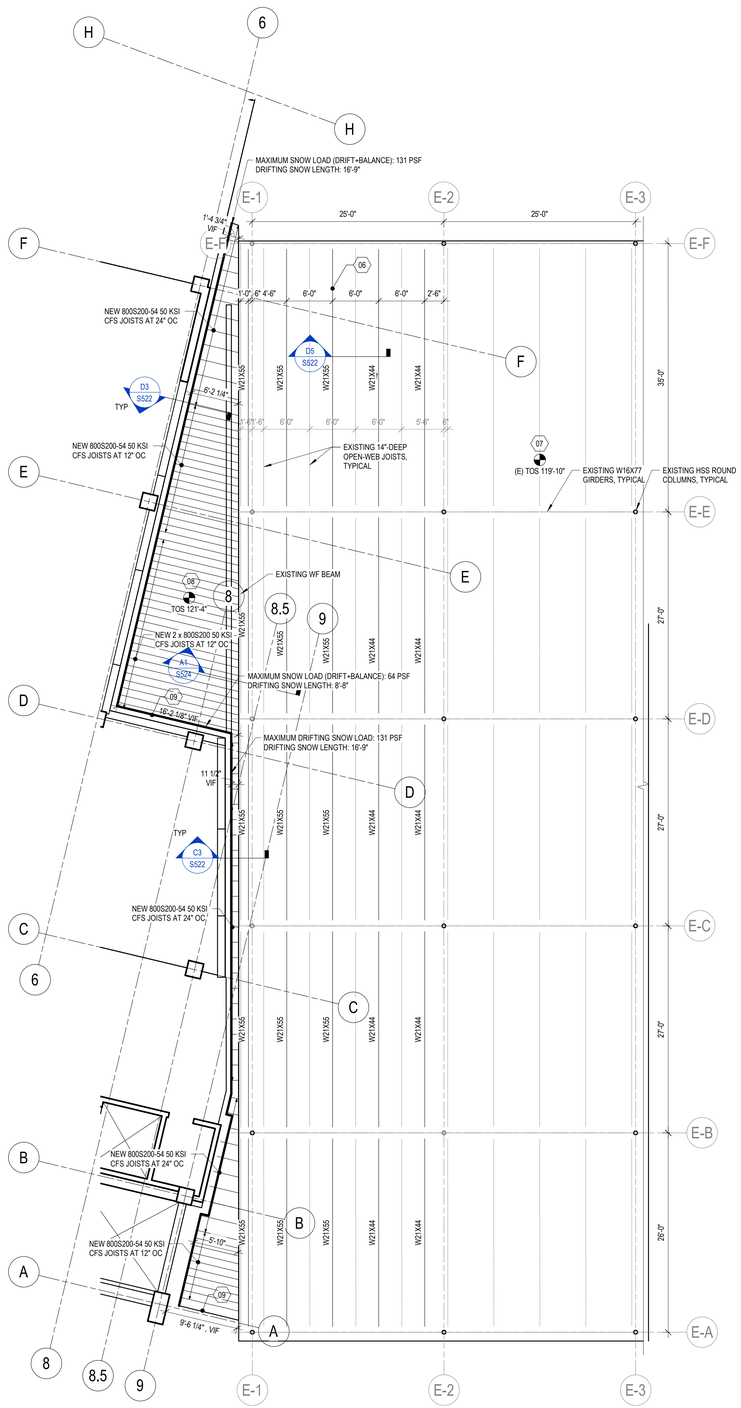


A1 LEVEL ONE EXISTING FOUNDATION PLAN

1/8" = 1'-0"



A3 EXISTING ROOM FRAMING PLAN

1/8" = 1'-0"

GENERAL SHEET NOTES

- EXISTING STRUCTURE CONSTRUCTED OF METAL ROOF DECK ON OPEN-WEB BAR JOISTS, SEE PLAN.
- TOP OF STEEL ELEVATIONS AS NOTED ON PLAN.
- SEE "S522 - STRUCTURAL DETAILS" SHEET FOR THE FOLLOWING DETAILS:
  - TYPICAL WELDED BEAM SPLICE
  - TYPICAL CONNECTION OF BEAM TO WF GIRDER
  - TYPICAL JOIST TO WF BEAM TRANSFER DETAIL
- EXISTING SUSPENDED CEILING, ELECTRICAL, MECHANICAL, AND PLUMBING COMPONENTS TO BE TEMPORARILY REMOVED AND REINSTALLED WITHIN AFFECTED ZONE OF EXISTING COMMERCIAL SPACE TO FACILITATE INSTALLATION OF NEW STRUCTURAL STEEL MEMBERS AND DETAILS.
- EXISTING BUILDING NOTE: INFORMATION PERTAINING TO THE EXISTING CONDITIONS PROVIDED IN THESE CONSTRUCTION DOCUMENTS REPRESENTS, TO THE BEST OF THE KNOWLEDGE OF THE ENGINEER, ACTUAL, EXISTING FIELD CONDITIONS. DIMENSIONS OF EXISTING CONSTRUCTION SHALL BE FIELD VERIFIED AND COORDINATED PRIOR TO THE FABRICATION OF STRUCTURAL COMPONENTS. DISCREPANCIES BETWEEN THESE DRAWINGS AND FIELD CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR REVIEW. ANY WORK PERFORMED PRIOR TO RESOLUTION OF DISCREPANCIES BY THE ARCHITECT/ENGINEER IS SUBJECT TO REMOVAL AND REPLACEMENT AT NO ADDITIONAL COST TO THE CONTRACT. EXISTING STRUCTURAL COMPONENTS ARE SHOWN AS HALFTONE. FIELD VERIFY THAT ALL EXISTING STRUCTURAL COMPONENTS MATCH EXISTING PLANS.
- CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, ERECTION AND SEQUENCING OF ALL TEMPORARY SHORING. ALL LOCATIONS OF TEMPORARY BRACING, SHORING AND UNDERPINNING IS TO BE DETERMINED BY THE CONTRACTOR AND THE CONTRACTORS ENGINEER. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- THE CURRENT TENANTS LEASE EXPIRES ON AUGUST 31ST 2023, THEREFORE THE WORK SHALL NOT COMMENCE UNTIL THEY VACATE THE SPACE.
- IN ORDER TO TURN AROUND THE SPACE TO THE PROSPECTIVE NEW GROCERY TENANT THE STRUCTURAL ROOF SUPPORT WORK IN THE GROUCERY STORE SHALL OCCUR SHORTLY AFTER SEPTEMBER 1, 2023 AND SAID WORK AND THE RESTORATION OF THE SPACE SHOULD BE COMPLETED IN A TIMELY MANNER TO MINIMIZE AND DOWN TIME.

SHEET KEYNOTES

06 BEAM SPLICES AT CONTRACTOR'S OPTION, TYPICAL. SPLICED SECTIONS SHALL BE NO LESS THAN 5'-0".
07 EXISTING 1" ROOF DECK AND INSULATION.
08 NEW 1 1/2" 20GA ROOF DECK WITH SLOPING INSULATION. FASTEN WITH #12 TEK SCREWS IN 36/4 PATTERN.
09 PROVIDE CONTINUOUS GALVANIZED L3x3x5/16" FOR DECK BEARING. FASTEN TO CMU OR CONCRETE WALL USING 1/2" DIA x 4" LONG HILTI KWIK EZ CONCRETE SCREW ANCHORS AT 16" OC MAX.

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SHEET TITLE:

EXISTING BUILDING FOUNDATION & ROOF PLAN

SHEET NUMBER:

S108

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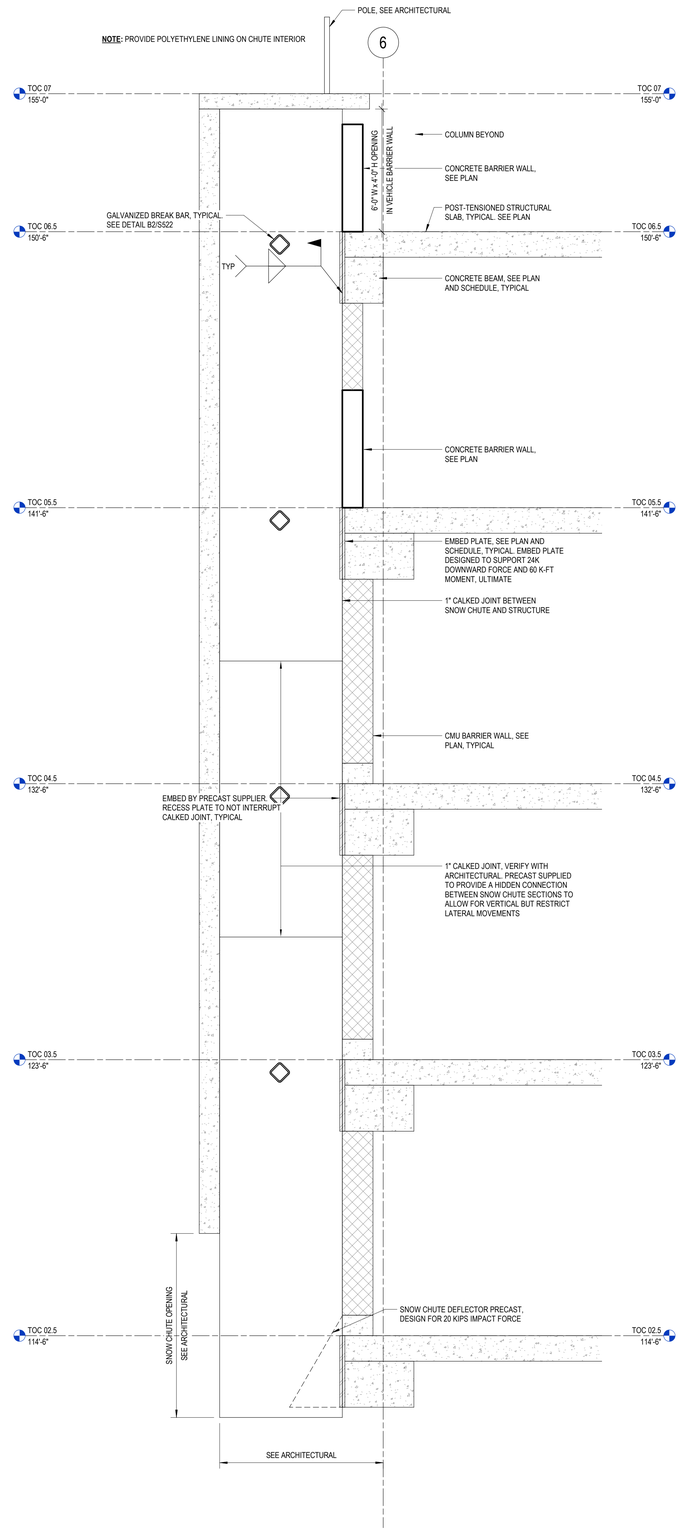

A5 SECTION THROUGH SNOW CHUTE

1/2" = 1'-0"

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SHEET TITLE:

BUILDING SECTIONS

SHEET NUMBER:

S201

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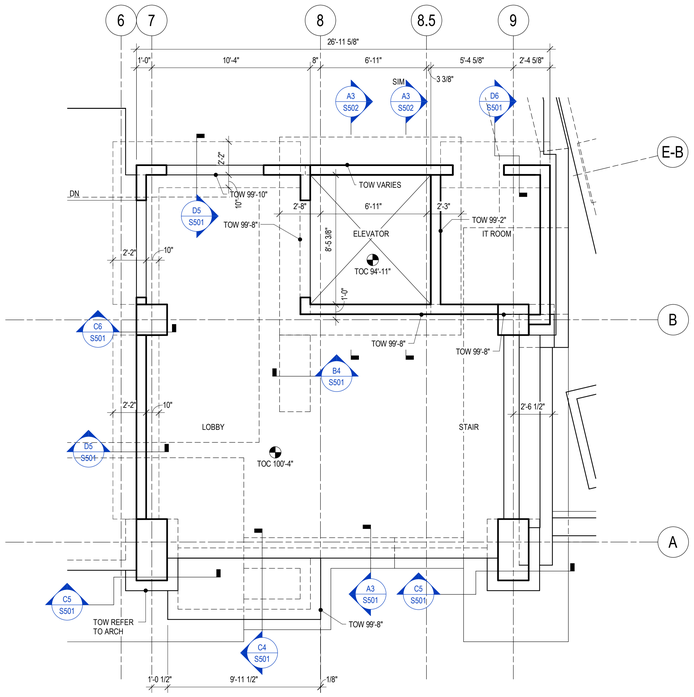
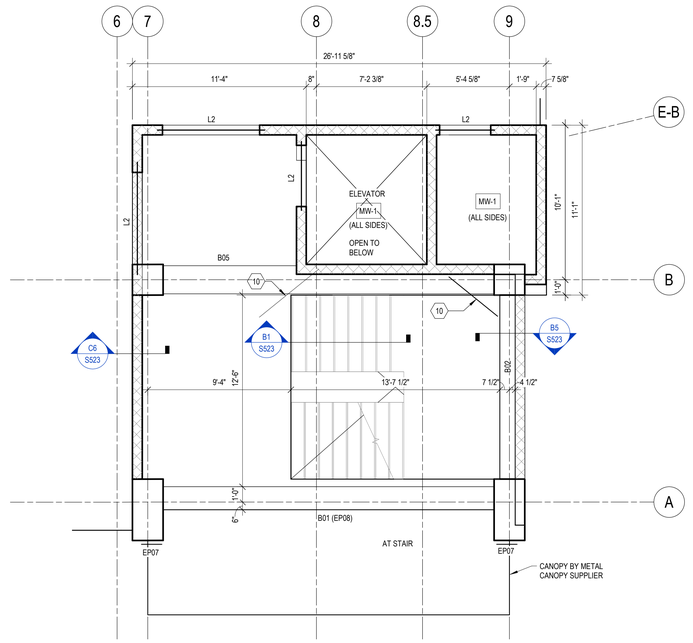


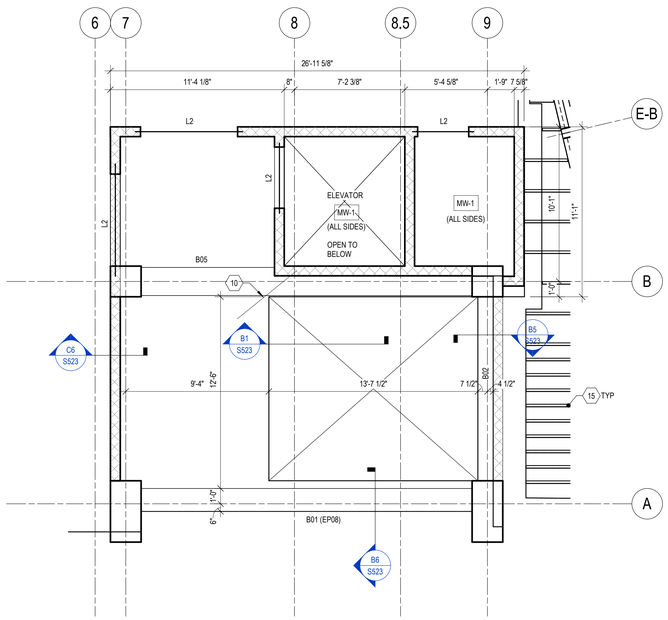
C1 NORTH STAIR AND ELEVATOR LOBBY - LEVEL ONE

1/4" = 1'-0"



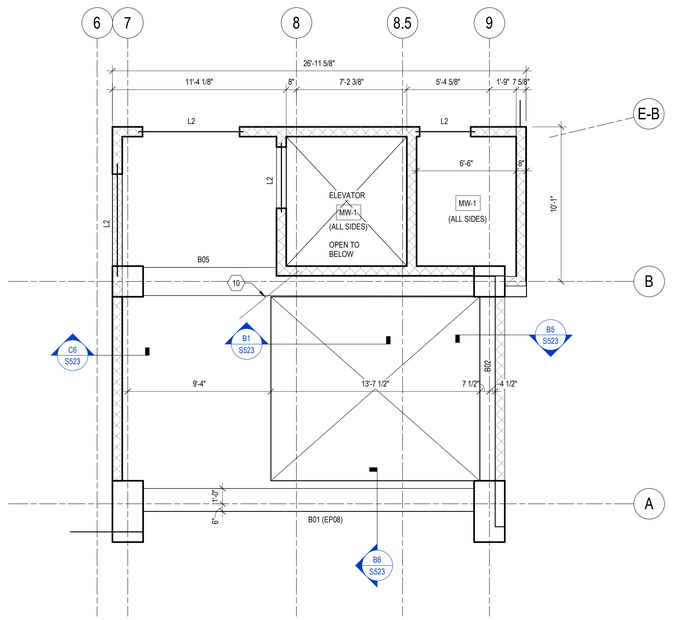
C3 NORTH STAIR AND ELEVATOR LOBBY - LEVEL TWO

1/4" = 1'-0"



A1 NORTH STAIR AND ELEVATOR LOBBY - LEVEL THREE

1/4" = 1'-0"



A3 NORTH STAIR AND ELEVATOR LOBBY - LEVEL FOUR

1/4" = 1'-0"

GENERAL SHEET NOTES

- TYPICAL FLOOR = 10" TWO-WAY FLAT SLAB. ADDITIONAL TOP AND BOTTOM BARS AS NOTED ON PLAN. PROVIDE STANDARD 90-DEGREE HOOK ON ALL BARS THAT TERINATE NEAR SLAB EDGE
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- NO RECESSED AREAS IN SLAB ARE ALLOWED WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.

SHEET KEYNOTES

10 (2)#4 x 5'-0" LONG LOCATED 1" BELOW TOP OF SLAB. PROVIDE AT ALL SLAB RE-ENTRANT CORNERS. ALL LOCATIONS NOT SHOWN ON PLAN.

15 COLD-FORM STEEL JOISTS REFER TO A3/S108.

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ENLARGED FLOOR PLANS

SHEET NUMBER:

S400

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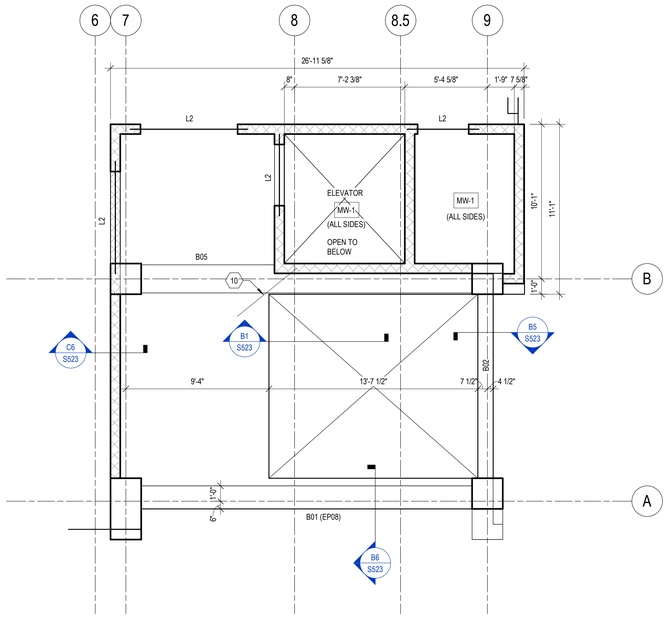
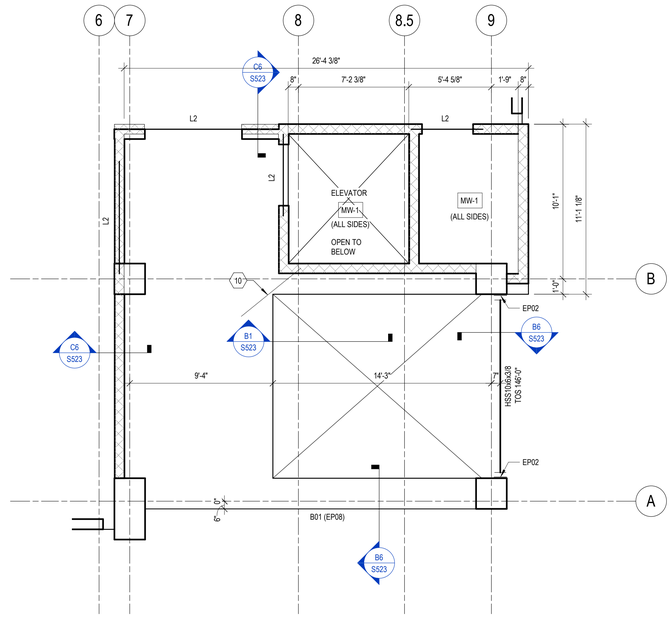


C1 NORTH STAIR AND ELEVATOR LOBBY - LEVEL FIVE

1/4" = 1'-0"



C3 NORTH STAIR AND ELEVATOR LOBBY - LEVEL SIX

1/4" = 1'-0"

GENERAL SHEET NOTES

- TYPICAL FLOOR = 10" TWO-WAY FLAT SLAB. ADDITIONAL TOP AND BOTTOM BARS AS NOTED ON PLAN. PROVIDE STANDARD 90-DEGREE HOOK ON ALL BARS THAT TERINATE NEAR SLAB EDGE
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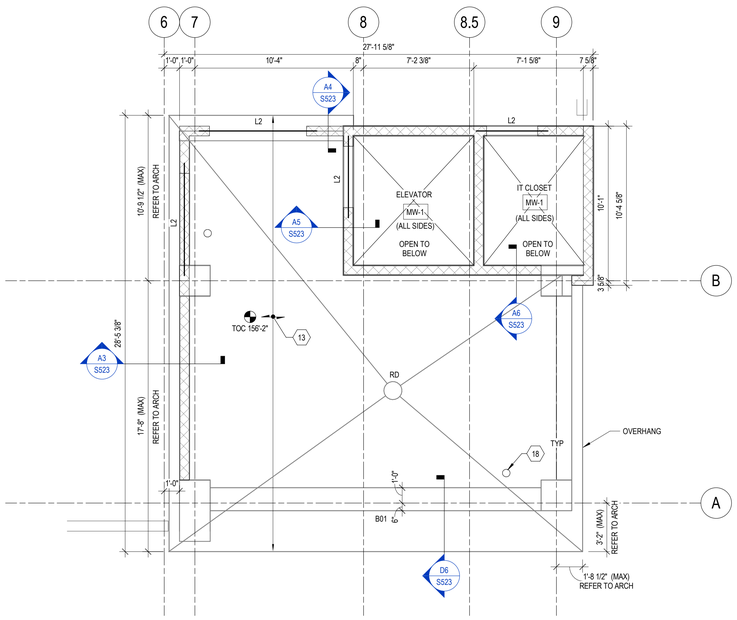
- NO RECESSED AREAS IN SLAB ARE ALLOWED WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.

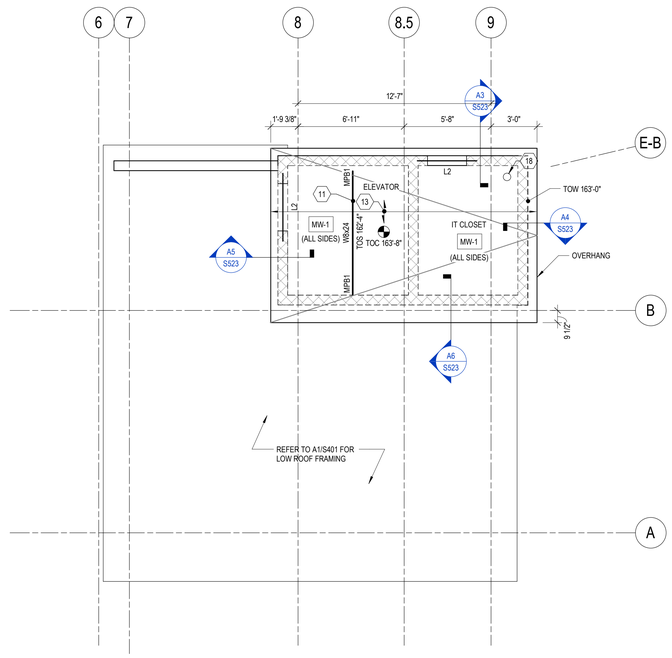
SHEET KEYNOTES

10 (2)#4 x 5'-0" LONG LOCATED 1" BELOW TOP OF SLAB. PROVIDE AT ALL SLAB RE-ENTRANT CORNERS. ALL LOCATIONS NOT SHOWN ON PLAN.
11 ELEVATOR SAFETY/HOIST BEAM. VERIFY LOCATION AND ORIENTATION WITH ELEVATOR SUPPLIER.
13 8" THICK HOLLOW CORE PRECAST PLANK. HOLLOW CORE PRECAST PLANK SUPERIMPOSED DEAD LOAD OF 15 PSF. SUPERIMPOSED ROOF LIVE LOAD OF 20 PSF.
18 PREFABRICATED ROOF ANCHOR/DAVIT, COORDINATE WITH OWNER'S VENDOR AND PRECAST SUPPLIER.



A1 NORTH STAIR AND ELEVATOR LOBBY - ROOF

1/4" = 1'-0"



A3 NORTH STAIR AND ELEVATOR LOBBY - HIGH ROOF

1/4" = 1'-0"

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ENLARGED FLOOR PLANS

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S401

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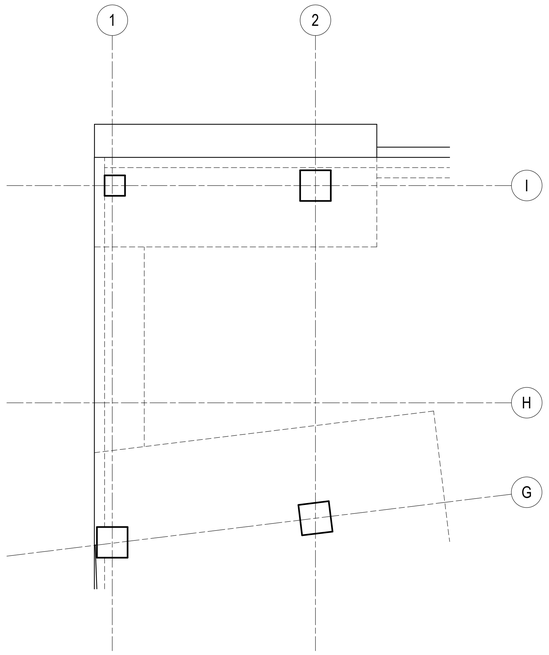
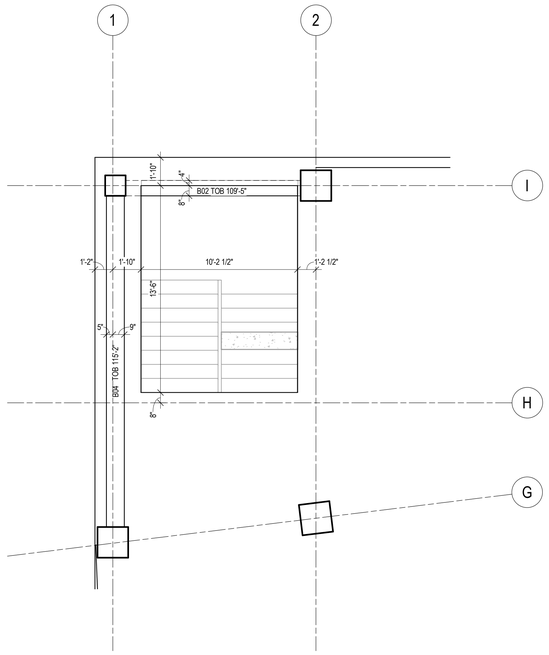
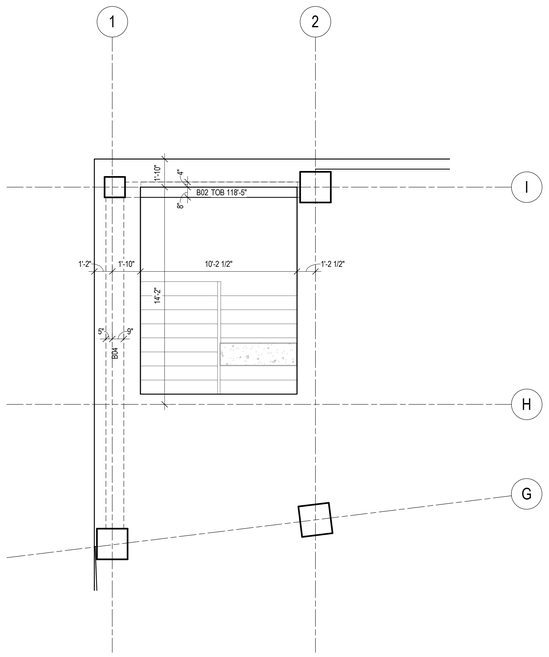


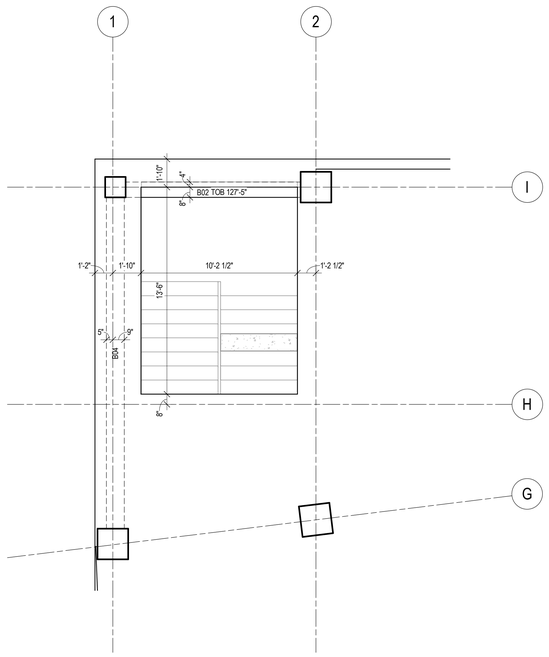
C1 SOUTH STAIR - LEVEL ONE
1/4" = 1'-0"



C3 SOUTH STAIR- LEVEL TWO
1/4" = 1'-0"



A1 SOUTH STAIR - LEVEL THREE
1/4" = 1'-0"



A3 SOUTH STAIR - LEVEL FOUR
1/4" = 1'-0"

GENERAL SHEET NOTES

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ENLARGED FLOOR PLANS

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S402

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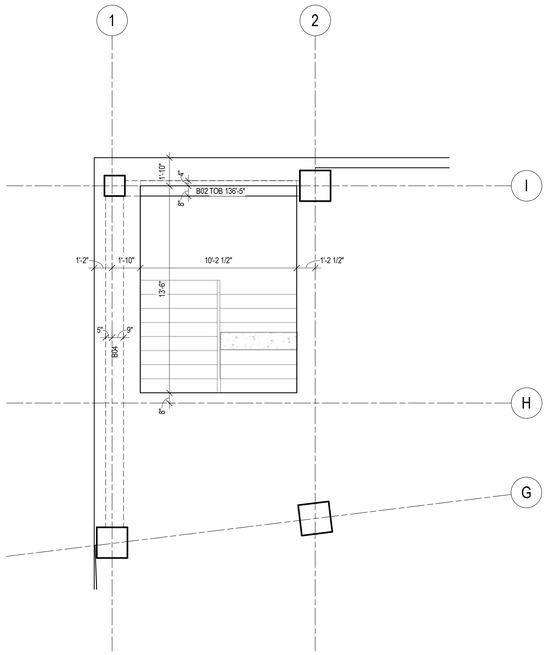
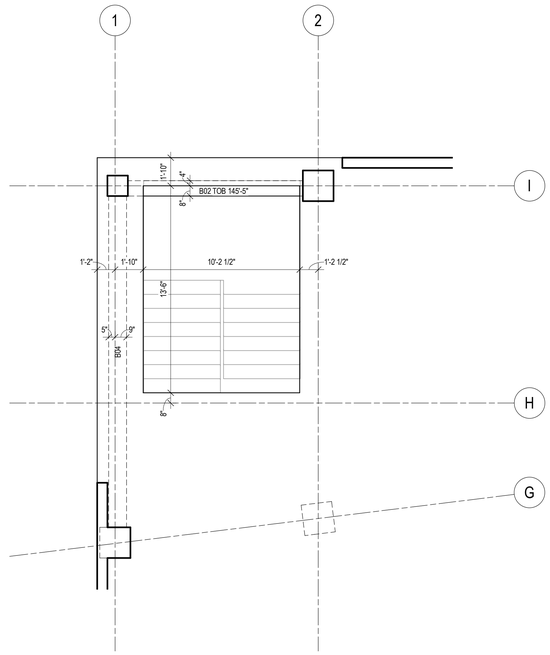


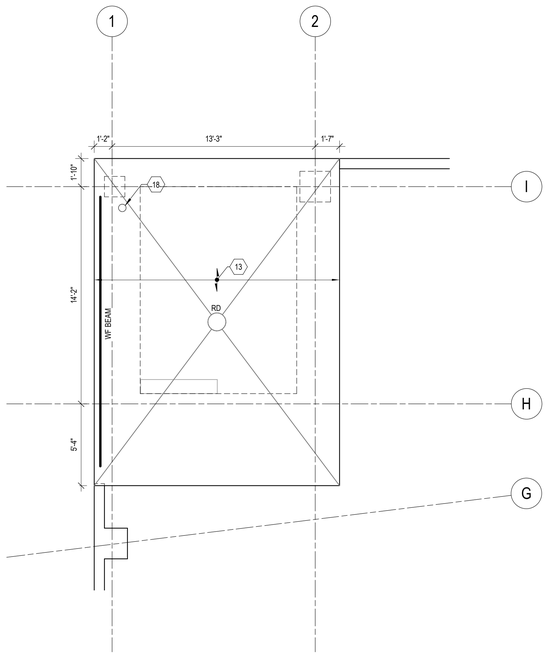
C1 SOUTH STAIR - LEVEL FIVE

1/4" = 1'-0"



C3 SOUTH STAIR - LEVEL SIX

1/4" = 1'-0"



A1 SOUTH STAIR - ROOF

1/4" = 1'-0"

GENERAL SHEET NOTES

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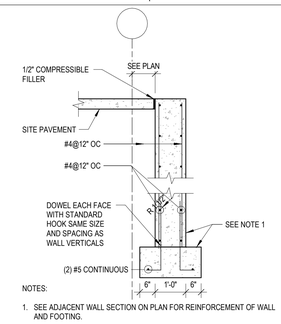
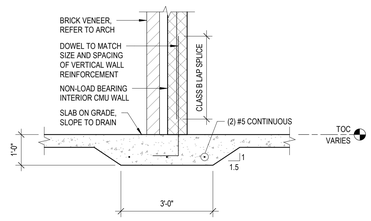


NOTES:

1. SEE ADJACENT WALL SECTION ON PLAN FOR REINFORCEMENT OF WALL AND FOOTING.

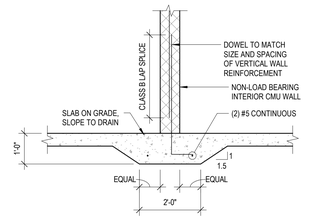
D4 DETAIL

1/2" = 1'-0"



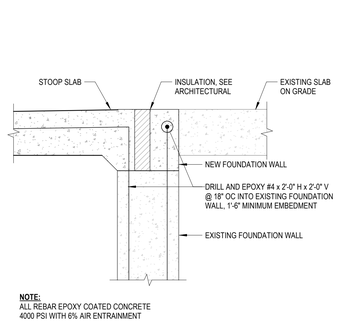
D5 CMU WALL ON SLAB ON GRADE

1/2" = 1'-0"



D6 CMU WALL ON SLAB ON GRADE

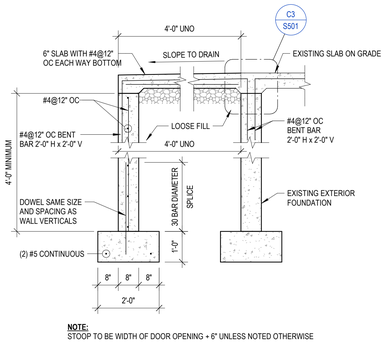
1/2" = 1'-0"



NOTE:
ALL REBAR EPOXY COATED CONCRETE
4000 PSI WITH 6% AIR ENTRAINMENT

C3 THRESHOLD DETAIL AT NEW STOOP

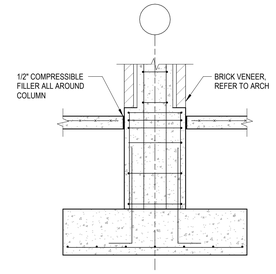
1 1/2" = 1'-0"



NOTE:
STOOP TO BE WIDTH OF DOOR OPENING + 6" UNLESS NOTED OTHERWISE

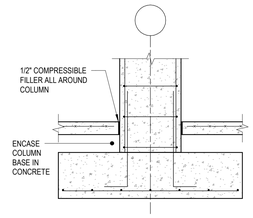
C4 TYPICAL STOOP DETAIL

1/2" = 1'-0"



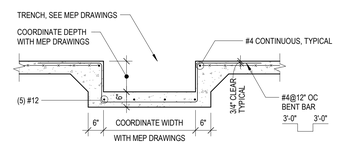
C5 DETAIL

1/2" = 1'-0"



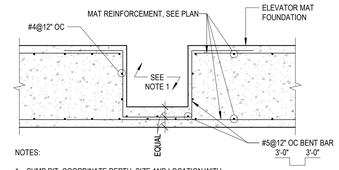
C6 DETAIL

1/2" = 1'-0"



B2 DETAIL

1/2" = 1'-0"

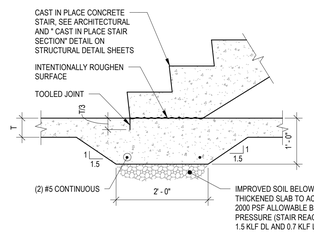


NOTES:

1. SUMP PIT, COORDINATE DEPTH, SIZE AND LOCATION WITH PLUMBING DRAWINGS.

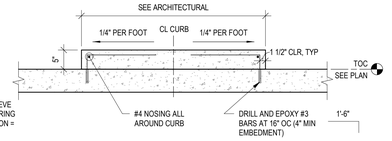
B3 DETAIL

1/2" = 1'-0"



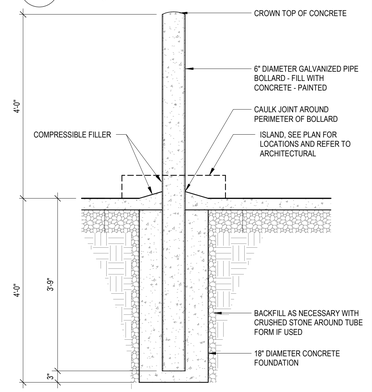
B4 THICKENED SLAB AT STAIR

3/4" = 1'-0"



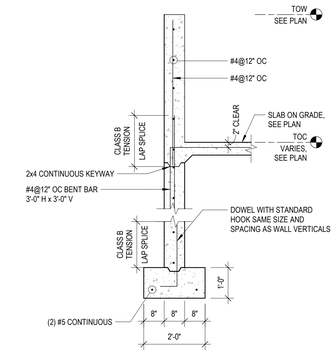
B5 TYPICAL CURB DETAIL

3/4" = 1'-0"



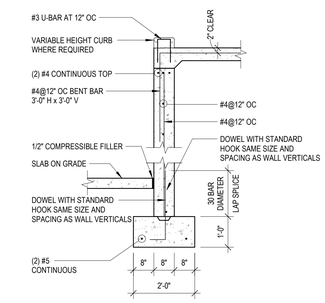
B6 BOLLARD DETAIL AT GRADE

3/4" = 1'-0"



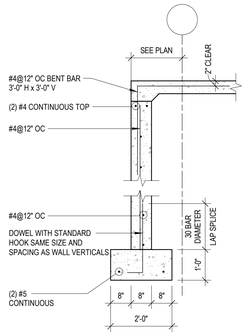
A1 DETAIL

1/2" = 1'-0"



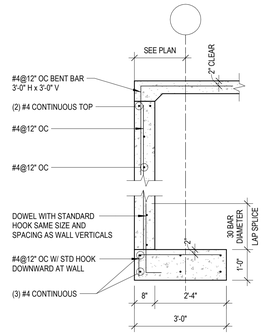
A2 DETAIL

1/2" = 1'-0"



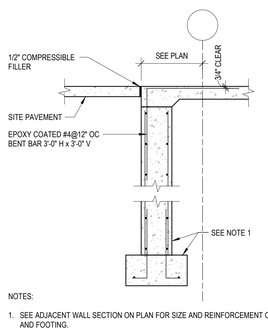
A3 DETAIL

1/2" = 1'-0"



A4 DETAIL

1/2" = 1'-0"

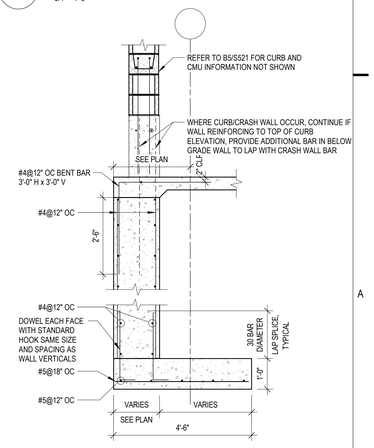


NOTES:

1. SEE ADJACENT WALL SECTION ON PLAN FOR SIZE AND REINFORCEMENT OF WALL AND FOOTING.

A5 DETAIL

1/2" = 1'-0"



A6 DETAIL

1/2" = 1'-0"

GRAEF

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CONSULTANTS:

CLIENT:

Community Development Authority of the City of Madison

Madison Municipal Building
215 Martin Luther King Jr Blvd
Suite 161
Madison, WI 53703

PROJECT TITLE:

VILLAGE ON PARK PARKING STRUCTURE AND SITE IMPROVEMENTS

808 HUGHES PLACE
MADISON, WI 53713

ISSUE:

07/28/2023 BID DOCUMENTS

PROJECT INFORMATION:

PROJECT NUMBER:	20225013.00
DATE:	07/28/2023
DRAWN BY:	JL
CHECKED BY:	AMG
APPROVED BY:	DFW
SCALE:	AS NOTED

SHEET TITLE:

FOUNDATION DETAILS

SHEET NUMBER:

S501

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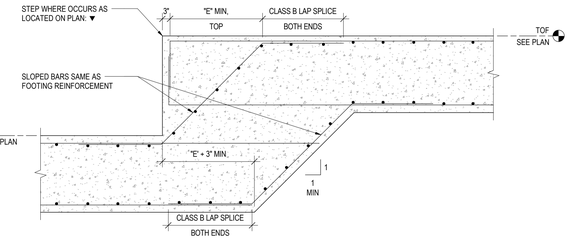
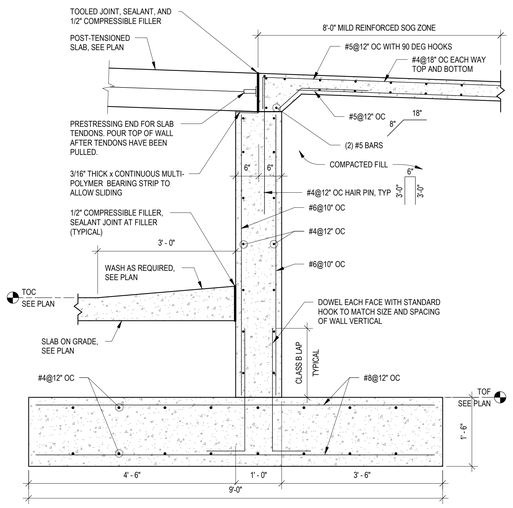
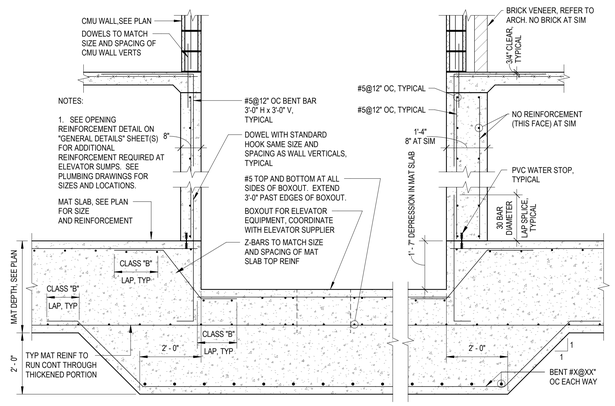


NOTES:
1. "E" = DEVELOPMENT LENGTH OF TYPICAL FOOTING REINFORCEMENT. PROVIDE 90 DEGREE OR 180 DEGREE STANDARD HOOK, TYPICAL.

B5 S502-B5
1/2" = 1'-0"





A3 TYPICAL ELEVATOR PIT DETAIL
1/2" = 1'-0"

A5 SECTION AT SOG TO PT SLAB TRANSITION
3/4" = 1'-0"

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FOUNDATION DETAILS

SHEET NUMBER:
S502

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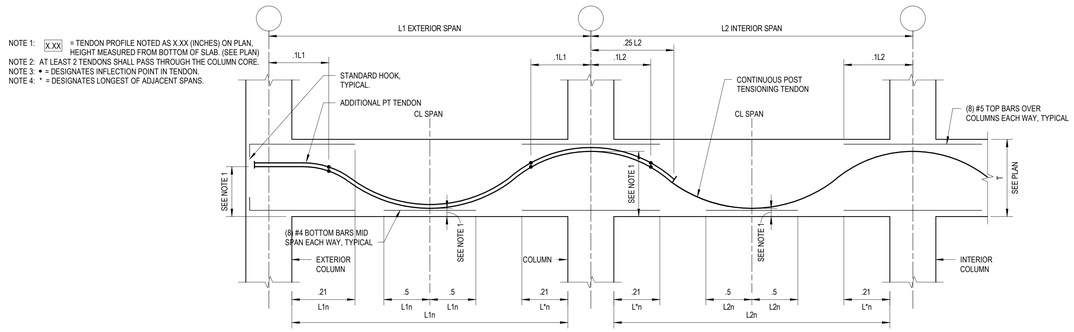
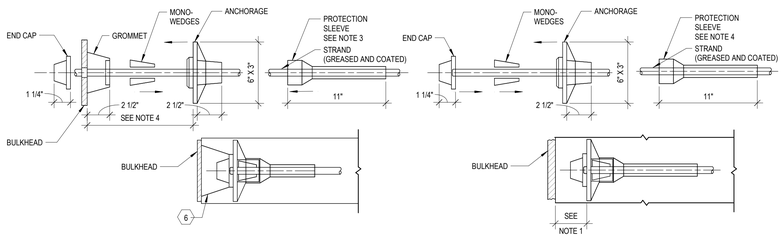


D1 TYPICAL POST TENSIONED SLAB DETAIL

3/8" = 1'-0"



STRESSING END ASSEMBLY

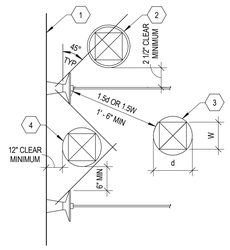
NOTES:
1. LOCATE ANCHOR AT BULKHEAD PER APPROVED SHOP DWGS.
2. INSTALL GROMMET FLUSH BETWEEN BULKHEAD AND ANCHOR FOR TIGHT SEAL.
3. APPLY ADDITIONAL PT GREASE AND THEN SLIDE SLEEVE TIGHT AGAINST ANCHOR, BE SURE NO BARE STRAND IS EXPOSED. TAPE IF NECESSARY.
4. AFTER CONCRETING, AT TIME OF STRESSING, REMOVE GROMMET AND INSERT WEDGES.
5. AFTER STRESSING, CUT STRAND TO WITHIN 1/8" OF END CAP AND GREASE END CAP PRIOR TO INSERTING IT TIGHT AGAINST ANCHOR.
6. PATCH STRESSING POCKET PER PROJECT REQUIREMENTS.
7. VERIFY ALL HARDWARE DIMENSIONS WITH APPROVED SHOP DRAWINGS.

DEAD END ASSEMBLY

NOTES:
1. LOCATE ANCHOR AT BULKHEAD PER APPROVED SHOP DWGS.
2. IF FABRICATED AT SHOP, WEDGES, GREASE CAP AND SLAB WILL BE ASSEMBLED TIGHT TO ANCHOR.
3. IF FIELD SEATING IS REQUIRED, BE SURE ALL COMPONENTS ARE TIGHT TO ANCHOR, BE SURE NO BARE STRAND IS EXPOSED. TAPE IF NECESSARY.
4. APPLY ADDITIONAL PT GREASE PRIOR TO SLIDING THE SLEEVE.
5. VERIFY ALL HARDWARE DIMENSIONS WITH APPROVED SHOP DWGS.

C1 STRESSING END ASSEMBLY AND DEAD END ENCAPSULATION ASSEMBLY DETAIL

1/2" = 1'-0"



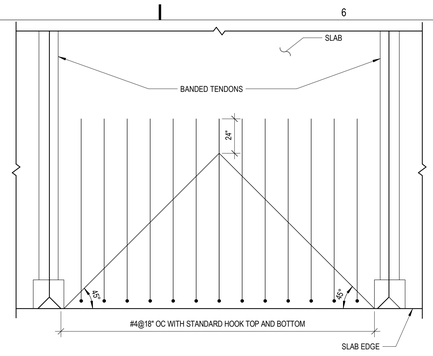
1. SLAB EDGE.
2. STEEL PIPE INSERT (SCHEDULE 40) IS REQUIRED WHEN SLAB PENETRATION IS WITHIN 45° BEARING CONE OF TENDON ANCHOR.
3. PENETRATION FARTHER THAN 1.5 TIMES THE PENETRATIONS DIAMETER OR WIDTH, BUT NOT LESS THAN 18" MINIMUM FROM ANCHOR, DO NOT REQUIRE STEEL PIPE INSERTS.
4. FOR SLAB PENETRATIONS NOT WITHIN 45° BEARING CONE OF TENDON ANCHOR IN AREA AS SHOWN, DO NOT REQUIRE STEEL PIPE INSERTS.

NOTE:
- FOR ANY PENETRATIONS WITH DIMENSIONS GREATER THAN 12", FOLLOW THE REINFORCING REQUIREMENTS AROUND TYPICAL OPENING IN POST-TENSIONED CONCRETE SLAB.

- THIS DETAIL DOES NOT APPLY TO PENETRATIONS LESS THAN 10 TIMES THE SLAB THICKNESS FROM COLUMN FACE OR DROP.

D4 PENETRATIONS NEAR TENDON ANCHORS IN POST TENSIONED SLAB DETAIL

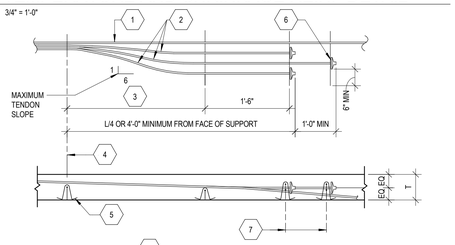
1/2" = 1'-0"



(AT CONTRACTORS OPTION, PROVIDE ADDITIONAL DISTRIBUTED TENDONS AT MID-DEPTH INSTEAD OF #4's)

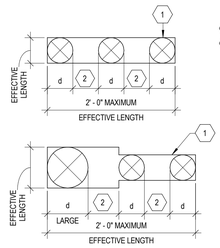
D5 TEMPERATURE AND SHRINKAGE REINF DETAIL

3/4" = 1'-0"



KEYNOTES SHOWN THUS

1. CONTINUOUS TENDON.
2. ADDED TENDONS.
3. SUPPORT BARS @ 48" OC MAXIMUM
4. CENTERLINE OF SUPPORT.
5. CHAIR (TYPICAL)
6. STAGGER DEAD END ANCHORAGES WHEN MORE THAN TWO ARE PLACED IN ONE LOCATION
7. 2-#4 CONTINUOUS MINIMUM BACK-UP BARS (TYPICAL)



1. OUTLINE OF EFFECTIVE OPENINGS, TYPICAL
2. THE DISTANCE BETWEEN SLAB OPENINGS IS GREATER THAN 4" (3/4" CLEAR COVER MINIMUM) AND LESS THAN OR EQUAL TO THE SLAB THICKNESS. THIS DETAIL IS NOT REQUIRED WHERE THE DISTANCE BETWEEN OPENINGS IS GREATER THAN OR EQUAL TO THE SLAB THICKNESS.

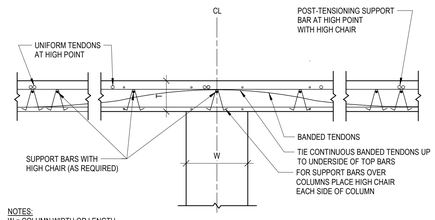
NOTE:
ALL CONDITIONS SHOWN NEED 1-#5 TOP AND BOTTOM TRIM BARS ALL AROUND EFFECTIVE OPENING WITH 12" EMBEDMENT PAST THE OPENING EDGE. DIAGONAL BARS ARE NOT NECESSARY AT THESE CONDITIONS. IF THE EFFECTIVE LENGTH OR WIDTH OF AN OPENING IS LARGER THAN 24", FOLLOW REINFORCING REQUIREMENTS AROUND TYPICAL OPENING IN POST-TENSIONED CONCRETE SLAB.
THIS DETAIL DOES NOT APPLY TO PENETRATIONS LESS THAN 10X THE SLAB THICKNESS FROM A COLUMN FACE OR DROP.
NO TENDONS OR MILD REINFORCING IS TO BE DISPLACED.

C4 MULTIPLE SLAB OPENINGS IN POST TENSIONED SLAB DETAIL

1/2" = 1'-0"

C5 ADDED TENDON ANCHORAGES IN POST TENSION SLAB DETAIL

1/2" = 1'-0"

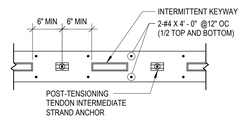


NOTES:
W = COLUMN WIDTH OR LENGTH
T = DEPTH OF SLAB

2 TENDONS MINIMUM TO PASS DIRECTLY OVER COLUMN EACH WAY.

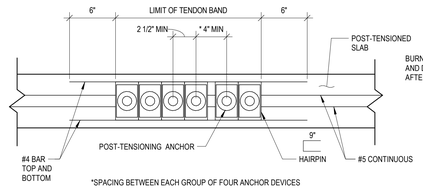
B2 REINF LAYOUT AT INTERIOR SUPPORTS DETAIL

1/2" = 1'-0"



B3 INTERMEDIATE CJ DETAIL

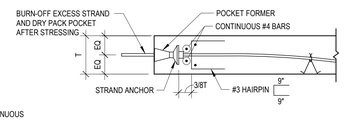
1/2" = 1'-0"



*SPACING BETWEEN EACH GROUP OF FOUR ANCHOR DEVICES

B4 REINF OF TENDON BAND DETAIL

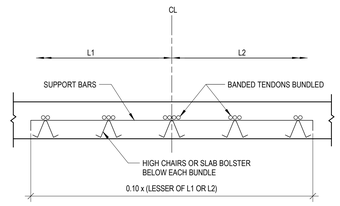
1 1/2" = 1'-0"



SEE ADDITIONAL DETAILS BELOW FOR ENCAPSULATION SYSTEM

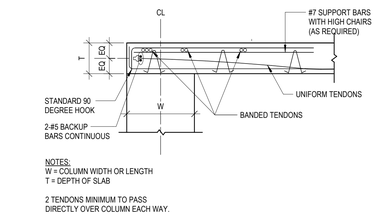
B5 STRESSING END DETAIL

1/2" = 1'-0"



B6 BANTED TENDON GROUP DETAIL

1/2" = 1'-0"

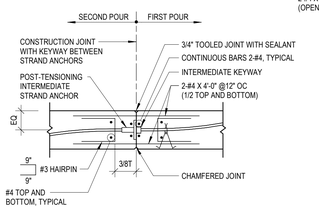


NOTES:
W = COLUMN WIDTH OR LENGTH
T = DEPTH OF SLAB

2 TENDONS MINIMUM TO PASS DIRECTLY OVER COLUMN EACH WAY.

A2 REINF LAYOUT AT EXTERIOR SUPPORTS DETAIL

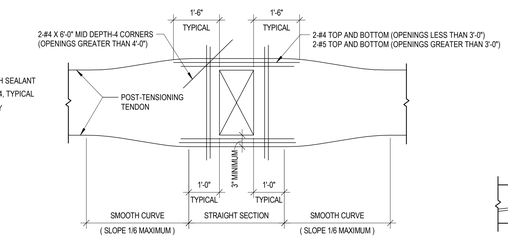
1/2" = 1'-0"



SEE ADDITIONAL DETAILS FOR ENCAPSULATION SYSTEM

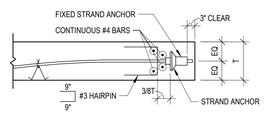
A3 INTERMEDIATE STRESSING AT TENDONS DETAIL

1/2" = 1'-0"



A4 POST TENSIONEDSLAB OPENING DETAIL

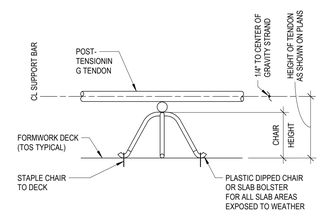
1/2" = 1'-0"



SEE ADDITIONAL DETAILS FOR ENCAPSULATION SYSTEM

A5 NON STRESSING END DETAIL

1/2" = 1'-0"



A6 TENDON SUPPORT DETAIL

1/2" = 1'-0"

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SCALE:	AS NOTED

SHEET TITLE:

POST-TENSIONING DETAILS

SHEET NUMBER:

S511

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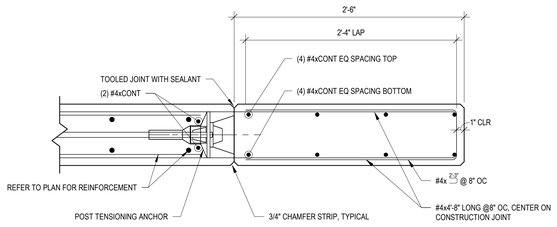
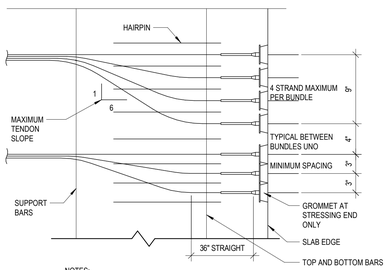


NOTES:
1) DO NOT PLACE CONCRETE POUR STRIP FOR A MINIMUM OF 30 DAYS.

A1 PERIMETER POST TENSIONED SLAB POUR STRIP DETAIL
1 1/2" = 1'-0"

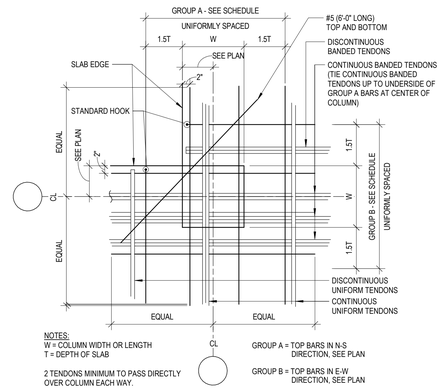


NOTES:

1. SEE TYPICAL POST-TENSIONING DETAILS 3 AND 4 THIS SHEET.

2. SEE PLAN FOR NON-TYPICAL TOP BARS.

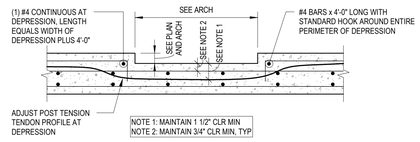
A3 FLAIRING OF BANDED TENDONS AT SLAB EDGE DETAIL
1 1/2" = 1'-0"



NOTES:
W = COLUMN WIDTH OR LENGTH
T = DEPTH OF SLAB

2 TENDONS MINIMUM TO PASS DIRECTLY OVER COLUMN EACH WAY.

A4 PLAN DETAIL FOR RE-ENTRANT CORNERS
1/2" = 1'-0"



NOTE 1: MAINTAIN 1 1/2" CLR MIN
NOTE 2: MAINTAIN 3/4" CLR MIN, TYP

A5 TYPICAL SLAB DEPRESSION
1" = 1'-0"

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SCALE:	AS NOTED

SHEET TITLE:

POST-TENSIONING DETAILS

SHEET NUMBER:

S512

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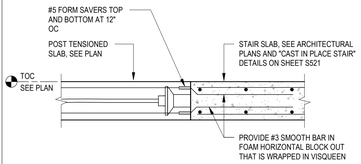
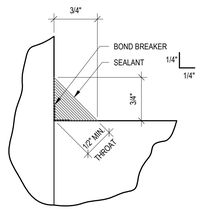
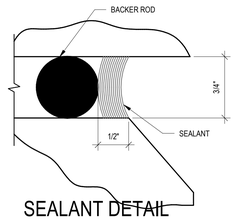


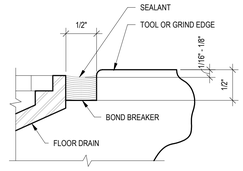
D1 PT SLAB TO STAIR LANDING DETAIL
3/4" = 1'-0"



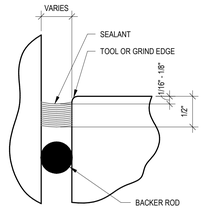
D2 SEALANT DETAIL
12" = 1'-0"



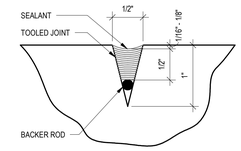
D3 SEALANT DETAIL (VERTICAL JOINT)
12" = 1'-0"



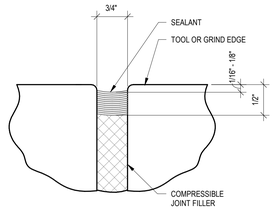
D4 SEALANT DETAIL
12" = 1'-0"



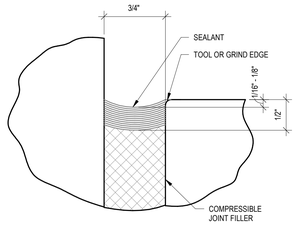
D5 SEALANT DETAIL
12" = 1'-0"



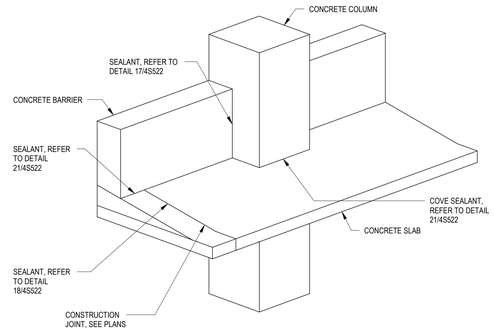
D6 SEALANT DETAIL
12" = 1'-0"



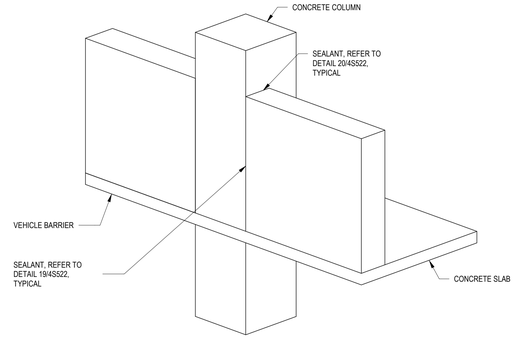
C1 SEALANT DETAIL
12" = 1'-0"



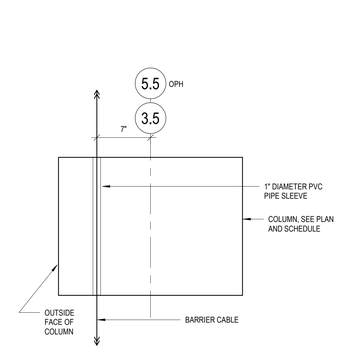
C2 SEALANT DETAIL
12" = 1'-0"



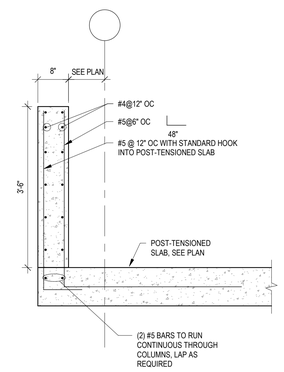
C3 SEALANT ISOMETRIC EXTERIOR COLUMN DETAIL
3/8" = 1'-0"



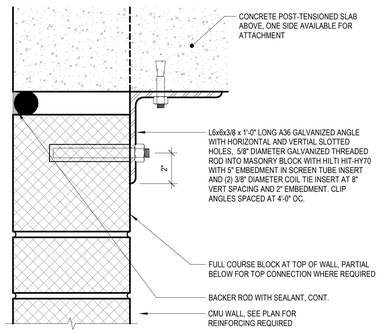
C5 SEALANT ISOMETRIC EXTERIOR COLUMN DETAIL
3/8" = 1'-0"



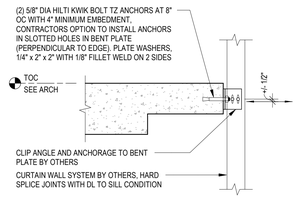
B1 CABLE RAIL THRU COLUMN
1 1/2" = 1'-0"



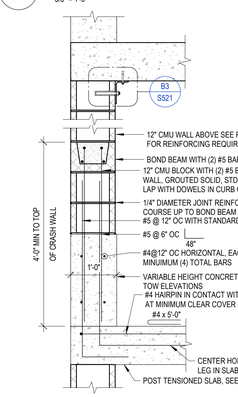
B2 VEHICLE BARRIER
3/4" = 1'-0"



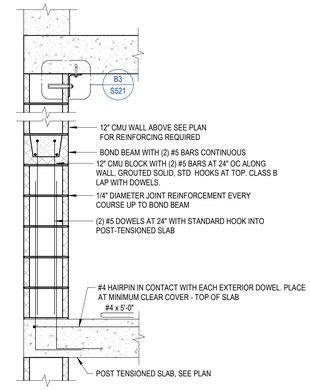
B3 MASONRY WALL BRACING ONE SIDE AVAILABLE
3" = 1'-0"



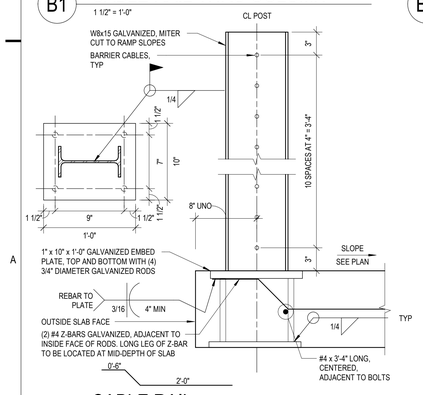
B4 CURTAIN WALL ATTACHMENT AT STAIR TREADS
1" = 1'-0"



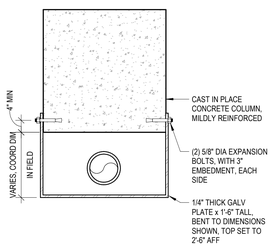
B5 CMU CRASH WALL
3/4" = 1'-0"



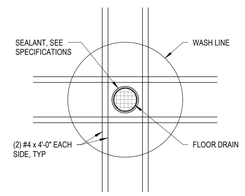
B6 CMU CRASH WALL
3/4" = 1'-0"



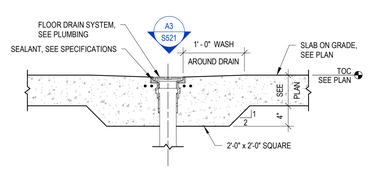
A1 CABLE RAIL INTERMEDIATE POST DETAIL
1 1/2" = 1'-0"



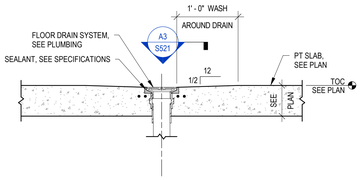
A2 PIPE/CONDUIT PROTECTION
1" = 1'-0"



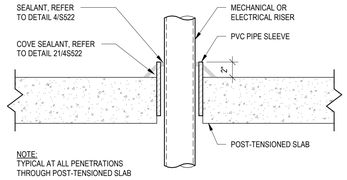
A3 FLOOR DRAIN DETAIL
3/4" = 1'-0"



A4 FLOOR DRAIN DETAIL AT SLAB ON GRADE
1" = 1'-0"



A5 FLOOR DRAIN DETAIL @ ELEVATED SLAB
1" = 1'-0"



A6 PIPE SLEEVE / SUPPORT DETAIL
1 1/2" = 1'-0"

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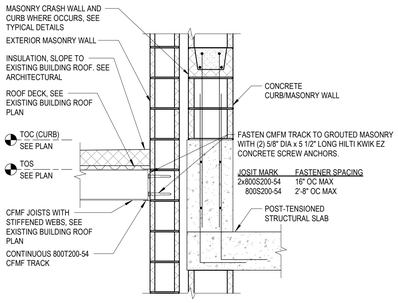
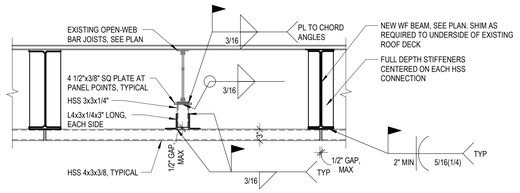
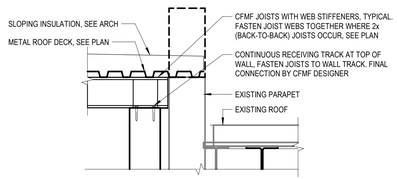


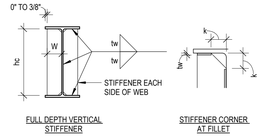
D3 CFMF ATTACHMENT AT MASONRY WALLS
3/4" = 1'-0"



D5 TYPICAL JOIST TO WF BEAM TRANSFER DETAIL
3/4" = 1'-0"



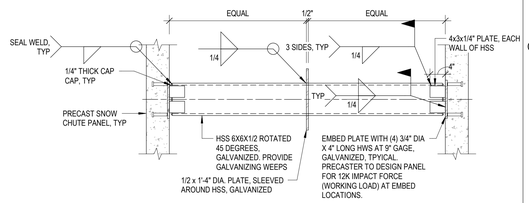
C3 CFMF ATTACHMENT TO EXISTING PARAPET
3/4" = 1'-0"



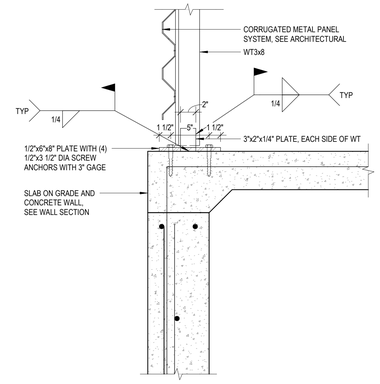
NOTES:
1. STIFFENER PLATE EDGES SHALL BE FINISHED STRAIGHT AND TRUE.
2. WHERE PLATE IS SHOWN AGAINST BEAM WEB OR FLANGE, GAP SHALL NOT EXCEED 1/16".
3. FILLET WELD SIZE SHALL BE INCREASED TO ACCOMDATE ROOT OPENING.
4. FULL DEPTH STIFFENERS SHALL BE PROVIDED AT LOCATIONS INDICATED IN DOCUMENTS.
5. STIFFENER PLATES SHALL BE GRADE 50. THICKNESS SHALL BE NOTED HEREIN, UNLESS OTHERWISE IN DOCUMENTS.

W	ts	tw
< 5"	3/8"	1/4"
5" - 8"	1/2"	5/16"

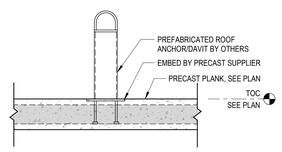
C4 TYPICAL WF BEAM OR COLUMN STIFFENER DETAIL
1" = 1'-0"



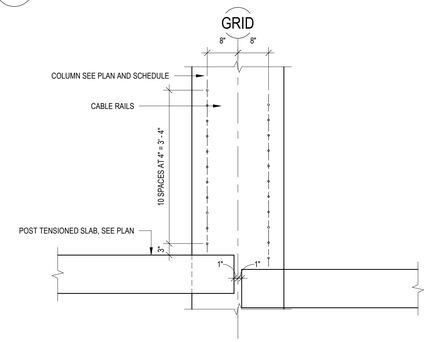
C5 SNOW CHUTE BREAKER BAR DETAIL
3/4" = 1'-0"



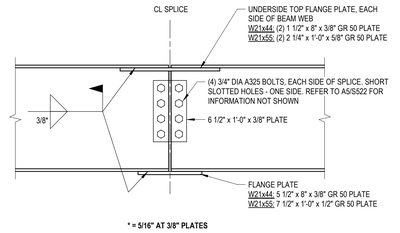
B1 HORIZONTAL METAL PANEL SUPPORT
1 1/2" = 1'-0"



B3 SECTION AT ROOF ANCHOR
3/4" = 1'-0"

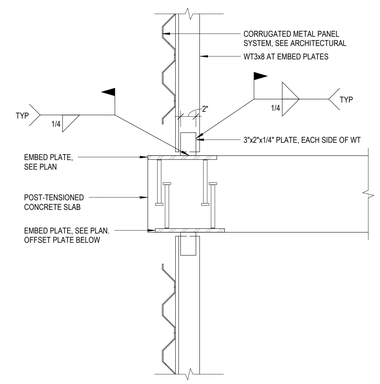


B4 TYP CABLE AT CONCRETE COLUMN
3/4" = 1'-0"

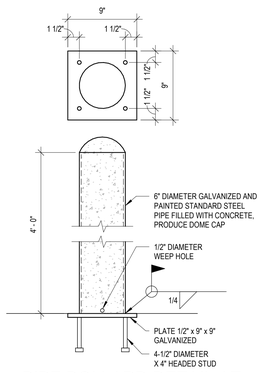


* = 5/16" AT 3/8" PLATES

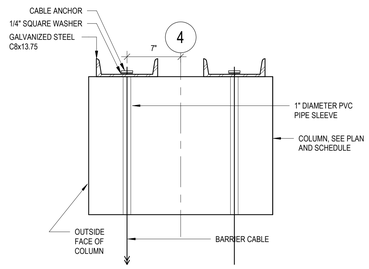
B5 TYPICAL WELDED BEAM SPLICE
1" = 1'-0"



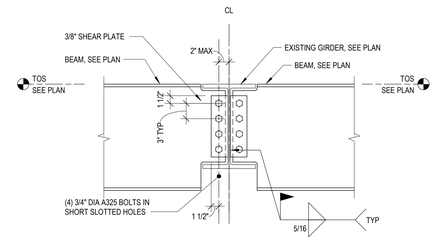
A1 S522-A1
1 1/2" = 1'-0"



A3 PIPE BOLLARD DETAIL AT ELEVATED SLAB
1 1/2" = 1'-0"



A4 CABLE RAIL ANCHORAGE AT ENDS
1 1/2" = 1'-0"



A5 TYPICAL CONNECTION OF BEAM TO WF GIRDER
1" = 1'-0"

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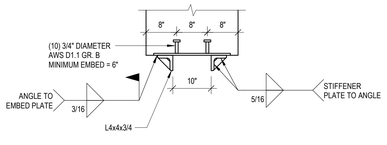
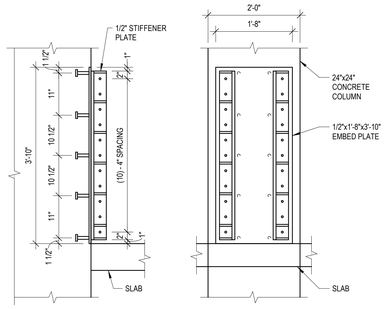
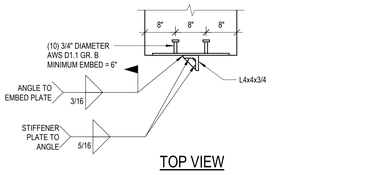


TOP VIEW

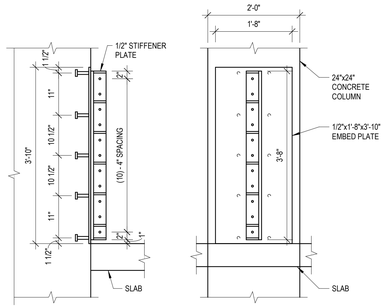


SIDE VIEW FRONT VIEW

C1 DOUBLE END CABLE DETAIL
3/4" = 1'-0"

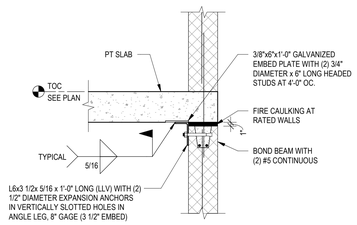


TOP VIEW

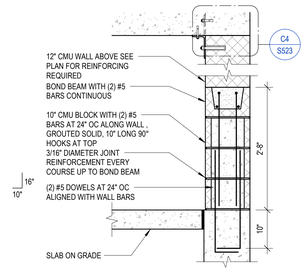


SIDE VIEW FRONT VIEW

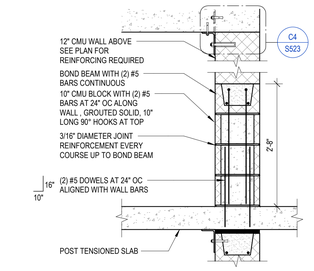
C2 SINGLE END CABLE DETAIL
3/4" = 1'-0"



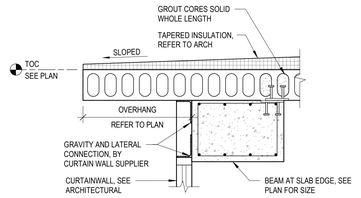
C4 DETAIL
3/4" = 1'-0"



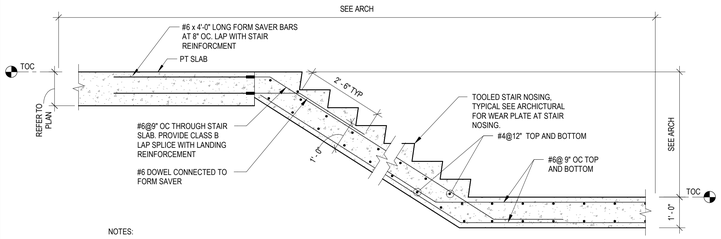
C5 DETAIL
3/4" = 1'-0"



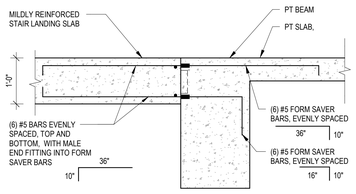
C6 DETAIL
3/4" = 1'-0"



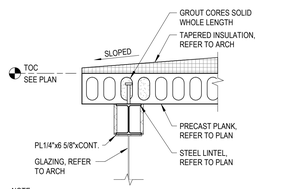
D6 DETAIL
3/4" = 1'-0"



B1 DETAIL
1/2" = 1'-0"

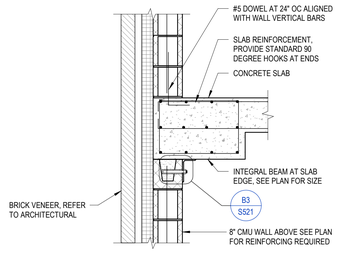


B3 DETAIL
3/4" = 1'-0"

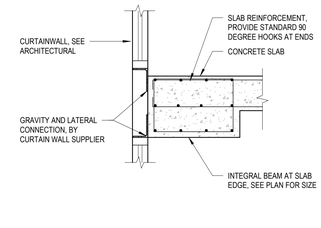


NOTE:
1. SEE STEEL LINTEL BEARING ELEVATION ON S603 FOR ADDITIONAL INFORAMTION

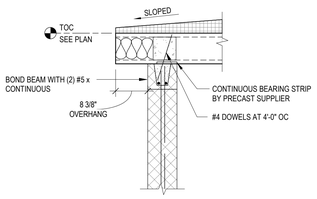
B4 SECTION
3/4" = 1'-0"



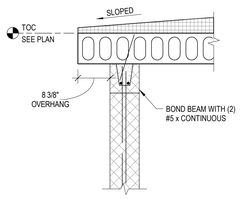
B5 SECTION
3/4" = 1'-0"



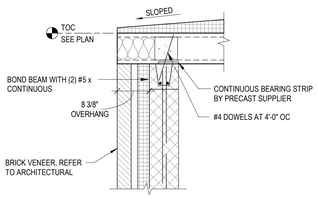
B6 DETAIL
3/4" = 1'-0"



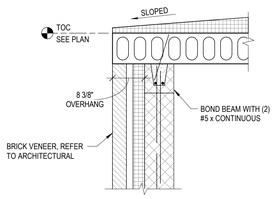
A1 DETAIL
3/4" = 1'-0"



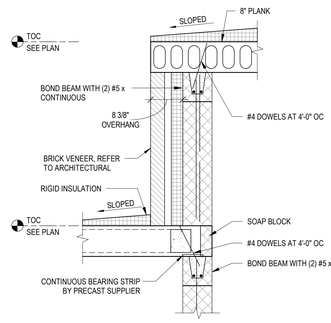
A2 DETAIL
3/4" = 1'-0"



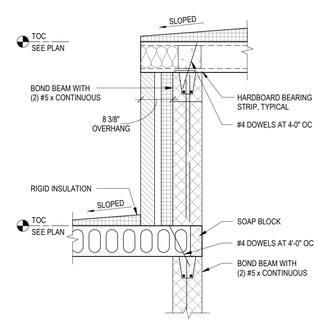
A3 DETAIL
3/4" = 1'-0"



A4 DETAIL
3/4" = 1'-0"



A5 DETAIL
3/4" = 1'-0"



A6 DETAIL
3/4" = 1'-0"

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CONSULTANTS:

CLIENT:

Community Development Authority of the City of Madison

Madison Municipal Building
215 Martin Luther King Jr Blvd
Suite 161
Madison, WI 53703

PROJECT TITLE:

VILLAGE ON PARK PARKING
STRUCTURE AND SITE
IMPROVEMENTS

808 HUGHES PLACE
MADISON, WI 53713

ISSUE:

07/28/2023 BID DOCUMENTS

PROJECT INFORMATION:

PROJECT NUMBER:	20225013.00
DATE:	07/28/2023
DRAWN BY:	JL
CHECKED BY:	AMG
APPROVED BY:	DFW
SCALE:	AS NOTED

SHEET TITLE:

STRUCTURAL DETAILS

SHEET NUMBER:

S523

Autodesk Docs://20225013.00 - Village on Park Garage/20225013_S22.rvt
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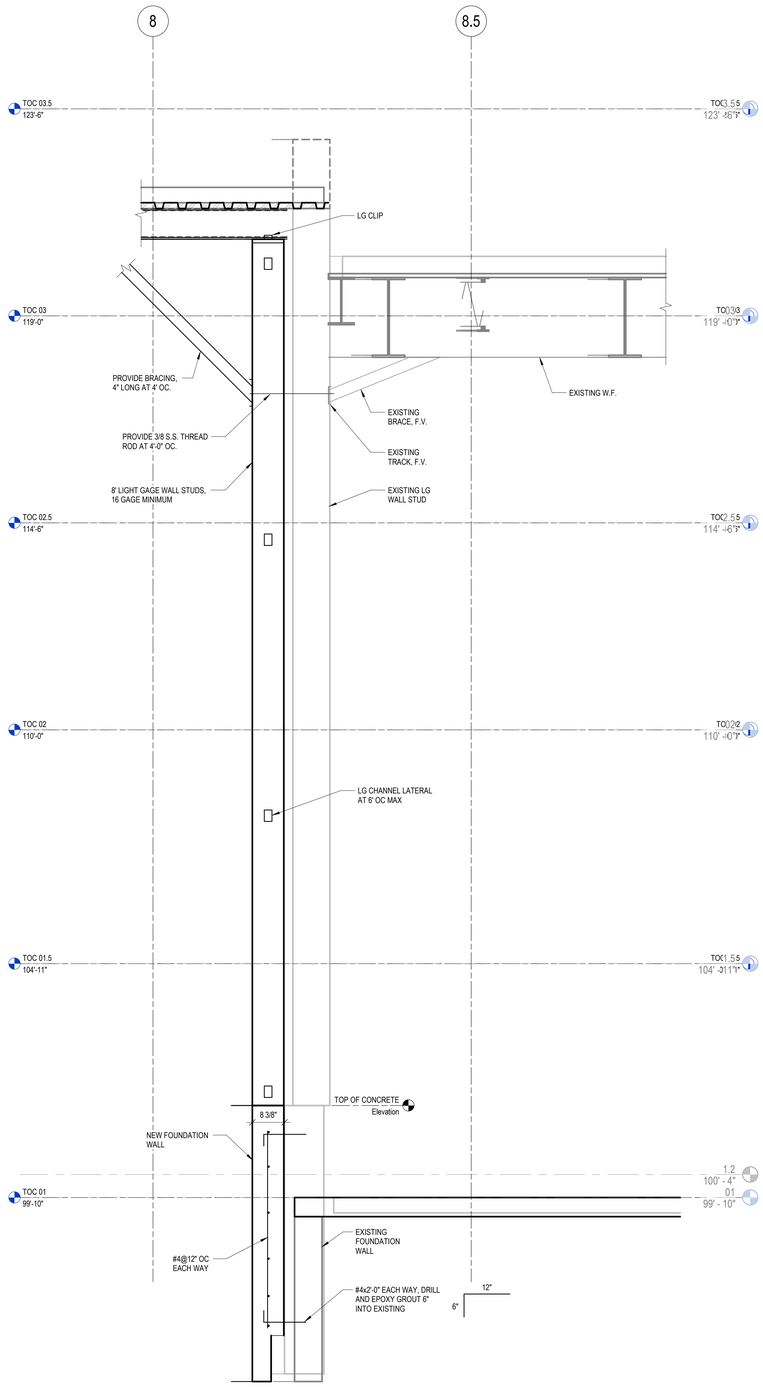

A1 SECTION AT NEW STUD WALL

3/4" = 1'-0"

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DRAWN BY:	Author
CHECKED BY:	Checker
APPROVED BY:	Approver
SCALE:	AS NOTED

SHEET TITLE:

STRUCTURAL DETAILS

SHEET NUMBER:

S524

Autodesk Docs://20225013.00 - Village on Park Garage/20225013_S22.rvt
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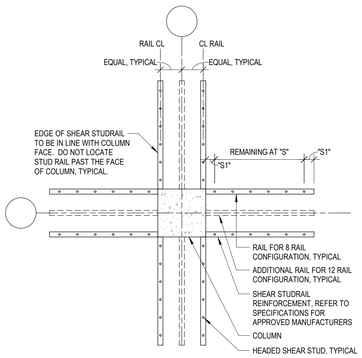

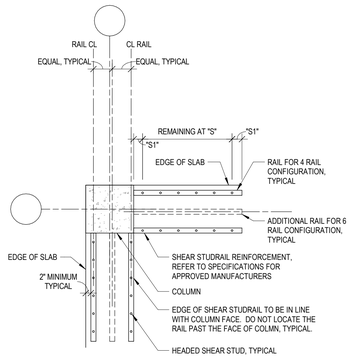

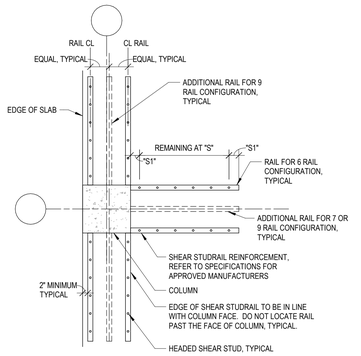

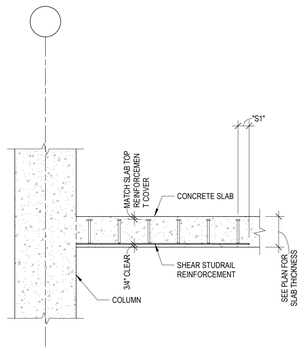

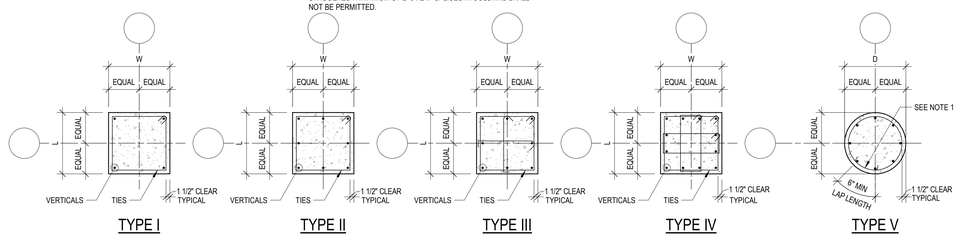

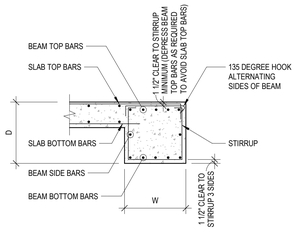

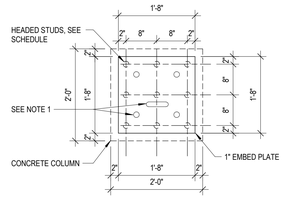

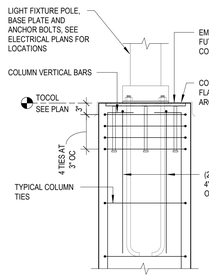

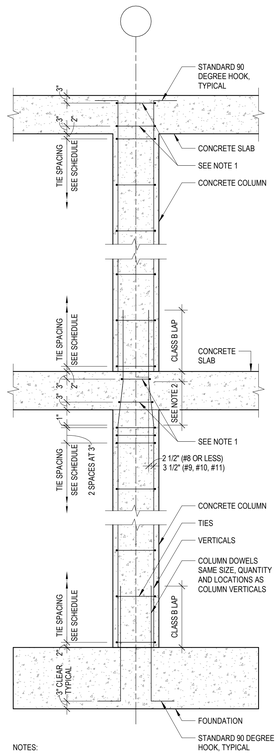

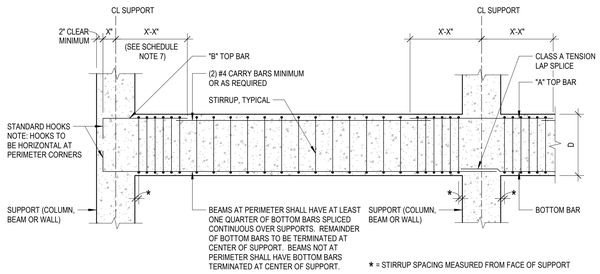

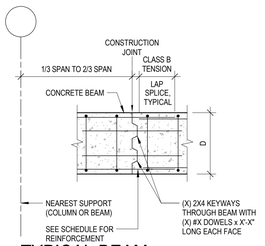

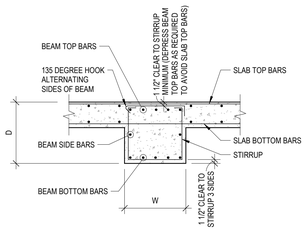

D1 INTERIOR COLUMN

1/2" = 1'-0"

D2 CORNER COLUMN

1/2" = 1'-0"

SHEARHEAD SCHEDULE

SHEARHEAD NUMBER	LOCATION (I, E, C)	NUMBER OF RAILS	NUMBER OF STUDS/RAIL	STUD SPACING (INCH)		STUD DIAMETER (INCH)	COLUMN TYPE (S, C)
				S1	S		
SH01	I	12	6	3	5.75	3/4	S
SH02	E	9	5	3	5.75	3/4	S
SH03	E	7	5	3	5.75	3/4	S
SH04	C	4	5	3	5.75	3/4	S
SH05	E	9	7	3	3.75	3/4	S

SHEARHEAD SCHEDULE NOTES:

1. FOR LOCATION:
   - I = INTERIOR, SEE INTERIOR COLUMN DETAIL THIS SHEET FOR SHEARHEAD LAYOUT.
   - E = EXTERIOR, SEE EDGE COLUMN DETAIL THIS SHEET FOR SHEARHEAD LAYOUT.
   - C = CORNER, SEE CORNER COLUMN DETAIL THIS SHEET FOR SHEARHEAD LAYOUT.
2. FOR COLUMN TYPE:
   - S = SQUARE OR RECTANGULAR
   - C = CIRCULAR
3. FOR SECTION AT STUDRAIL SEE STUDRAIL DIAGRAM DETAIL THIS SHEET.

CONCRETE FOOTING SCHEDULE

MARK	SIZE			REINFORCEMENT		REMARKS
	LENGTH	WIDTH	THICKNESS	BOTTOM	TOP	
F02	9'-0"	9'-0"	2'-0"	(7) #8 EACH WAY		
F03	12'-0"	12'-0"	2'-6"	(12) #8 EACH WAY		
F04	14'-0"	14'-0"	2'-8"	(18) #8 EACH WAY		
F05	16'-0"	21'-0"	2'-6"	(18) #8 SHORT, (13) #8 LONG		
F06	8'-0"	9'-0"	2'-0"	(6) #8 EACH WAY		

CONCRETE COLUMN SCHEDULE

LEVEL \ MARK		C01	C02	C03	C04	C05
TOCC LEVEL SIX						
SEE PLAN	SIZE (WxL)	24" x 24"	24" x 24"	48" x 24"	16" x 16"	18" x 18"
	VERTICALS	(12) #9	(12) #8	(16) #8	(8) #8	(8) #8
	TIES	#4@9" OC	#4@9" OC	#4@9" OC	#4@9" OC	#4@9" OC
	TYPE	IV	IV	IV	II	II
TOCC LEVEL FIVE	CONCRETE STRENGTH (PSI)	5000	5000	5000	5000	5000
SEE PLAN	SIZE (WxL)	24" x 24"	24" x 24"	48" x 24"	16" x 16"	18" x 18"
	VERTICALS	(12) #9	(12) #8	(16) #8	(8) #8	(8) #8
	TIES	#4@9" OC	#4@9" OC	#4@9" OC	#4@9" OC	#4@9" OC
	TYPE	IV	IV	IV	II	II
TOCC LEVEL FOUR	CONCRETE STRENGTH (PSI)	5000	5000	5000	5000	5000
SEE PLAN	SIZE (WxL)	24" x 24"	48" x 24"	48" x 24"	16" x 16"	18" x 18"
	VERTICALS	(12) #9	(16) #8	(16) #8	(8) #8	(8) #8
	TIES	#4@9" OC	#4@9" OC	#4@9" OC	#4@9" OC	#4@9" OC
	TYPE	IV	IV	IV	II	II
TOCC LEVEL THREE	CONCRETE STRENGTH (PSI)	5000	5000	5000	5000	5000
SEE PLAN	SIZE (WxL)	24" x 24"	48" x 24"	48" x 24"	16" x 16"	18" x 18"
	VERTICALS	(12) #9	(16) #8	(16) #8	(8) #8	(8) #8
	TIES	#4@9" OC	#4@9" OC	#4@9" OC	#4@9" OC	#4@9" OC
	TYPE	IV	IV	IV	II	II
TOCC LEVEL TWO	CONCRETE STRENGTH (PSI)	5000	5000	5000	5000	5000
SEE PLAN	SIZE (WxL)	24" x 24"	48" x 24"	48" x 24"	16" x 16"	18" x 18"
	VERTICALS	(12) #9	(16) #8	(16) #8	(8) #8	(8) #8
	TIES	#4@9" OC	#4@9" OC	#4@9" OC	#4@9" OC	#4@9" OC
	TYPE	IV	IV	IV	II	II
TOCC LEVEL ONE	CONCRETE STRENGTH (PSI)	5000	5000	5000	5000	5000
SEE PLAN	SIZE (WxL)	24" x 24"	48" x 24"	48" x 24"	16" x 16"	18" x 18"
	VERTICALS	(12) #9	(16) #8	(16) #8	(8) #8	(8) #8
	TIES	#4@9" OC	#4@9" OC	#4@9" OC	#4@9" OC	#4@9" OC
	TYPE	IV	IV	IV	II	II
TOF	CONCRETE STRENGTH (PSI)	5000	5000	5000	5000	5000
SEE PLAN						

CONCRETE COLUMN SCHEDULE NOTES:

1. SEE TYPICAL COLUMN DIAGRAM DETAIL THIS SHEET FOR INFORMATION PERTAINING TO COLUMN SCHEDULE.
2. COLUMN REINFORCING TO BE CONTINUOUS OR TENSION-SPLICED IN ACCORDANCE WITH ACI 318-14, SECTION 25.5.7 BY WELDED OR MECHANICAL SPLICES. SPLICES OF ADJACENT BARS SHALL BE STAGGERED A MINIMUM OF 2'-6". LAP SPLICES IN COLUMNS SHALL NOT BE PERMITTED.

C1 EDGE COLUMN

1/2" = 1'-0"

C2 STUDRAIL DIAGRAM

3/4" = 1'-0"

NOTES:

1. STAGGER HOOK LOCATIONS FOR SUCCESSIVE CIRCULAR TIES. ADJACENT CIRCULAR TIES SHOULD NOT ENGAGE THE SAME LOGITUDINAL BAR.

C4 CONCRETE COLUMN TYPES

1/2" = 1'-0"

CONCRETE BEAM SCHEDULE

BEAM			BOTTOM BARS		TOP BARS										STIRRUPS			SIDE BARS		REMARKS
	SIZE (INCH)				SOUTH OR WEST END					NORTH OR EAST END							SEE TYPICAL STIRRUP TYPE DIAGRAM			
MARK	W	D	QUANTITY	SIZE	SUPPORT X CL X		TYPE A B	QUANTITY	SIZE	QUANTITY	SIZE	TYPE A B	SUPPORT X CL X		SIZE	TYPE	SPACING AT EACH END	QUANTITY (EACH FACE)	SIZE	
B01	18	18	6	6	7"	CONT	B	6	6	6	6	B	CONT	7"	4	T1	8	1	4	(2) POST-TENSIONED STRANDS, CGS = MID-DEPTH OF BEAM
B02	12	16	5	7	9"	CONT	B	5	7	5	7	B	CONT	9"	4	T1	6	1	4	
B03	20	28	5	8	10"	CONT	B	5	8	5	8	B	CONT	10"	4	T1	12	2	4	(2) POST-TENSIONED STRANDS, CGS = MID-DEPTH OF BEAM
B04	14	18	6	6	7"	CONT	B	6	6	6	6	B	CONT	7"	4	T1	8	1	4	POST-TENSIONING AND DRAPE PER PLAN
B05	22	18	6	7	7"	CONT	B	6	6	6	6	B	CONT	7"	4	T1	6	1	4	(2) POST-TENSIONED STRANDS, CGS = MID-DEPTH OF BEAM
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

CONCRETE BEAM SCHEDULE NOTES:

1. BEAM BOTTOM BAR SUPPORTS SHALL BE IN ACCORDANCE WITH ACI DETAILING MANUAL (PLASTIC TIPPED).
2. PLACING TOLERANCES FOR ALL REINFORCEMENT TO CONFORM TO CRSI RECOMMENDED PRACTICES FOR PLACING REINFORCEMENT BARS.
3. SEE TYPICAL BEAM DIAGRAM THIS SHEET FOR INFORMATION PERTAINING TO BEAM SCHEDULE UNLESS NOTED OTHERWISE IN SCHEDULE.
4. SEE TYPICAL INTERIOR AND EXTERIOR BEAM DETAILS THIS SHEET FOR ADDITIONAL REQUIREMENTS.
5. SEE TYPICAL BEAM CONSTRUCTION JOINT DETAIL THIS SHEET FOR BEAM CONSTRUCTION JOINTS.
6. PROVIDE INDIVIDUAL SHOP DRAWING PLANS AND SCHEDULES FOR ALL FLOORS.
7. WHEN CONTINUOUS TOP BARS ARE INDICATED IN SCHEDULE PROVIDE CLASS B TENSION LAP SPLICE AT CENTERLINE OF SPAN OF BEAM.
8. CAMBER PER SPECIFICATIONS UNLESS NOTED IN SCHEDULE.
9. BEAMS OVER OPENINGS ARE MINMUMS, NOT NECESSARILY THE REQUIRED HEIGHT OF OPENINGS. CONTRACTOR TO COORDINATE.

TYPICAL STIRRUP TYPE DIAGRAM
(UNLESS SHOWN OTHERWISE ON BEAM SECTION)

B4 TYPICAL EXTERIOR BEAM

1/2" = 1'-0"

PLAN DETAIL

SECTION AT TOP OF COLUMN

NOTE: PROVIDE HOLES IN EMBED PLATES TO ACCOMODATE LIGHT POLE ANCHOR BOLTS. PROVIDE SLOTTED HOLE TO ACOOMODATE EMBEDDED CONDUITS. COORDINATE SIZES AND LOCATIONS WITH ELECTRICAL SUBCONTRACTOR.

NOTES:

1. PROVIDE TWO TIES WITHIN SLAB DEPTH AT EXTERIOR COLUMN.
2. PROVIDE TIES AT 6" OC ALONG SLOPE.

* = STIRRUP SPACING MEASURED FROM FACE OF SUPPORT

A1 TYPICAL BEAM DIAGRAM

1/2" = 1'-0"

A3 TYPICAL BEAM CONSTRUCTION JOINT

1/2" = 1'-0"

A4 TYPICAL INTERIOR BEAM

1/2" = 1'-0"

A5 EMBED PLATE AT TOP OF COLUMN DETAILS AND SCHEDULE

3/4" = 1'-0"

A6 TYPICAL COLUMN DIAGRAM

1/2" = 1'-0"

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APPROVED BY: DFW
SCALE: AS NOTED

SHEET TITLE:

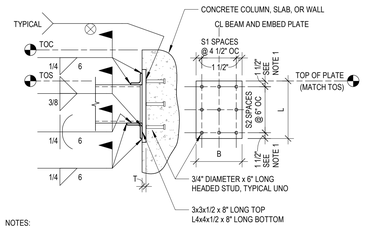
SCHEDULES

SHEET NUMBER:

S601

EMBED PLATE SCHEDULE

MARK	PLATE SIZE (TxLxB)	S1	S2	TOP OF PLATE ELEVATION	DETAIL REFERENCE	REMARKS
EP01	SEE DETAIL	2	2	TOCC, SEE PLANS	A5/S601	GALVANIZED - FUTURE PV FRAMING ATTACHMENTS, SEE DETAIL FOR S1, S2 SPACING
EP02	1/2"x1'-10"x12"	2	3	146'-6"	N/A	GALVANIZED
EP03	1/2"x1'-7"x9"	2	2	MATCH TOC	N/A	GALVANIZED, GC TO COORDINATE FINAL LOCATIONS WITH POST TENSIONING. SEE NOTE 2
EP04	1/2"x10"x10"	1	1	MATCH TOC	N/A	STAINLESS
EP05	1"x28"x12"	2	3	MATCH TOC	EMBEDDED PLATE AT SNOW CHUTE DIAGRAM	GALVANIZED, SEE SNOW CHUTE SECTION. VERTICAL EDGE DISTANCE = 5" WITH 14" LONG HWS
EP06	1/2"x1'-8"x3'-10"	1	4	SEE DETAILS	C1/S523	GALVANIZED, REFER TO DETAIL FOR S1, S2 SPACING
EP07	3/4"x1'-3"x7 1/2"	1	2	110'-5"	N/A	GALVANIZED, FINAL LOCATION TO BE COORDINATED WITH CANOPY SUPPLIER
EP08	1/2"x12"xCONT	3	AS REQ	TOB, UNO	N/A	GALVANIZED, CONTINUOUS. SEE ENLARGED PLANS AND NOTE 2
EP09	1/2"x9"x6"	1	1	EDGE OF SLAB	A1/S522	STAINLESS, SEE NOTE 2



NOTES:

1. INCREASE DIMENSION TO 2" AND INCREASE "L" DIMENSION OF EMBED PLATE AS REQUIRED WHERE EMBED DEPTH MATCHES SLAB OR BEAM THICKNESS.
2. REDUCE S1 SPACING TO 3" WITH 1/2" DIA HEADED STUDS, INCREASE VERTICAL EDGE DISTANCE AS REQUIRED.

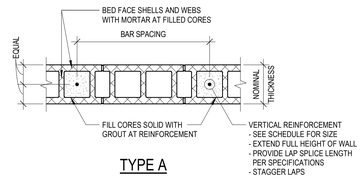
EMBED PLATE CONNECTION DIAGRAM

MASONRY WALL SCHEDULE

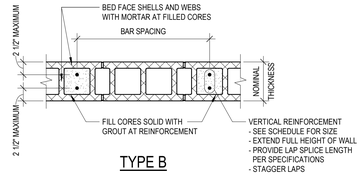
MARK	NOMINAL THICKNESS	TYPE	VERTICAL REINFORCEMENT	REMARKS
MW1	8"	A	#5@48" OC	
MW2	10"	B	#5@16" OC	

MASONRY WALL SCHEDULE NOTES:

1. PROVIDE TYPICAL VERTICAL REINFORCEMENT AT WALL ENDS AND EACH SIDE OF CONTROL JOINTS. REINFORCE FIRST TWO CELLS EACH SIDE OF OPENINGS FULL HEIGHT OF WALL. WHERE THE USE OF STEEL OR PRECAST LINTELS INTERRUPTS VERTICAL CONTINUITY OF WALL REINFORCEMENT, SHIFT REINFORCED CELLS PAST LINTEL BEARING AND GROUT WALL SOLID BELOW ENDS OF LINTELS.
2. PROVIDE DOWELS FOR VERTICAL REINFORCEMENT INTO FOUNDATION WALLS AND FOOTINGS BELOW PER DETAILS.
3. SEE GENERAL NOTES AND DETAILS FOR HORIZONTAL JOINT REINFORCEMENT AND BOND BEAM REQUIREMENTS.
4. UNLESS DETAILED OR OTHERWISE CALLED OUT, PROVIDE CMU LINTELS PER LINTEL SCHEDULE OVER OPENINGS IN MASONRY WALLS.
5. PROVIDE CONTINUOUS HORIZONTAL JOINT REINFORCEMENT IN ALL WALLS AS PER SPECIFICATIONS.
6. OPENINGS IN WALLS PROVIDED FOR MECHANICAL DUCTWORK SHALL BE CENTERED IN BETWEEN BEAM BEARING LOCATIONS OR POSITIONED WITH THE NEAREST EDGE NO CLOSER THAN 24" EITHER SIDE OF BEAM BEARING LOCATIONS.
7. SEE PLAN AND DETAILS FOR ADDITIONAL WALL REINFORCEMENT AND GROUTING REQUIREMENTS NOT COVERED IN THIS SCHEDULE.



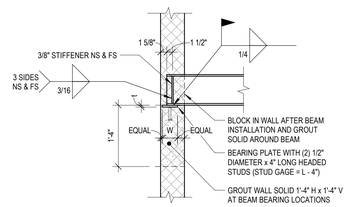
TYPE A



TYPE B

MASONRY BEARING PLATE SCHEDULE

MARK	PLATE THICKNESS, t (IN)	PLATE WIDTH, W (IN)	PLATE LENGTH, L (IN)
MPB1	1/2"	5 1/2"	8"

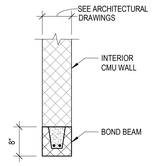


LINTEL SCHEDULE

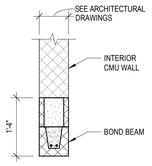
MARK	TYPE	SIZE	BEARING LENGTH	REMARKS
N/A	I	8" BOND BEAM WITH (2) #5 BOTTOM	8"	ALL INTERIOR NON-LOAD BEARING WALL OPENINGS LESS THAN OR EQUAL TO 6'-0". SEE DETAIL A.
N/A	II	16" BOND BEAM WITH (2) #5 BOTTOM (FOR OPENINGS LESS THAN OR EQUAL TO 10'-0")	8"	ALL INTERIOR NON-LOAD BEARING WALL OPENINGS GREATER THAN 6'-0" BUT LESS THAN OR EQUAL TO 12'-0". SEE DETAIL A.
L1	I	8" BOND BEAM WITH (2) #5 BOTTOM	8"	SEE DETAIL B
L2	II	16" BOND BEAM WITH (2) #5 BOTTOM	8"	SEE DETAIL B

LINTEL SCHEDULE NOTES:

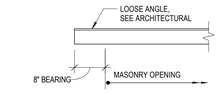
1. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS.
2. COORDINATE BOTTOM OF LINTEL ELEVATION WITH ARCHITECTURAL DRAWINGS.
3. ALL DIMENSIONS ARE NOMINAL MASONRY DIMENSIONS UNLESS NOTED OTHERWISE.
4. PROVIDE MINIMUM 8" BEARING EACH END UNLESS NOTED OTHERWISE.
5. FOR PRECAST CONCRETE LINTELS, WIDTH OF LINTEL = NOMINAL MASONRY WALL THICKNESS - 3/8".
6. FOR CMU LINTELS, CONTRACTOR TO PROVIDE TEMPORARY SHORING UNTIL MASONRY HAS PROPERLY SET (3 DAYS MINIMUM).
7. FOR STEEL LINTELS, PROVIDE 1/4" BOTTOM PLATE UNLESS NOTED OTHERWISE. WIDTH OF PLATE = NOMINAL MASONRY THICKNESS (INCLUDING VENEER) - 1" EXTEND PLATE FULL LENGTH OF LINTEL UNLESS NOTED OTHERWISE.
8. FOR STEEL LINTELS GREATER THAN OR EQUAL TO 12'-0" LONG, PROVIDE 1/2" DIAMETER x 4" LONG HEADED WELDED STUDS AT 32" OC ON TOP FLANGE. STEEL LINTELS LESS THAN 10'-0" LONG MAY BE PLACED LOOSE WITHOUT ANCHOR BOLTS OR BEARING PLATES, UNLESS NOTED OTHERWISE.
9. ALL STEEL LINTELS TO HAVE Fy = 50 KSI.
10. PROVIDE LOOSE LINTELS PER ARCHITECTURAL, SEE TYPE III AND DETAIL A.



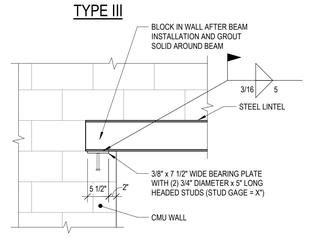
TYPE I



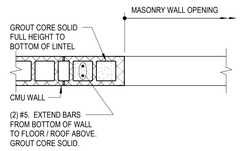
TYPE II



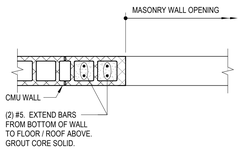
TYPE III



STEEL LINTEL BEARING ELEVATION



DETAIL A



DETAIL B

GRÄEF

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608 / 242 1550

www.graef-usa.com

CONSULTANTS:

CLIENT:

Community Development Authority of the City of Madison

Madison Municipal Building
215 Martin Luther King Jr Blvd
Suite 161
Madison, WI 53703

PROJECT TITLE:

VILLAGE ON PARK PARKING STRUCTURE AND SITE IMPROVEMENTS

808 HUGHES PLACE
MADISON, WI 53713

ISSUE:

07/28/2023 BID DOCUMENTS

PROJECT INFORMATION:

PROJECT NUMBER:	20225013.00
DATE:	07/28/2023
DRAWN BY:	JL
CHECKED BY:	AMG
APPROVED BY:	DFW
SCALE:	AS NOTED

SHEET TITLE:

MISCELLANEOUS SCHEDULES

SHEET NUMBER:

S602

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