

N

1 LEVEL 1 FLOOR PLAN - SECTOR A

SCALE: 1/8" = 1'-0"

11/7/2019 3:31:47 PM

FLOOR PLAN GENERAL NOTES

1. REFER TO CODE ANALYSIS SHEET(S) FOR RATED CONSTRUCTION AND OPENING PROTECTION.
2. REFER TO WALL TYPE SHEETS FOR INTERIOR AND EXTERIOR WALL DESCRIPTIONS. UNLESS OTHERWISE NOTED, THE TYPICAL EXTERIOR WALL TYPE SHALL BE TYPE W1-6-T AND THE TYPICAL INTERIOR WALL TYPE SHALL BE TYPE P2-6-S.
3. WALL TYPES ARE NOT CALLED OUT AT EACH ROOM. WALL TYPES CALLED OUT IN ONE ROOM EXTEND FOR THE ENTIRE LENGTH OF THE WALL UNLESS OTHERWISE NOTED.
4. WHERE CEILINGS ARE PRESENT, INTERIOR PARTITIONS ARE TO EXTEND 6" MINIMUM ABOVE FINISH CEILING HEIGHT UNLESS OTHERWISE NOTED.
5. WHERE CEILINGS ARE NOT PRESENT, INTERIOR PARTITIONS ARE FULL HEIGHT TO UNDERSIDE OF FLOOR/ROOF DECK UNLESS OTHERWISE NOTED.
6. INTERIOR STUD WALLS ARE DIMENSIONED TO CENTERLINE UNLESS OTHERWISE NOTED.
7. COLUMNS ARE DIMENSIONED TO CENTERLINE UNLESS OTHERWISE NOTED.
8. MASONRY WALLS ARE DIMENSIONED TO FACE OF MASONRY UNLESS OTHERWISE NOTED.
9. MASONRY OPENINGS ARE DIMENSIONED NOMINALLY UNLESS OTHERWISE NOTED.
10. ALL DOOR, WINDOW, LOUVER AND OTHER OPENINGS ARE DIMENSIONED FOR NOMINAL OPENING SIZE. CONSTRUCT OPENING SIZES PER MANUFACTURER REQUIREMENTS. REFER TO DOOR TYPES, DOOR FRAME TYPES , AND WINDOW TYPES FOR DIMENSIONS.
11. HINGE SIDE VERTICAL LEG OF DOOR FRAMES TO BE 6" FROM ADJACENT PERPENDICULAR WALLS UNLESS OTHERWISE NOTED.
12. ARCHITECTURAL FINISHED FLOOR ELEVATION OF 0'-0" CORRESPONDS TO CIVIL ELEVATION OF 180.00
13. FLOOR DRAINS TO BE SET SO TOP OF DRAIN IS BELOW FINISH FLOOR ELEVATION WITH CONTINUOUS SLOPE FROM PERIMETER OF ROOM TO DRAIN UNLESS OTHERWISE NOTED. SLOPE 1/4" PER FOOT ALONG SHORTEST DISTANCE FROM PERIMETER OF ROOM TO DRAIN. FLOOR SLOPE SHALL NOT EXCEED 1/4" PER FOOT AT ANY LOCATION IN ROOM.
14. FLOOR PLANS INDICATE ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS AND MAY NOT SHOW ALL COMPONENTS. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING FOR ADDITIONAL INFORMATION.
15. OVERALL FLOOR PLANS ARE FOR REFERENCE ONLY. REFER TO ENLARGED FLOOR PLAN SHEETS.
16. REFER TO EXTERIOR ELEVATIONS, BUILDING SECTIONS, AND WALL SECTIONS FOR WALL CONSTRUCTION ABOVE CUT-LINE.
17. FLOOR MATERIAL TRANSITIONS OCCUR AS INDICATED IN PLAN AND BELOW DOORWAYS WHERE NOT SHOWN IN PLAN. REFERENCE ROOM FINISH SCHEDULE FOR FLOOR MATERIALS AND SEE DETAIL 7 / A-541

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

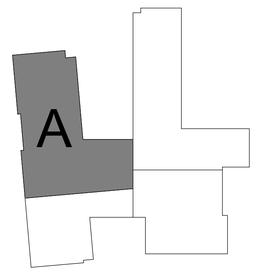
FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

revisions
1 ADDENDUM #1 11/8/2019

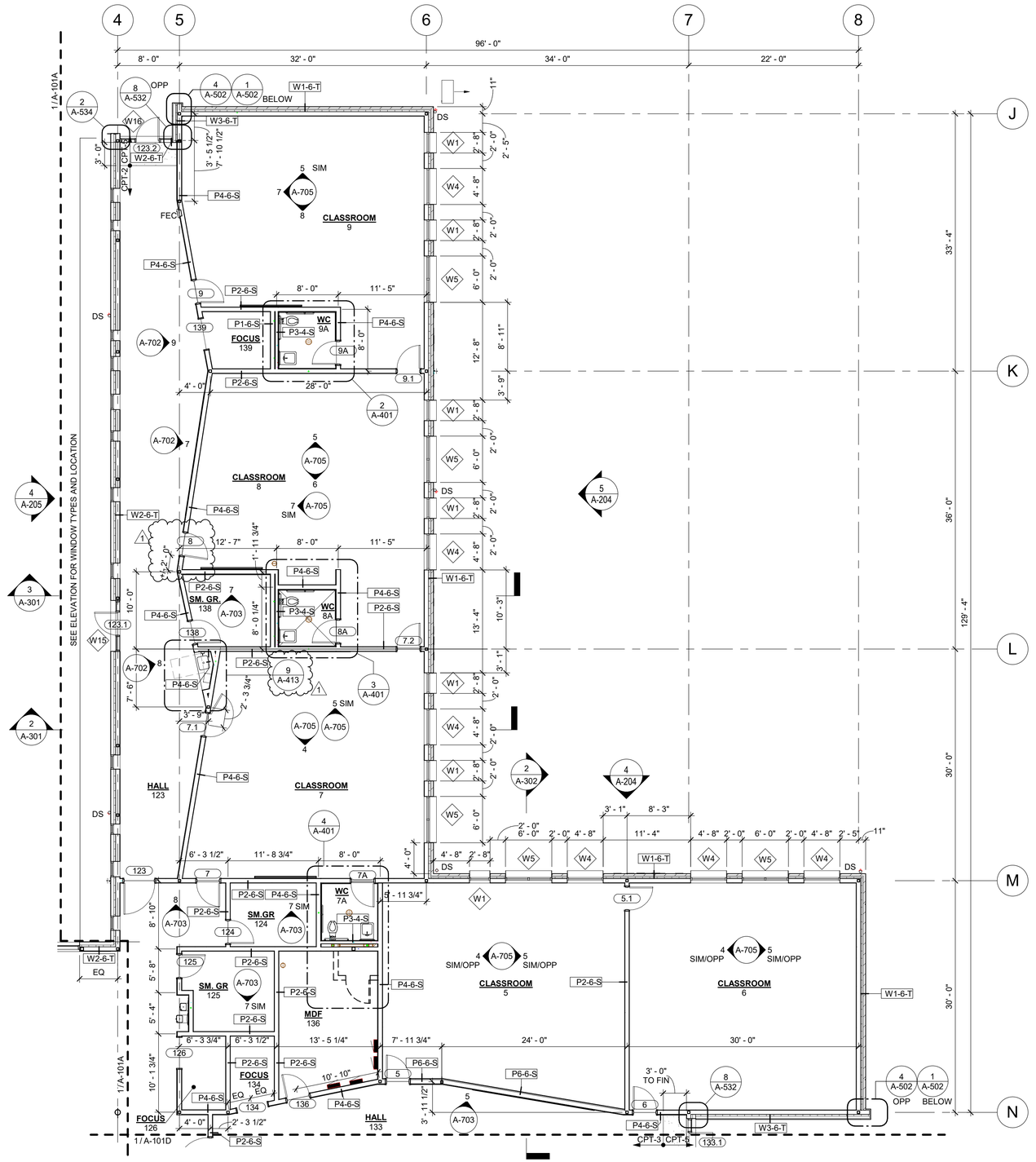
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

FLOOR PLAN SECTOR A



A-101A

Scale **As indicated**



N

1 LEVEL 1 FLOOR PLAN SECTOR B

SCALE: 1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. REFER TO CODE ANALYSIS SHEET(S) FOR RATED CONSTRUCTION AND OPENING PROTECTION.
2. REFER TO WALL TYPE SHEETS FOR INTERIOR AND EXTERIOR WALL DESCRIPTIONS. UNLESS OTHERWISE NOTED, THE TYPICAL EXTERIOR WALL TYPE SHALL BE TYPE W1-6-T AND THE TYPICAL INTERIOR WALL TYPE SHALL BE TYPE P2-6-S.
3. WALL TYPES ARE NOT CALLED OUT AT EACH ROOM. WALL TYPES CALLED OUT IN ONE ROOM EXTEND FOR THE ENTIRE LENGTH OF THE WALL UNLESS OTHERWISE NOTED.
4. WHERE CEILINGS ARE PRESENT, INTERIOR PARTITIONS ARE TO EXTEND 6" MINIMUM ABOVE FINISH CEILING HEIGHT UNLESS OTHERWISE NOTED.
5. WHERE CEILINGS ARE NOT PRESENT, INTERIOR PARTITIONS ARE FULL HEIGHT TO UNDERSIDE OF FLOOR/ROOF DECK UNLESS OTHERWISE NOTED.
6. INTERIOR STUD WALLS ARE DIMENSIONED TO CENTERLINE UNLESS OTHERWISE NOTED.
7. COLUMNS ARE DIMENSIONED TO CENTERLINE UNLESS OTHERWISE NOTED.
8. MASONRY WALLS ARE DIMENSIONED TO FACE OF MASONRY UNLESS OTHERWISE NOTED.
9. MASONRY OPENINGS ARE DIMENSIONED NOMINALLY UNLESS OTHERWISE NOTED.
10. ALL DOOR, WINDOW, LOUVER AND OTHER OPENINGS ARE DIMENSIONED FOR NOMINAL OPENING SIZE. CONSTRUCT OPENING SIZES PER MANUFACTURER REQUIREMENTS. REFER TO DOOR TYPES, DOOR FRAME TYPES , AND WINDOW TYPES FOR DIMENSIONS.
11. HINGE SIDE VERTICAL LEG OF DOOR FRAMES TO BE 6" FROM ADJACENT PERPENDICULAR WALLS UNLESS OTHERWISE NOTED.
12. ARCHITECTURAL FINISHED FLOOR ELEVATION OF 0'-0" CORRESPONDS TO CIVIL ELEVATION OF 180.00
13. FLOOR DRAINS TO BE SET SO TOP OF DRAIN IS BELOW FINISH FLOOR ELEVATION WITH CONTINUOUS SLOPE FROM PERIMETER OF ROOM TO DRAIN UNLESS OTHERWISE NOTED. SLOPE 1/4" PER FOOT ALONG SHORTEST DISTANCE FROM PERIMETER OF ROOM TO DRAIN. FLOOR SLOPE SHALL NOT EXCEED 1/4" PER FOOT AT ANY LOCATION IN ROOM.
14. FLOOR PLANS INDICATE ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS AND MAY NOT SHOW ALL COMPONENTS. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING FOR ADDITIONAL INFORMATION.
15. OVERALL FLOOR PLANS ARE FOR REFERENCE ONLY. REFER TO ENLARGED FLOOR PLAN SHEETS.
16. REFER TO EXTERIOR ELEVATIONS, BUILDING SECTIONS, AND WALL SECTIONS FOR WALL CONSTRUCTION ABOVE CUT-LINE.
17. FLOOR MATERIAL TRANSITIONS OCCUR AS INDICATED IN PLAN AND BELOW DOORWAYS WHERE NOT SHOWN IN PLAN. REFERENCE ROOM FINISH SCHEDULE FOR FLOOR MATERIALS AND SEE DETAIL 7 / A-541

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

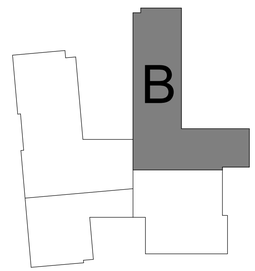
FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

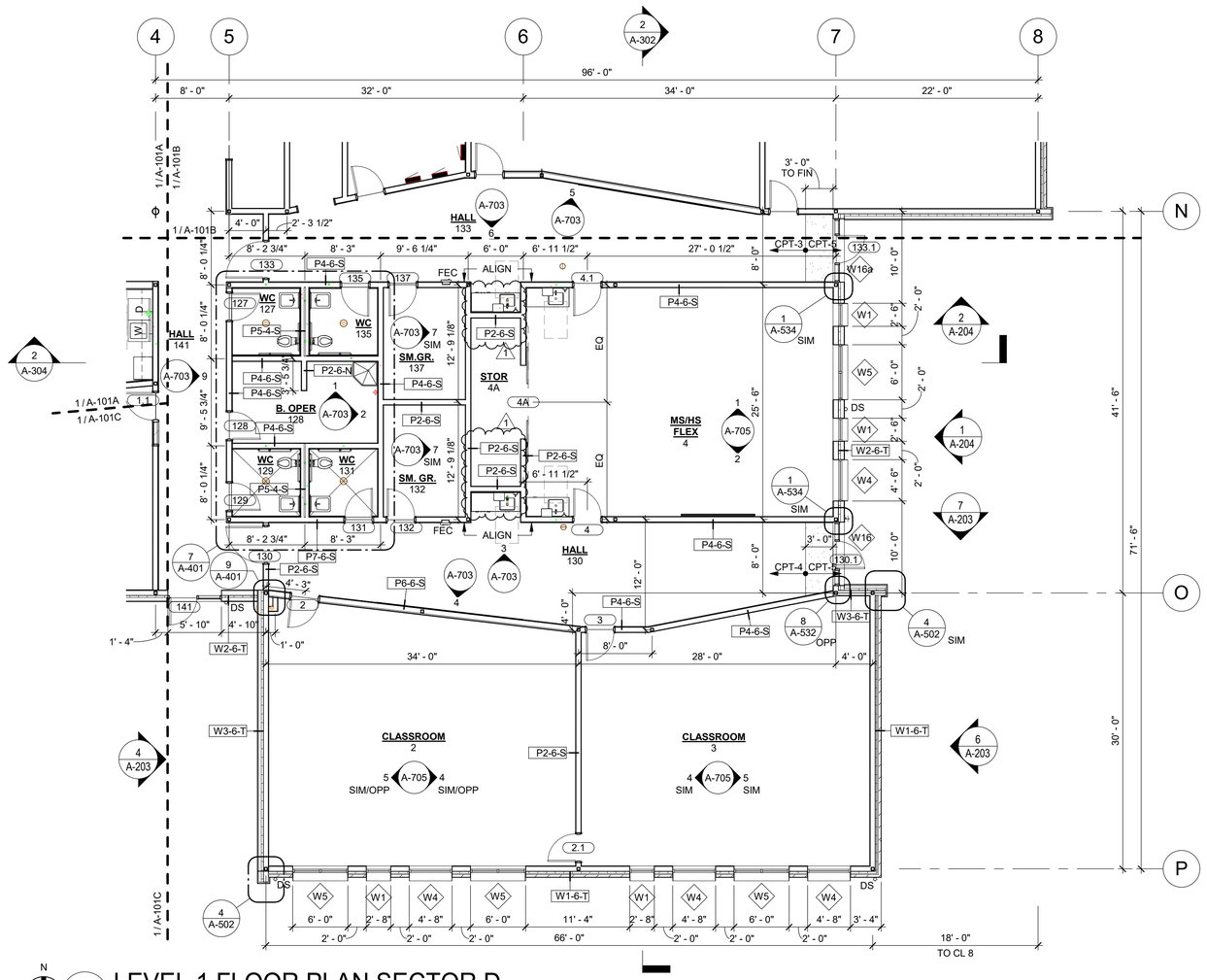
FLOOR PLAN SECTOR B



A-101B

Scale **As indicated**

11/7/2019 3:31:52 PM



1 LEVEL 1 FLOOR PLAN SECTOR D

SCALE: 1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. REFER TO CODE ANALYSIS SHEET(S) FOR RATED CONSTRUCTION AND OPENING PROTECTION.
2. REFER TO WALL TYPE SHEETS FOR INTERIOR AND EXTERIOR WALL DESCRIPTIONS. UNLESS OTHERWISE NOTED, THE TYPICAL EXTERIOR WALL TYPE SHALL BE TYPE W1-6-T AND THE TYPICAL INTERIOR WALL TYPE SHALL BE TYPE P2-6-S.
3. WALL TYPES ARE NOT CALLED OUT AT EACH ROOM. WALL TYPES CALLED OUT IN ONE ROOM EXTEND FOR THE ENTIRE LENGTH OF THE WALL UNLESS OTHERWISE NOTED.
4. WHERE CEILINGS ARE PRESENT, INTERIOR PARTITIONS ARE TO EXTEND 6" MINIMUM ABOVE FINISH CEILING HEIGHT UNLESS OTHERWISE NOTED.
5. WHERE CEILINGS ARE NOT PRESENT, INTERIOR PARTITIONS ARE FULL HEIGHT TO UNDERSIDE OF FLOOR/ROOF DECK UNLESS OTHERWISE NOTED.
6. INTERIOR STUD WALLS ARE DIMENSIONED TO CENTERLINE UNLESS OTHERWISE NOTED.
7. COLUMNS ARE DIMENSIONED TO CENTERLINE UNLESS OTHERWISE NOTED.
8. MASONRY WALLS ARE DIMENSIONED TO FACE OF MASONRY UNLESS OTHERWISE NOTED.
9. MASONRY OPENINGS ARE DIMENSIONED NOMINALLY UNLESS OTHERWISE NOTED.
10. ALL DOOR, WINDOW, LOUVER AND OTHER OPENINGS ARE DIMENSIONED FOR NOMINAL OPENING SIZE. CONSTRUCT OPENING SIZES PER MANUFACTURER REQUIREMENTS. REFER TO DOOR TYPES, DOOR FRAME TYPES , AND WINDOW TYPES FOR DIMENSIONS.
11. HINGE SIDE VERTICAL LEG OF DOOR FRAMES TO BE 6" FROM ADJACENT PERPENDICULAR WALLS UNLESS OTHERWISE NOTED.
12. ARCHITECTURAL FINISHED FLOOR ELEVATION OF 0'-0" CORRESPONDS TO CIVIL ELEVATION OF 180.00
13. FLOOR DRAINS TO BE SET SO TOP OF DRAIN IS BELOW FINISH FLOOR ELEVATION WITH CONTINUOUS SLOPE FROM PERIMETER OF ROOM TO DRAIN UNLESS OTHERWISE NOTED. SLOPE 1/4" PER FOOT ALONG SHORTEST DISTANCE FROM PERIMETER OF ROOM TO DRAIN. FLOOR SLOPE SHALL NOT EXCEED 1/4" PER FOOT AT ANY LOCATION IN ROOM.
14. FLOOR PLANS INDICATE ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS AND MAY NOT SHOW ALL COMPONENTS. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING FOR ADDITIONAL INFORMATION.
15. OVERALL FLOOR PLANS ARE FOR REFERENCE ONLY. REFER TO ENLARGED FLOOR PLAN SHEETS.
16. REFER TO EXTERIOR ELEVATIONS, BUILDING SECTIONS, AND WALL SECTIONS FOR WALL CONSTRUCTION ABOVE CUT-LINE.
17. FLOOR MATERIAL TRANSITIONS OCCUR AS INDICATED IN PLAN AND BELOW DOORWAYS WHERE NOT SHOWN IN PLAN. REFERENCE ROOM FINISH SCHEDULE FOR FLOOR MATERIALS AND SEE DETAIL 7 / A-541

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

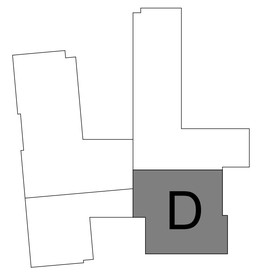
FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

FLOOR PLAN SECTOR D



A-101D

Scale **As indicated**

11/7/2019 3:31:56 PM



1 LEVEL 1 FLOOR PLAN - SECTOR A SLAB EDGE
SCALE: 1/8" = 1'-0"

SLAB EDGE LEGEND

SJ	SAWCUT JOINT (CONTROL JOINT)
CJ	CONSTRUCTION JOINT
	SLAB POUR "X"
	SLAB POUR "Y"
	SLOPED SLAB AT TILE
	DEPRESSED SLAB

SLAB EDGE GENERAL NOTES

1. SLAB EDGE DIMENSIONS ARE APPROXIMATE AND PROVIDED TO SCHEMATICALLY LOCATE SAWCUT AND CONSTRUCTION JOINTS ONLY. REFER TO FLOOR PLAN, STRUCTURAL PLANS, EXTERIOR DETAILS & WALL TYPES TO IDENTIFY SLAB EDGE CONDITIONS AT WALLS & FOUNDATIONS.

KEYNOTE LEGEND

Key Value	Keynote Text
3.800	4" CONCRETE HOUSEKEEPING PAD, SEE MECHANICAL
22.003	FLOOR DRAIN, SEE PLUMBING

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

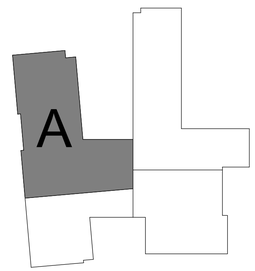
issue date
10/15/2019
PERMIT/BID SET

revisions

1	ADDENDUM #1	11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

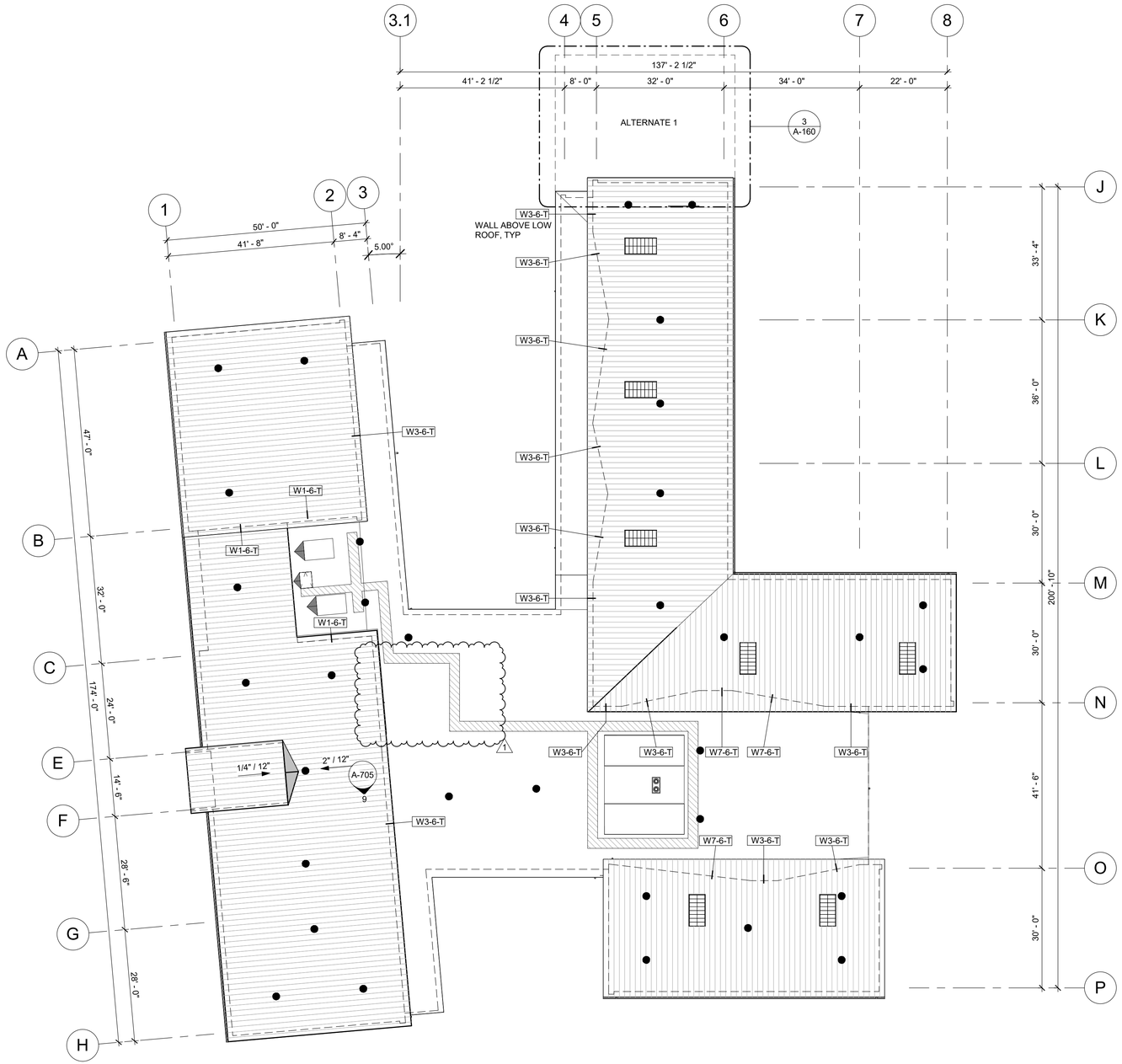
SLAB JOINTING PLAN SECTOR A



A-111A

Scale **As indicated**

11/7/2019 3:32:00 PM



N 1 ROOF PLAN

SCALE: 1/16" = 1'-0"

ROOF PLAN GENERAL NOTES

1. ROOF PLANS INDICATE LOCATIONS OF ARCHITECTURAL, STRUCTURAL MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS AND MAY NOT SHOW ALL COMPONENTS ON THE ROOF OR THAT PENETRATE THE ROOF. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING FOR ADDITIONAL INFORMATION. ROOF PENETRATIONS, ROOF ACCESSORIES AND ROOF CURBS TO RECEIVE FLASHING.
2. SEISMICALLY ANCHOR ALL ROOF EQUIPMENT TO CURBS AND PROVIDE UNDER DECK REINFORCING BLOCKING TO PROPERLY ANCHOR.
3. ALL ROOF ELEVATIONS INDICATED ARE TO THE TOP OF DECKING OR TOP OF PLATE UNLESS OTHERWISE NOTED.
4. ALL CRICKETS ARE TO BE SLOPED A MINIMUM OF 1/2" PER FOOT UNLESS OTHERWISE NOTED.
5. TAPERED INSULATION CRICKETS ARE TO BE ADDED OVER THE BASE LAYER INSULATION.
6. FALL ARREST SYSTEM ANCHORS AND STRUCTURAL CONNECTIONS ARE A BIDDER-DESIGNED OR DESIGN-BUILD SYSTEM. LOCATIONS ARE SHOWN FOR GENERAL REFERENCE ONLY.
7. REFER TO BUILDING ELEVATIONS AND SECTIONS FOR ADDITIONAL DETAIL REFERENCES.
8. ALL DIMENSIONS ARE FROM GRIDLINES OR FACE OF FINISH UNLESS OTHERWISE NOTED.

ROOF PLAN SYMBOL LEGEND

- FACE OF WALL BELOW
- INSULATION SLOPE CHANGE
- TAPERED INSULATION CRICKET/SADDLE
- ROOFING SYSTEM WALKWAY
- SCHEMATIC FALL PROTECTION LAYOUT - FOR REFERENCE ONLY SEE 4/S601 FOR TYP DETAIL
- METAL ROOF PANELS
- MEMBRANE ROOFING

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

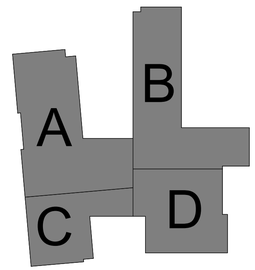
FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

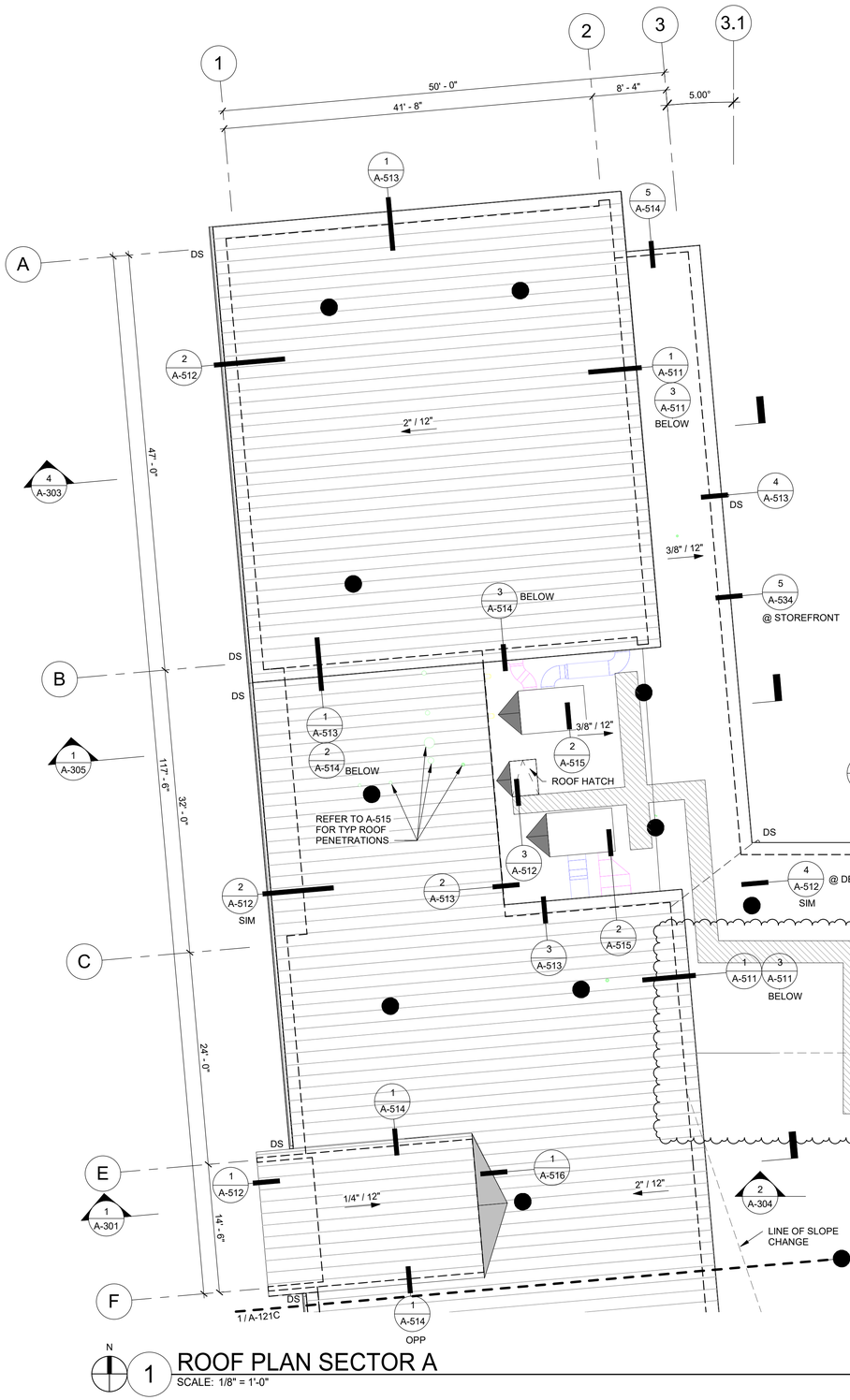
OVERALL ROOF PLAN



A-121

Scale **As indicated**

11/7/2019 9:32:04 PM



N

1 ROOF PLAN SECTOR A

SCALE: 1/8" = 1'-0"

ROOF PLAN GENERAL NOTES

1. ROOF PLANS INDICATE LOCATIONS OF ARCHITECTURAL, STRUCTURAL MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS AND MAY NOT SHOW ALL COMPONENTS ON THE ROOF OR THAT PENETRATE THE ROOF. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING FOR ADDITIONAL INFORMATION. ROOF PENETRATIONS, ROOF ACCESSORIES AND ROOF CURBS TO RECEIVE FLASHING.
2. SEISMICALLY ANCHOR ALL ROOF EQUIPMENT TO CURBS AND PROVIDE UNDER DECK REINFORCING BLOCKING TO PROPERLY ANCHOR.
3. ALL ROOF ELEVATIONS INDICATED ARE TO THE TOP OF DECKING OR TOP OF PLATE UNLESS OTHERWISE NOTED.
4. ALL CRICKETS ARE TO BE SLOPED A MINIMUM OF 1/2" PER FOOT UNLESS OTHERWISE NOTED.
5. TAPERED INSULATION CRICKETS ARE TO BE ADDED OVER THE BASE LAYER INSULATION.
6. FALL ARREST SYSTEM ANCHORS AND STRUCTURAL CONNECTIONS ARE A BIDDER-DESIGNED OR DESIGN-BUILD SYSTEM. LOCATIONS ARE SHOWN FOR GENERAL REFERENCE ONLY.
7. REFER TO BUILDING ELEVATIONS AND SECTIONS FOR ADDITIONAL DETAIL REFERENCES.
8. ALL DIMENSIONS ARE FROM GRIDLINES OR FACE OF FINISH UNLESS OTHERWISE NOTED.

ROOF PLAN SYMBOL LEGEND

- FACE OF WALL BELOW
- INSULATION SLOPE CHANGE
- TAPERED INSULATION CRICKET/SADDLE
- ROOFING SYSTEM WALKWAY
- SCHEMATIC FALL PROTECTION LAYOUT - FOR REFERENCE ONLY SEE 4/S601 FOR TYP DETAIL
- METAL ROOF PANELS
- MEMBRANE ROOFING

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

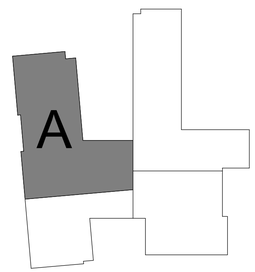
FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

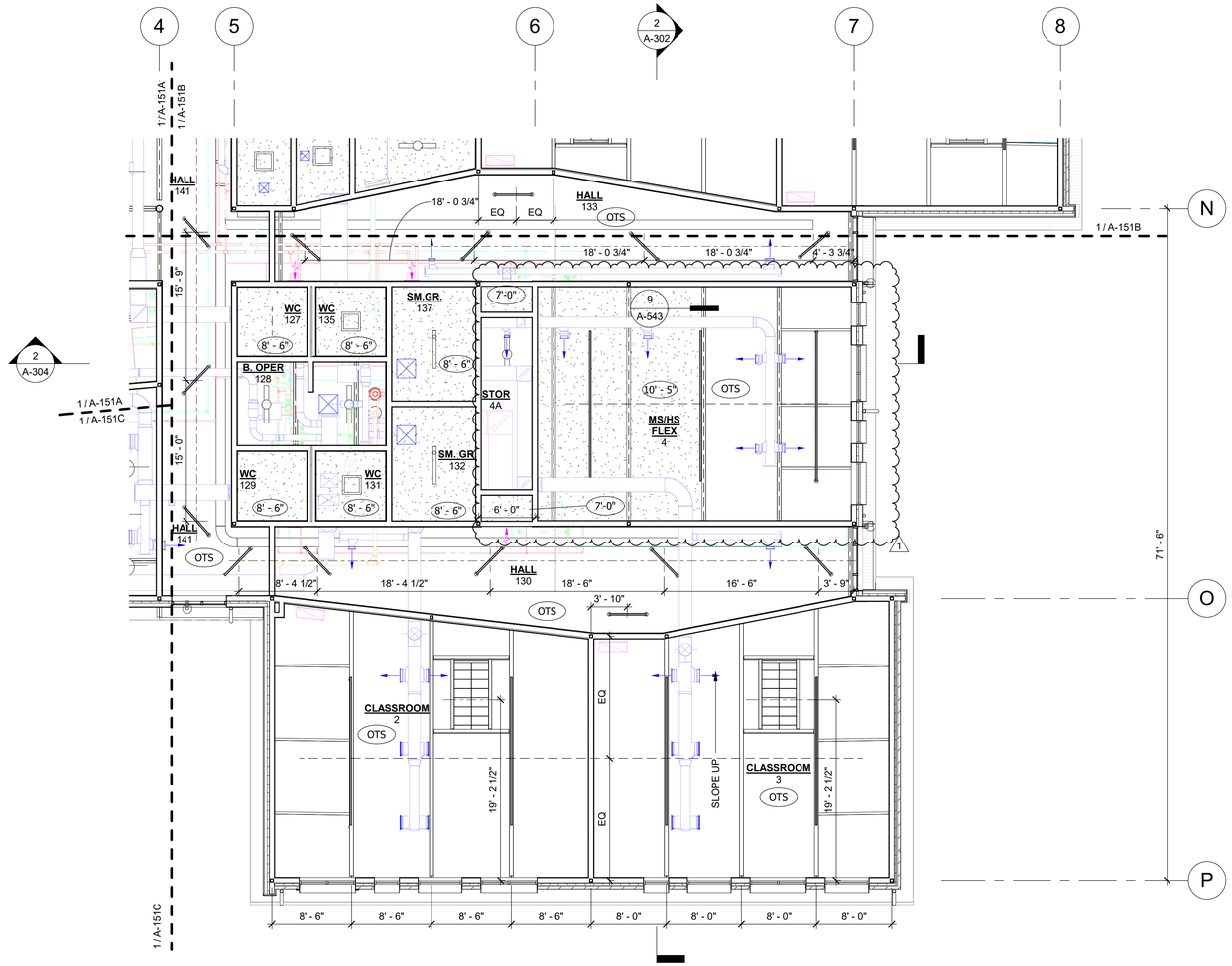
ROOF PLAN SECTOR A



A-121A

Scale **As indicated**

11/7/2019 3:32:07 PM



N 1 LEVEL 1 - REFLECTED CEILING PLAN - SECTOR D

SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN SYMBOL LEGEND

- RETURN AIR DIFFUSER, SEE MECH
- SUPPLY AIR DIFFUSER, SEE MECH
- RECESSED LIGHT FIXTURE, SEE ELECTRICAL
- CAN LIGHT FIXTURE, SEE ELECTRICAL
- PENDANT LIGHT FIXTURE, SEE ELECTRICAL
- 8'-0" CEILING HEIGHT
- OTS OPEN TO STRUCTURE
- 2x4 ACOUSTICAL CEILING TILE
- GYPSUM WALLBOARD CEILING
- EXPOSED METAL DECK
- T&G CEILING

REFLECTED CEILING PLAN GENERAL NOTES

1. REFER TO CODE ANALYSIS SHEETS FOR RATED CONSTRUCTION AND OPENING PROTECTION.
2. RATED WALLS TO EXTEND FULL HEIGHT TO UNDERSIDE OF FLOOR/ROOF DECK OR RATED CEILING SYSTEM.
3. REFLECTED CEILING PLANS INDICATE LOCATIONS OF MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS INTEGRAL WITH CEILINGS AND MAY NOT SHOW ALL COMPONENTS TO BE LOCATED IN OR IN THE CEILINGS. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING FOR ADDITIONAL INFORMATION.
4. MECHANICAL EQUIPMENT AND ELECTRICAL FIXTURES TO BE SUSPENDED INDEPENDENTLY FROM SUSPENDED CEILING SYSTEM.
5. CEILING ELEVATIONS INDICATE THE HEIGHT ABOVE THE FINISHED FLOOR IN THE ROOM OR AREA IN WHICH THE CEILING IS LOCATED. AT RAMPS, STAIRS OR PLATFORMS, CEILING ELEVATIONS ARE FROM THE FINISHED FLOOR OF THE LOWER FLOOR UNLESS OTHERWISE NOTED.
6. TYPICAL CEILING HEIGHT SHALL BE 9'-0" UNLESS OTHERWISE NOTED.
7. REFER TO TYPICAL SUSPENDED CEILING DETAIL 5 / A-543
8. CENTER CEILING GRIDS IN ROOMS UNLESS OTHERWISE INDICATED
9. IN ROOMS AND AREAS WHERE FLOOR & ROOF STRUCTURE ABOVE IS EXPOSED, CLEAN AND PREP STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING ITEMS MEMBERS FOR PAINT.
10. LIGHTS IN SOFFITS TO BE CENTERED UNLESS OTHERWISE NOTED.
11. WHERE CEILINGS ARE PRESENT, INTERIOR PARTITIONS ARE TO EXTEND 6" MINIMUM ABOVE FINISH CEILING HEIGHT UNLESS OTHERWISE NOTED.
12. WHERE CEILINGS ARE NOT PRESENT, INTERIOR PARTITIONS ARE FULL HEIGHT TO UNDERSIDE OF FLOOR/ROOF DECK UNLESS OTHERWISE NOTED.
13. REFER TO TYPICAL WALL BRACING DETAIL 2 / S406
14. ALL DIMENSIONS ARE FROM GRIDLINES OR FACE OF FINISH UNLESS OTHERWISE NOTED.

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

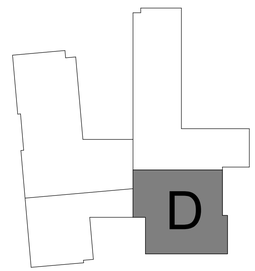
FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

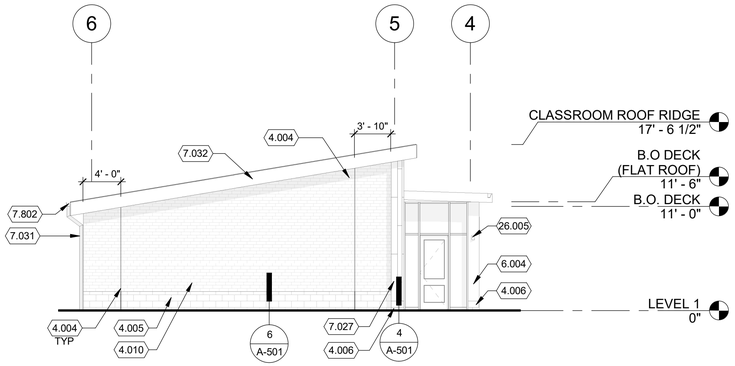
REFLECTED CEILING PLAN - SECTOR D



A-151D

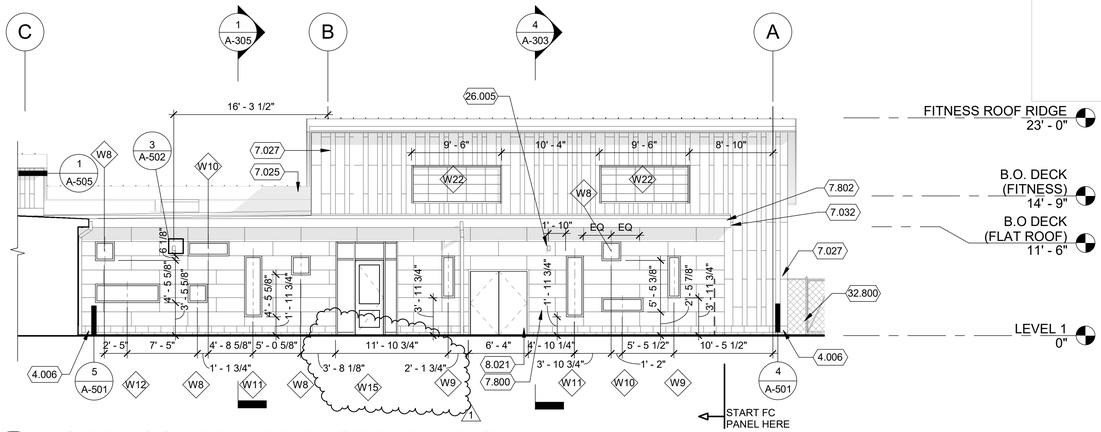
Scale **As indicated**

11/7/2019 3:32:11 PM



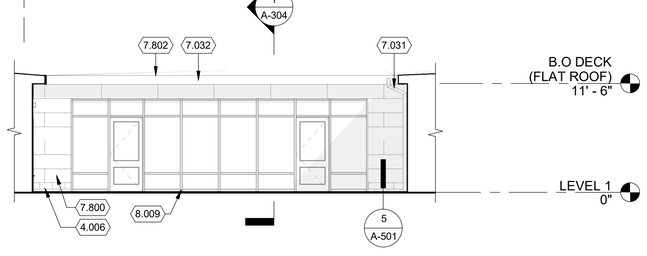
1 NORTH CLASSROOM ELEVATION

SCALE: 1/8" = 1'-0"



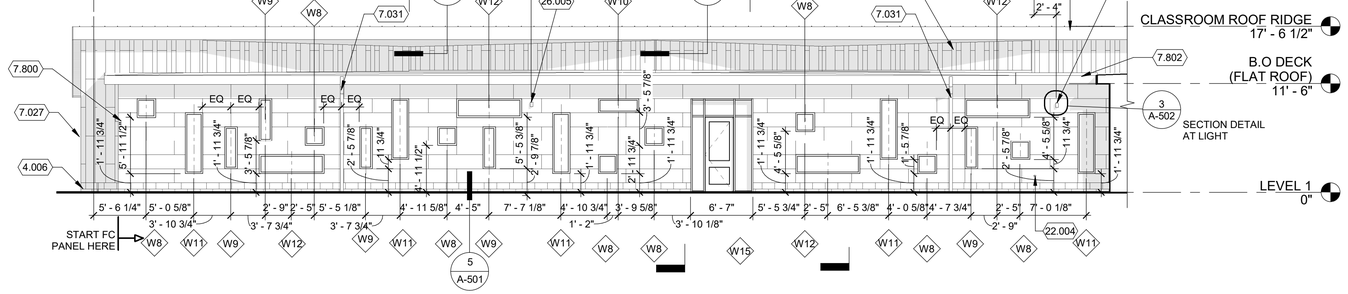
2 NORTH COURTYARD EAST ELEVATION

SCALE: 1/8" = 1'-0"



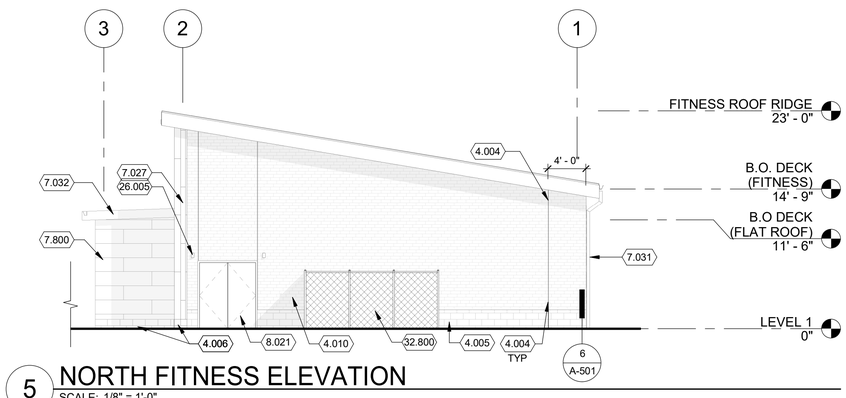
3 NORTH COURTYARD SOUTH ELEVATION

SCALE: 1/8" = 1'-0"



4 NORTH COURTYARD WEST ELEVATION

SCALE: 1/8" = 1'-0"



5 NORTH FITNESS ELEVATION

SCALE: 1/8" = 1'-0"

KEYNOTE LEGEND	
Key Value	Keynote Text
4.004	CONTROL JOINT
4.005	CMU-1
4.006	CMU-2
4.010	FACING BRICK -1
6.004	FIBERGLASS REINFORCED PANEL
7.025	KETONE ETHYLENE ESTER MEMBRANE ROOFING
7.027	METAL WALL PANEL
7.031	PAINTED PVC DOWNSPOUT
7.032	PREFINISHED SHEET METAL FLASHING/TRIM
7.800	FIBER CEMENT SIDING
7.802	PREFINISHED METAL GUTTER
8.009	ALUMINUM-FRAMED STOREFRONT
8.021	HOLLOW METAL DOOR AND FRAME
22.004	HOSE BIB
26.005	LIGHT FIXTURE
32.800	FENCE

EXTERIOR ELEVATIONS GENERAL NOTES

1. ALL DIMENSIONS ARE FROM GRIDLINES OR FACE OF FINISH UNLESS OTHERWISE NOTED.
2. LOCATION AND SPACING OF MASONRY CONTROL JOINTS ARE TO BE AS SHOWN ON EXTERIOR ELEVATIONS UNLESS OTHERWISE NOTED.
3. MATERIAL JOINTS ARE TO BE EQUALLY SPACED AND/OR CENTERED WITH ADJACENT ELEMENTS AS SHOWN UNLESS OTHERWISE NOTED.
4. REFER TO DOOR AND WINDOW TYPES FOR DOOR, WINDOW AND LOUVER DIMENSIONS, LOCATION AND SPACING OF MULLIONS/FRAME MEMBERS AND TYPICAL DETAIL REFERENCES.

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

revisions

1	ADDENDUM #1	11/8/2019

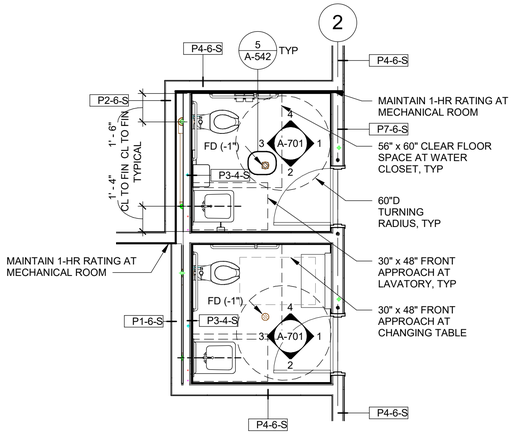
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

BUILDING ELEVATIONS

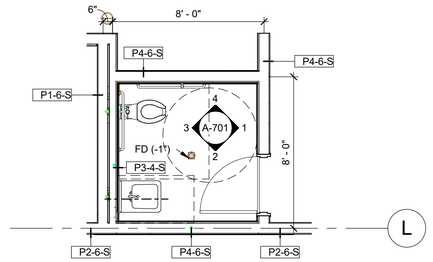
A-205

Scale **As indicated**

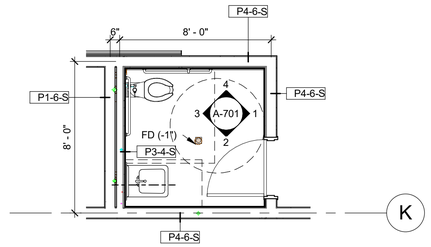
11/7/2019 3:32:19 PM



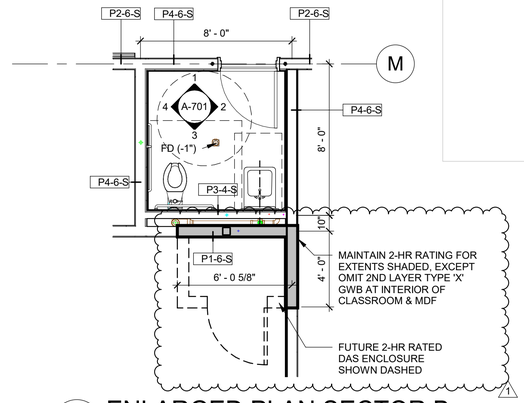
1 ENLARGED PLAN SECTOR A
SCALE: 1/4" = 1'-0"



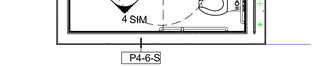
3 ENLARGED PLAN SECTOR B
SCALE: 1/4" = 1'-0"



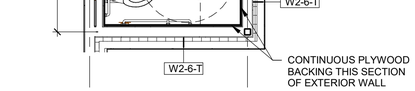
2 ENLARGED PLAN SECTOR B
SCALE: 1/4" = 1'-0"



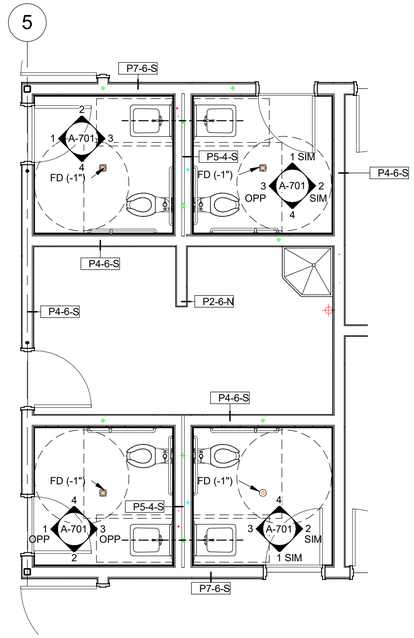
4 ENLARGED PLAN SECTOR B
SCALE: 1/4" = 1'-0"



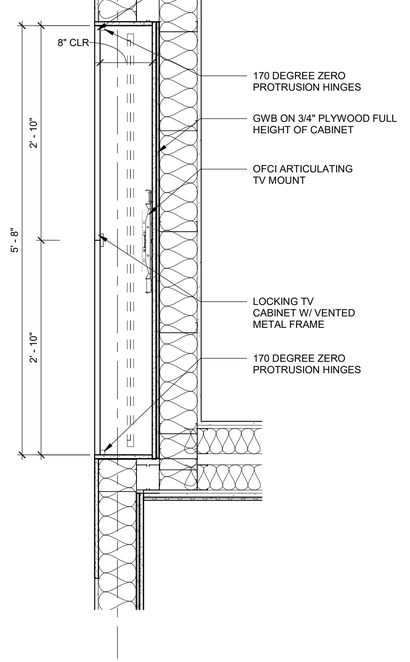
5 ENLARGED PLAN SECTOR C
SCALE: 1/4" = 1'-0"



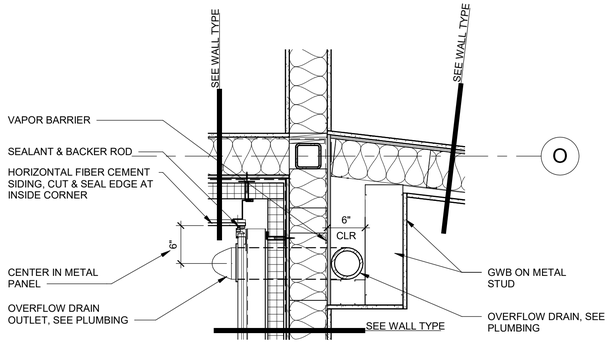
6 ENLARGED PLAN SECTOR C
SCALE: 1/4" = 1'-0"



7 ENLARGED PLAN SECTOR D
SCALE: 1/4" = 1'-0"



8 DETAIL AT FITNESS TV
SCALE: 1" = 1'-0"



9 PLAN DETAIL AT OVERFLOW
SCALE: 1" = 1'-0"

11/7/2019 3:32:26 PM

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

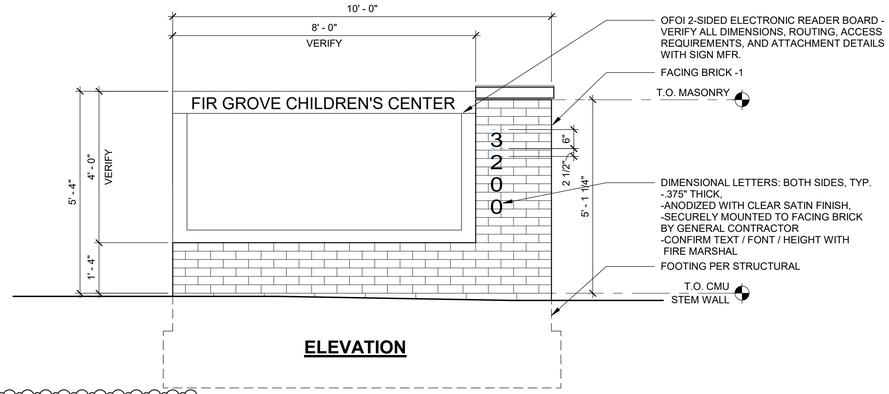
revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

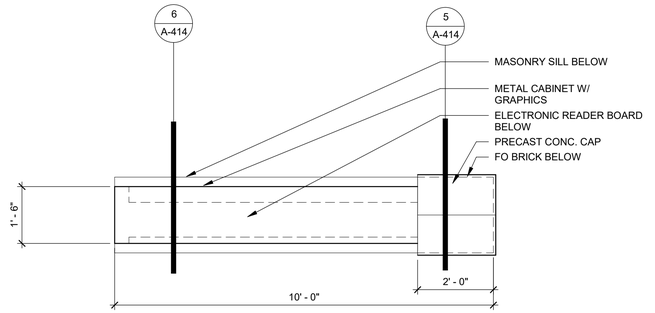
ENLARGED PLANS

A-401

Scale **As indicated**

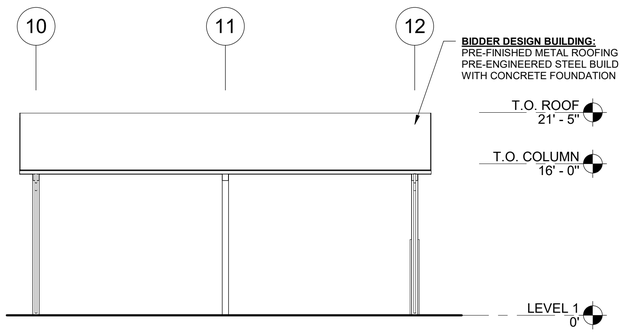


ELEVATION

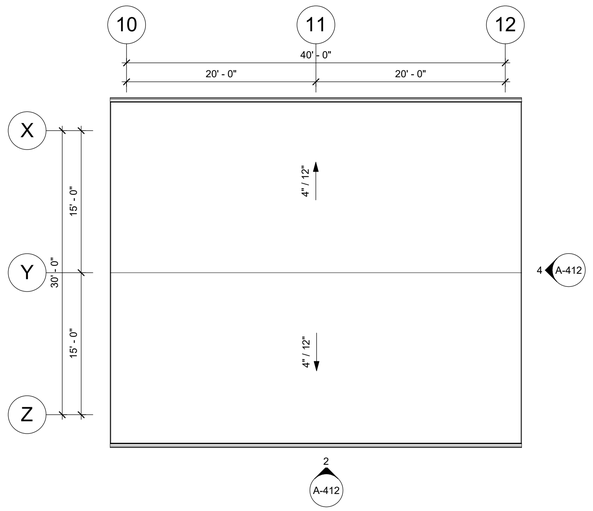


PLAN

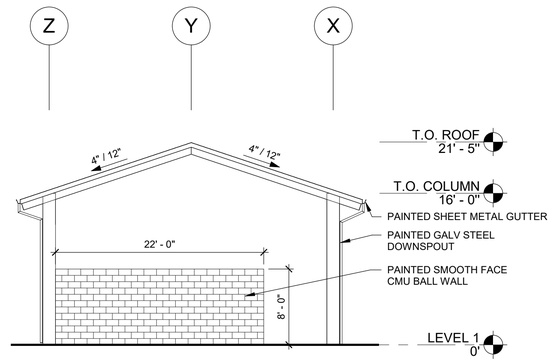
1 MONUMENT SIGN
SCALE: 1/2" = 1'-0"



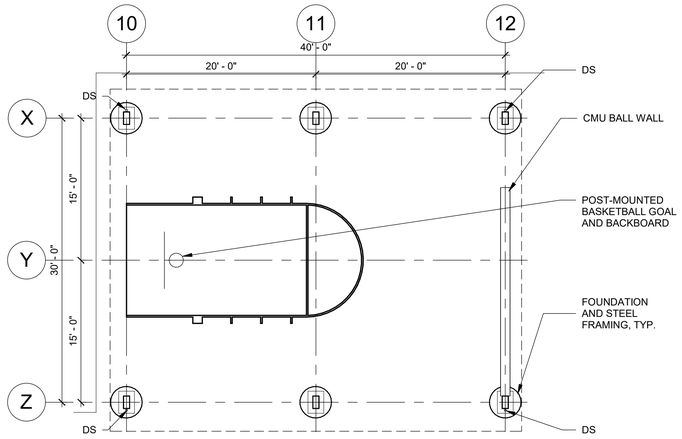
2 COVERED PLAY - FRONT ELEVATION
SCALE: 1/8" = 1'-0"



3 COVERED PLAY - ROOF PLAN
SCALE: 1/8" = 1'-0"



4 COVERED PLAY - SIDE ELEVATION
SCALE: 1/8" = 1'-0"



5 COVERED PLAY - FLOOR PLAN
SCALE: 1/8" = 1'-0"

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

revisions
1 ADDENDUM #1 11/8/2019

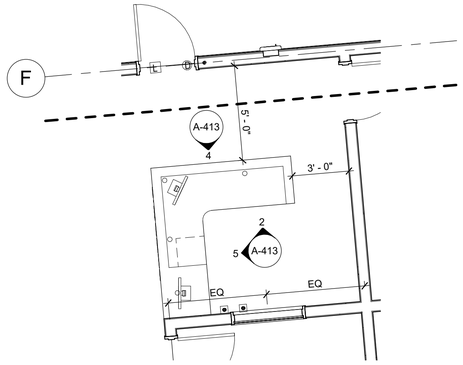
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

ENLARGED PLANS / SITE STRUCTURES

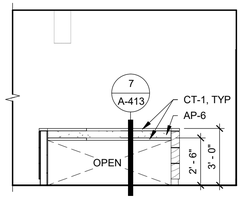
A-412

Scale **As indicated**

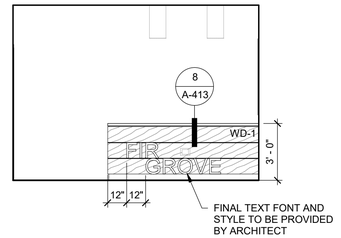
11/7/2019 3:32:27 PM



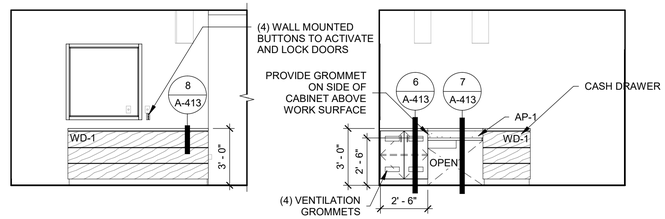
1 ENLARGED RECEPTION DESK PLAN
SCALE: 1/4" = 1'-0"



2 RECEPTION DESK N
SCALE: 1/4" = 1'-0"

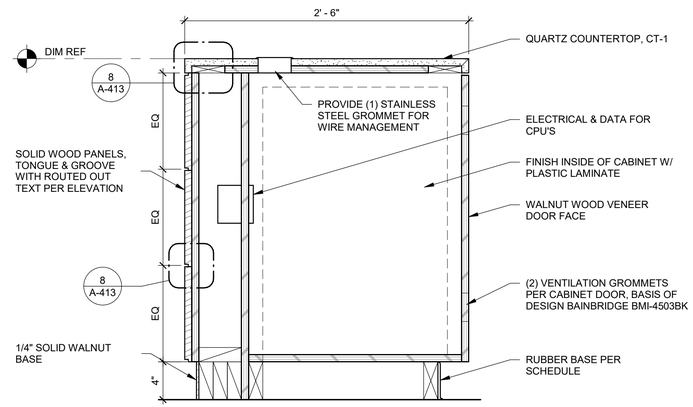


3 RECEPTION DESK E
SCALE: 1/4" = 1'-0"

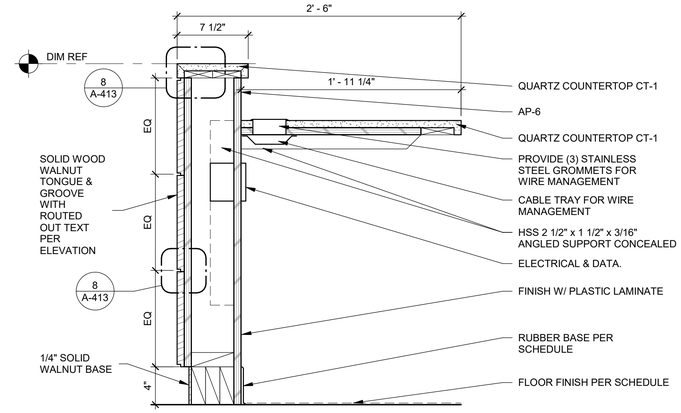


4 RECEPTION DESK S
SCALE: 1/4" = 1'-0"

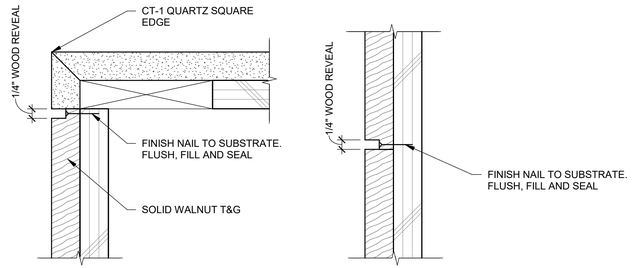
5 RECEPTION DESK W
SCALE: 1/4" = 1'-0"



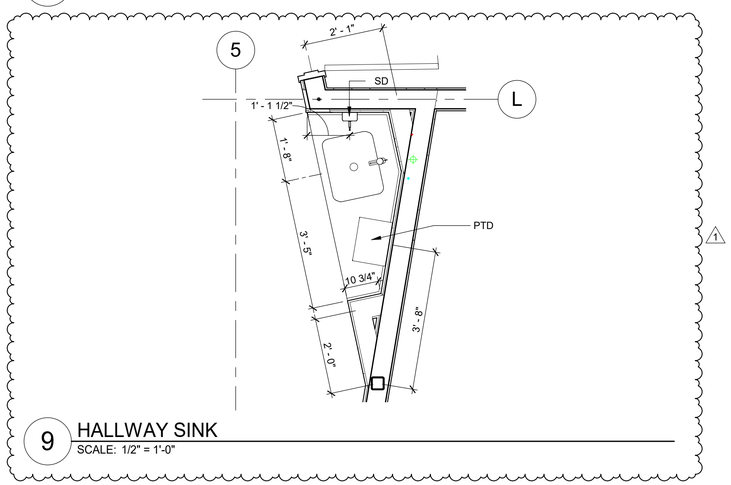
6 COUNTER DETAIL @ CASEWORK
SCALE: 1 1/2" = 1'-0"



7 COUNTER DETAIL @ RECEPTION DESK
SCALE: 1 1/2" = 1'-0"



8 ENLARGED COUNTER DETAIL
SCALE: 6" = 1'-0"



9 HALLWAY SINK
SCALE: 1/2" = 1'-0"

11/7/2019 3:32:31 PM

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

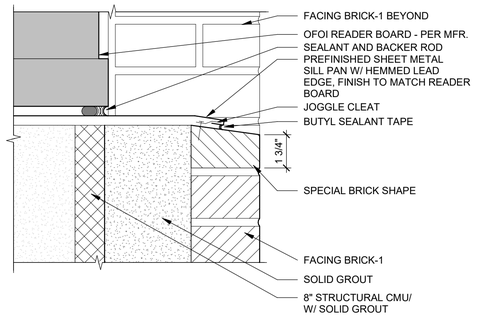
revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

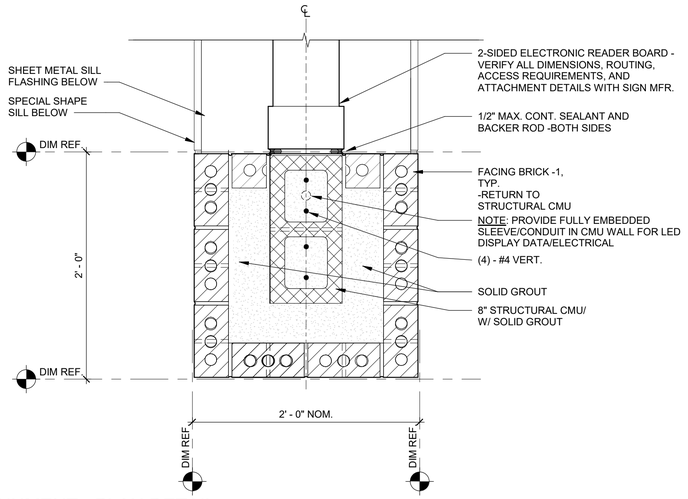
ENLARGED PLANS AND DETAILS / RECEPTION DESK

A-413

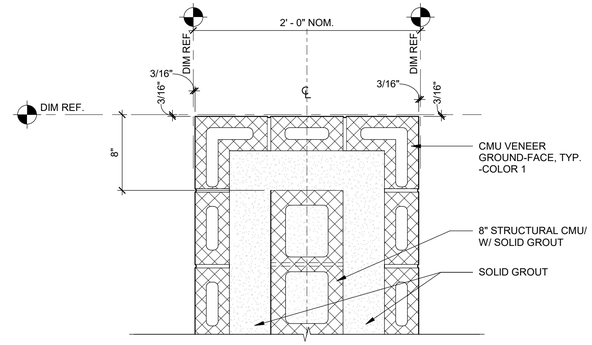
Scale **As indicated**



1 MONUMENT SIGN - BRICK SILL
SCALE: 3" = 1'-0"

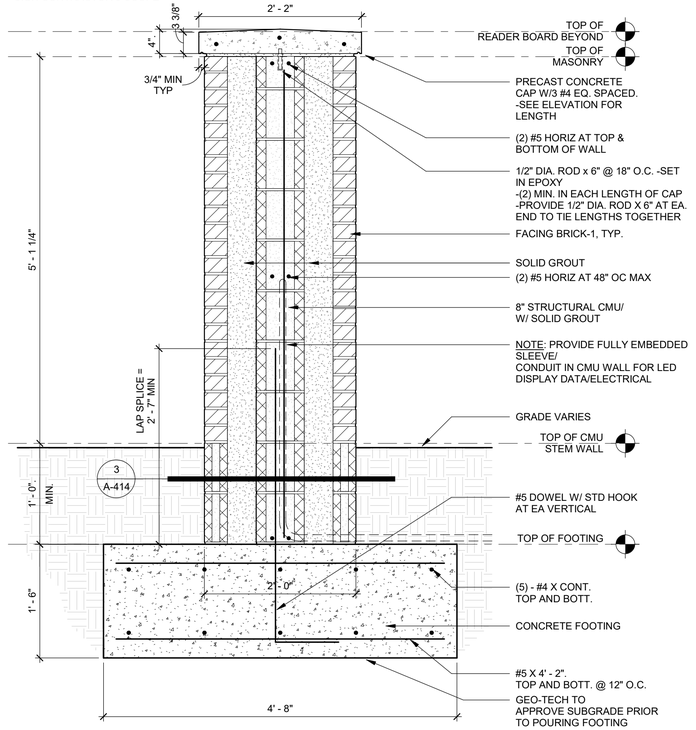


2 MONUMENT - PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



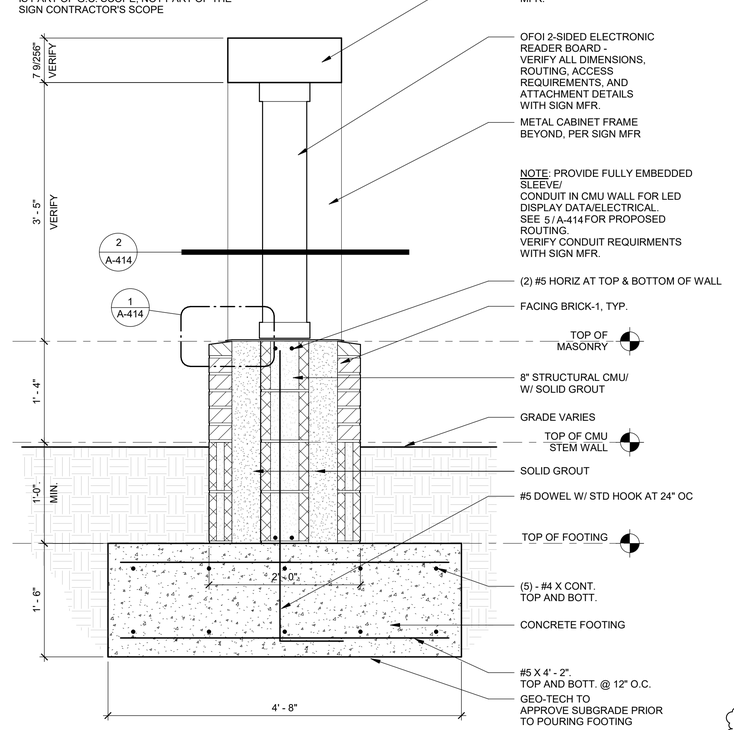
3 MONUMENT - PLAN DETAIL
SCALE: 1 1/2" = 1'-0"

NOTE: CONCRETE FOOTING/STEM WALL, STRUCTURAL CMU, BRICK/CMU VENEER, PRECAST CAP, SHEET METAL, AND FLASHING IS PART OF G.C. SCOPE, NOT PART OF THE SIGN CONTRACTOR'S SCOPE



5 MONUMENT SIGN SECTION
SCALE: 1" = 1'-0"

NOTE: CONCRETE FOOTING/STEM WALL, STRUCTURAL CMU, BRICK/CMU VENEER, PRECAST CAP, SHEET METAL, AND FLASHING IS PART OF G.C. SCOPE, NOT PART OF THE SIGN CONTRACTOR'S SCOPE



6 MONUMENT SIGN SECTION - READER BOARD
SCALE: 1" = 1'-0"

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

revisions
1 ADDENDUM #1 11/8/2019

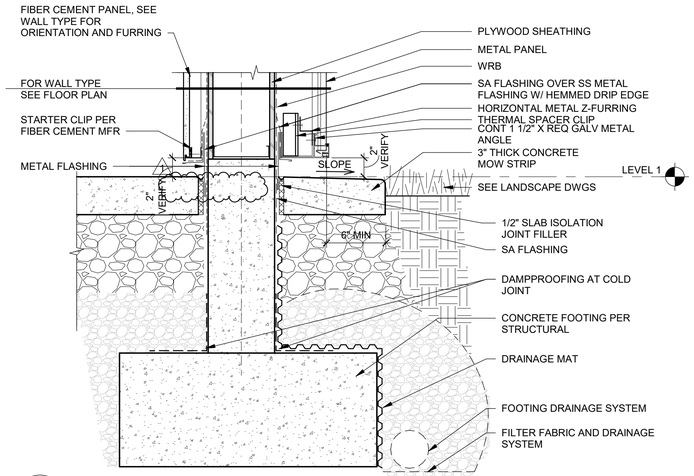
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

ENLARGED PLANS / SITE STRUCTURES

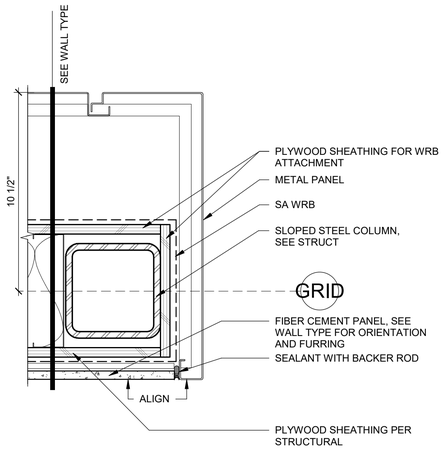
A-414

Scale **As indicated**

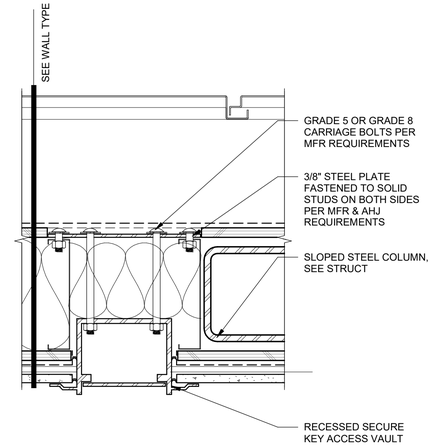
11/7/2019 3:32:31 PM



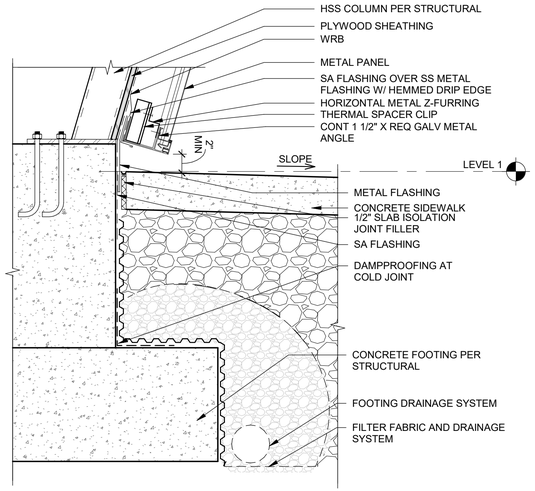
1 METAL PANEL @ FOUNDATION / SIDEWALK
SCALE: 1 1/2" = 1'-0"



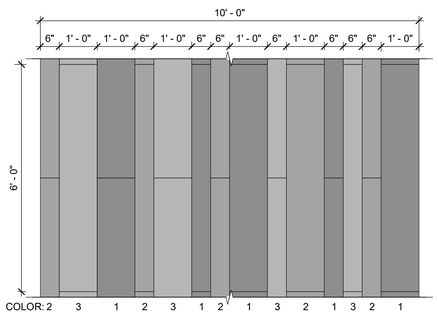
2 FC SIDING TO METAL PANEL TRANSITION @ ENTRY
SCALE: 3" = 1'-0"



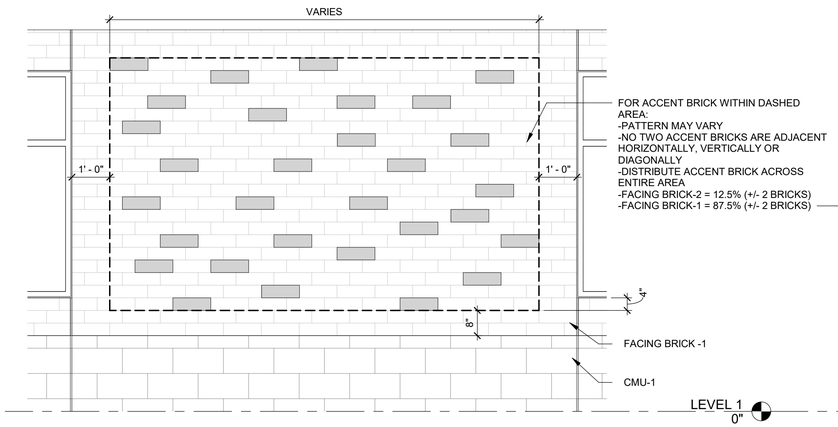
7 SECURE KEY ACCESS VAULT PLAN DETAIL
SCALE: 3" = 1'-0"
1



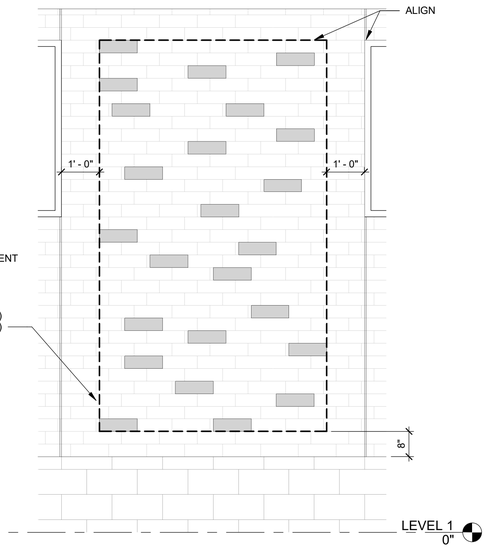
4 METAL PANEL @ SIDEWALK / ENTRY
SCALE: 1 1/2" = 1'-0"



3 TYPICAL METAL PANEL PATTERN
SCALE: 1/2" = 1'-0"



5 ENLARGED ELEVATION - TYPICAL ACCENT BRICK
SCALE: 1/2" = 1'-0"



6 ENLARGED ELEVATION - FITNESS ACCENT BRICK
SCALE: 1/2" = 1'-0"

11/7/2019 3:32:34 PM

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

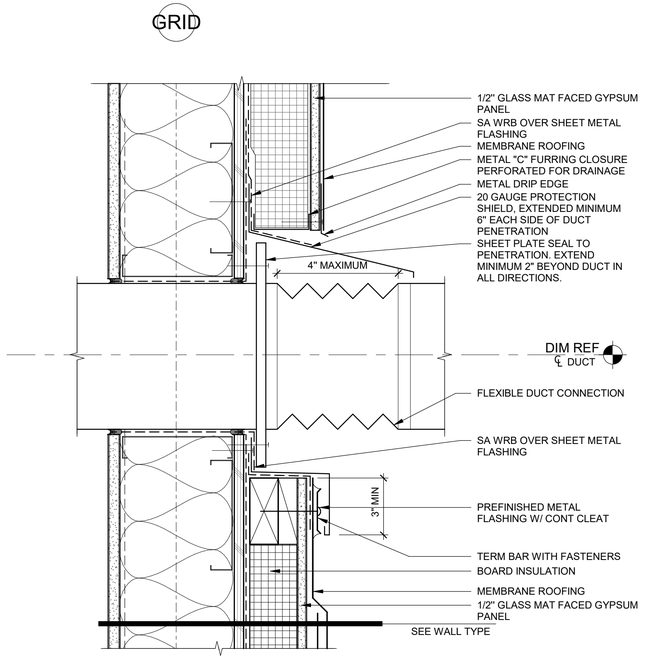
revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

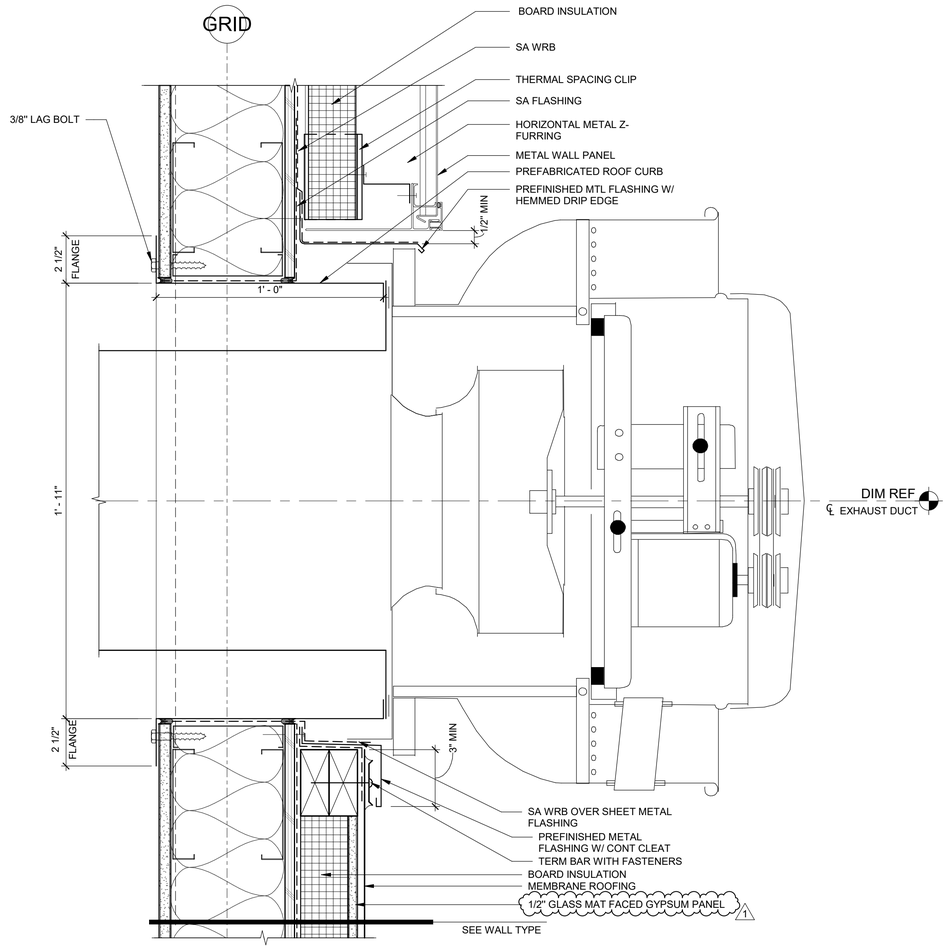
EXTERIOR DETAILS

A-503

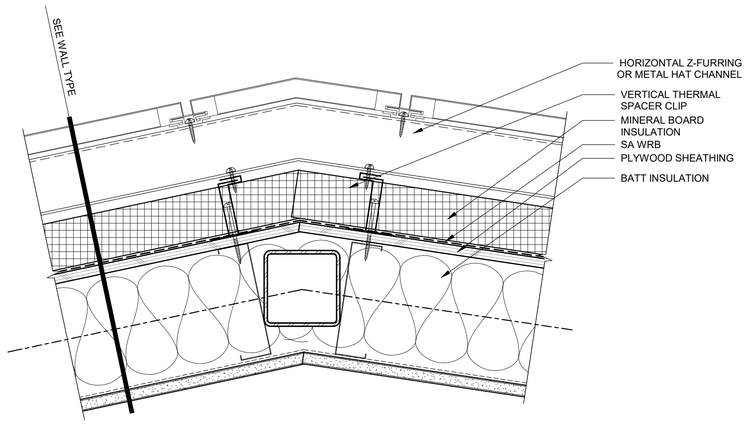
Scale **As indicated**



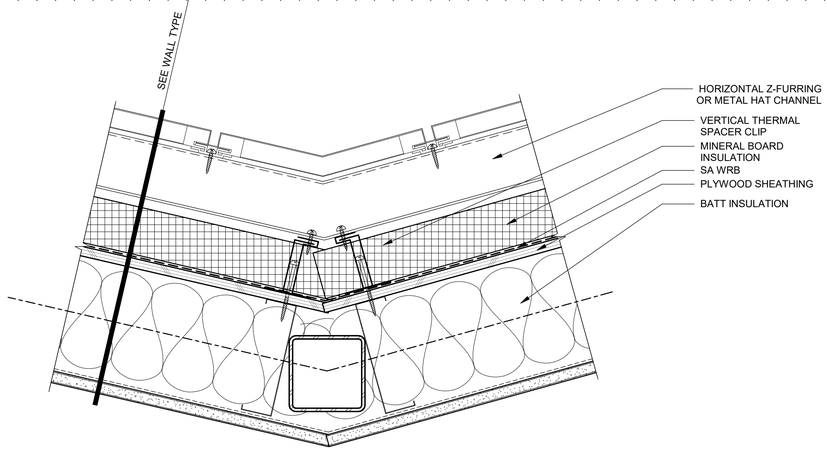
1 TYPICAL SIDEWALL DUCT PENETRATION @ MEMBRANE ROOF
SCALE: 3" = 1'-0"



2 SIDEWALL KITCHEN EXHAUST PENETRATION @ METAL PANEL
SCALE: 3" = 1'-0"



3 METAL PANEL OUTSIDE CORNER
SCALE: 3" = 1'-0"



4 METAL PANEL INSIDE CORNER
SCALE: 3" = 1'-0"

1

11/7/2019 3:32:35 PM

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

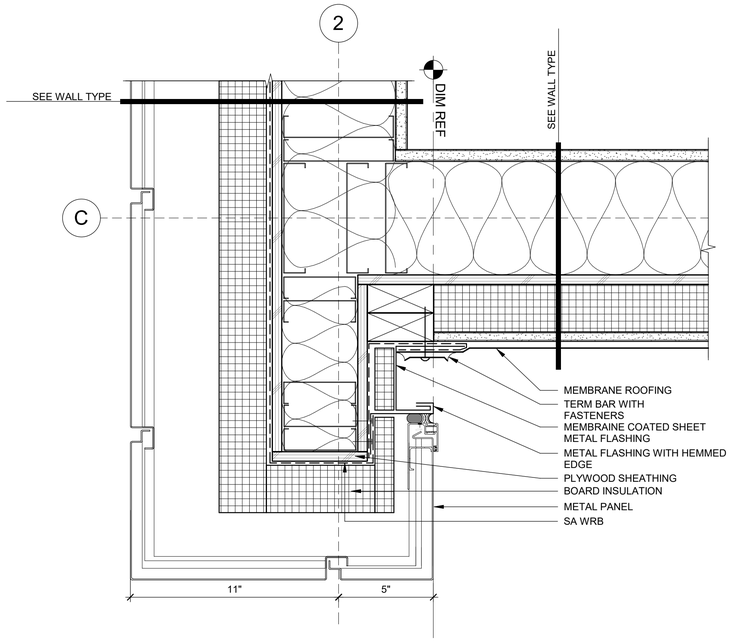
revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

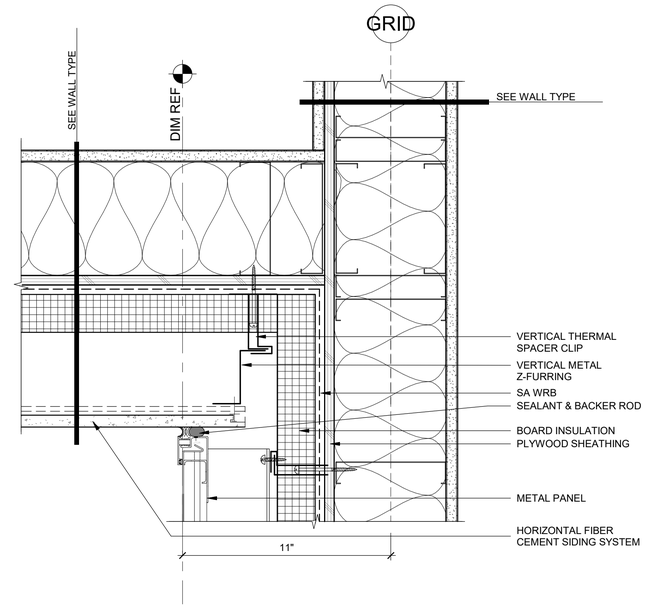
EXTERIOR DETAILS

A-504

Scale **3" = 1'-0"**



1 INSIDE CORNER @ METAL PANEL AND MEMBRANE ROOFING
SCALE: 3" = 1'-0"



2 INSIDE CORNER @ FIBER CEMENT AND METAL PANEL
SCALE: 3" = 1'-0"

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

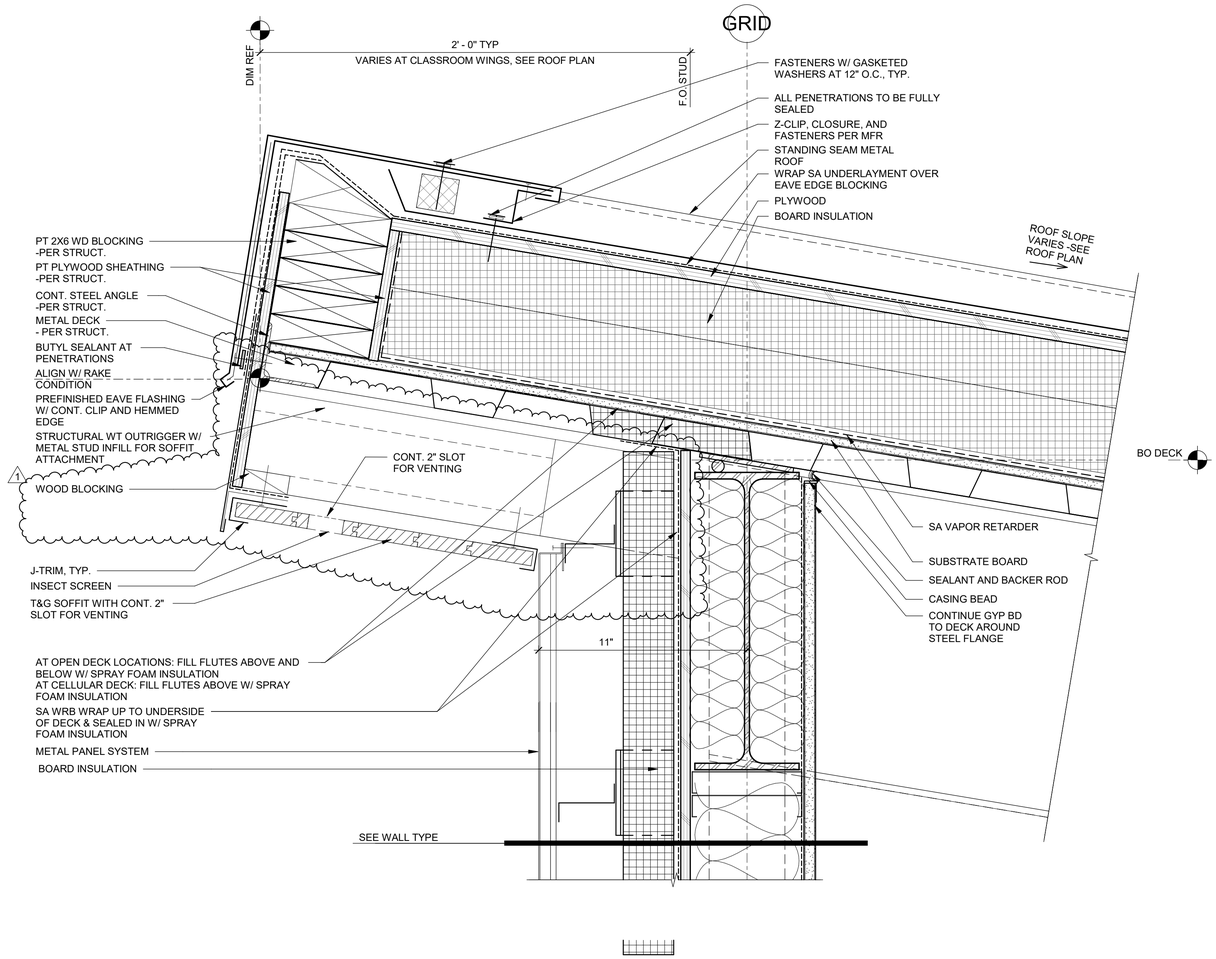
revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

EXTERIOR DETAILS

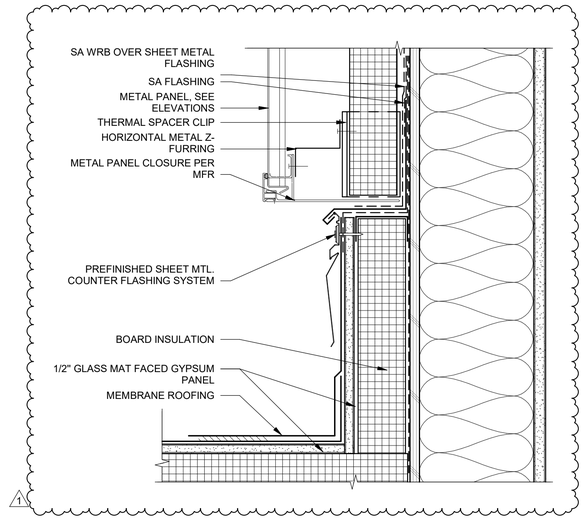
1
A-505
Scale **3" = 1'-0"**

11/7/2019 3:32:35 PM



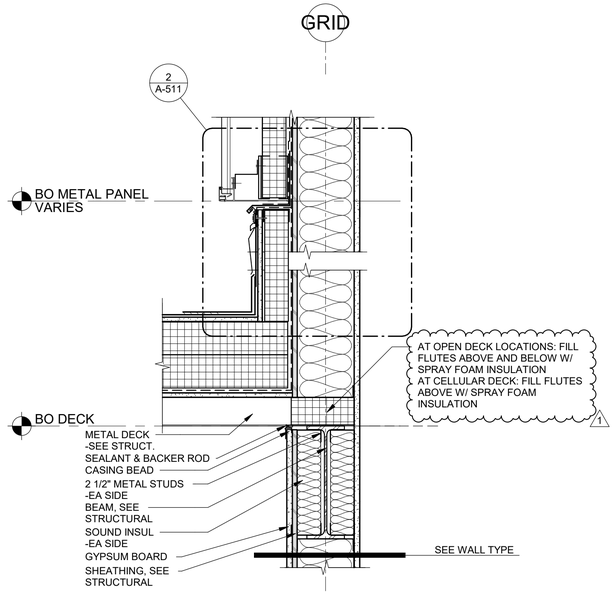
1 HIGH SOFFIT TO WALL STANDING SEAM

SCALE: 3" = 1'-0"



2 ROOFING TO METAL PANEL

SCALE: 3" = 1'-0"



3 ROOFING TO METAL PANEL

SCALE: 1 1/2" = 1'-0"

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

revisions
1 ADDENDUM #1 11/8/2019

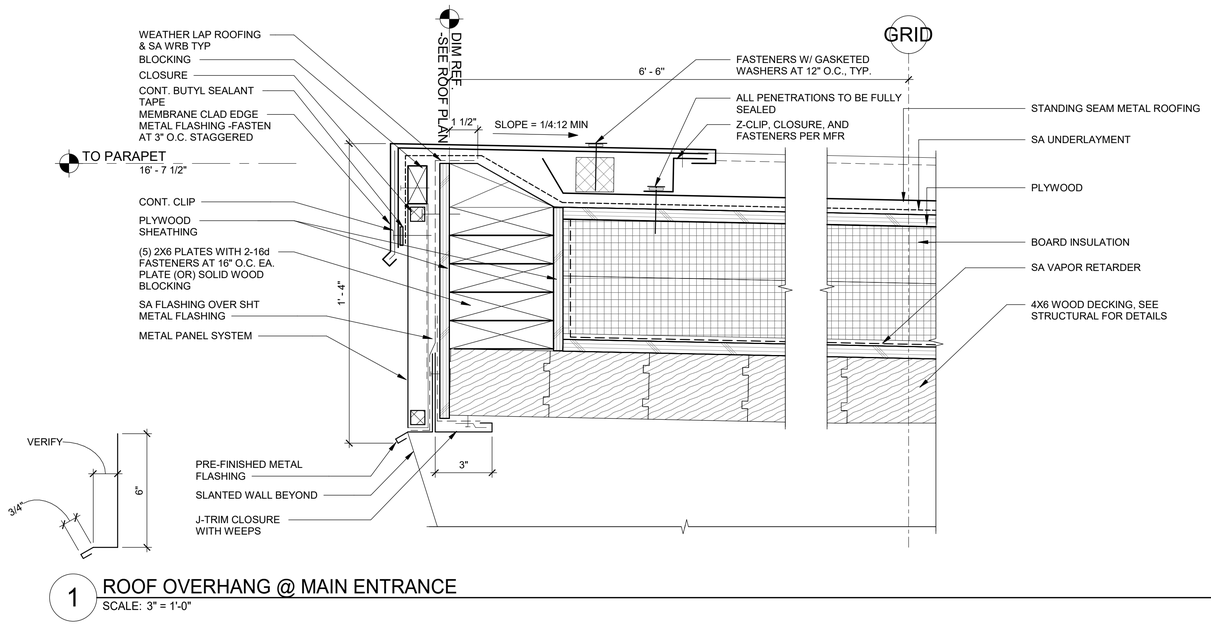
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

ROOF DETAILS

A-511

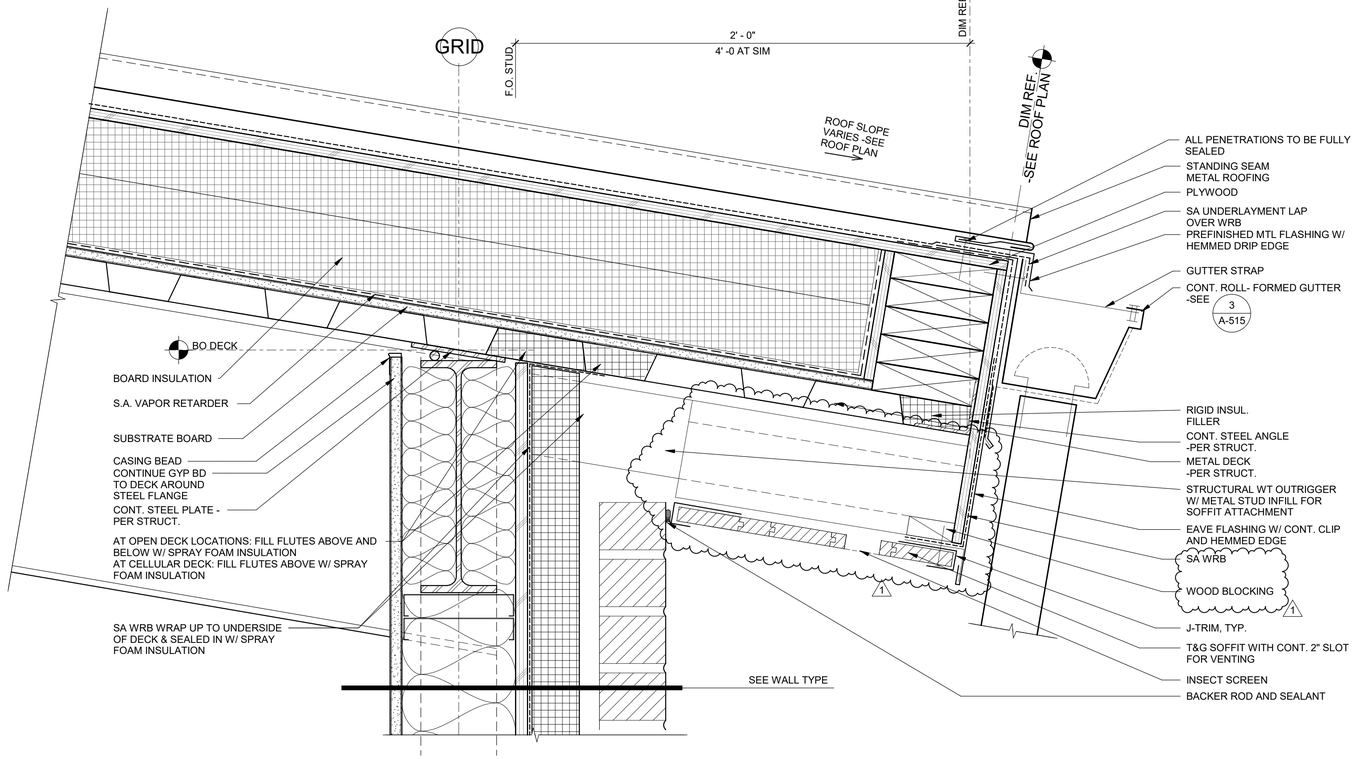
Scale **As indicated**

11/7/2019 3:32:36 PM



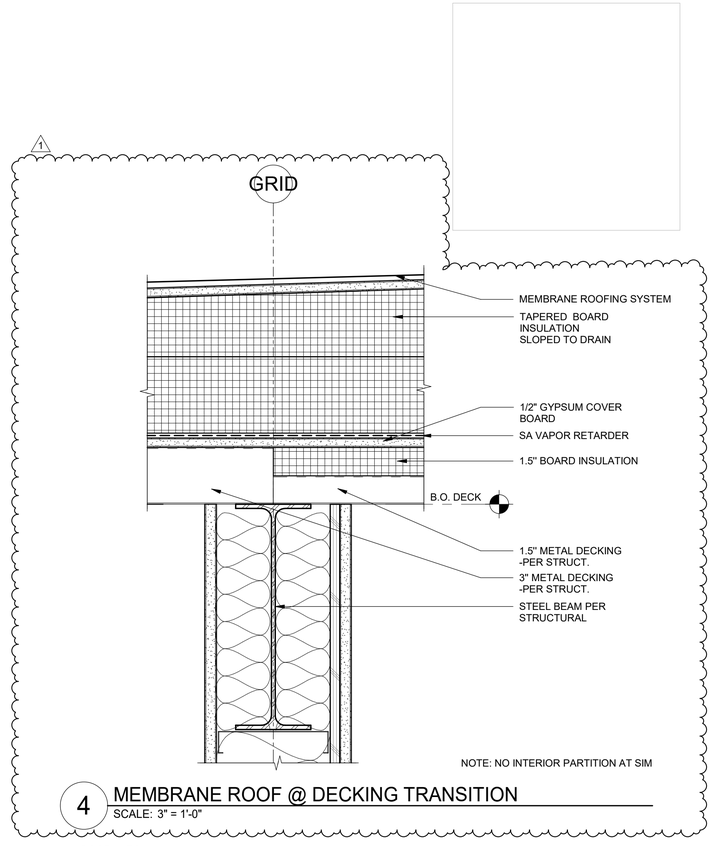
1 ROOF OVERHANG @ MAIN ENTRANCE

SCALE: 3" = 1'-0"



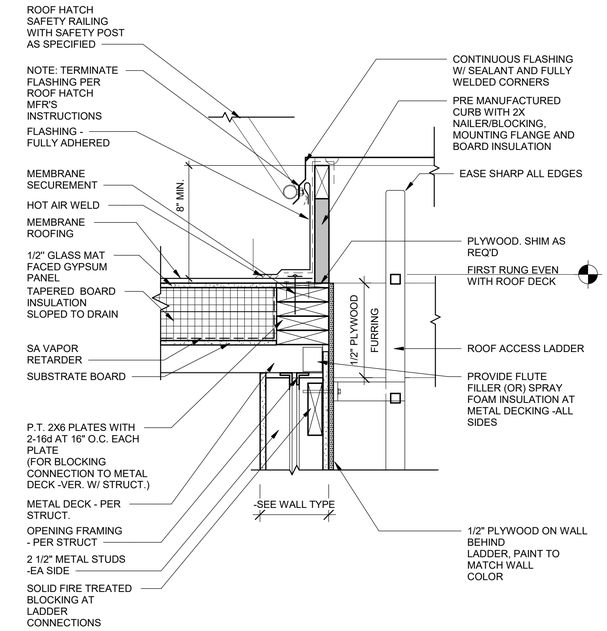
2 LOW SOFFIT TO WALL STANDING SEAM

SCALE: 3" = 1'-0"



4 MEMBRANE ROOF @ DECKING TRANSITION

SCALE: 3" = 1'-0"



3 ROOF HATCH/LADDER

SCALE: 1 1/2" = 1'-0"

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

revisions
1 ADDENDUM #1 11/8/2019

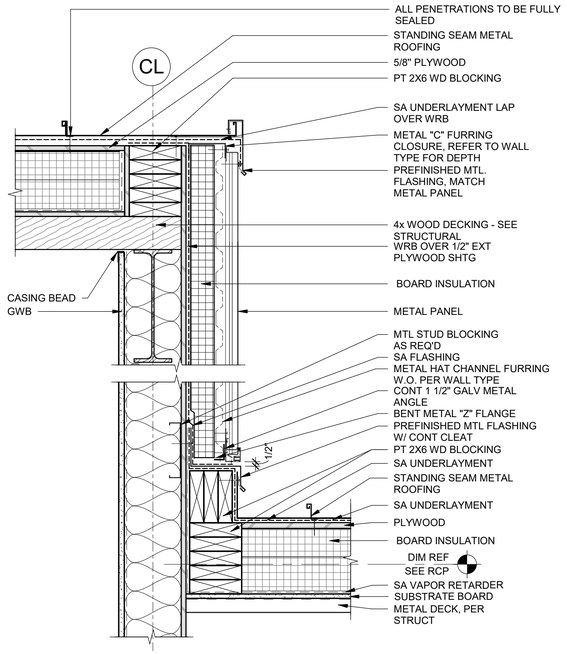
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

ROOF DETAILS

A-512

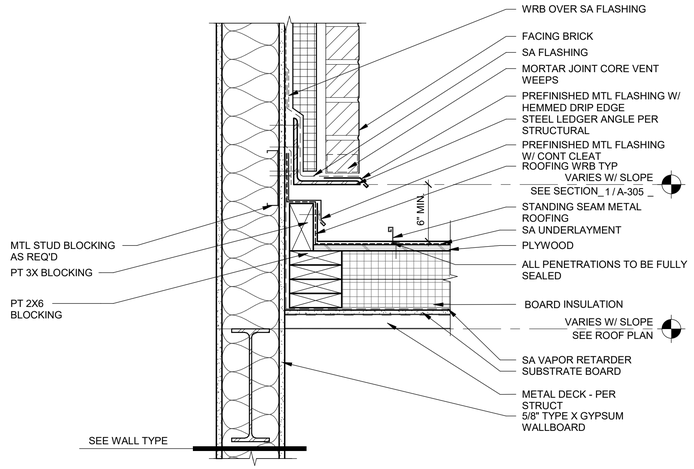
Scale **As indicated**

11/7/2019 3:32:38 PM



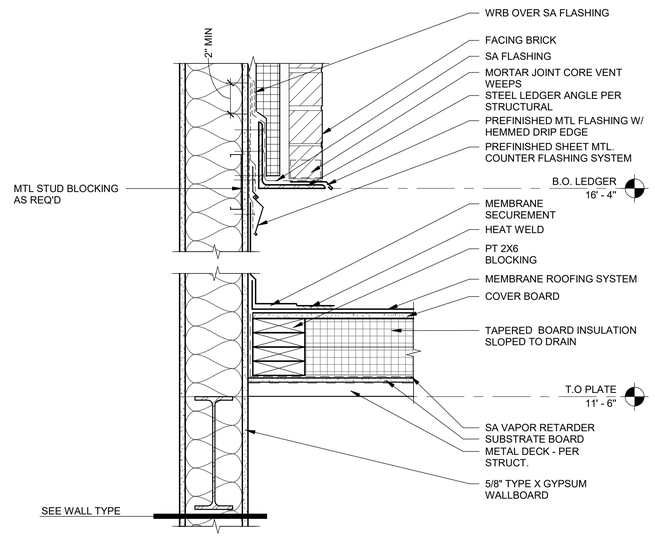
1 ROOF TO WALL TRANSITION @ MAIN ENTRANCE

SCALE: 1 1/2" = 1'-0"



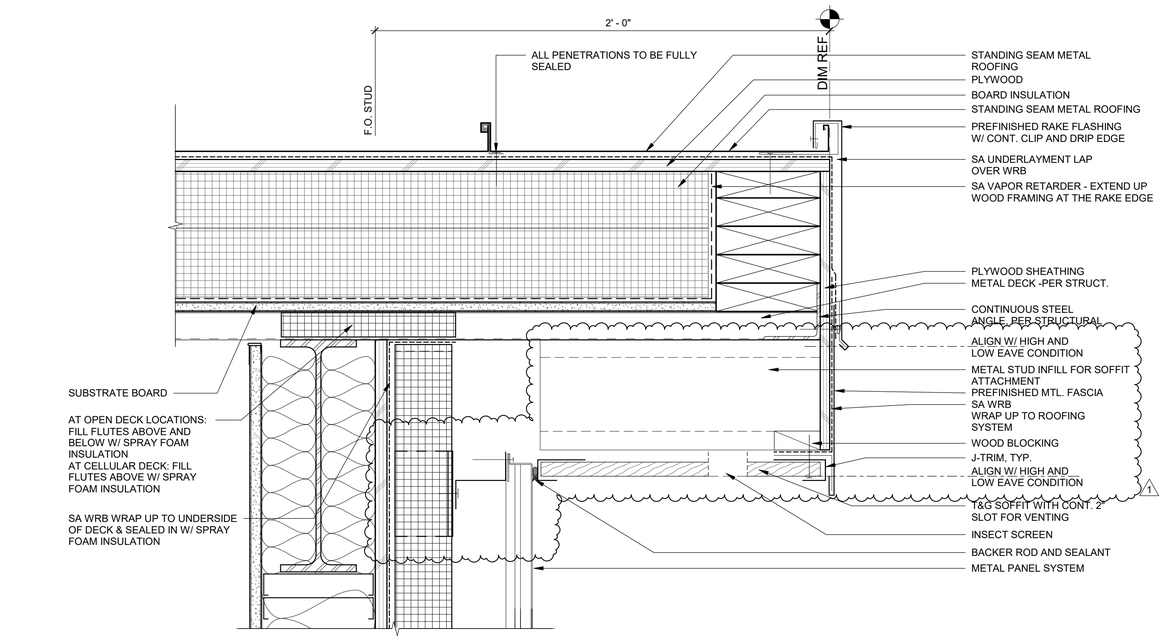
2 METAL ROOF @ RAKE / BRICK VENEER ABOVE

SCALE: 1 1/2" = 1'-0"



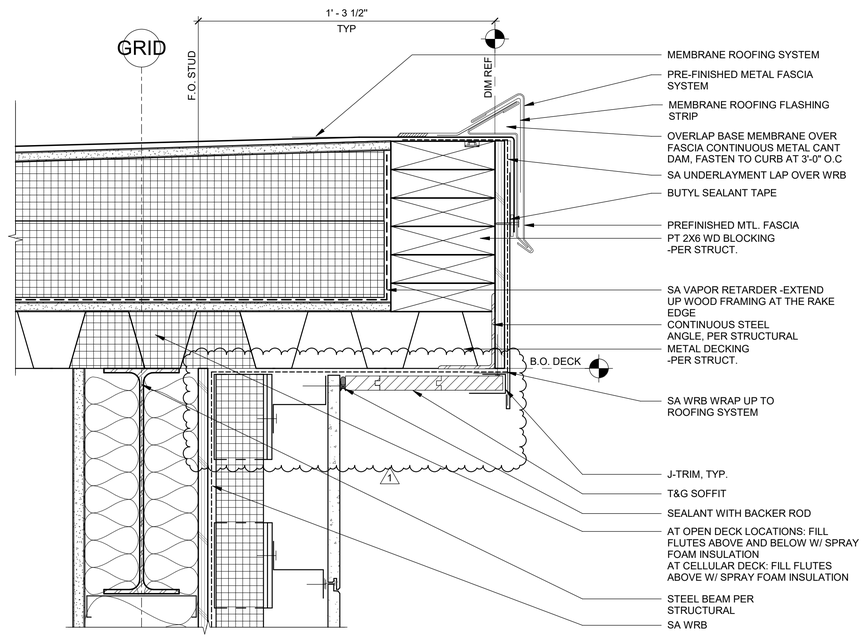
3 MEMBRANE ROOF @ RAKE / BRICK VENEER ABOVE

SCALE: 1 1/2" = 1'-0"



4 RAKE EDGE STANDING SEAM @ METAL PANEL

SCALE: 3" = 1'-0"



5 MEMBRANE ROOF @ RAKE

SCALE: 3" = 1'-0"

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

revisions
1 ADDENDUM #1 11/8/2019

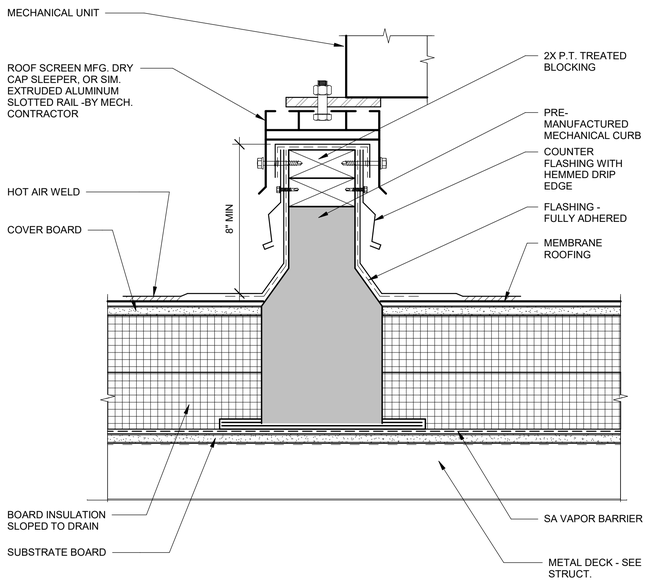
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

ROOF DETAILS

A-514

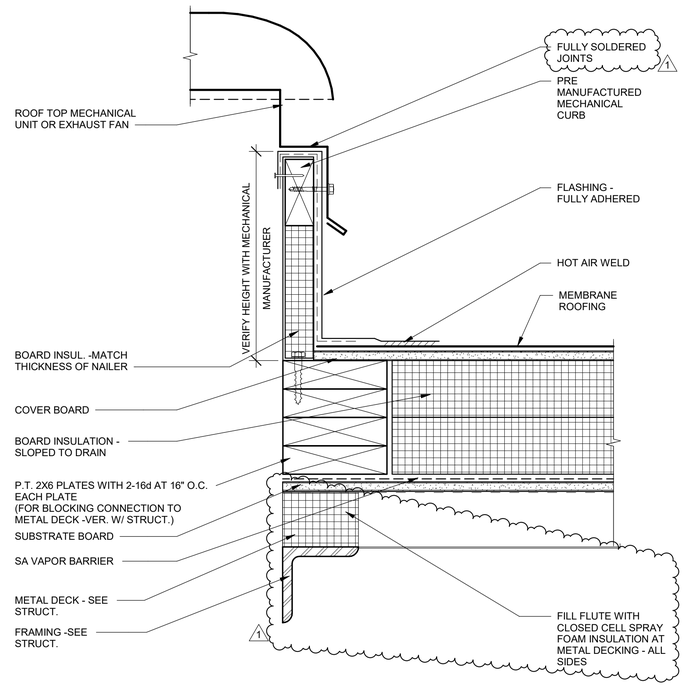
Scale **As indicated**

11/7/2019 3:32:40 PM

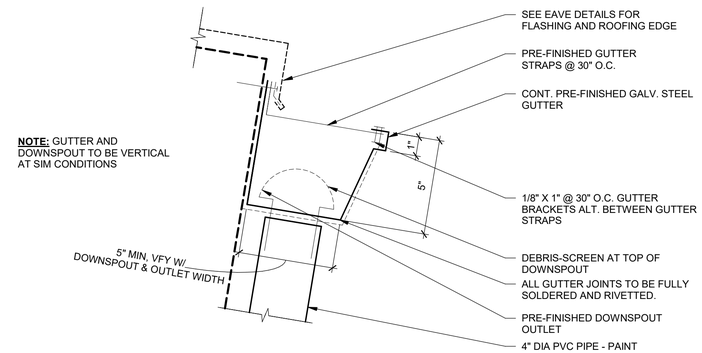


NOTE: ATTACHMENT TO THE DECKING TO BE ENGINEERED BY SUBCONTRACTOR.

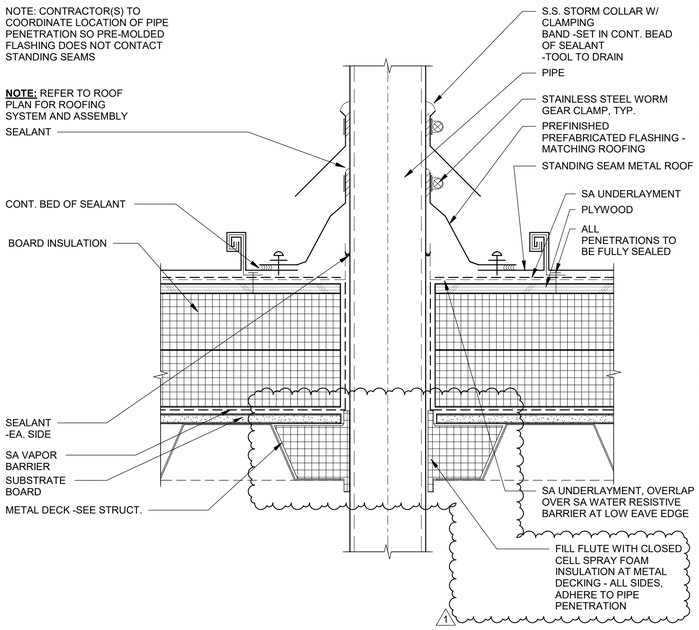
1 MECHANICAL CURB
SCALE: 3" = 1'-0"



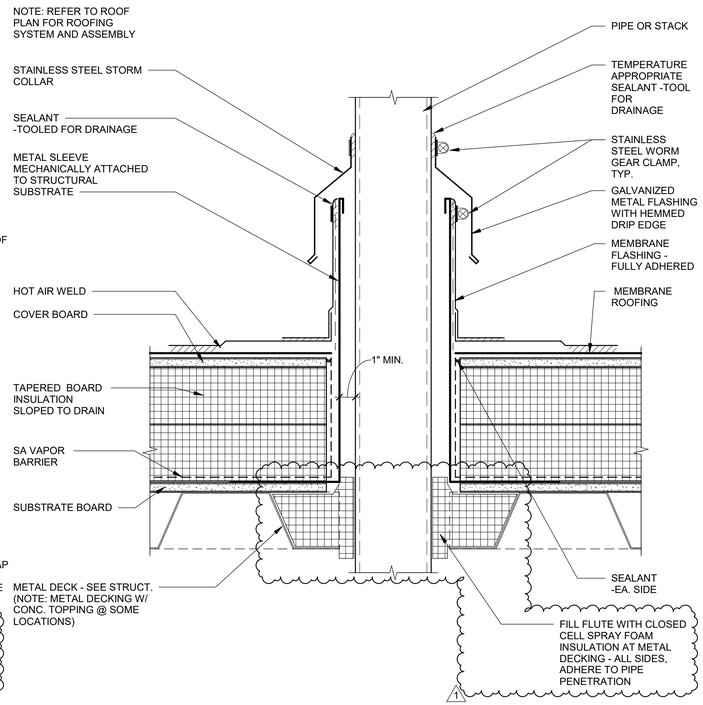
2 MECHANICAL CURB AT EXHAUST FANS
SCALE: 3" = 1'-0"



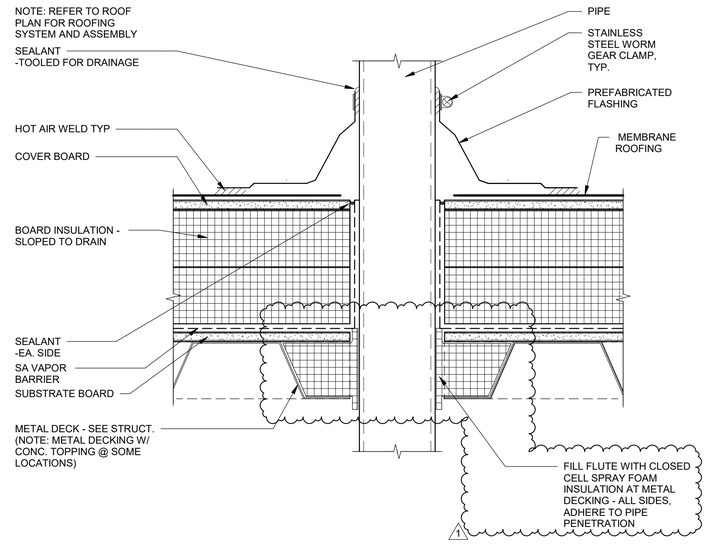
3 SHEET METAL GUTTER @ DOWNSPOUT
SCALE: 3" = 1'-0"



4 ROOF PENETRATION @ METAL ROOFING
SCALE: 3" = 1'-0"



5 ROOF PENETRATION HEAT STACK
SCALE: 3" = 1'-0"



6 ROOF PENETRATION PREFABRICATED
SCALE: 3" = 1'-0"

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by **KTR**
checked by **LKJ**

lsw job number **2018-0029**

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date **10/15/2019**
PERMIT/BID SET

revisions
1 ADDENDUM #1 11/8/2019

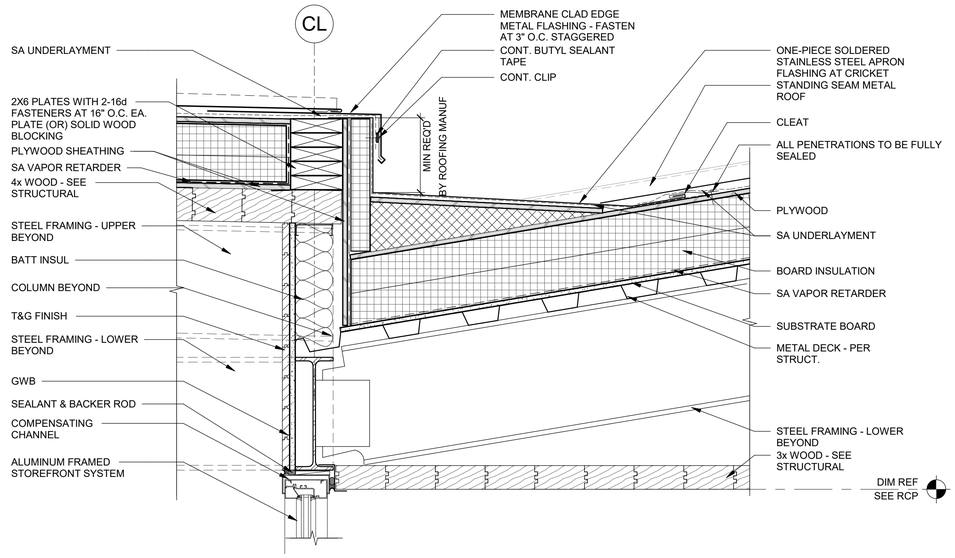
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

ROOF DETAILS

A-515

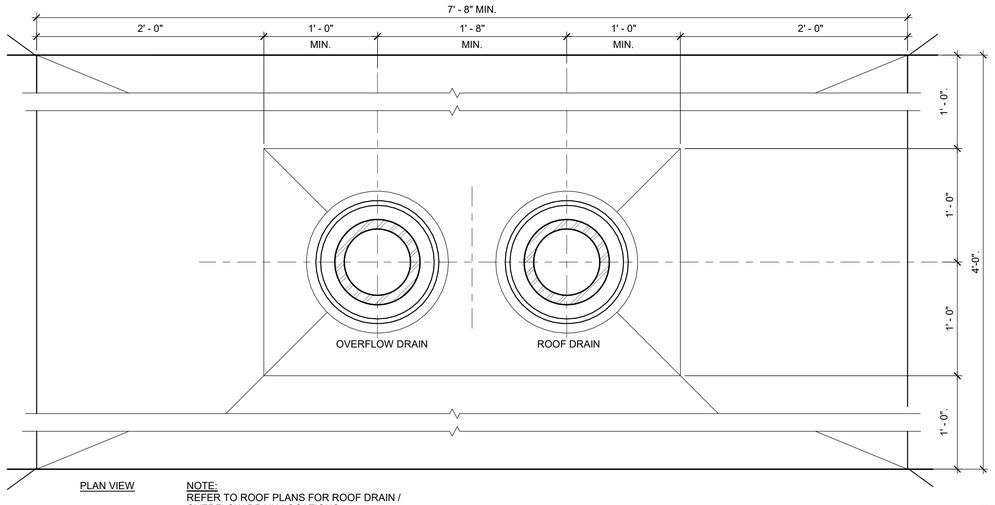
Scale **3" = 1'-0"**

11/7/2019 3:32:40 PM



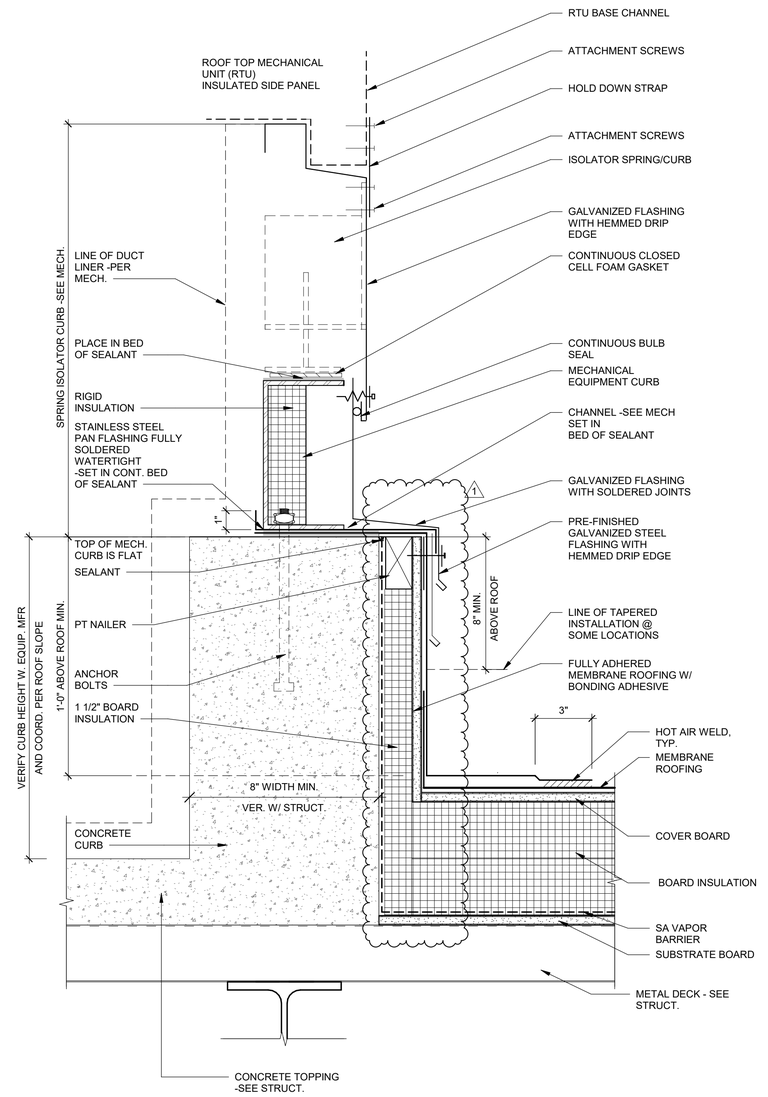
1 ROOF MAIN ENTRANCE @ STOREFRONT HEAD

SCALE: 1 1/2" = 1'-0"



2 ROOF DRAIN / OVERFLOW

SCALE: 1 1/2" = 1'-0"



3 MECHANICAL CURB W/ ISOLATOR CURB

SCALE: 3" = 1'-0"

NOTE: ATTACHMENT TO THE CURB TO BE ENGINEERED BY SUBCONTRACTOR.

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
KTR
checked by
LKJ

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

revisions

1	ADDENDUM #1	11/8/2019

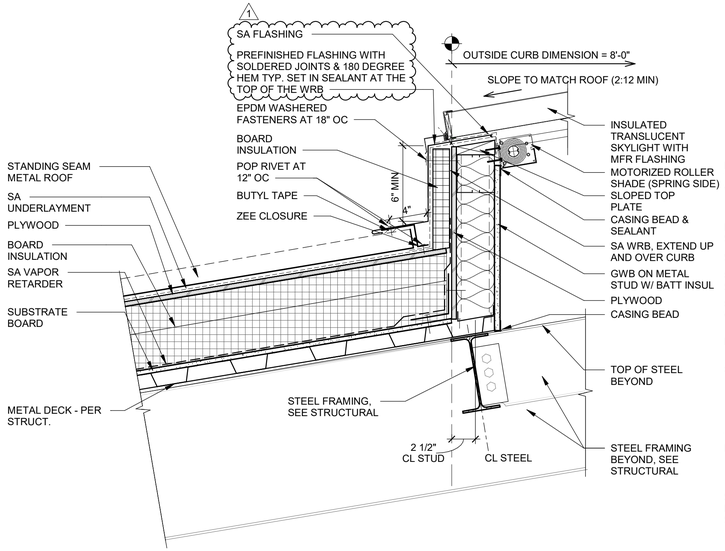
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

ROOF DETAILS

A-516

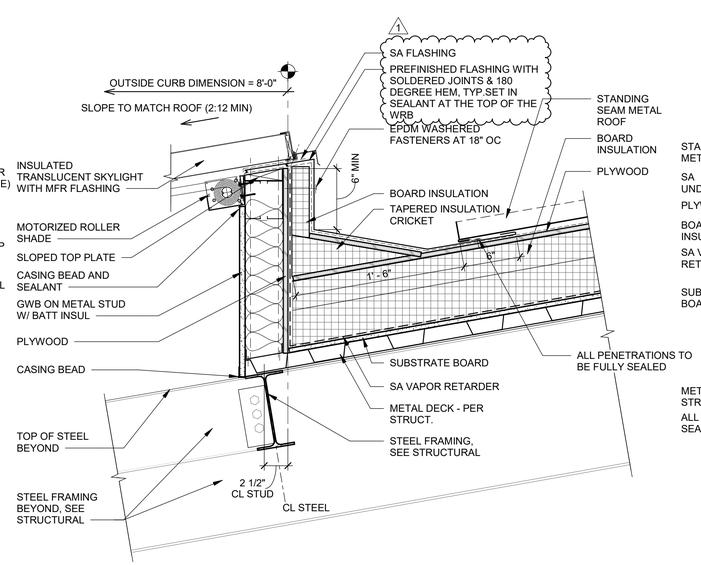
Scale **As indicated**

11/7/2019 3:32:42 PM



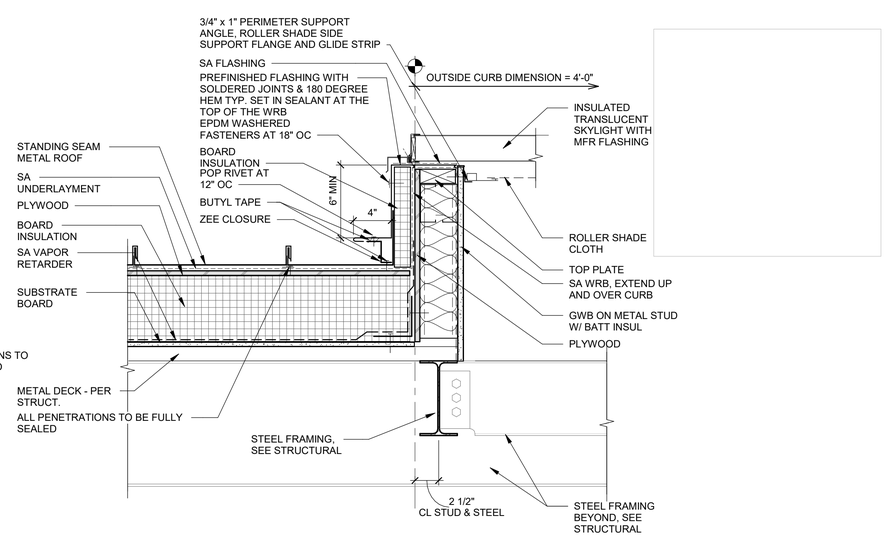
1 SKYLIGHT DETAIL AT LOW SIDE

SCALE: 1 1/2" = 1'-0"



2 SKYLIGHT DETAIL AT HIGH SIDE

SCALE: 1 1/2" = 1'-0"



3 SKYLIGHT DETAIL AT RAKE

SCALE: 1 1/2" = 1'-0"

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

revisions
1 ADDENDUM #1 11/8/2019

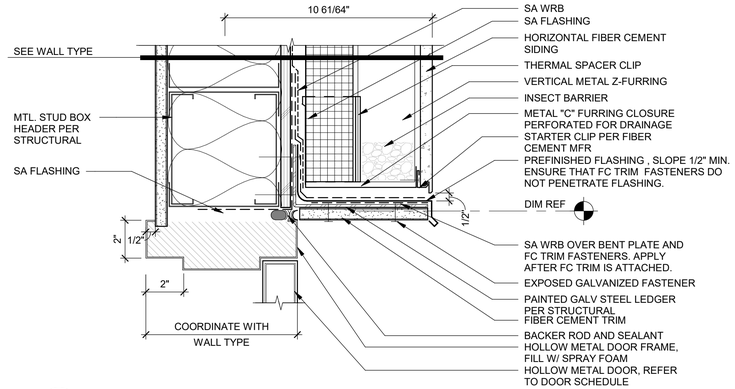
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

ROOF DETAILS

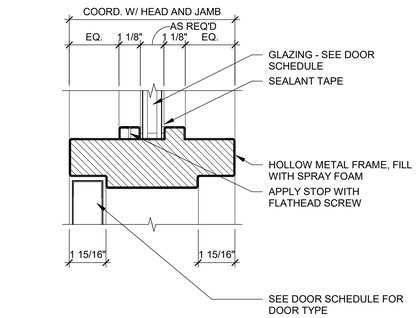
A-517

Scale **1 1/2" = 1'-0"**

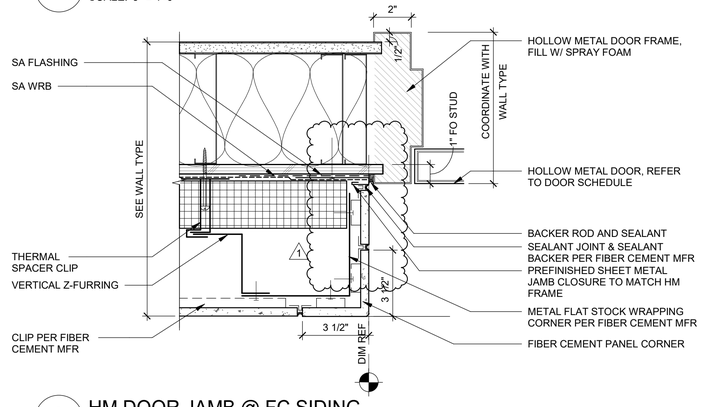
11/7/2019 3:32:43 PM



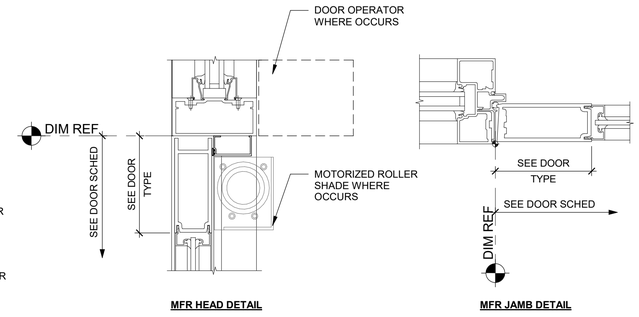
1 HM DOOR HEAD @ FC SIDING
SCALE: 3" = 1'-0"



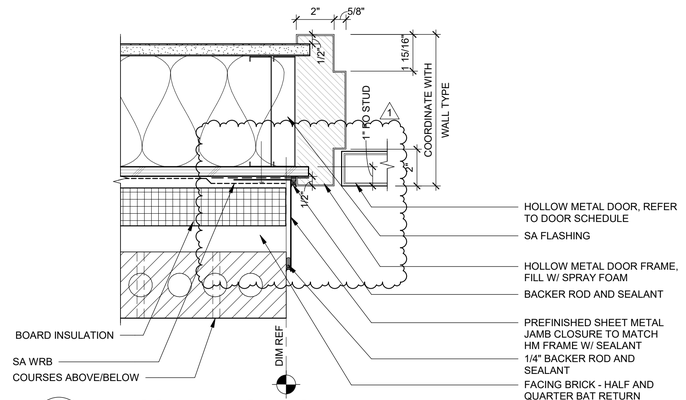
2 HM DOOR HEAD / JAMB @ MULLION
SCALE: 3" = 1'-0"



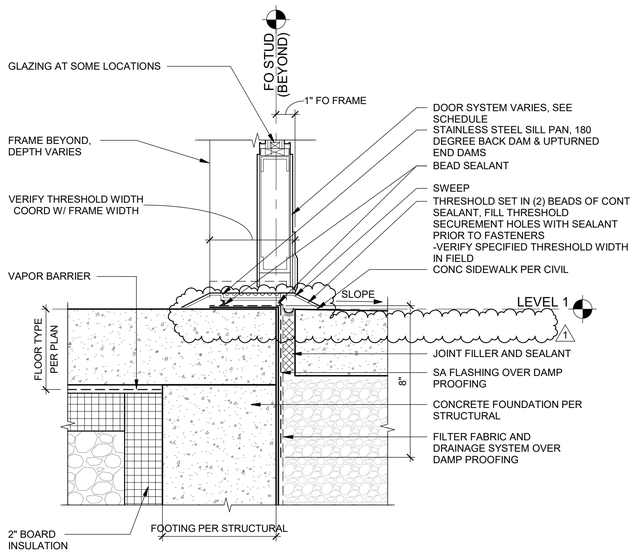
3 HM DOOR JAMB @ FC SIDING
SCALE: 3" = 1'-0"



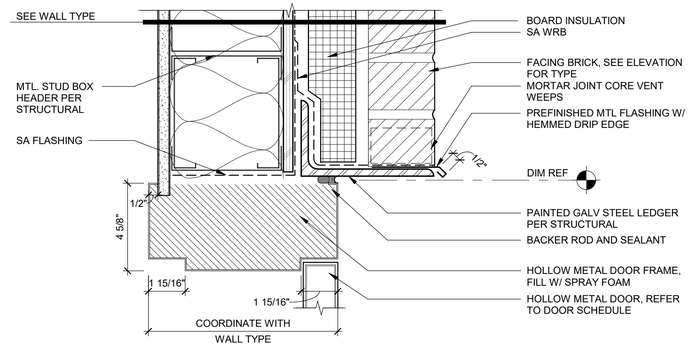
4 SF DOOR HEAD / JAMB @ MULLION
SCALE: 3" = 1'-0"



5 HM DOOR JAMB @ BRICK VENEER
SCALE: 3" = 1'-0"



6 THRESHOLD @ SF DOOR (HM SIM)
SCALE: 3" = 1'-0"



7 HM DOOR HEAD @ BRICK
SCALE: 3" = 1'-0"

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by **KTR**
checked by **LKJ**
lsw job number **2018-0029**

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date **10/15/2019**
PERMIT/BID SET

revisions
1 ADDENDUM #1 11/8/2019

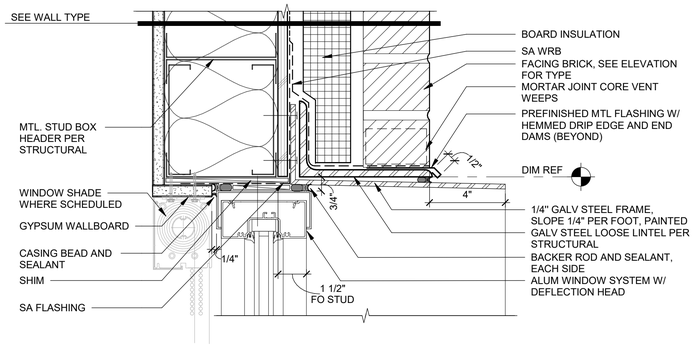
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

EXTERIOR DOOR DETAILS

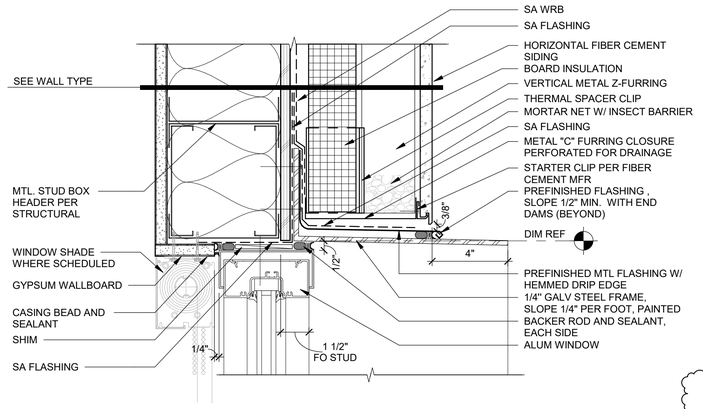
A-525

Scale **3" = 1'-0"**

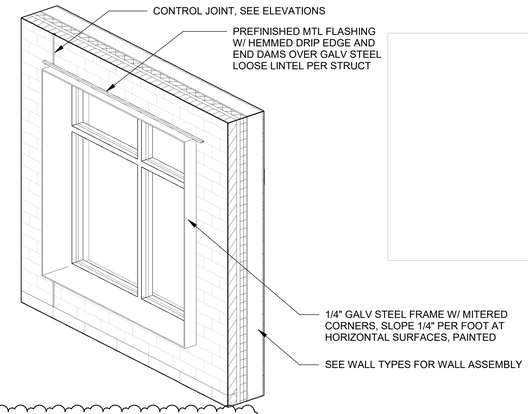
11/7/2019 3:32:45 PM



1 STOREFRONT HEAD @ BRICK VENEER W/ FRAME
SCALE: 3" = 1'-0"

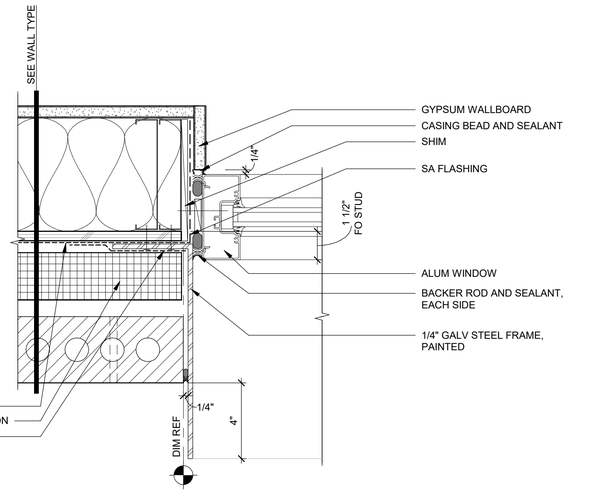


2 STOREFRONT HEAD @ FC SIDING W/ FRAME
SCALE: 3" = 1'-0"

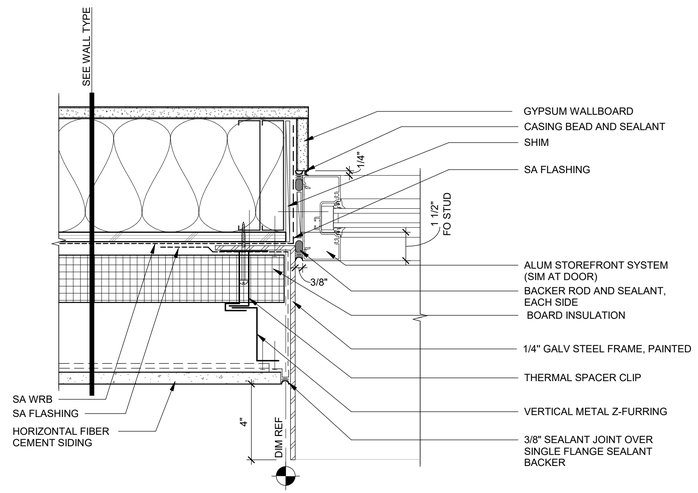


9 WINDOW FRAME 3D VIEW
N.T.S.

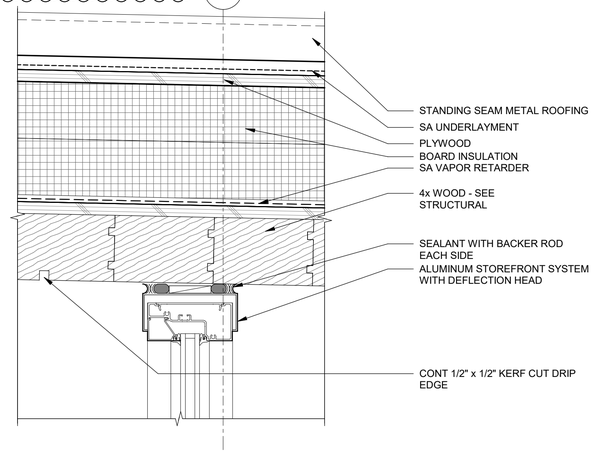
GRID



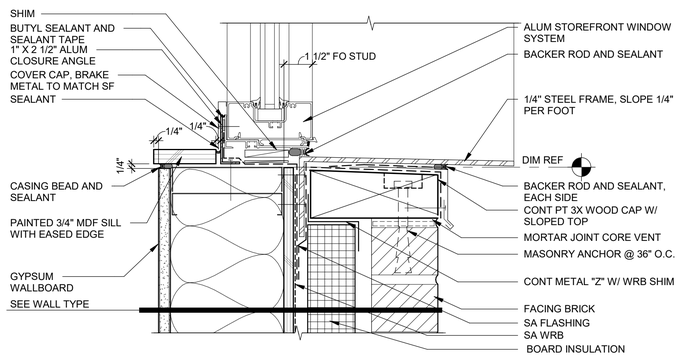
3 STOREFRONT JAMB @ BRICK VENEER W/ FRAME
SCALE: 3" = 1'-0"



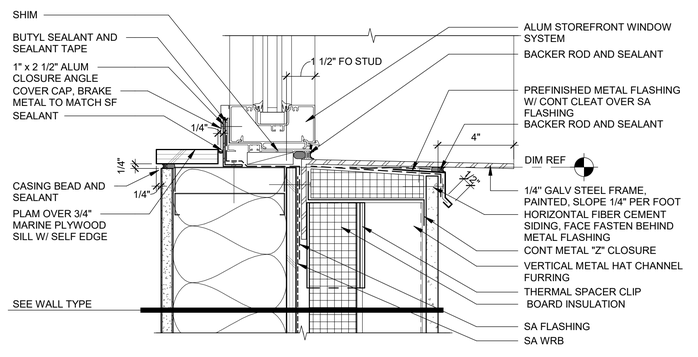
4 STOREFRONT JAMB @ FC SIDING W/ FRAME
SCALE: 3" = 1'-0"



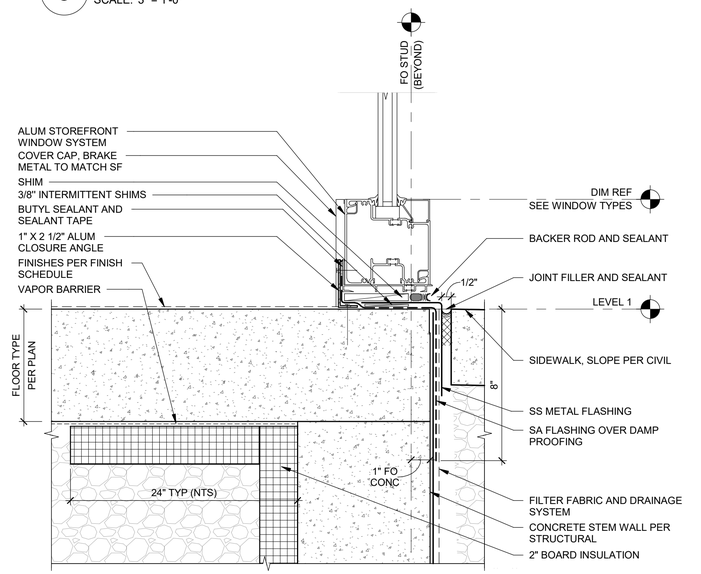
5 STOREFRONT HEAD @ MAIN ENTRANCE
SCALE: 3" = 1'-0"



6 STOREFRONT SILL @ BRICK VENEER W/ FRAME
SCALE: 3" = 1'-0"



7 STOREFRONT SILL @ FC SIDING W/ FRAME
SCALE: 3" = 1'-0"



8 STOREFRONT SILL @ FOUNDATION
SCALE: 3" = 1'-0"

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

revisions

1	ADDENDUM #1	11/8/2019

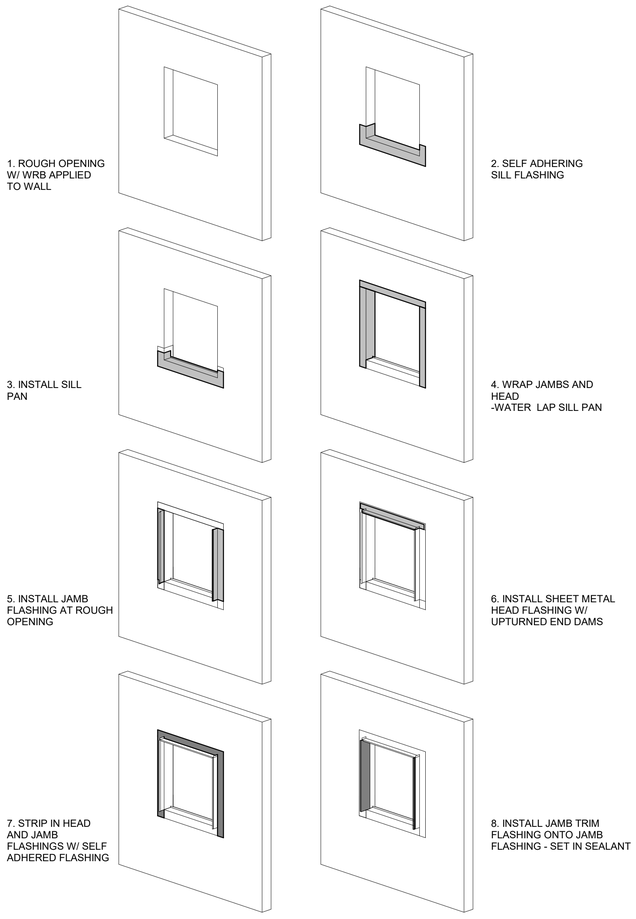
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

STOREFRONT DETAILS

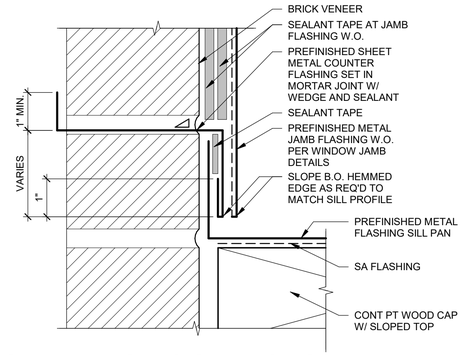
A-531

Scale **3" = 1'-0"**

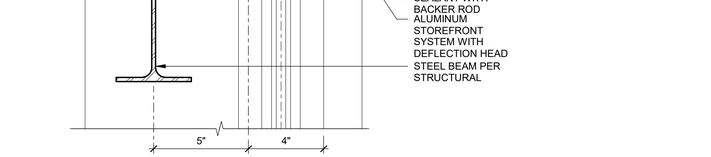
11/7/2019 3:32:48 PM



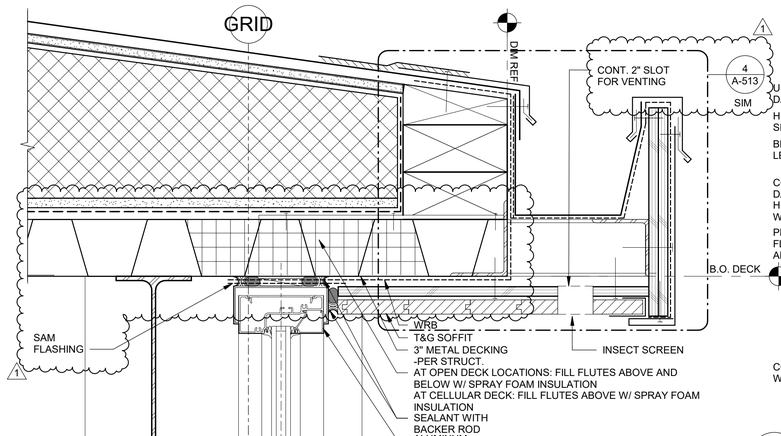
1 WINDOW FLASHING SEQUENCE
N.T.S.

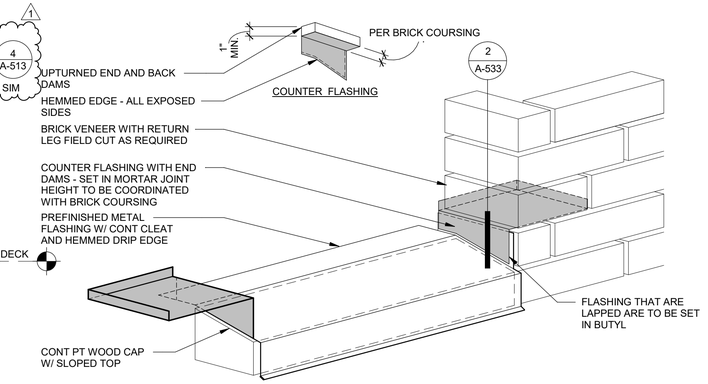


2 COUNTER FLASHING @ WINDOW SILL PAN
SCALE: 6" = 1'-0"

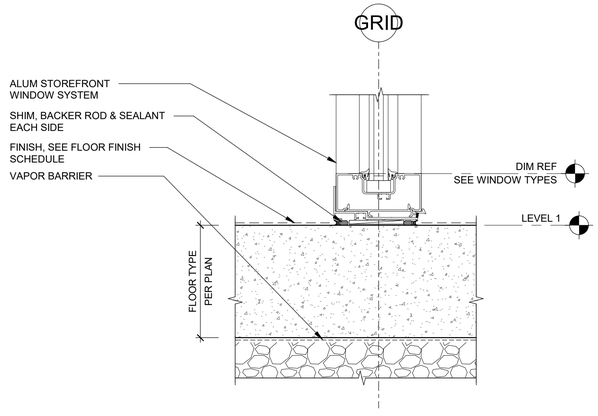


3 STOREFRONT HEAD @ MEMBRANE ROOF EAVE
SCALE: 3" = 1'-0"

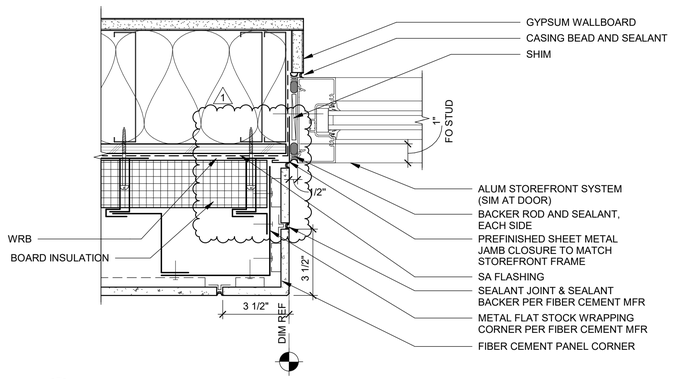




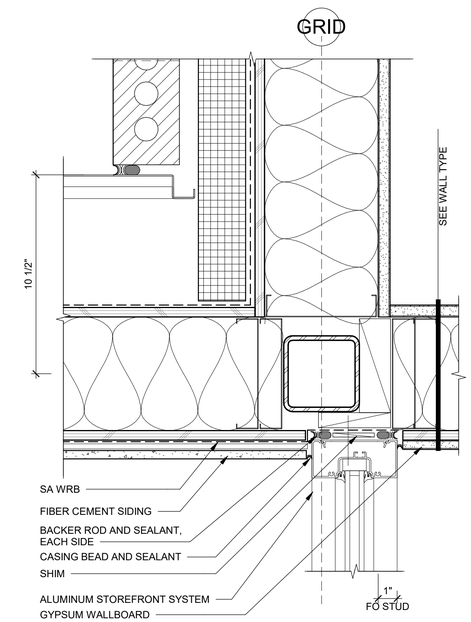
4 WINDOW SILL PAN 3D DIAGRAM
SCALE: 1 1/2" = 1'-0"



5 STOREFRONT SILL @ LEVEL 1
SCALE: 3" = 1'-0"



6 STOREFRONT JAMB @ FC SIDING
SCALE: 3" = 1'-0"



7 STOREFRONT JAMB @ ENTRY
SCALE: 3" = 1'-0"

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by **Author**
checked by **Checker**

lsw job number **2018-0029**

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date **10/15/2019**
PERMIT/BID SET

revisions
1 ADDENDUM #1 11/8/2019

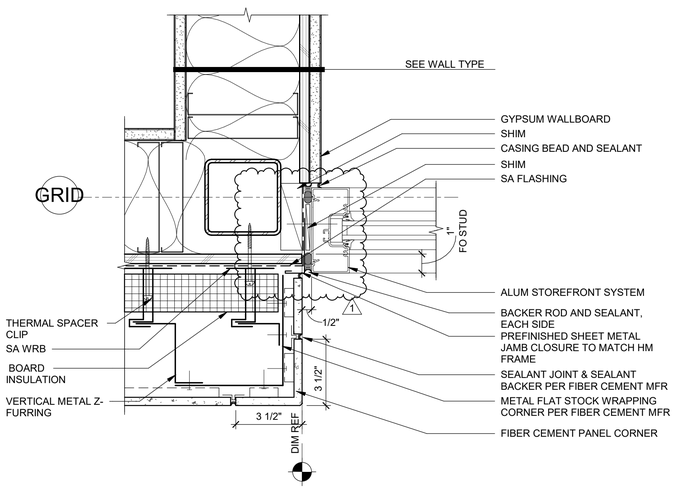
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

STOREFRONT DETAILS

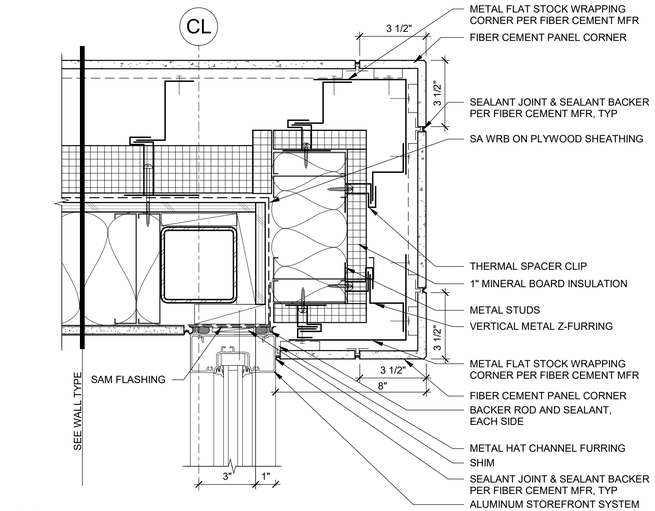
A-533

Scale **As indicated**

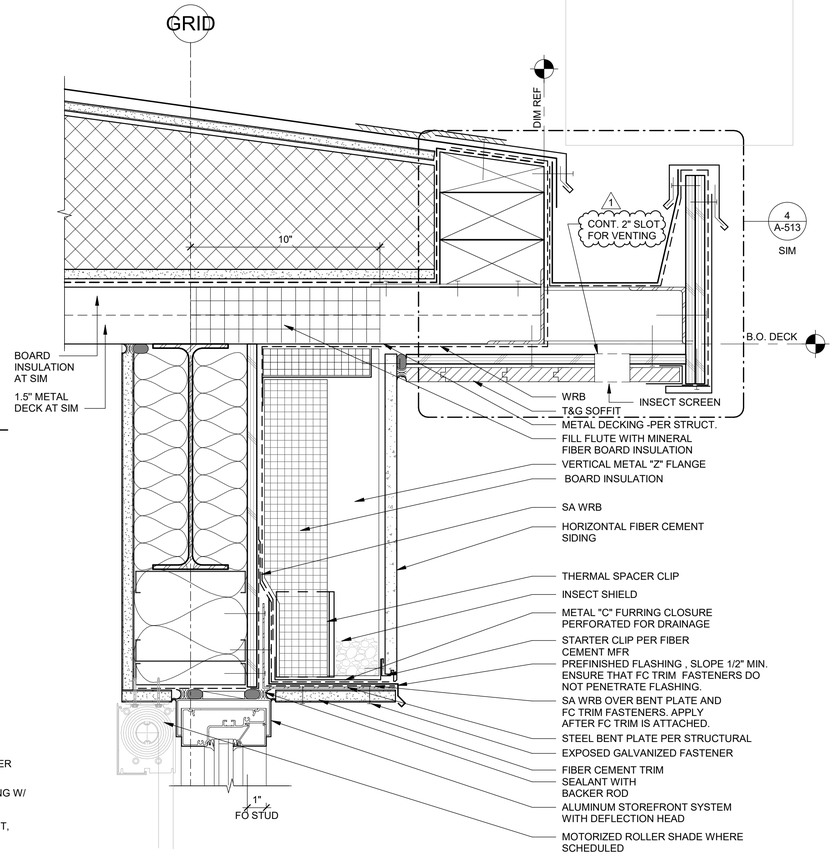
11/7/2019 3:32:50 PM



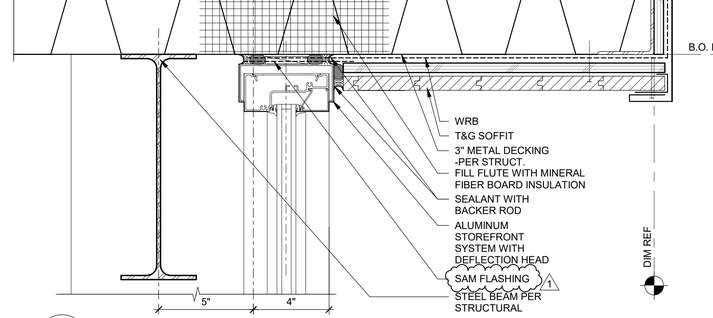
1 STOREFRONT JAMB @ FC SIDING 2
SCALE: 3" = 1'-0"



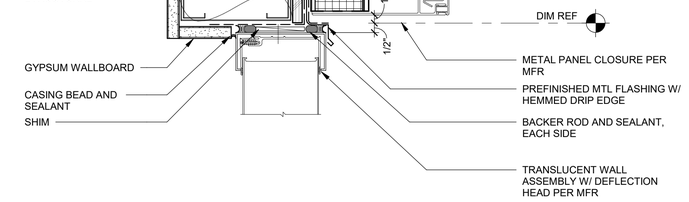
2 STOREFRONT JAMB @ FC CORNER
SCALE: 3" = 1'-0"



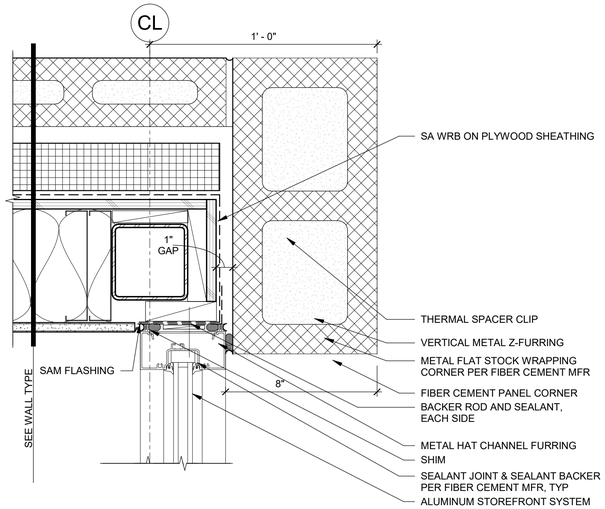
5 STOREFRONT HEAD @ MEMBRANE ROOF EAVE AND FC
SCALE: 3" = 1'-0"



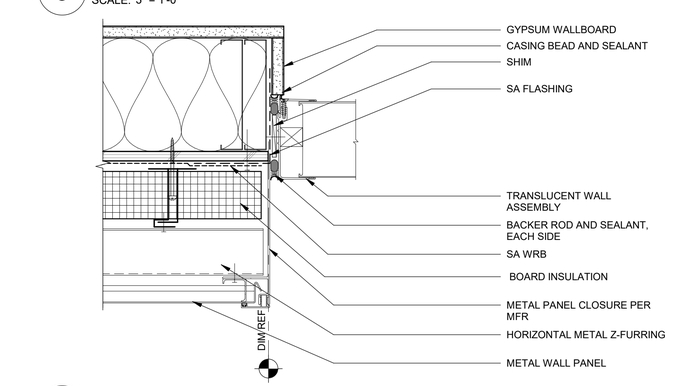
3 STOREFRONT HEAD @ MEMBRANE ROOF RAKE
SCALE: 3" = 1'-0"



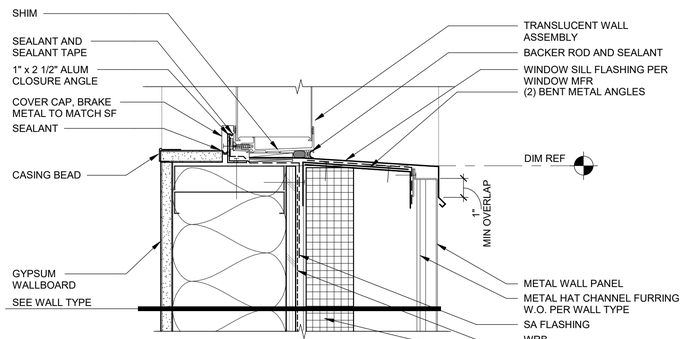
4 TRANSLUCENT WALL ASSEMBLY HEAD
SCALE: 3" = 1'-0"



8 STOREFRONT JAMB BELOW FC CORNER @ CMU
SCALE: 3" = 1'-0"



6 TRANSLUCENT WALL ASSEMBLY JAMB
SCALE: 3" = 1'-0"



7 TRANSLUCENT WALL ASSEMBLY SILL
SCALE: 3" = 1'-0"

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

revisions
1 ADDENDUM #1 11/8/2019

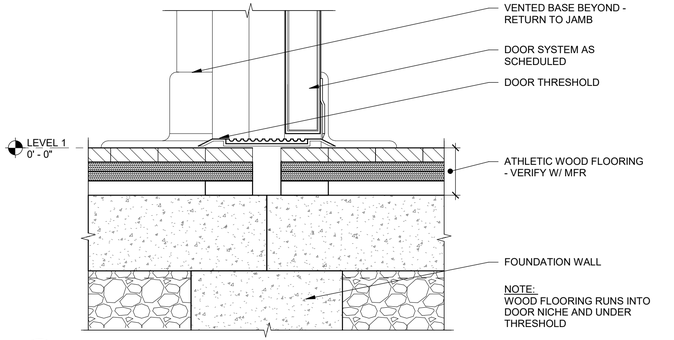
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

STOREFRONT & TRANSLUCENT WALL ASSEMBLY DETAILS

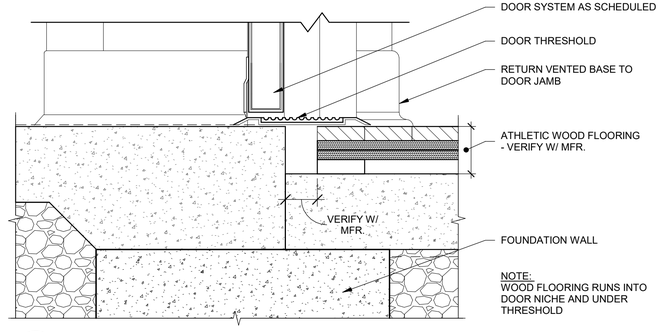
A-534

Scale **3" = 1'-0"**

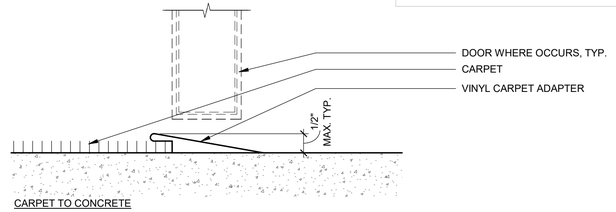
11/7/2019 3:32:50 PM

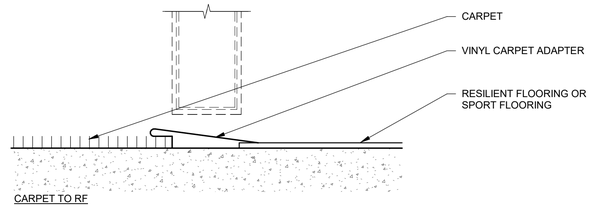


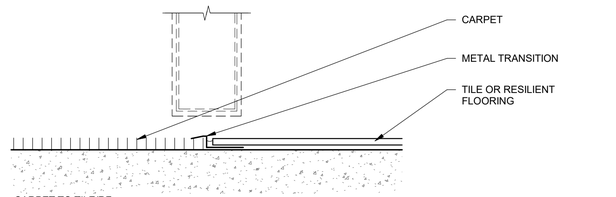
1 HM DOOR THRESHOLD @ WOOD FLOORS
SCALE: 3" = 1'-0"

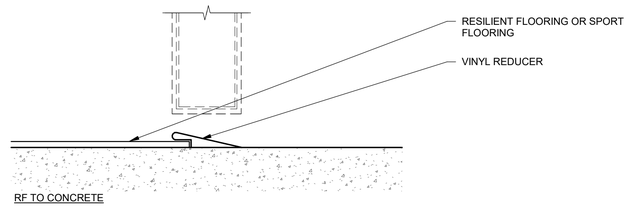


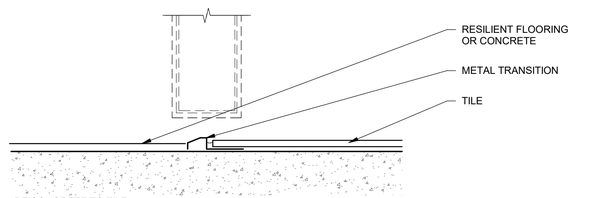
2 HM DOOR THRESHOLD @ WOOD FLOORING
SCALE: 3" = 1'-0"





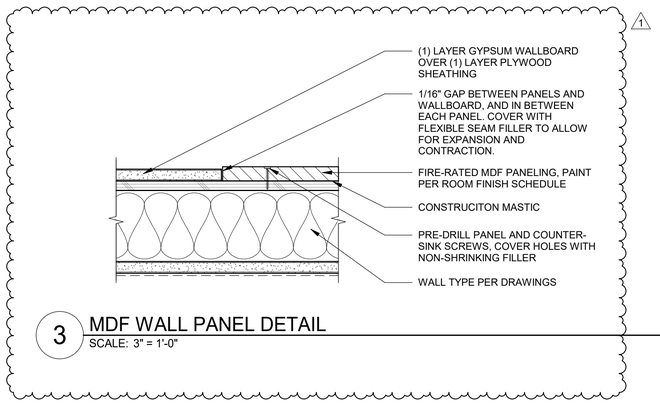




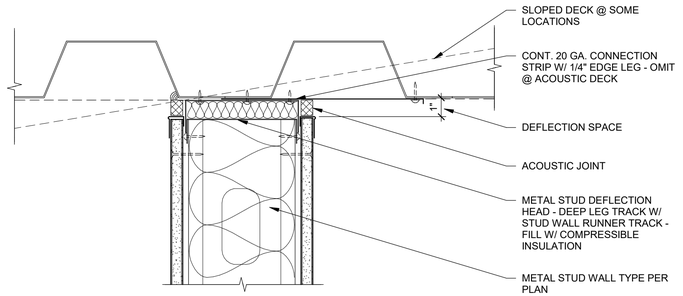


NOTE:
1. REFER TO ROOM FINISH SCHEDULE & PLANS FOR FLOOR FINISHES
2. REFER TO DOOR HARDWARE SETS FOR ADDITIONAL SPECIFIED TRANSITIONS / THRESHHOLDS

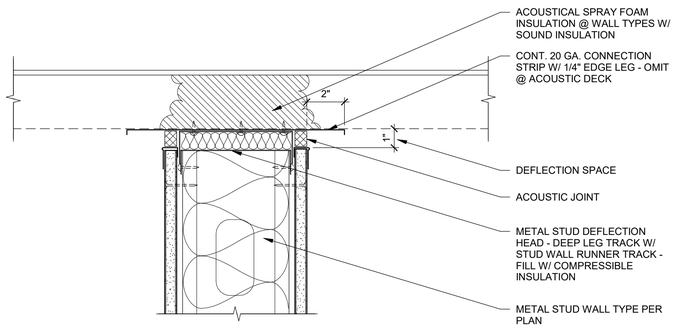
7 TYP FLOOR TRANSITIONS
SCALE: 6" = 1'-0"



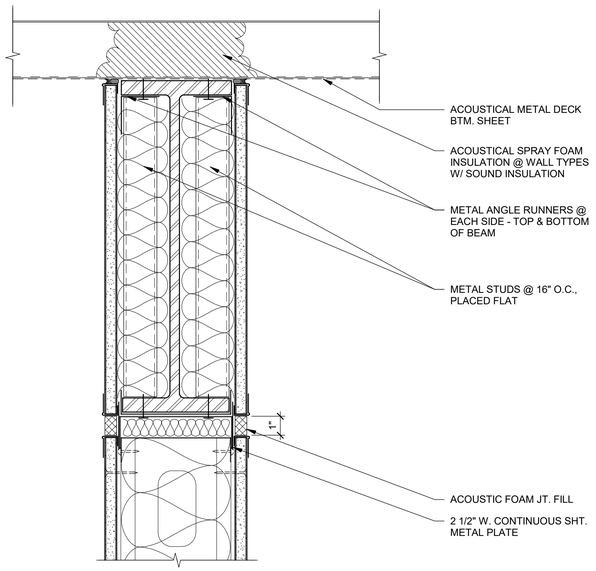
3 MDF WALL PANEL DETAIL
SCALE: 3" = 1'-0"



4 PARTITION DEFLECTION HEAD PARALLEL TO DECK
SCALE: 3" = 1'-0"



5 PARTITION DEFLECTION HEAD PERPENDICULAR TO DECK
SCALE: 3" = 1'-0"



6 PARTITION TO DECK @ BEAM
SCALE: 3" = 1'-0"

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

revisions
1 ADDENDUM #1 11/8/2019

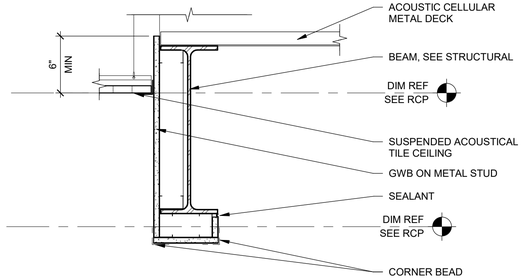
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

INTERIOR DETAILS

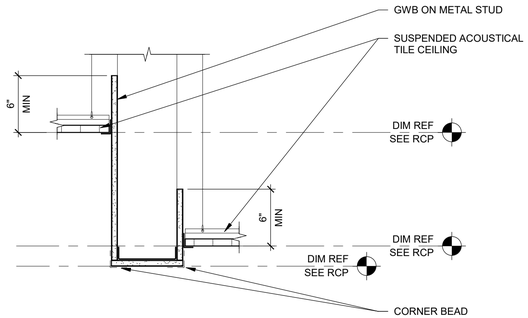
A-541

Scale **As indicated**

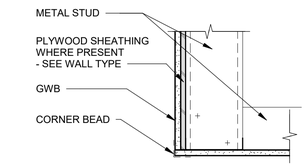
11/7/2019 3:32:51 PM



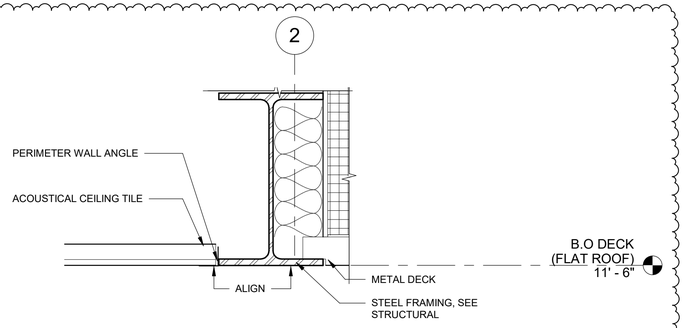
1 CEILING DETAIL
SCALE: 1 1/2" = 1'-0"



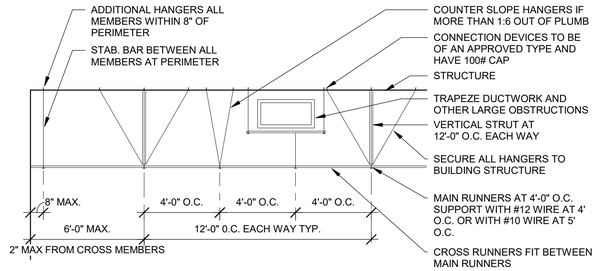
2 CEILING DETAIL
SCALE: 1 1/2" = 1'-0"



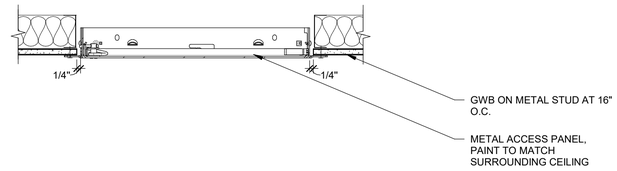
3 CEILING DETAIL
SCALE: 1 1/2" = 1'-0"



4 CEILING DETAIL
SCALE: 1 1/2" = 1'-0"

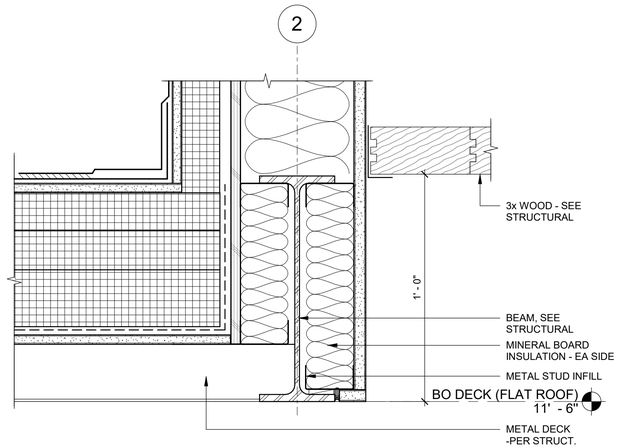


5 SUSPENDED CEILING DETAIL
SCALE: 1/4" = 1'-0"

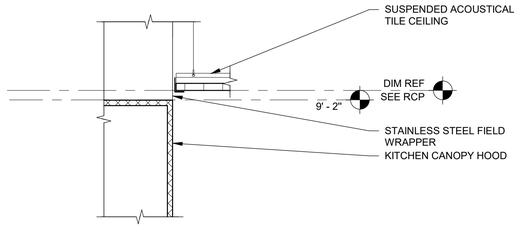


NOTE: PROVIDE ACCESS PANELS FOR ACCESS TO CONCEALED EQUIPMENT, JUNCTION BOXES AND CONTROLS. QUANTITY AND LOCATION OF ACCESS PANELS IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH AS-BUILT CONDITIONS AND MAY NOT BE INDICATED ON DRAWINGS. SUBMIT PROPOSED ACCESS PANEL LAYOUT TO ARCHITECT FOR CONFIRMATION OF DESIGN INTENT.

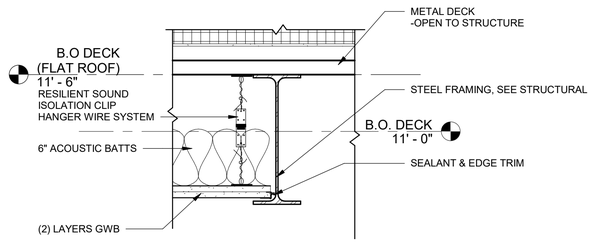
6 RECESSED PANEL ACCESS DOOR
SCALE: 1 1/2" = 1'-0"



7 CEILING DETAIL
SCALE: 3" = 1'-0"



8 CEILING DETAIL
SCALE: 1 1/2" = 1'-0"



9 CEILING DETAIL
SCALE: 1 1/2" = 1'-0"

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by **Author**
checked by **Checker**

lsw job number **2018-0029**

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date **10/15/2019**
PERMIT/BID SET

revisions
1 ADDENDUM #1 11/8/2019

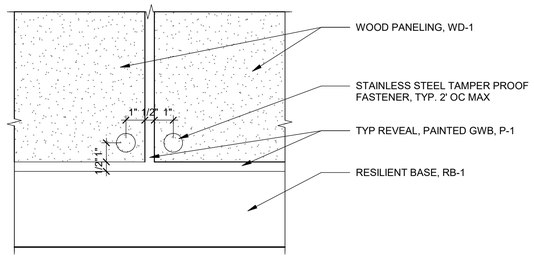
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

CEILING DETAILS

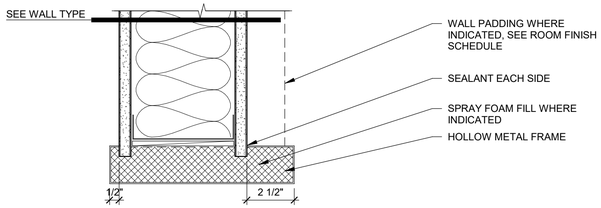
A-543

Scale **As indicated**

11/7/2019 3:32:53 PM



1 WOOD PANELING @ KITCHEN
SCALE: 3" = 1'-0"



2 HM DOOR JAMB @ FOCUS ROOM (HEAD SIM)
SCALE: 3" = 1'-0"

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

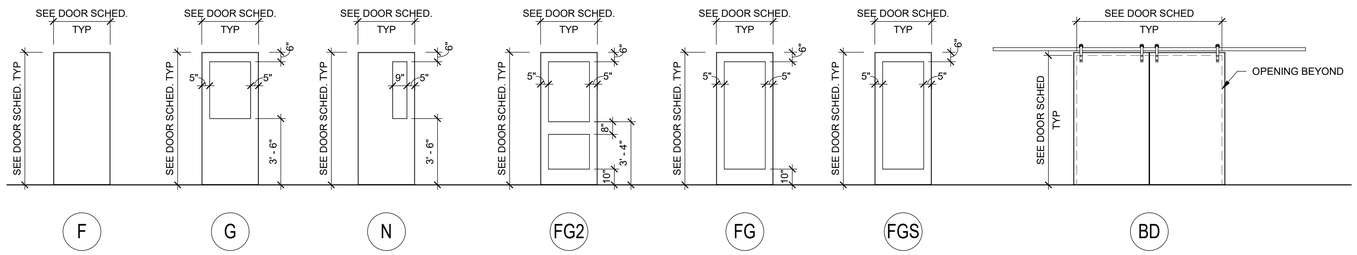
INTERIOR DETAILS

A-544

Scale **3" = 1'-0"**

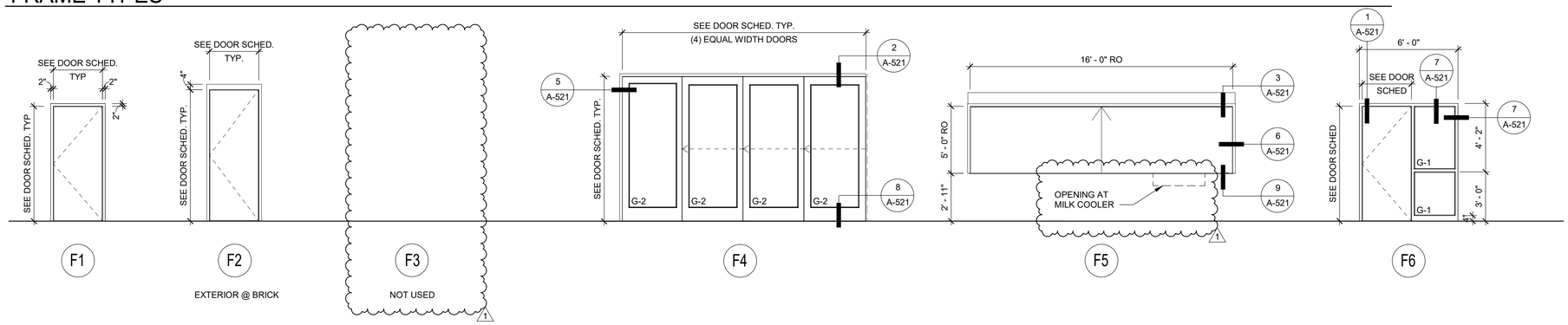
11/7/2019 3:32:54 PM

DOOR TYPES



SLIDING DOOR AT FCRC

FRAME TYPES



DOOR & WINDOW TYPES GENERAL NOTES

1. REFER TO CODE ANALYSIS SHEETS FOR RATED CONSTRUCTION AND OPENING PROTECTION.
2. REFER TO DOOR SCHEDULE FOR RATINGS. PROVIDE FIRE RATED GLASS AT RATED DOORS, LAMINATED SAFETY GLASS AT NON-RATED LOCATIONS, AND INSULATED SAFETY GLAZING AT EXTERIOR LOCATIONS.
3. DETAILS FOR HEAD, JAMB AND SILL CONDITIONS SHOWN ARE TYPICAL. REFER TO PLANS, INTERIOR AND EXTERIOR ELEVATIONS AND SECTIONS FOR NON-TYPICAL DETAILS.
4. ALL WINDOWS, STOREFRONT, AND CURTAIN WALL SYSTEMS SHALL HAVE SILL PAN FLASHING.
5. REMOVABLE STOPS TO HAVE FASTENERS ON THE SECURE SIDE OF THE ROOM OR AREA THEY ARE LOCATED IN UNLESS OTHERWISE NOTED.

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

DOOR AND FRAME ELEVATIONS

A-611

Scale **As indicated**

11/7/2019 3:32:55 PM

DOOR SCHEDULE

	DOOR							FRAME			DETAILS								
DOOR NO.	TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	GLAZING TYPE	TYPE	MATERIAL	FINISH	HEAD	JAMB	THRESH.	FIRE RATING	HARDWARE SET	SIGN TYPE	SIGN TEXT	REMARKS
1	FG2	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F6	HM	P-8	1/A-521	1/A-521			15	F	MEDIA	
1.1	FG2	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F6	HM	P-8	1/A-521	1/A-521			18	F	MEDIA	
1A	N	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521			03	C	OFFICE	
2	N	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	-	F1	HM	P-8	1/A-521	1/A-521			19	F	CLASSROOM	
2.1	F	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	-	F1	HM	P-8	1/A-521	1/A-521			20	-		
3	N	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521			15	F	CLASSROOM	
4	N	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521			19	F	CLASSROOM	
4.1	N	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521			19	F	CLASSROOM	
4A	BD	8' - 0"	7' - 0"	1 3/4"	WD	<By Category>	-	-	AL	PREFINISHED					21	-		
5	N	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521			15	F	CLASSROOM	
5.1	F	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	-	F1	HM	P-8	1/A-521	1/A-521			20	-		
6	N	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521			15	F	CLASSROOM	
7	N	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521			22	-		
7.1	N	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521			15	F	CLASSROOM	
7.2	F	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	-	F1	HM	P-8	1/A-521	1/A-521			20	-		
7A	F	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	-	F1	HM	P-8	1/A-521	1/A-521			06	H3		
8	N	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521			19	F	CLASSROOM	
8A	F	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	-	F1	HM	P-8	1/A-521	1/A-521			06	H3		
9	N	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521			15	F	CLASSROOM	
9.1	F	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	-	F1	HM	P-8	1/A-521	1/A-521			20	-		
9A	F	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	-	F1	HM	P-8	1/A-521	1/A-521			06	H3		
10	N	6' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521	1/A-541		10	F	FITNESS	
10.1	F	6' - 0"	7' - 0"	1 3/4"	HM	P-8	-	F1	HM	P-8	7/A-525	5/A-525	2/A-541		23	-		
10A	N	6' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521	1/A-541		13	B	COACH	
100	FG2	7' - 0"	8' - 0"	2"	AL	PREFINISHED	IG-1	STRFT	AL	PREFINISHED	4/A-525	4/A-525	6/A-525		01	-		
101	G	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521			14	C	MAIN OFFICE	
101.1	G	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521			07	C	MAIN OFFICE	
102	G	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521			03	C	CONFERENCE	
104	N	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521			03	C	PRINCIPAL	
105	N	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521			03	C	HEALTH	
105A	F	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	-	F1	HM	P-8	1/A-521	1/A-521			06	H3		
106	N	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521			03	C	OFFICE	
107	N	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521			03	C	OFFICE	
108	N	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521			03	C	OFFICE	
109	N	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521			03	C	OFFICE	
110	N	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521			03	C	OFFICE	
111	N	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521			06	H3		
112	N	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521			11	C	MAIN OFFICE	
112.1	FG2	3' - 0"	7' - 0"	2"	AL	PREFINISHED	IG-1	STRFT	AL	PREFINISHED	4/A-525	4/A-525	6/A-525		24	-		
113	FG2	7' - 0"	8' - 0"	2"	AL	PREFINISHED	IG-1	STRFT	AL	PREFINISHED	4/A-525	4/A-525			02	-		
114	FG2	3' - 6"	8' - 0"	2"	AL	PREFINISHED	IG-1	STRFT	AL	PREFINISHED	4/A-525	4/A-525	6/A-525		09	-		
114.1	FG2	3' - 6"	8' - 0"	2"	AL	PREFINISHED	IG-1	STRFT	AL	PREFINISHED	4/A-525	4/A-525	6/A-525		24	-		
115	FG	14' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F4	AL	PREFINISHED	2/A-521	5/A-521	8/A-521		12	-	-	
115.1	N	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521			15	B	FCRC	
116	FG2	3' - 0"	8' - 0"	2"	AL	PREFINISHED	IG-1	STRFT	AL	PREFINISHED	4/A-525	4/A-525	6/A-525		24	-		
117	F	3' - 6"	7' - 0"	1 3/4"	WD	PLAM-1	-	F1	HM	P-8	1/A-521	1/A-521			25	C	KITCHEN	
117.1	F	4' - 0"	7' - 0"	1 3/4"	HM	P-8	-	F2	HM	P-8	7/A-525	5/A-525	6/A-525		08	-		
117B	F	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	-	F1	HM	P-8	1/A-521	1/A-521			04	-		
118	F	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	-	F1	HM	P-8	1/A-521	1/A-521			05	H3		
119	F	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	-	F1	HM	P-8	1/A-521	1/A-521			26	C	STAFF ROOM	
119.1	F	3' - 0"	7' - 0"	1 3/4"	HM	P-8	-	F2	HM	P-8	7/A-525	5/A-525	6/A-525		16	-		
120	F	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	-	F1	HM	P-8	1/A-521	1/A-521			05	H3		
121	F	4' - 0"	7' - 0"	1 3/4"	HM	PLAM-1	-	F1	HM	P-8	1/A-521	1/A-521		45 MIN	27	B	MECHANICAL	
121.1	F	4' - 0"	7' - 0"	1 3/4"	HM	P-8	-	F2	HM	P-8	7/A-525	5/A-525	6/A-525		28	-		
122	F	4' - 0"	7' - 0"	1 3/4"	HM	P-8	-	F2	HM	P-8	7/A-525	5/A-525	6/A-525		29	L		
123	N	4' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521			30	-		
123.1	FG2	3' - 0"	8' - 0"	2"	AL	PREFINISHED	IG-1	STRFT	AL	PREFINISHED	4/A-525	4/A-525	6/A-525		24	-		
123.2	FG2	3' - 0"	8' - 0"	2"	AL	PREFINISHED	IG-1	STRFT	AL	PREFINISHED	4/A-525	4/A-525	6/A-525		24	-		
124	N	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521			15	C	SMALL GROUP	
125	N	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521	/1		15	C	SMALL GROUP	
126	F	4' - 0"	7' - 0"	1 3/4"	-	-	-	F1	HM	P-8	2/A-544	2/A-544				-		CASED OPENING
127	F	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	-	F1	HM	P-8	1/A-521	1/A-521			05	H3		
128	F	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	-	F1	HM	P-8	1/A-521	1/A-521			04	B	BUILDING OPERATOR	
129	F	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	-	F1	HM	P-8	1/A-521	1/A-521			05	H3		
130	N	4' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521			30	-		
130.1	FG2	3' - 0"	7' - 0"	2"	AL	PREFINISHED	IG-1	STRFT	AL	PREFINISHED	4/A-525	4/A-525	6/A-525		24	-		
131	F	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	-	F1	HM	P-8	1/A-521	1/A-521			05	H3		
132	N	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521			15	C	SMALL GROUP	
133	N	4' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521			30	-		
133.1	FG2	3' - 0"	7' - 0"	2"	AL	PREFINISHED	IG-1	STRFT	AL	PREFINISHED	4/A-525	4/A-525	6/A-525		24	-		
134	F	4' - 0"	7' - 0"	1 3/4"	-	-	-	F1	HM	P-8	2/A-544	2/A-544				-		CASED OPENING
135	F	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	-	F1	HM	P-8	1/A-521	1/A-521	/1		05	H3		
136	F	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	-	F1	HM	P-8	1/A-521	1/A-521			31	B	IT	
137	N	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521			15	C	SMALL GROUP	
138	N	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521	/1		15	C	SMALL GROUP	
139	F	4' - 0"	7' - 0"	1 3/4"	-	-	-	F1	HM	P-8	2/A-544	2/A-544				-		CASED OPENING
140	F	6' - 0"	6' - 10"	1 3/4"	HM	P-8	-	F1	HM	P-8	7/A-525	5/A-525	6/A-525		32	-		
141	FG2	3' - 0"	7' - 0"	2"	AL	PREFINISHED	IG-1	STRFT	AL	PREFINISHED	4/A-525	4/A-525	6/A-525		24	-		
G-NE		4' - 0"	6' - 0"												33		GATE - SEE LANDSCAPE	
G-NW		4' - 0"	6' - 0"												17		GATE - SEE LANDSCAPE	
G-SE		4' - 0"	6' - 0"												33		GATE - SEE LANDSCAPE	
G-SW		4' - 0"	6' - 0"												33		GATE - SEE LANDSCAPE	

DOOR SCHEDULE - ALTERNATE #1

	DOOR							FRAME			DETAILS (SEE SHEET A-521, A-5??)							
DOOR NO.	TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	GLAZING TYPE	TYPE	MATERIAL	FINISH	HEAD	JAMB	THRESH.	FIRE RATING	HARDWARE SET	SIGN TYPE	SIGN TEXT	REMARKS
69a	FG2	3' - 0"	8' - 0"	2"	AL	PREFINISHED	IG-1	STRFT	AL	PREFINISHED	-	-	6/A-525		24			ALTERNATE
70a	F	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	-	F1	HM	P-8	1/A-521	1/A-521			15			ALTERNATE
71a	F	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	-	F1	HM	P-8	1/A-521	1/A-521			06	H3		ALTERNATE
72a	N	3' - 0"	7' - 0"	1 3/4"	WD	PLAM-1	G-1	F1	HM	P-8	1/A-521	1/A-521			15	F	CLASSROOM	ALTERNATE

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

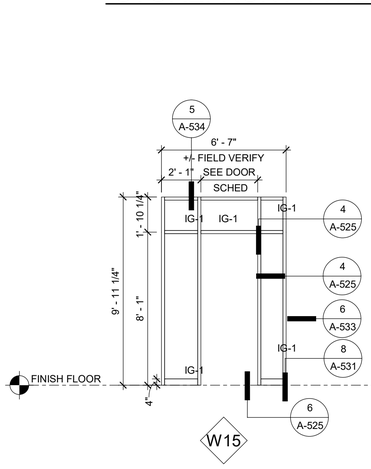
DOOR AND FRAME SCHEDULE

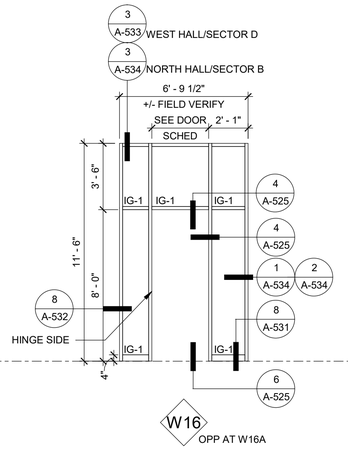
A-612

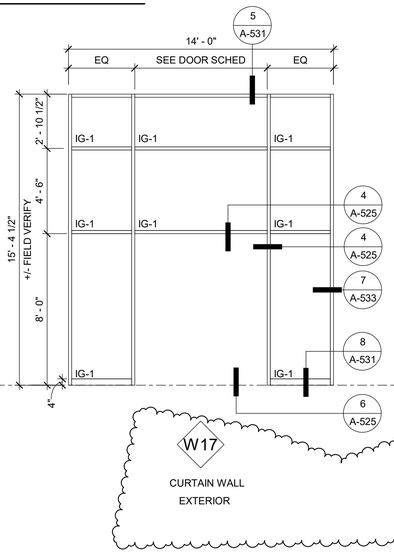
Scale

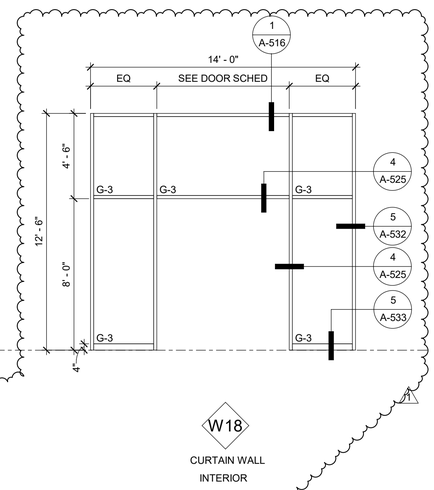
11/7/2019 3:32:57 PM

STOREFRONT TYPES



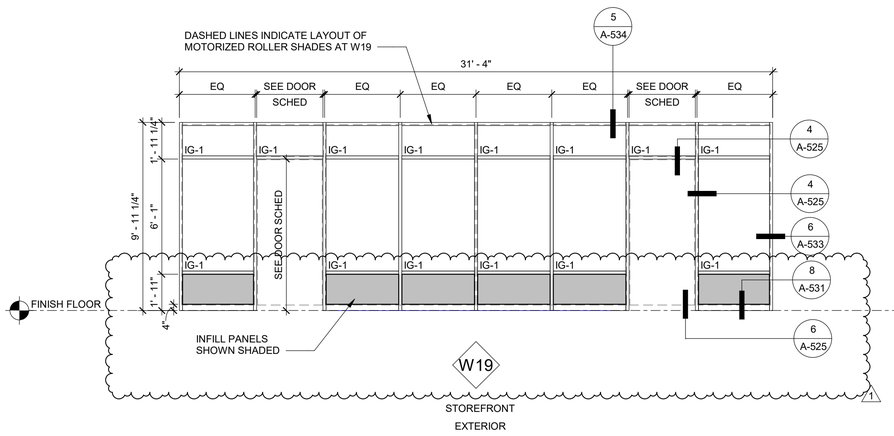




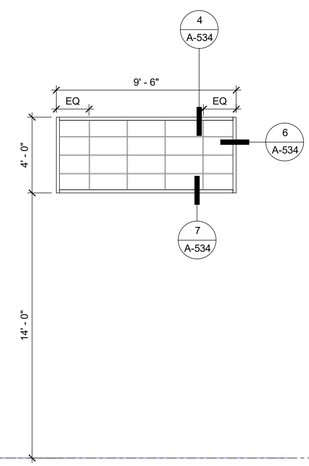


DOOR & WINDOW TYPES GENERAL NOTES

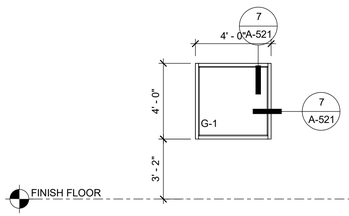
1. REFER TO CODE ANALYSIS SHEETS FOR RATED CONSTRUCTION AND OPENING PROTECTION.
2. REFER TO DOOR SCHEDULE FOR RATINGS. PROVIDE FIRE RATED GLASS AT RATED DOORS, LAMINATED SAFETY GLASS AT NON-RATED LOCATIONS, AND INSULATED SAFETY GLAZING AT EXTERIOR LOCATIONS.
3. DETAILS FOR HEAD, JAMB AND SILL CONDITIONS SHOWN ARE TYPICAL. REFER TO PLANS, INTERIOR AND EXTERIOR ELEVATIONS AND SECTIONS FOR NON-TYPICAL DETAILS.
4. ALL WINDOWS, STOREFRONT, AND CURTAIN WALL SYSTEMS SHALL HAVE SILL PAN FLASHING.
5. REMOVABLE STOPS TO HAVE FASTENERS ON THE SECURE SIDE OF THE ROOM OR AREA THEY ARE LOCATED IN UNLESS OTHERWISE NOTED.



TRANSLUCENT WALL ASSEMBLY TYPES



RELITE TYPES



LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

STOREFRONT TYPES

A-622

Scale **As indicated**

11/7/2019 9:32:58 PM

ROOM FINISH SCHEDULE

Number	Name	FLOOR	BASE	WALLS								CEILING		REMARKS
				NORTH		EAST		SOUTH		WEST				
		FINISH	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	
1	MEDIA	CPT-1	RB-1	GWB	P-1	GWB	P-1	GWB	P-1/AP-4/A P-5/AP-6	GWB	P-1	OTS	P-4	
1A	A.A. COACH	CPT-1	RB-1	GWB	P-1	GWB	P-1	GWB	P-5	GWB	P-1	AP-1	FAC	
2	CLASSROOM	CPT-1	RB-1	GWB	P-4	GWB	P-1	GWB	P-1	GWB	P-1	OTS	P-1	
3	CLASSROOM	CPT-1	RB-1	GWB	P-4	GWB	P-1	GWB	P-1	GWB	P-1	OTS	P-1	
4	MS/HS FLEX	CONC-1	RB-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-5	OTS	P-1	
4A	STOR	CONC-1	RB-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	OTS	P-1	
5	CLASSROOM	CPT-1	RB-1	GWB	P-1	GWB	P-1	GWB	P-3	GWB	P-1	OTS	P-1	
6	CLASSROOM	CPT-1	RB-1	GWB	P-1	GWB	P-1	GWB	P-3	GWB	P-1	OTS	P-1	
7	CLASSROOM	CPT-1	RB-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-2	OTS	P-1	
7A	WC	T-1	T-1	GWB	P-1/T-3	GWB	P-1/T-2	GWB	P-1/T-2	GWB	P-1/T-2	GWB	P-1	
8	CLASSROOM	CPT-1	RB-1	GWB	P-1	GWB	P-1	GWB	P-1/AP-4	GWB	P-1/P-2	OTS/GWB	P-1	
8A	WC	T-1	T-1	GWB	P-1/T-2	GWB	P-1/T-3	GWB	P-1/T-2	GWB	P-1/T-2	GWB	P-1	
9	CLASSROOM	CPT-1	RB-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1/P-2	OTS	P-1	
9A	WC	T-1	T-1	GWB	P-1/T-2	GWB	P-1/T-3	GWB	P-1/T-2	GWB	P-1/T-2	GWB	P-1	
10	FITNESS	WD-2	RB-2	GWB	P-4	GWB	P-1	GWB	P-1	GWB	P-1	OTS	P-1	
10A	COACH	CONC-1	RB-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	OTS	P-1	
100	VESTIBULE	CPT-5	RB-1	GWB	P-1	-	-	GWB	P-1	-	-	WD	CLEAR SEALER	
101	ADMIN/WAITING	CPT-1	RB-1	GWB	P-1	GWB	P-3	GWB	P-1	GWB	P-1	AP-1	FAC	
102	CONF.	CPT-1	RB-1	GWB	P-5	GWB	P-1	GWB	P-1	GWB	P-1	AP-1	FAC	
103	CORRIDOR	CPT-1	RB-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	AP-1	FAC	
104	PRINCIPAL	CPT-1	RB-1	GWB	P-1	GWB	P-1	GWB	P-5	GWB	P-1	AP-1	FAC	
105	HEALTH	CONC-1	RB-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	AP-1	FAC	
105A	HEALTH RR	T-1	T-1	GWB	P-1/T-5	GWB	P-1/T-2	GWB	P-1/T-2	GWB	P-1/T-2	GWB	P-1	
106	PSYCH	CPT-1	RB-1	GWB	P-1	GWB	P-1	GWB	P-5	GWB	P-1	AP-1	FAC	
107	MH	CPT-1	RB-1	GWB	P-5	GWB	P-1	GWB	P-1	GWB	P-1	AP-1	FAC	
108	OT/S/N	CPT-1	RB-1	GWB	P-1	GWB	P-5	GWB	P-1	GWB	P-1	AP-1	FAC	
109	MH	CPT-1	RB-1	GWB	P-1	GWB	P-5	GWB	P-1	GWB	P-1	AP-1	FAC	
110	MH	CPT-1	RB-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-5	AP-1	FAC	
111	WC	T-1	T-1	GWB	P-1/T-5	GWB	P-1/T-2	GWB	P-1/T-2	GWB	P-1/T-2	GWB	P-1	
112	WORK ROOM	CPT-1	RB-1	GWB	P-1	GWB	P-1	-	-	GWB	P-1	AP-1/OTS	FAC/PT-1	
113	HALL	CONC-1	RB-1	GWB	P-1	GWB	P-1	GWB	P-4	-	-	WD/OTS	CLEAR SEALER/P-1	
114	CAFE/COMMONS	CONC-1	RB-1	GWB	P-1	-	-	GWB	P-1	-	-	OTS	P-1	
115	FCRC	CONC-1	RB-1	GWB	P-1	GWB	P-1	GWB	P-1/T-2	GWB	P-1	GWB	P-1	
116	HALL	CONC-1	RB-1	GWB	P-1/T-2	GWB	P-1	-	-	GWB	P-1/WD-1	OTS	P-1	
117	KITCHEN	RF-1	RF-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	AP-2	FAC	
117A	COOLER													
117B	STOR	RF-1	RF-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	AP-2	FAC	
118	WC	T-1	T-1	GWB	P-1/T-2	GWB	P-1/T-3	GWB	P-1/T-2	GWB	P-1/T-2	GWB	P-1	
119	STAFF BREAK ROOM	CONC-1	RB-1	GWB	P-1	GWB	P-1	GWB	P-5	GWB	P-1	OTS	P-1	
120	WC	T-1	T-1	GWB	P-1/T-2	GWB	P-1/T-3	GWB	P-1/T-2	GWB	P-1/T-2	GWB	P-1	
121	MECHANICAL	CONC-1	RB-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	OTS	P-1	
122	ELECTRICAL	CONC-1	RB-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	OTS	P-1	
123	HALL	CPT-2/CPT-5	RB-1	GWB	P-1	GWB	P-2/WD-3	GWB	P-1	GWB	P-1	OTS/GWB	P-1/P-2	
124	SM.GR	CPT-2	RB-1	GWB	P-1/AP-4	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	
125	SM. GR	CPT-3	RB-1	GWB	P-1	GWB	P-1	GWB	P-1/AP-5	GWB	P-1	GWB	P-1	
126	FOCUS	RF-2	RB-3	GWB	P-1/WP-1	GWB	P-1/WP-4	GWB	P-1/WP-1	GWB	P-1/WP-1	GWB	P-1	SEE 3/A-705 FOR EXTENT OF WP
127	WC	T-1	T-1	GWB	P-1/T-2	GWB	P-1/T-2	GWB	P-1/T-2	GWB	P-1/T-4	GWB	P-1	
128	B. OPER	CONC-1	RB-1	GWB	P-1/FRP-1	GWB	P-1/FRP-1	GWB	P-1	GWB	P-1	GWB	P-1	
129	WC	T-1	T-1	GWB	P-1/T-2	GWB	P-1/T-5	GWB	P-1/T-2	GWB	P-1/T-2	GWB	P-1	
130	HALL	CPT-4/CPT-5	RB-1	GWB	P-1/P-7	GWB	P-1	GWB	P-4/WD-5	GWB	P-1	OTS/GWB	P-1	
131	WC	T-1	T-1	GWB	P-1/T-2	GWB	P-1/T-2	GWB	P-1/T-5	GWB	P-1/T-2	GWB	P-1	
132	SM. GR.	CPT-4	RB-1	GWB	P-1	GWB	P-1/AP-6	GWB	P-1	GWB	P-1	GWB	P-1	
133	HALL	CPT-3/CPT-5	RB-1	GWB	P-3/WD-4	GWB	P-1	GWB	P-1/P-7	GWB	P-1	OTS/GWB	P-1	
134	FOCUS	RF-2	RB-3	GWB	P-1/WP-1	GWB	P-1/WP-3	GWB	P-1/WP-1	GWB	P-1/WP-1	GWB	P-1	SEE 3/A-705 FOR EXTENT OF WP
135	WC	T-1	T-1	GWB	P-1/T-4	GWB	P-1/T-2	GWB	P-1/T-2	GWB	P-1/T-2	GWB	P-1	
136	MDF	CONC-1	RB-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	
137	SM.GR.	CPT-3	RB-1	GWB	P-1	GWB	P-1/AP-5	GWB	P-1	GWB	P-1	GWB	P-1	
138	SM. GR.	CPT-2	RB-1	GWB	P-1/AP-4	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	
139	FOCUS	RF-2	RB-3	GWB	P-1/WP-1	GWB	P-1/WP-2	GWB	P-1/WP-1	GWB	P-1/WP-1	GWB	P-1	SEE 3/A-705 FOR EXTENT OF WP
140	STOR	CONC-1	RB-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	OTS	P-1	
141	HALL	CONC-1	RB-1	GWB	P-1/P-2	GWB	P-1/P-3/P-4/T-2	GWB	P-1	GWB	P-1	OTS	P-1	

1

ROOM FINISH SCHEDULE ALTERNATE 1

Number	Name	FLOOR	BASE	WALLS								CEILING		REMARKS
				NORTH		EAST		SOUTH		WEST				
		FINISH	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	
125A	HALL ALT 1	CPT-6	RB-1	GWB	P-1	GWB	P-2	-	-	GWB	P-1	OTS/GWB	P-1	
152	CLASSROOM ALT 1	CPT-1	RB-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1/P-2	OTS	P-1	
152A	WC ALT 1	T-1	T-1	GWB	P-1/T-2	GWB	P-1/T-3	GWB	P-1/T-2	GWB	P-1/T-2	GWB	P-1	

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

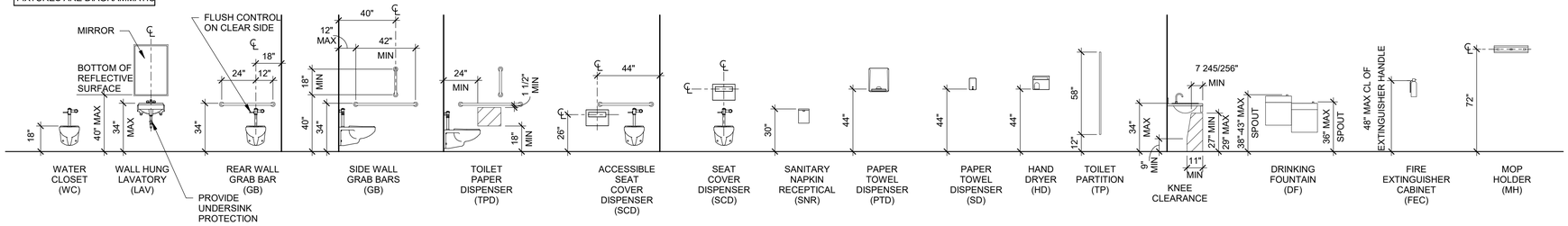
ROOM FINISH SCHEDULE

A-631

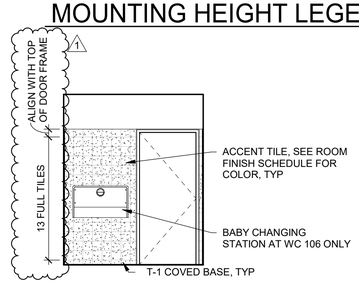
Scale

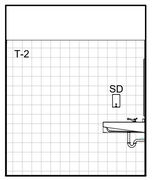
11/7/2019 3:32:58 PM

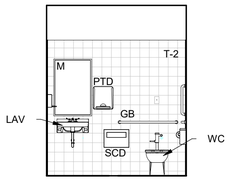
NOTE: PROVIDE BLOCKING IN WALL FOR ALL ACCESSORIES. FIXTURES ARE DIAGRAMMATIC

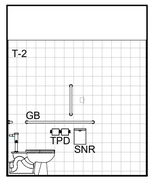


MOUNTING HEIGHT LEGEND







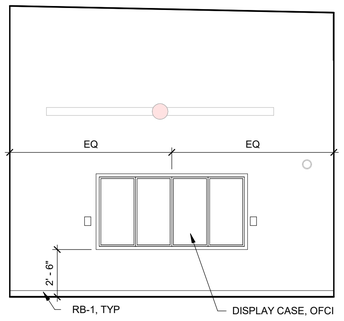


1 TYP RR ELEVATION
SCALE: 1/4" = 1'-0"

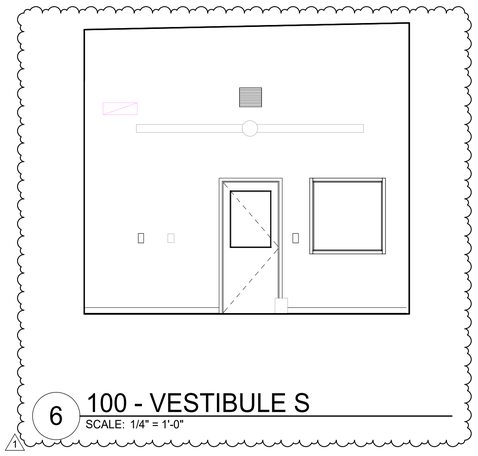
2 TYP RR ELEVATION
SCALE: 1/4" = 1'-0"

3 TYP RR ELEVATION
SCALE: 1/4" = 1'-0"

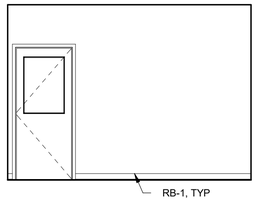
4 TYP RR ELEVATION
SCALE: 1/4" = 1'-0"



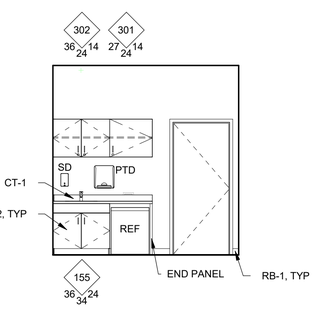
5 100 - VESTIBULE N
SCALE: 1/4" = 1'-0"



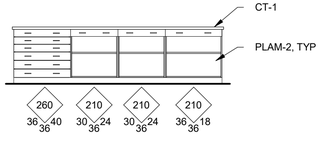
6 100 - VESTIBULE S
SCALE: 1/4" = 1'-0"



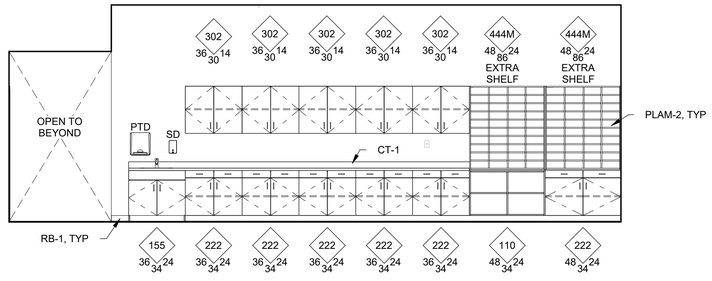
7 101 - ADMIN/WAITING E
SCALE: 1/4" = 1'-0"



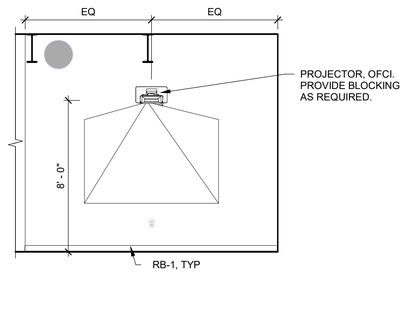
8 105 - HEALTH S
SCALE: 1/4" = 1'-0"



9 112 - WORK ROOM ISLAND
SCALE: 1/4" = 1'-0"



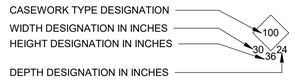
10 112 - WORK ROOM W
SCALE: 1/4" = 1'-0"



11 113 - HALL E
SCALE: 1/4" = 1'-0"

AWS (CDS) CASEWORK TYPE SYMBOL

(STANDARDS BASED ON AMERICAN WOODWORK STANDARDS)



CASEWORK TYPE MODIFIERS ARE INDICATED IN THE NUMBER AND A DESCRIPTION; SEE BELOW.



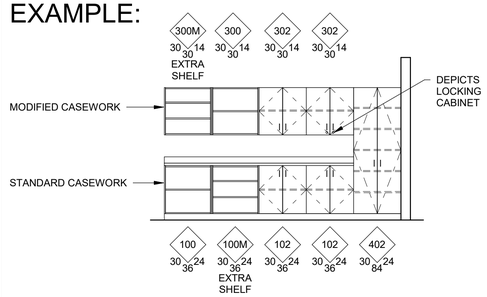
CUSTOM CASEWORK IS INDICATED IN THE TYPE NUMBER FIELD AND ACCOMPANIED WITH DETAILS SHOWN ON ELEVATIONS; SEE BELOW.



THE CDS IS SUBDIVIDED AS FOLLOWS:

BASE CABINETS W/O DRAWERS	100 SERIES
BASE CABINETS W/ DRAWERS	200 SERIES
WALL-HUNG CABINETS	300 SERIES
TALL STORAGE CABINETS	400 SERIES
TALL WARDROBE CABINETS	500 SERIES
LIBRARY CABINETS	600 SERIES
MOVABLE CABINETS	700 SERIES

EXAMPLE:



GENERAL NOTES: (REFER TO AWS APPENDIX A FOR TYPE DESCRIPTIONS)

1. 100 OR 200 SERIES CABINETS MAY BE CONVERTED INTO MOVEABLE CABINETS BY PREFIXING A "7" TO THE NUMBER. (EXAMPLE: 7-102-36"x30"x18" [7-102-915mm x 762mm x 457mm]).
2. MOVEABLE CABINETS SHALL BE EQUIPPED WITH ADEQUATE APPROVED CASTERS FOR THE INTENDED LOAD CAPACITY.
3. CDS #'s 728, 729, 735, 736, 737, 738 AND 739 REQUIRE METAL ANGLE REINFORCED CORNERS.
4. CARTS AND ROLLING TALL STORAGE CABINETS WITH DOORS, LACKING ANY HORIZONTAL; AND/OR VERTICAL STABILIZING DIVIDERS, REQUIRE A DIAPHRAGM BOTTOM; SPECIFICALLY CDS #'s 702, 712, 716, 722, 743, 744, 746, 750 AND 751.
5. WARDROBE CABINETS (500 SERIES) WITH DOORS REQUIRE A FRAMED MIRROR ON ONE DOOR, AND CABINETS # 533 AND 534 REQUIRE A PAPER ROLLER/CUTTER AND SLIDE-OUT TILTING PAPER SHELVES.
6. CART STORAGE CABINETS ARE REQUIRED TO HAVE HARDWOOD SIDE GUIDES, SPECIFICALLY CDS #'s 160, 161 AND 162.
7. CERAMICS DRYING CABINETS ARE REQUIRED TO HAVE GALVANIZED METAL FRAME SHELVES WITH WIRE MESH, SPECIFICALLY CDS #'s 198, 199 AND 459.
8. FILE DRAWERS REQUIRE FULL-EXTENSION SLIDES AND A FILE-HANGING SYSTEM, SPECIFICALLY CDS #'s 223, 224, 230, 231, 240, 242, 253, 255, 531, 532 AND 533.
9. WARDROBE CABINETS ARE REQUIRED TO HAVE A SHELF, POLE, AND FRAMED MIRROR WHEN CLOSED WITH HINGED DOORS, SPECIFICALLY, CDS #'s 501, 511, 512, 522, 530, 531, 532 AND 552.

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

revisions
1 ADDENDUM #1 11/8/2019

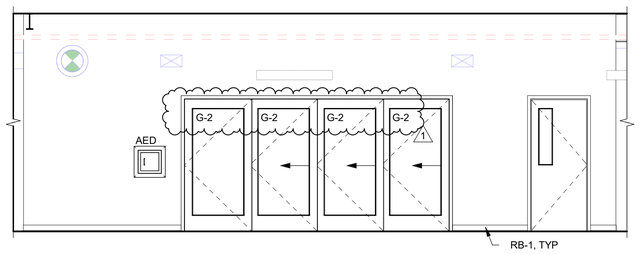
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

INTERIOR ELEVATIONS, MOUNTING HEIGHTS & CASEWORK

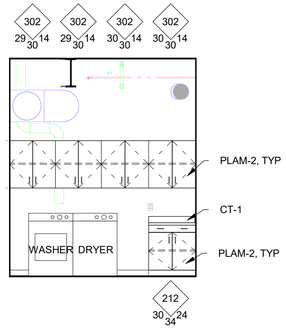
A-701

Scale **1/4" = 1'-0"**

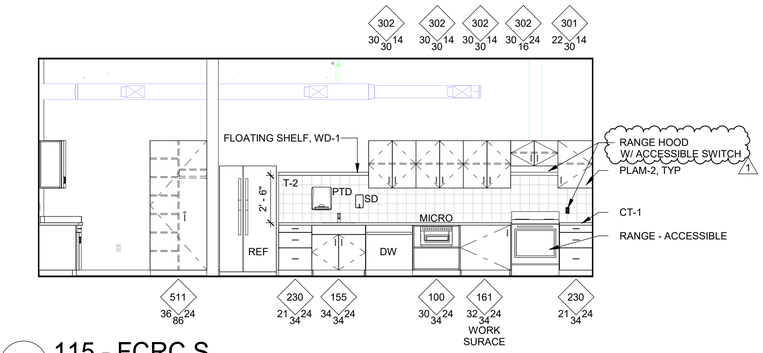
11/7/2019 3:32:59 PM



1 114 - CAFE/COMMONS S
SCALE: 1/4" = 1'-0"



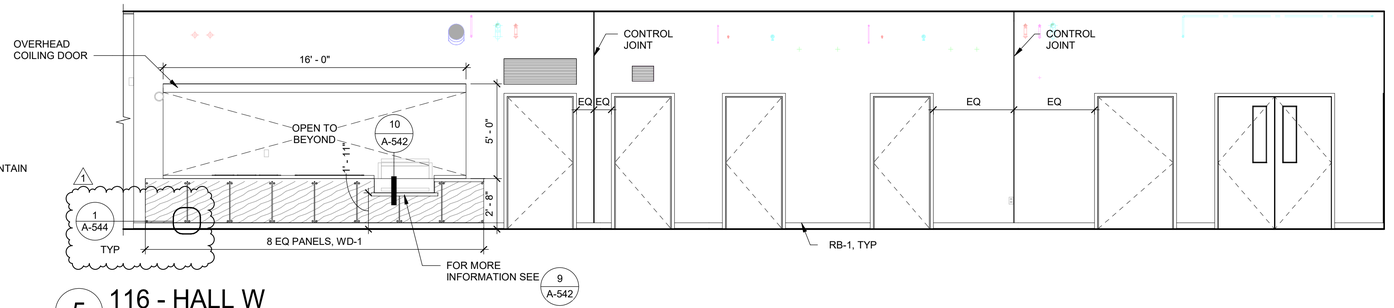
2 115 - FCRC E
SCALE: 1/4" = 1'-0"



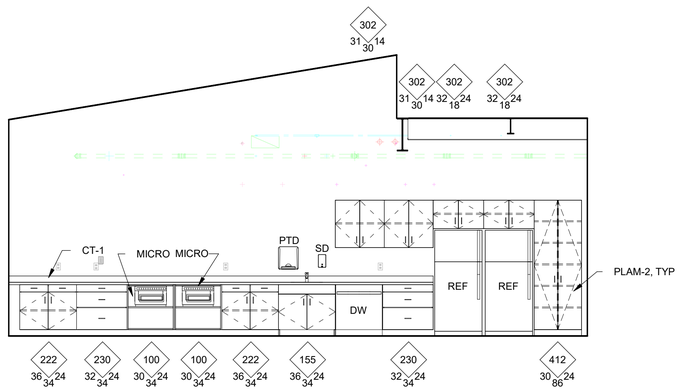
3 115 - FCRC S
SCALE: 1/4" = 1'-0"



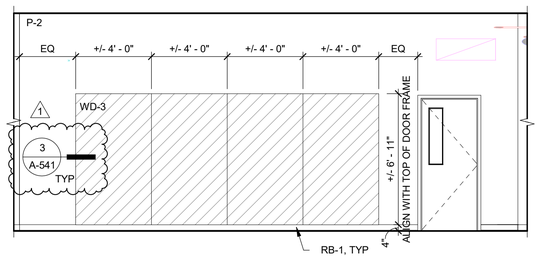
4 116 - HALL N
SCALE: 1/4" = 1'-0"



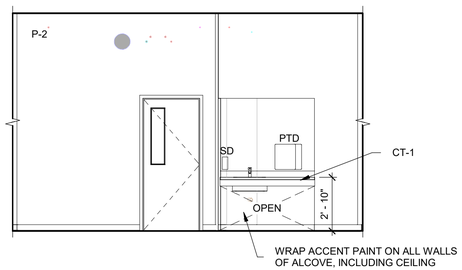
5 116 - HALL W
SCALE: 1/4" = 1'-0"



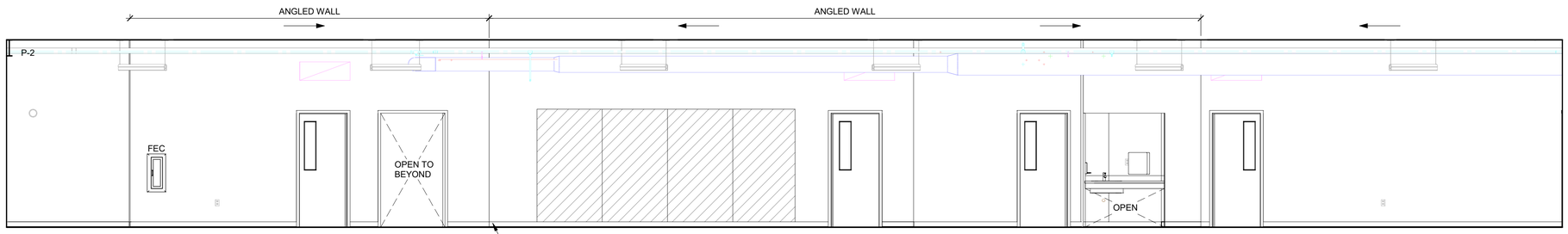
6 119 - STAFF BREAK ROOM N
SCALE: 1/4" = 1'-0"



7 123 - HALL E2
SCALE: 1/4" = 1'-0"



8 123 - HALL E3
SCALE: 1/4" = 1'-0"



9 123 - HALL E1
SCALE: 1/4" = 1'-0"

11/7/2019 3:33:00 PM

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

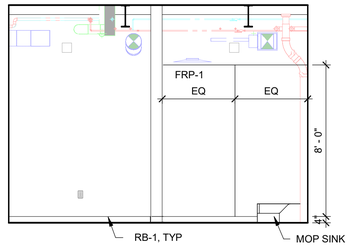
revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

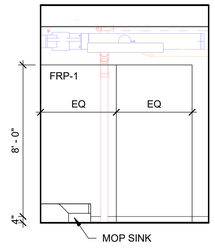
INTERIOR ELEVATIONS

A-702

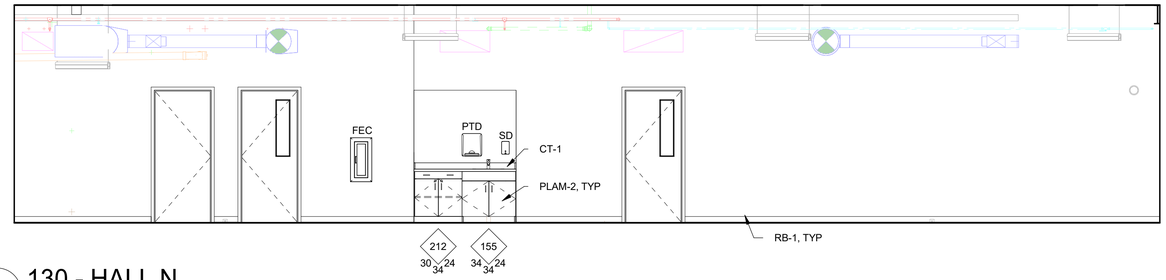
Scale **1/4" = 1'-0"**



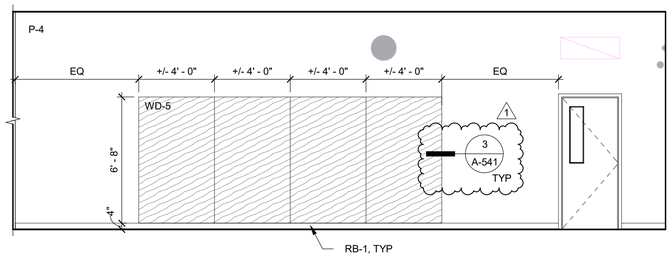
1 128 - B. OPER N
SCALE: 1/4" = 1'-0"



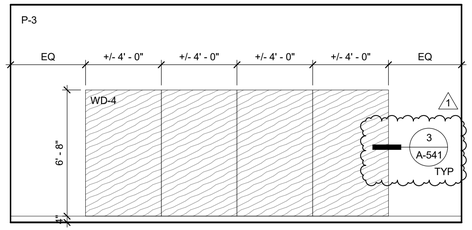
2 128 - B. OPER E
SCALE: 1/4" = 1'-0"



3 130 - HALL N
SCALE: 1/4" = 1'-0"

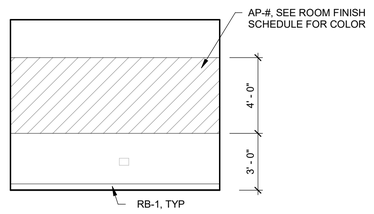


4 130 - HALL S
SCALE: 1/4" = 1'-0"

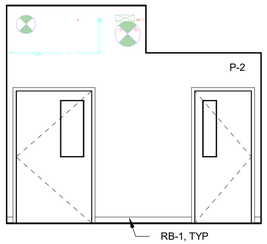


5 133 - HALL N
SCALE: 1/4" = 1'-0"

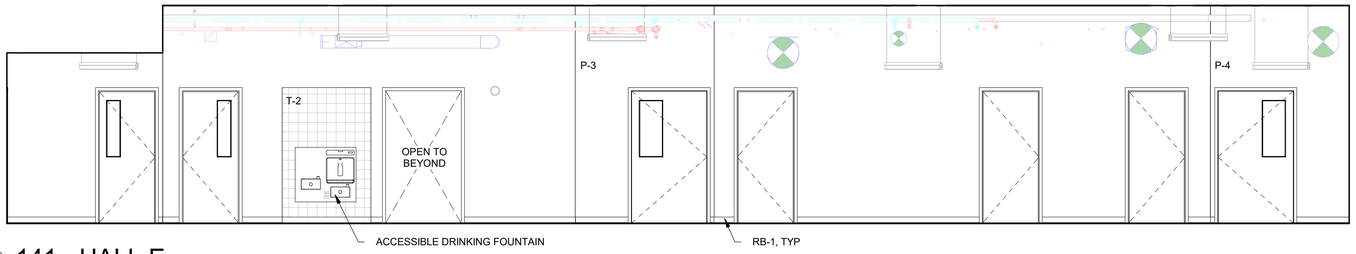
6 133 - HALL S
SCALE: 1/4" = 1'-0"



7 138/124/125/132/137 - SMALL GROUP
SCALE: 1/4" = 1'-0"



8 141 - HALL N
SCALE: 1/4" = 1'-0"



9 141 - HALL E
SCALE: 1/4" = 1'-0"

11/7/2019 3:33:01 PM

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

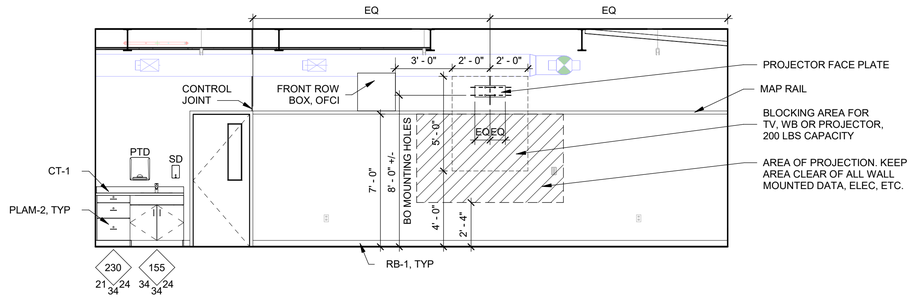
revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

INTERIOR ELEVATIONS

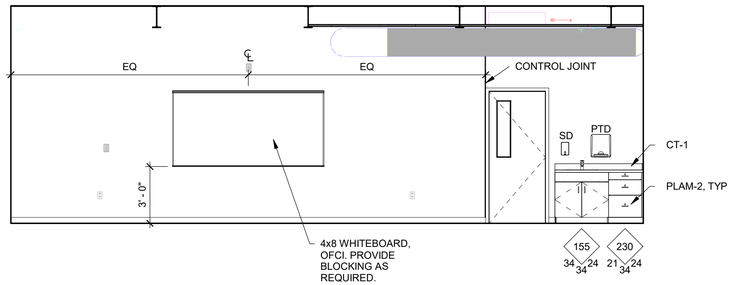
A-703

Scale **1/4" = 1'-0"**



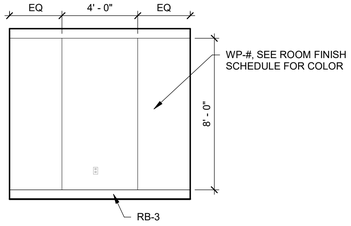
1 4 - MS/HS FLEX N

SCALE: 1/4" = 1'-0"



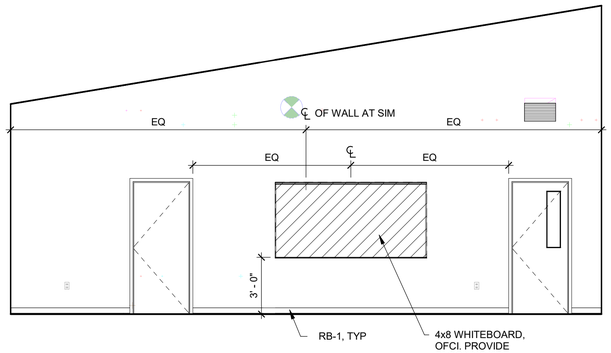
2 4 - MS/HS FLEX S

SCALE: 1/4" = 1'-0"



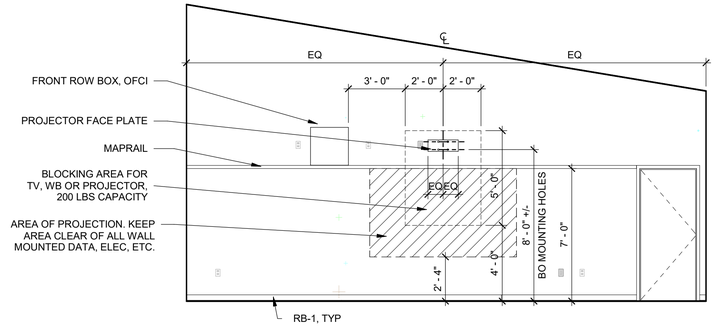
3 TYP FOCUS ROOM WALL PADDING

SCALE: 1/4" = 1'-0"



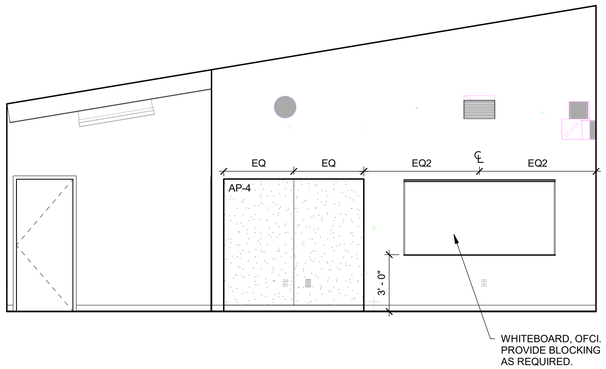
4 TYP CLASSROOM ELEVATION

SCALE: 1/4" = 1'-0"



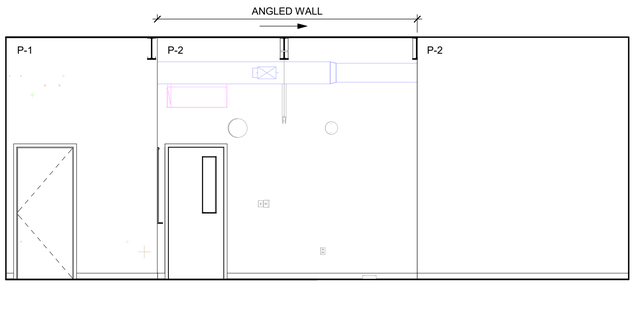
5 TYP TEACHING WALL ELEVATION

SCALE: 1/4" = 1'-0"



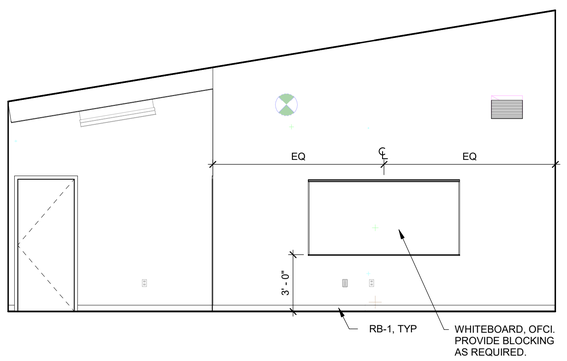
6 8 - CLASSROOM S

SCALE: 1/4" = 1'-0"



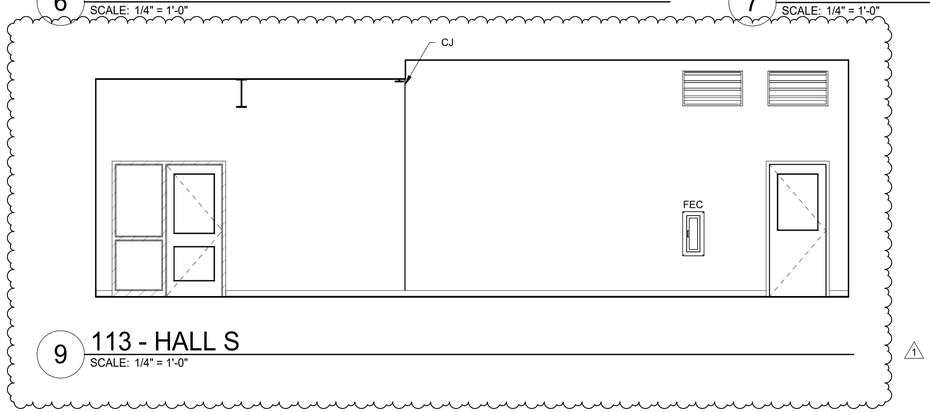
7 8/9 - CLASSROOM W

SCALE: 1/4" = 1'-0"



8 9 - CLASSROOM S

SCALE: 1/4" = 1'-0"



9 113 - HALL S

SCALE: 1/4" = 1'-0"

1

11/7/2019 9:33:03 PM

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

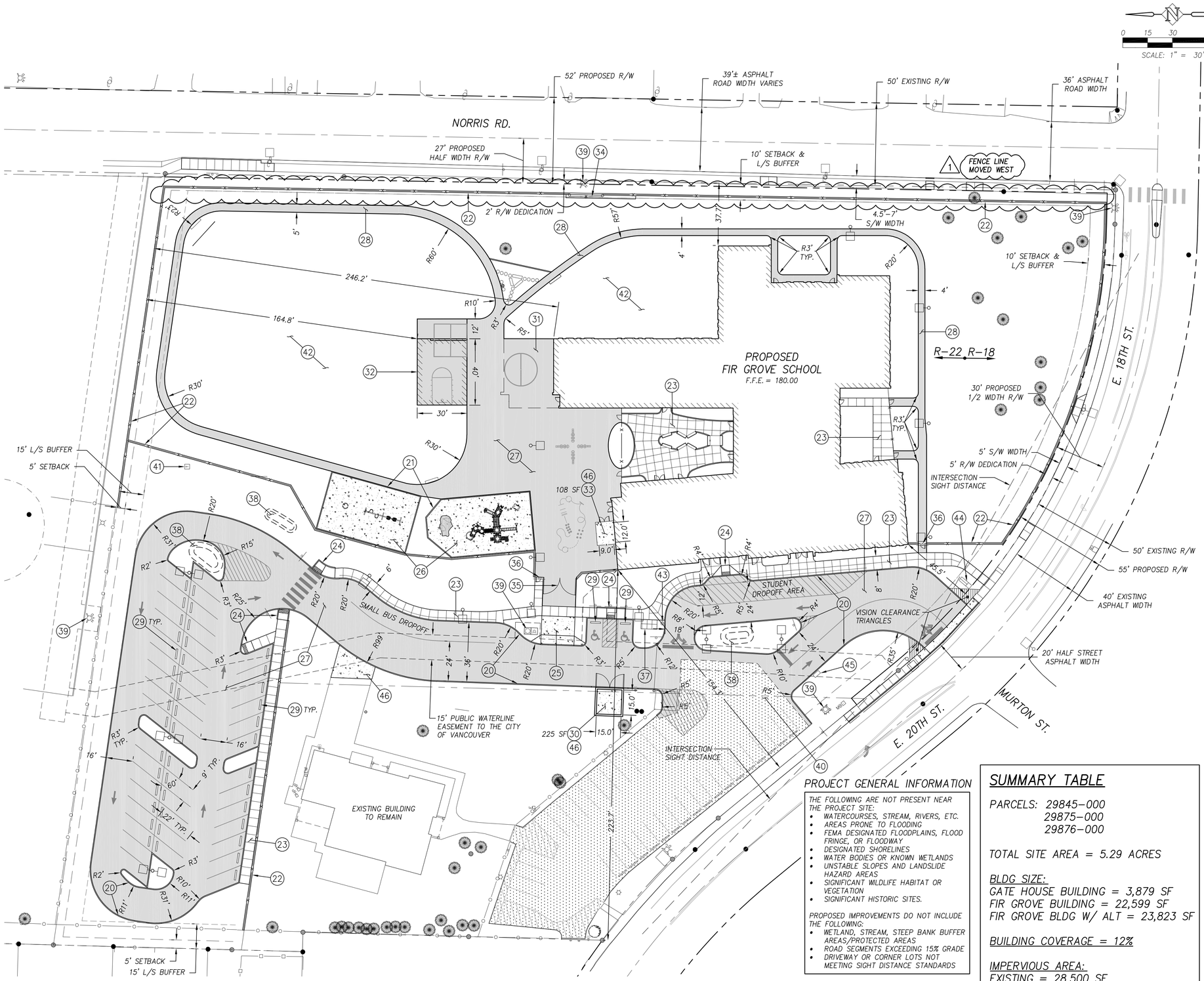
revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

INTERIOR ELEVATIONS

A-705

Scale **1/4" = 1'-0"**



CONSTRUCTION NOTES:

20. CONSTRUCT 16" STANDARD CURB PER DETAIL, SHEET C-701.
21. CONSTRUCT FLUSH CURB PER DETAIL, SHEET C-701.
22. CONSTRUCT FLUSH CURB FOR MOW STRIP UNDER FENCE PER DETAIL, SHEET C-701. SEE LANDSCAPE PLANS FOR FENCE INSTALLATION.
23. CONSTRUCT CONCRETE SIDEWALK PER DETAILS, SHEET C-701.
24. CONSTRUCT ADA RAMP PER DETAILS, SHEET C-702.
25. CONSTRUCT CONCRETE DRIVEWAY PER SECTION, SHEET C-702.
26. CONSTRUCT CONCRETE PAD FOR PLAY PIT PER DETAIL, SHEET C-701.
27. CONSTRUCT ASPHALT PER H.M.A. AUTOMOBILE PARKING LOT SECTION, SHEET C-701.
28. CONSTRUCT ASPHALT PER H.M.A. PATH SECTION, SHEET C-701.
29. INSTALL WHEEL STOPS PER DETAIL, SHEET C-701.
30. INSTALL COMBINED TRASH ENCLOSURE FOR GATE HOUSE AND FIR GROVE. SEE ARCHITECTURAL PLANS.
31. ALTERNATE #1 - ADDITIONAL CLASSROOM.
32. COVERED PLAY STRUCTURE.
33. MECHANICAL YARD.
34. ROLLING EMERGENCY GATE FOR FIRE ACCESS. SEE LANDSCAPE PLANS.
35. VEHICLE GATE. SEE LANDSCAPE PLANS.
36. PEDESTRIAN GATE. SEE LANDSCAPE PLANS.
37. BIKE RACK. SEE LANDSCAPE PLANS.
38. BIORETENTION FACILITY. SEE SHEET C-401.
39. FIRE HYDRANT. SEE SHEET C-502.
40. EXISTING ASPHALT DRIVE TO REMAIN.
41. EXISTING TRANSFORMER TO REMAIN.
42. LAWN PLAY AREA.
43. FLAG POLE.
44. PROJECT READER BOARD, UNDER SEPARATE PERMIT.
45. PROJECT MAILBOX.
46. CONSTRUCT CONCRETE PER SECTION, SHEET C-701.

PROJECT GENERAL INFORMATION

THE FOLLOWING ARE NOT PRESENT NEAR THE PROJECT SITE:
- WATERCOURSES, STREAM, RIVERS, ETC.
- AREAS PRONE TO FLOODING
- FEMA DESIGNATED FLOODPLAINS, FLOOD FRINGE, OR FLOODWAY
- DESIGNATED SHORELINES
- WATER BODIES OR KNOWN WETLANDS
- UNSTABLE SLOPES AND LANDSLIDE HAZARD AREAS
- SIGNIFICANT WILDLIFE HABITAT OR VEGETATION
- SIGNIFICANT HISTORIC SITES.

PROPOSED IMPROVEMENTS DO NOT INCLUDE THE FOLLOWING:
- WETLAND, STREAM, STEEP BANK BUFFER AREAS/PROTECTED AREAS
- ROAD SEGMENTS EXCEEDING 15% GRADE
- DRIVEWAY OR CORNER LOTS NOT MEETING SIGHT DISTANCE STANDARDS

STANDARD PARKING STALLS.....46
ADA PARKING STALLS.....2
TOTAL PARKING STALLS.....48

SUMMARY TABLE

PARCELS: 29845-000
29875-000
29876-000

TOTAL SITE AREA = 5.29 ACRES

BLDG SIZE:
GATE HOUSE BUILDING = 3,879 SF
FIR GROVE BUILDING = 22,599 SF
FIR GROVE BLDG W/ ALT = 23,823 SF

BUILDING COVERAGE = 12%

IMPERVIOUS AREA:
EXISTING = 28,500 SF
NEW = 83,400 SF

IMPERVIOUS COVERAGE = 48.6%

Harper Houf Peterson Righellis Inc.
ENGINEERS • PLANNERS
LANDSCAPE ARCHITECTS • SURVEYORS
1220 Main Street, Suite 150, Vancouver, WA 98660
phone: 360.750.1131 www.hhpr.com fax: 360.750.1141

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSWArchitects.com

KELLY D. BACHELDER — STATE OF WASHINGTON — 40581 — REGISTERED PROFESSIONAL ENGINEER
10/08/19

drawn by
JDB/KDB
checked by
KDB

lsw job number
2018-0029

FIR GROVE CHIDLREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA 98661

issue date
10/15/2019
BID/PERMIT SET

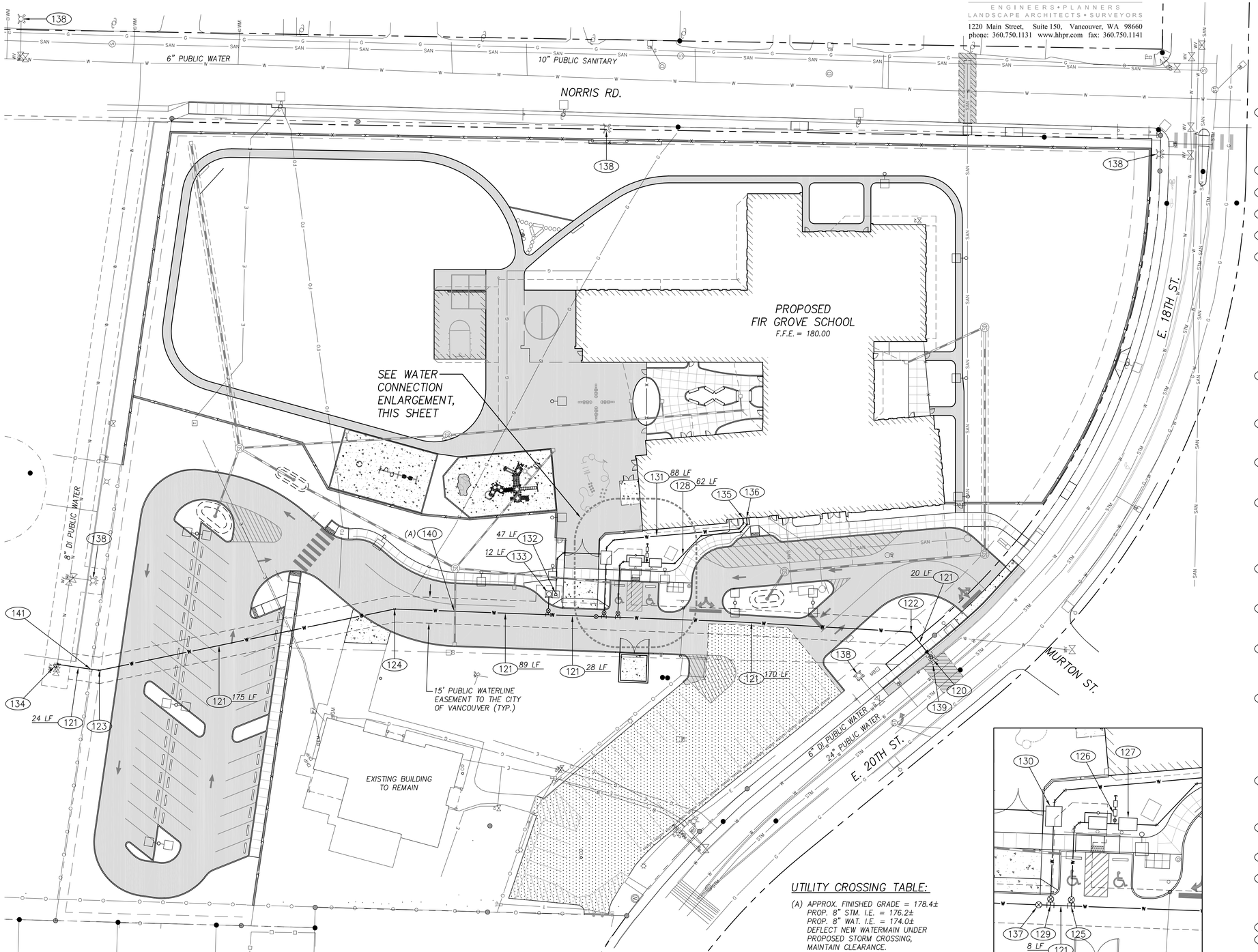
revisions
1 **11/08/2019 ADDENDUM #1**

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

SITE PLAN

C-201

Harper Houf Peterson Righellis Inc.
ENGINEERS • PLANNERS
LANDSCAPE ARCHITECTS • SURVEYORS
1220 Main Street, Suite 150, Vancouver, WA 98660
phone: 360.750.1131 www.hhpr.com fax: 360.750.1141



CONSTRUCTION NOTES:

(120) 1 – 6" S.S. TAPPING SLEEVE, FLG. (6" D.I.)
1 – 6" TAPPING GATE VALVE, FLG. x M.J.
1 – VALVE BOX TOP WITH 6" PVC PIPE EXT.
1 – 6", CL. 52 Z.D.I. NIPPLE (FIELD FIT LENGTH)
1 – 6" x 8" REDUCER, M.J.
MECH. RESTRAIN ALL JOINTS
1 THRUST BLOCK REMOVED

(121) INSTALL 8" Z.D.I. WATERMAIN PIPE PER NOTES AND DETAILS, SHEET C–710. SEE PLAN FOR LENGTH.

(122) 1 – 8", 45° D.I. BEND, M.J. WITH MECH. JOINT RESTRAINTS. MECH. RESTRAIN 17 L.F. BOTH SIDES.

(123) 1 – 8", 22 1/2° D.I. BEND, M.J. WITH MECH. JOINT RESTRAINTS. MECH. RESTRAIN 8 L.F. BOTH SIDES.

(124) 1 – 8", 11 1/4° D.I. BEND, M.J. WITH MECH. JOINT RESTRAINTS. MECH. RESTRAIN 6 L.F. BOTH SIDES.

(125) 1 – 8" x 4" TEE, M.J.
1 – 4" G.V., M.J.
1 – VALVE BOX TOP WITH 6" PVC PIPE EXT.
2 – 4", 45° D.I. BEND, M.J. (WHERE SHOWN)
1 – 3" DOMESTIC WATER METER IN VAULT WITH 2" BYPASS PER DETAIL W–3, SHEET C–710 INCL:
2 – 4" G.V., M.J. x FLG.
1 – 4" x 3" REDUCER, FLG. x FLG.
INSTALL APPROX. 36 LF OF 4" Z.D.I. WATERMAIN PIPE (FIELD FIT LENGTH). MECH. RESTRAIN ALL JOINTS. CONTRACTOR SHALL COORDINATE WITH THE CONSTRUCTION INSPECTOR AND CITY METER CREW TO OBTAIN THE CORRECT SPACING SPOOL.

(126) INSTALL 2" DEDUCT WATER METER WITH DOUBLE CHECK VALVE ASSEMBLY (WATTS D007MI–QT–S2 OR APPROVED EQUAL) PER DETAILS W–2 AND W–21, SHEETS C–710 AND C–711, AND SHUT–OFF VALVE FOR IRRIGATION.

(127) 1 – 3" DOMESTIC DOUBLE CHECK VALVE ASSEMBLY (WATTS 757–DOSY3 OR APPROVED EQUAL) IN VAULT 575–WA OR APPROVED EQUAL PER DETAIL W–22, SHEET C–711.

(128) INSTALL 3" Z.D.I. WATERMAIN PIPE FROM CHECK VALVE TO BUILDING. MECH. RESTRAIN ALL JOINTS. SEE PLAN FOR APPROX. COMBINED LENGTH.
4 – 3", 45° D.I. BEND, M.J. (WHERE SHOWN)

(129) 1 – 8" x 6" TEE, M.J. x SIDE FLG.
1 – 6" G.V., FLG. x M.J.
1 – VALVE BOX TOP WITH 6" PVC PIPE EXT.
INSTALL APPROX. 30 LF OF 6" Z.D.I. FIRE SUPPRESSANT PIPE (FIELD FIT LENGTHS), MECH. RESTRAIN ALL JOINTS FROM THE TEE TO THE BACKFLOW DEVICE.

(130) INSTALL 6" FIRE SUPPRESSION DOUBLE CHECK VALVE ASSEMBLY (WATTS 757–0546 OR APPROVED EQUAL) IN VAULT 676–WA OR APPROVED EQUAL PER DETAIL W–22, SHEET C–711.

(131) INSTALL 6" Z.D.I. FIRE SUPPRESSANT PIPE FROM VAULT TO BUILDING. MECH. RESTRAIN ALL JOINTS. SEE PLAN FOR APPROX. COMBINED LENGTH.
4 – 6", 45° D.I. BEND, M.J. (WHERE SHOWN)

(132) FDC. SEE PLAN FOR 4" Z.D.I. COMBINED LENGTH. CONTRACTOR SHALL RESTRAIN ALL JOINTS AND PROVIDE NECESSARY FITTINGS INCLUDING:
1 – 4' x 4' CONCRETE PAD
2 – 4", 45° D.I. BEND, M.J. (WHERE SHOWN)

(133) INSTALL FIRE HYDRANT ASSEMBLY PER DETAIL W–10, SHEET C–710 WITH:
1 – 4' x 4' CONCRETE PAD
1 – 8" x 6" TEE, M.J. x SIDE FLG.
1 – 6" G.V., FLG. x M.J.
1 – VALVE BOX TOP WITH 6" PVC PIPE EXT.
INSTALL 6" Z.D.I. WATERMAIN PIPE TO HYDRANT. MECH. RESTRAIN ALL JOINTS. SEE PLAN FOR APPROX. LENGTH.

(134) CUT EXISTING 8" D.I. WATERMAIN, REMOVE EXISTING BLOW–OFF ASSEMBLY AND INSTALL:
1 – 8", 90° D.I. ELBOW, M.J. WITH MECH. JOINT RESTRAINTS
1 – THRUST BLOCK

(135) 6" FIRE SUPPRESSION WATER LINE POINT OF CONNECTION. REFER TO PLUMBING PLANS FOR EXACT LOCATION.

(136) 3" DOMESTIC WATER SERVICE POINT OF CONNECTION. REFER TO PLUMBING PLANS FOR EXACT LOCATION.

(137) 1 – 8" G.V., M.J.
1 – VALVE BOX TOP WITH 6" PVC PIPE EXT.
1 – 8", CL. 52 Z.D.I. NIPPLE (FIELD FIT LENGTH, SOUTH)
MECH. RESTRAIN ALL JOINTS.

(138) PROTECT EXISTING FIRE HYDRANT.

(139) CONSTRUCT BEDDING AND BACKFILL PER DETAIL W–13, SHEET C–710.

(140) CAUTION: UTILITY CROSSING, SEE UTILITY CROSSING TABLE (THIS SHEET).

(141) TEMPORARILY DISCONNECT FENCING FOR TRENCHING AND WATERMAIN INSTALLATION. REASSEMBLE TO LIKE OR NEW CONDITION UPON TESTING AND ACCEPTANCE OF NEW MAIN.

UTILITY CROSSING TABLE:

(A) APPROX. FINISHED GRADE = 178.4±
PROP. 8" STM. I.E. = 176.2±
PROP. 8" WAT. I.E. = 174.0±
DEFLECT NEW WATERMAIN UNDER PROPOSED STORM CROSSING, MAINTAIN CLEARANCE.

A SEPARATE PERMIT IS REQUIRED FOR UNDERGROUND FIRE WATER PIPING AND SHALL BE INSTALLED IN ACCORDANCE WITH WAC 212–80.

WATER CONNECTION ENLARGEMENT

SCALE: 1" = 20'

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSWArchitects.com

KELLY D. BACHELDER
STATE OF WASHINGTON
40581
REGISTERED PROFESSIONAL ENGINEER
10/08/19

drawn by
JDB/KDB
checked by
KDB
lsw job number
2018-0029

FIR GROVE CHIDLREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA 98661

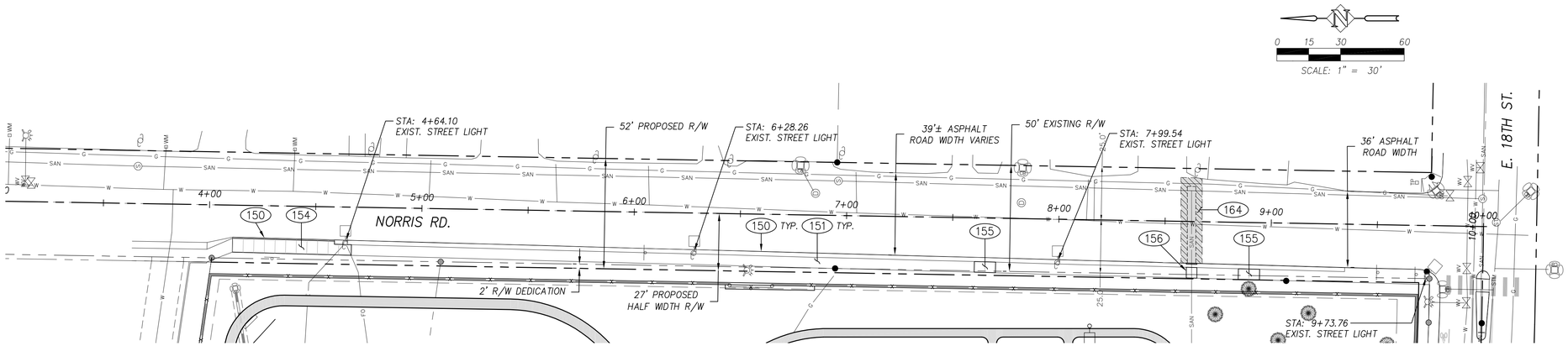
issue date
10/15/2019
BID/PERMIT SET

revisions
1 **11/08/2019 ADDENDUM #1**

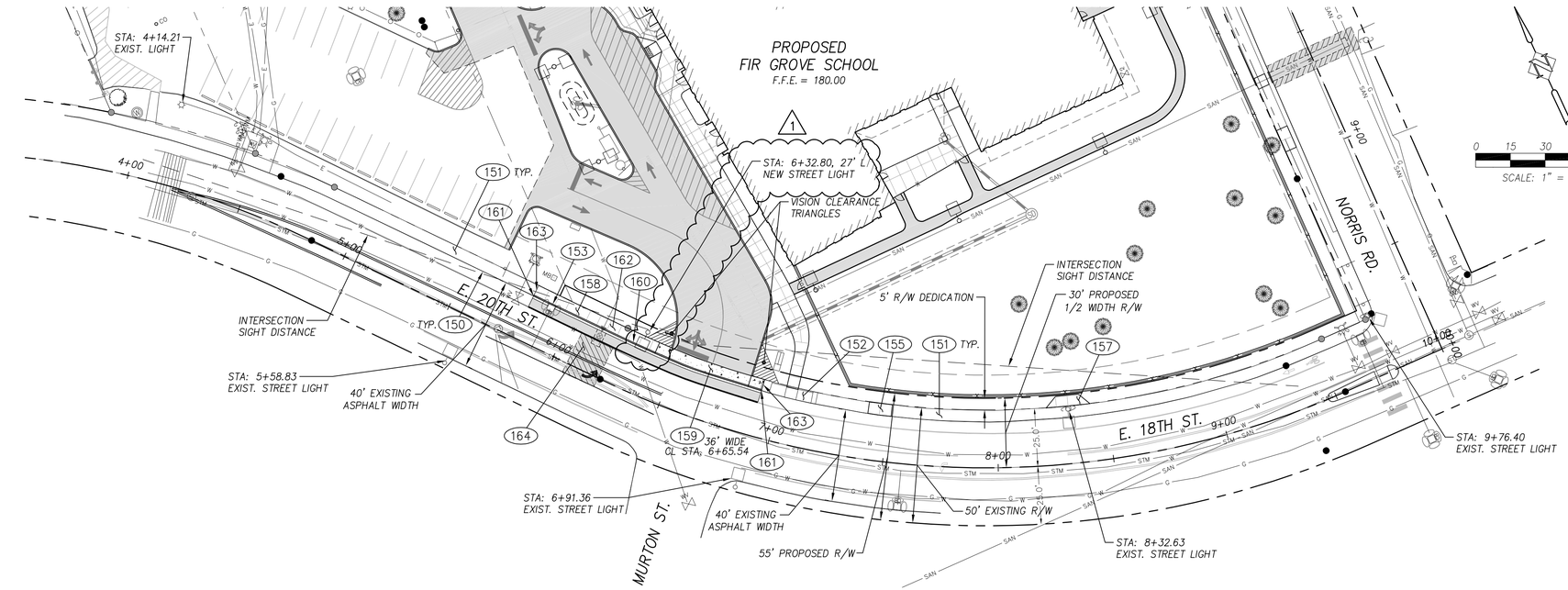
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

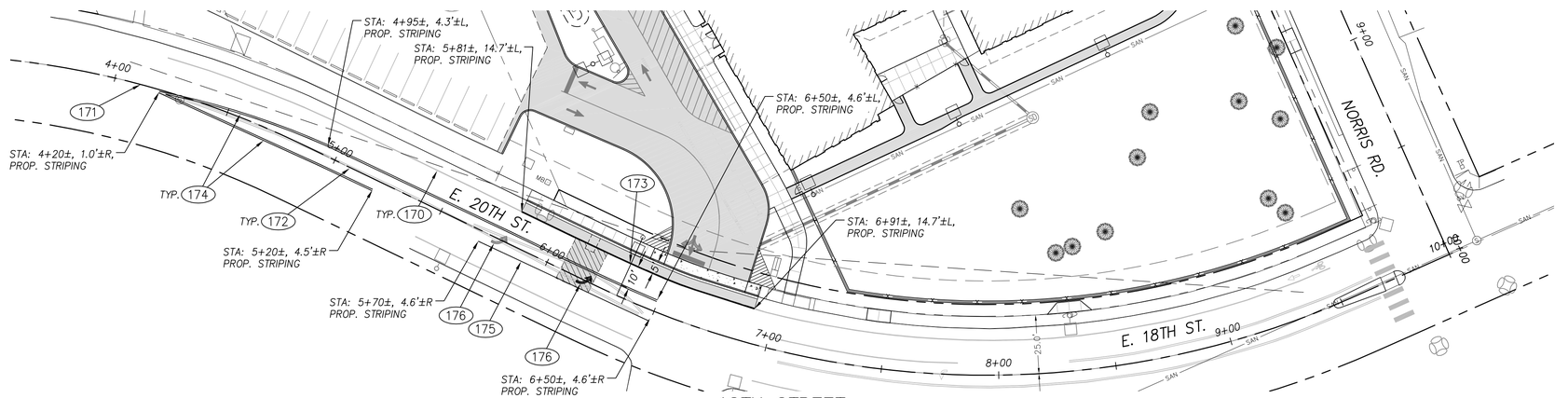
WATER PLAN

C-502



NORRIS ROAD





18TH STREET

CONSTRUCTION NOTES:

(150) PROTECT EXISTING CURB.
(151) PROTECT EXISTING SIDEWALK.
(152) REMOVE AND REPLACE EXISTING ADA RAMP. REMOVE PEDESTRIAN CURB FOR NEW SIDEWALK TIE IN.
(153) PROTECT EXISTING CATCH BASIN. PROVIDE INLET PROTECTION PER DETAILS E-2.20A AND E-2.20B, SHEET C-704.
(154) REMOVE AND REPLACE EXISTING SIDEWALK FROM NEWLY CONSTRUCTED SIDEWALK TO SOUTH OF UTILITY POLE. CONSTRUCT NEW SIDEWALK PER DETAIL T02-01A, SHEET C-712.
(155) REMOVE AND REPLACE EXISTING SIDEWALK AT DAMAGED LOCATION. CONSTRUCT NEW (10' MIN.) SIDEWALK PER DETAIL T02-01A, SHEET C-712.
(156) REMOVE EXISTING SIDEWALK AND ADJACENT CURB FOR SANITARY SEWER INSTALLATION. CONSTRUCT NEW (5' MIN.) SIDEWALK AND TYPE E-1 CURB PER DETAILS T01-01A AND T02-01A, SHEET C-712.
(157) CONSTRUCT CONCRETE SIDEWALK NORTH OF UTILITY POLE TO MOW STRIP AND TIE INTO EXISTING SIDEWALK. CONSTRUCT NEW SIDEWALK PER DETAIL T02-01A, SHEET C-712.
(158) REMOVE EXISTING DRIVEWAY DROP.
(159) CONSTRUCT NEW DRIVEWAY PER DETAIL T01-05B, SHEET C-712.
(160) CONSTRUCT TYPE A-1 CONCRETE CURB AND GUTTER PER DETAILS T01-01A AND T05-01A, SHEET C-712.
(161) MATCH NEW CURB TO EXISTING CURB. TRANSITION LOCATION AND HEIGHT TO EXISTING CURB OVER 3 FEET.
(162) CONSTRUCT CONCRETE SIDEWALK PER DETAIL T02-01A, SHEET C-712.
(163) MATCH NEW SIDEWALK ELEVATION AND LOCATION TO EXISTING SIDEWALK. PROTECT EXISTING ADA RAMP, TIE IN SIDEWALK.
(164) PROVIDE PAVEMENT RESTORATION PER DETAILS T05-01B AND T05-6A, SHEETS C-712 AND C-713. GRIND AND OVERLAY TO MATCH EXISTING TOP LIFT PLUS 1/4", 3" MIN.
(170) PROTECT EXISTING 8" WHITE BIKE LANE STRIPE.
(171) PROTECT EXISTING DOUBLE YELLOW STRIPING.
(172) REMOVE EXISTING DOUBLE YELLOW STRIPING.
(173) PAINT 8" WHITE BIKE LANE STRIPE WHERE NEW ASPHALT REPAIR IS CONSTRUCTED.
(174) PAINT DOUBLE YELLOW CENTERLINE STRIPE PER DETAIL T29-48, SHEET C-714.
(175) PAINT 8" TURN LANE LINE PER DETAIL T29-44, SHEET C-714.
(176) PAINT LEFT TURN MARKER PER DETAIL T29-53, SHEET C-714.

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSWArchitects.com

HHPR Harper Houf Peterson Righellis Inc.
ENGINEERS • PLANNERS
LANDSCAPE ARCHITECTS • SURVEYORS
1220 Main Street, Suite 150, Vancouver, WA 98660
phone: 360.750.1131 www.hhpr.com fax: 360.750.1141

KELLY D. BACHELDER
STATE OF WASHINGTON
40581
REGISTERED
PROFESSIONAL ENGINEER
10/08/19

drawn by
JDB/KDB
checked by
KDB

lsw job number
2018-0029

FIR GROVE CHIDLREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA 98661

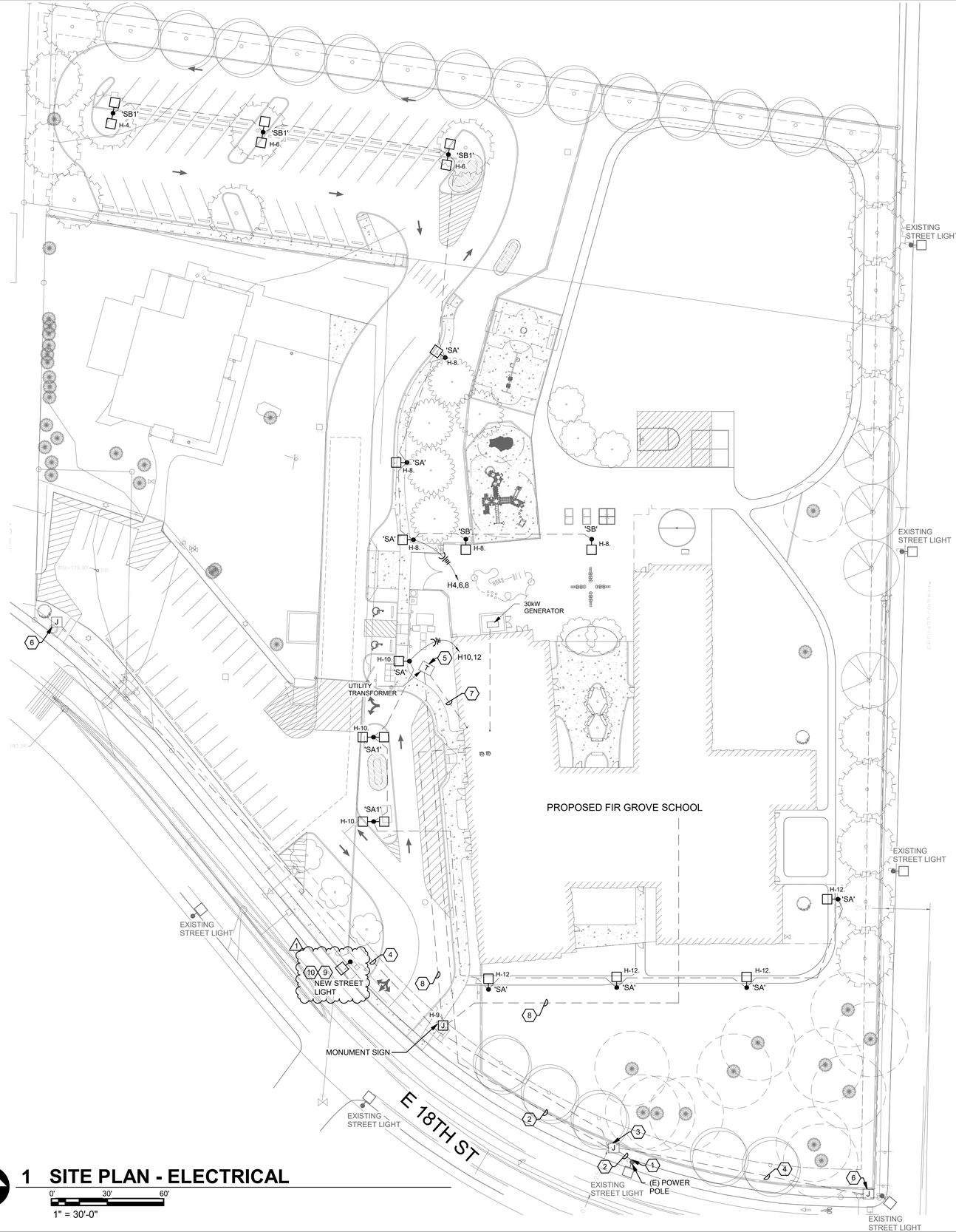
Issue date
10/15/2019
BID/PERMIT SET

revisions
1 11/08/2019
ADDENDUM #1

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

PUBLIC STREET IMPROVEMENT PLAN

C-601



1 SITE PLAN - ELECTRICAL

0' 30' 60'

1" = 30'-0"

NORTH

11/6/2019 3:02:54 PM

GENERAL NOTES

A. CONTRACTOR MUST BE ON CPU'S (CLARK PUBLIC UTILITY'S) LIST OF APPROVED CONTRACTORS. ALL CONSTRUCTION TO COMPLY WITH CPU STANDARDS AND BE COMPLETED AS DESIGNED BY CPU. CONTACT CPU FOR FINALIZED DESIGN AND REQUIREMENTS.

B. COORDINATE INSTALLATION OF ALL UNDERGROUND FEEDERS TO MAINTAIN MINIMUM CLEARANCES OF 6' FROM GAS LINES THAT RUN BESIDE FEEDERS AND 1' FROM GAS LINES THAT CROSS UNDERGROUND FEEDERS. ALSO MAINTAIN 10' FROM SANITARY, STORM AND WATER LINES THAT RUN PARALLEL TO UNDERGROUND FEEDERS.

C. NO WIRE SMALLER THAN NO. 10 AWG SHALL BE USED AS BRANCH CIRCUIT WIRING OF EXTERIOR LIGHTING. SIZE CONDUIT AS PER NEC STANDARDS.

D. CONDUIT RUNS ARE SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. CONFIRM AND COORDINATE FINAL LOCATIONS ON-SITE PRIOR TO ROUGH-IN. UNLESS OTHERWISE NOTED CONDUIT MUST BE RIGID PVC.

E. THE INSTALLATION OF POLE BASES MUST BE COORDINATED ON-SITE WITH ARCHITECTURAL AND CIVIL TRADES.

SHEET KEYNOTES

1. STUB-UP 4" CONDUIT AT POLE BRACKET. COIL 45' OF PRIMARY AT BASE OF POLE.
2. PROVIDE (3) 10APUJ175 (1/0 AL, 175 MIL EPR W/ JACKETED NEUTRAL) IN (1) 4" SCHEDULE 40 CONDUIT.
3. PROVIDE UJ3 PER CPU SPEC. UJM-44; ASSIGN #10191
4. PROVIDE (1) 4" SCHEDULE 40 CONDUIT.
5. PROVIDE 500BL (208Y/120V, 3-PH) XFMR PER CPU SPEC. UT-30; ASSIGN #43204.
6. INSTALL CPU PROVIDED LOOP ENCLOSURE, CONTACT CPU TO ARRANGE PICK-UP.
7. SEE E-501, ONE-LINE DIAGRAM, FOR CONDUIT AND CONDUCTOR SIZE.
8. PROVIDE 2#8CU AND 1#8CU GND IN 2" CONDUIT TO NEW EXTERIOR MONUMENT SIGN FROM PANEL "H" AND PROVIDE MULTIMODE OM3 LOOSE TUBE OUTDOOR RATED FIBER OPTIC CABLE TO MONUMENT SIGN FROM MDF ROOM. RUN FIBER IN 2" RIGID CONDUIT INDOORS AND IN RIGID PVC UNDERGROUND. REFER TO POWER PLANS FOR POWER PANEL LOCATION.
9. BASIS OF DESIGN FOR STREET LIGHTING IS LEOTEK CAT. NO. GCJ0-15H-MV-WW-2R-GY-390-BBL-PCR7-WL. STREET LIGHTING LUMINAIRE SUBMITTED BY CONTRACTOR WILL BE SUBJECT TO REVIEW AND APPROVAL BY CITY OF VANCOUVER.
10. COORDINATE STREET LIGHTING LOCATIONS AND QUANTITY WITH CIVIL DRAWINGS. FOR STREET LIGHTING, CONTRACTOR TO PROVIDE AND INSTALL POLE MOUNTED LUMINAIRE AND POLE BASE IN ACCORDANCE WITH CITY OF VANCOUVER STREET LIGHTING INSTALLATION DETAILS. COORDINATE POWER SUPPLY LOCATION WITH CLARK PUBLIC UTILITIES. PROVIDE ALL BRANCH CIRCUIT WIRING AND CONDUIT REQUIRED. FINAL CONNECTIONS TO SUPPLY POINT TO BE BY CLARK PUBLIC UTILITIES.

Incoming Electrical Service Division of Responsibility

	Contractor	Utility
Primary Conduit	X	
Primary Conductors	X	
Trenching and Backfill	X	
Transformer	X	
Transformer Pad / Vault	X	
Bollards	X	
Transformer Connections	X	
Secondary Conduit	X	
Secondary Conductors	X	
C/T Enclosure	X	
C/T's		X
Meter Base	X	
Meter		X
Electric Room Door Lock Box (obtain from power company)	X	
Reported Fault Current at Transformer		

Contacts:

Power Utility:
Charlie Beatty
Clark Public Utility
cbeatty@clarkpud.com
Work Request #: 547100

Telephone Utility:
Mandy Stubblefield
Centurylink
mandy.stubblefield@centurylink.com

Cable T.V. Utility:
Bob Millar
Comcast
bob_millar@Comcast.com
Phone: (360) 316-1128

Notes:

1. Contact and coordinate all requirements and responsibilities with serving utility companies prior to submitting bid.
2. All service installation work shall be in strict compliance with the requirements of the serving utilities.

Disclaimer: Interface Engineering, Inc. has contacted the utilities but has not received in writing the final requirements from Clark Public Utility, [telephone utility] [CATV utility]. These drawings indicate our best estimation of their requirements. Prior to bid and prior to any construction, contact the utilities and obtain in writing their requirements.

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

CODY ROSS BARGHOLZ
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM #1 11/8/2019

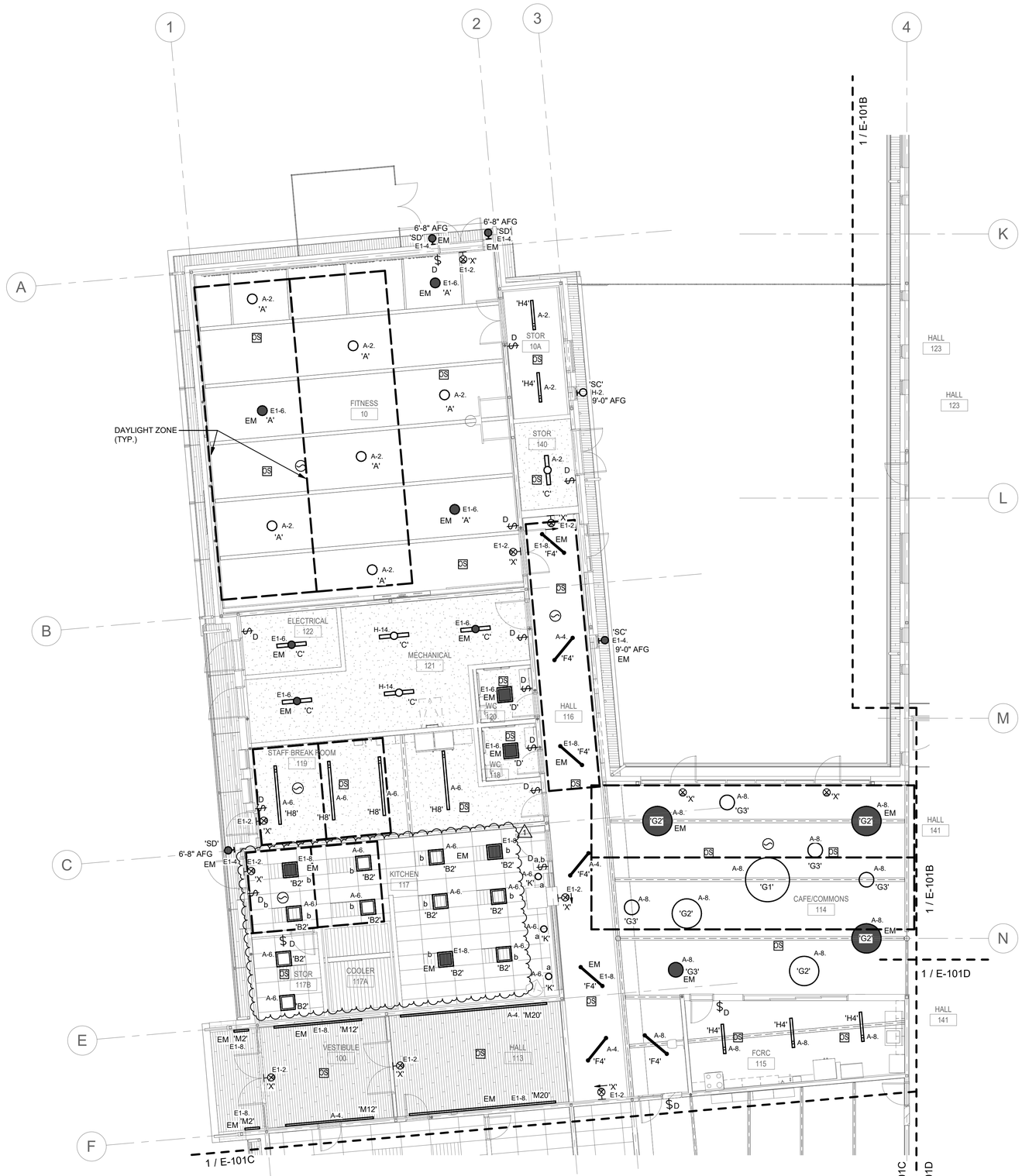
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

SITE PLAN - ELECTRICAL

INTERFACE ENGINEERING
PROJECT 2019-0017
CONTACT Cody Bargholz
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

E-100

Scale **1" = 30'-0"**



1 LEVEL 1 FLOOR PLAN SECTOR A - LIGHTING

NORTH

0' 4' 8' 16'

1/8" = 1'-0"

11/6/2019 3.02.55 PM

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

CODY ROSS BARGHOLZ — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

drawn by
Author
checked by
Checker

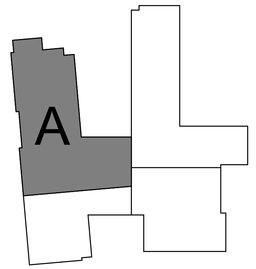
lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
BID/PERMIT SET

revisions

1	ADDENDUM #1	11/8/2019



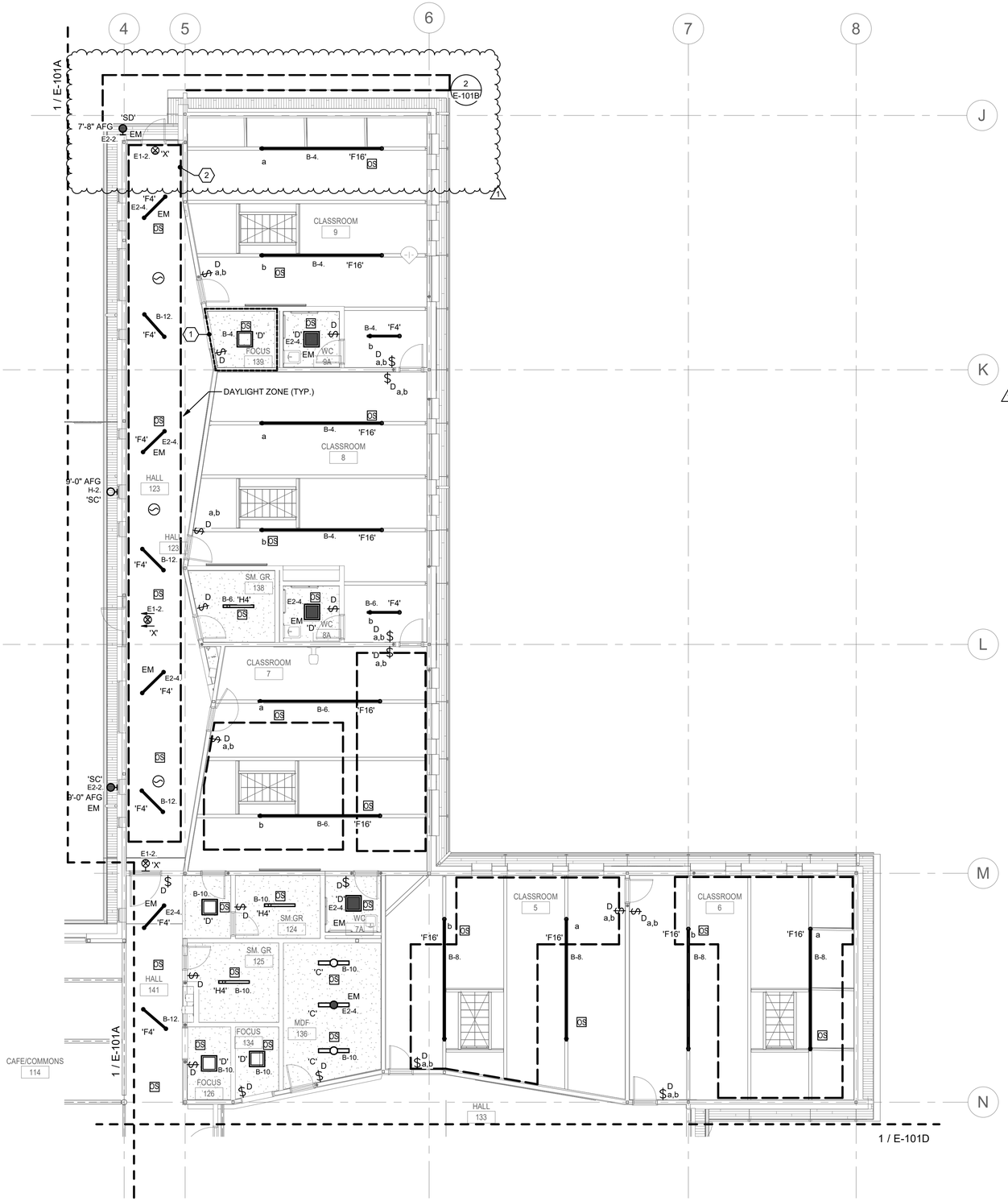
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

LEVEL 1 FLOOR PLAN SECTOR A - LIGHTING

INTERFACE ENGINEERING
PROJECT 2019-0017
CONTACT Cody Bargholz
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

E-101A

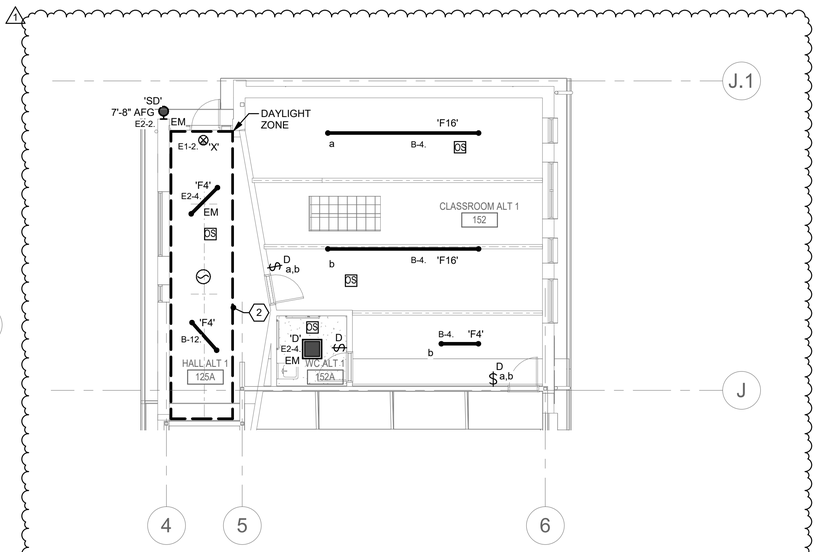
Scale **1/8" = 1'-0"**



1 LEVEL 1 FLOOR PLAN SECTOR B - LIGHTING

0' 4' 8' 16'

1/8" = 1'-0"



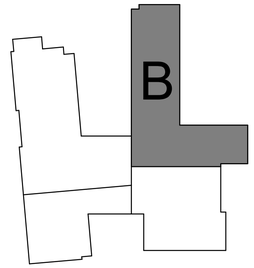
2 LEVEL 1 ALT. FLOOR PLAN SECTOR B - LIGHTING

0' 4' 8' 16'

1/8" = 1'-0"

SHEET KEYNOTES

1. PROVIDE SEPARATE PRICING FOR BID ALTERNATE DESIGN TO ELIMINATE ALL ELECTRICAL DEVICES AND FIXTURES IN THE INDICATED FOCUS ROOM.
2. DAYLIGHT ZONE



LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

CODY ROSS BARGHOLZ
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

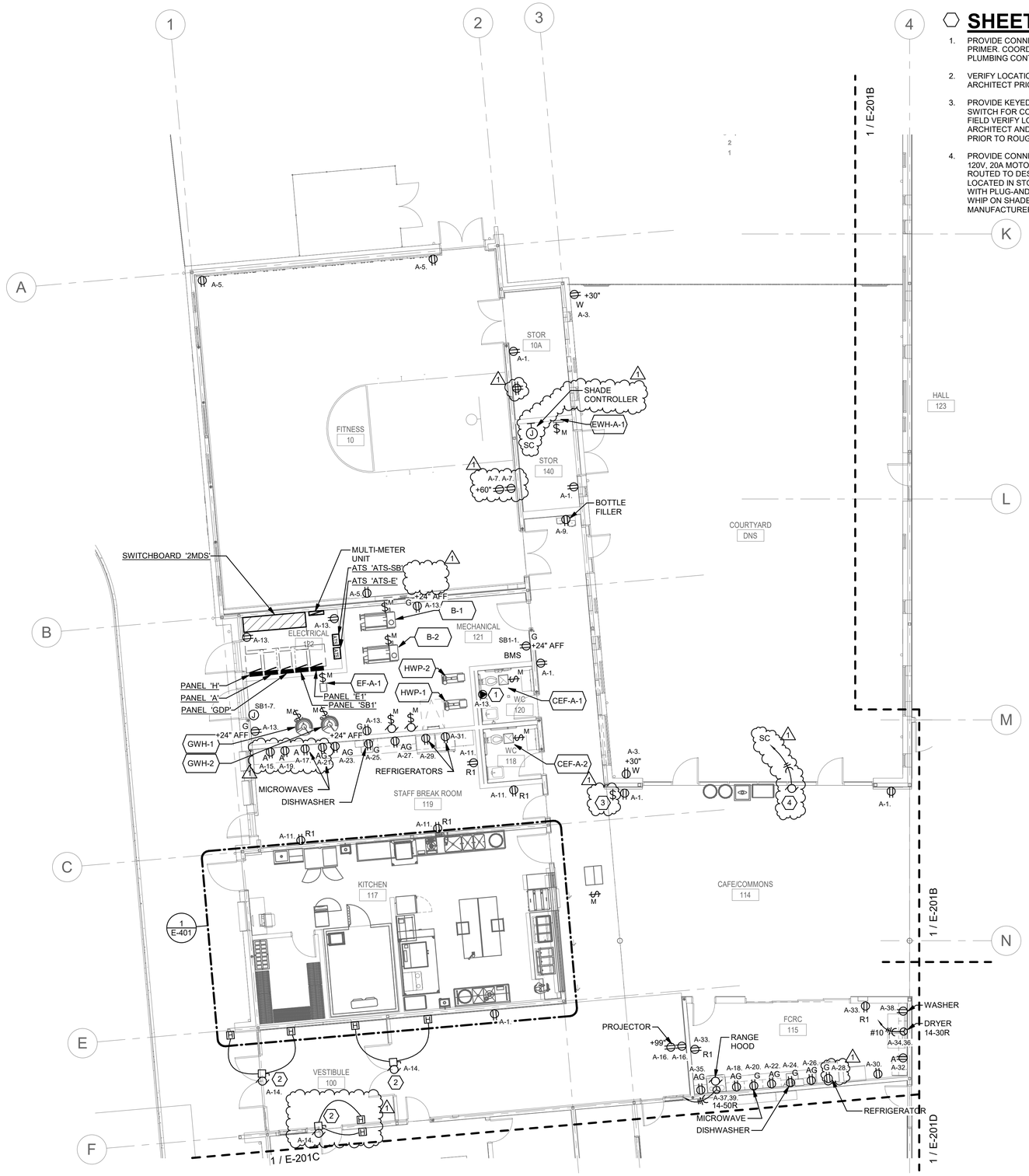
LEVEL 1 FLOOR PLAN SECTOR B - LIGHTING

INTERFACE ENGINEERING
PROJECT 2019-0017
CONTACT Cody Bargholz
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

E-101B

Scale **1/8" = 1'-0"**

11/6/2019 3:02:57 PM



SHEET KEYNOTES

1. PROVIDE CONNECTION TO ELECTRONIC TRAP PRIMER. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR.
2. VERIFY LOCATION OF ADA DOOR OPERATORS WITH ARCHITECT PRIOR TO ROUGH-IN.
3. PROVIDE KEYED, 5-POSITION LOW VOLTAGE SWITCH FOR CONTROL OF MOTORIZED SHADES. FIELD VERIFY LOCATION OF SWITCH WITH ARCHITECT AND OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
4. PROVIDE CONNECTION TO MOTORIZED SHADES: 120V, 20A MOTORIZED SHADE CONNECTION TO BE ROUTED TO DESIGNATED SHADE CONTROLLER LOCATED IN STOR 140. INSTALL MC CABLE WHIP WITH PLUG-AND-PLAY CONNECTOR TO MATCH WHIP ON SHADE MOTOR, SUPPLIED BY SHADE MANUFACTURER.

1 LEVEL 1 FLOOR PLAN SECTOR A - POWER

NORTH

0' 4' 8' 16'

1/8" = 1'-0"

11/6/2019 3:02:58 PM

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

CODY ROSS BARGHOLZ — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

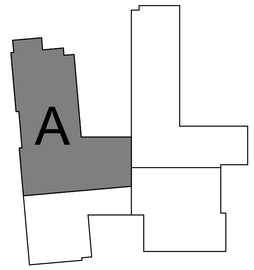
drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM #1 11/8/2019



ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

LEVEL 1 FLOOR PLAN SECTOR A - POWER

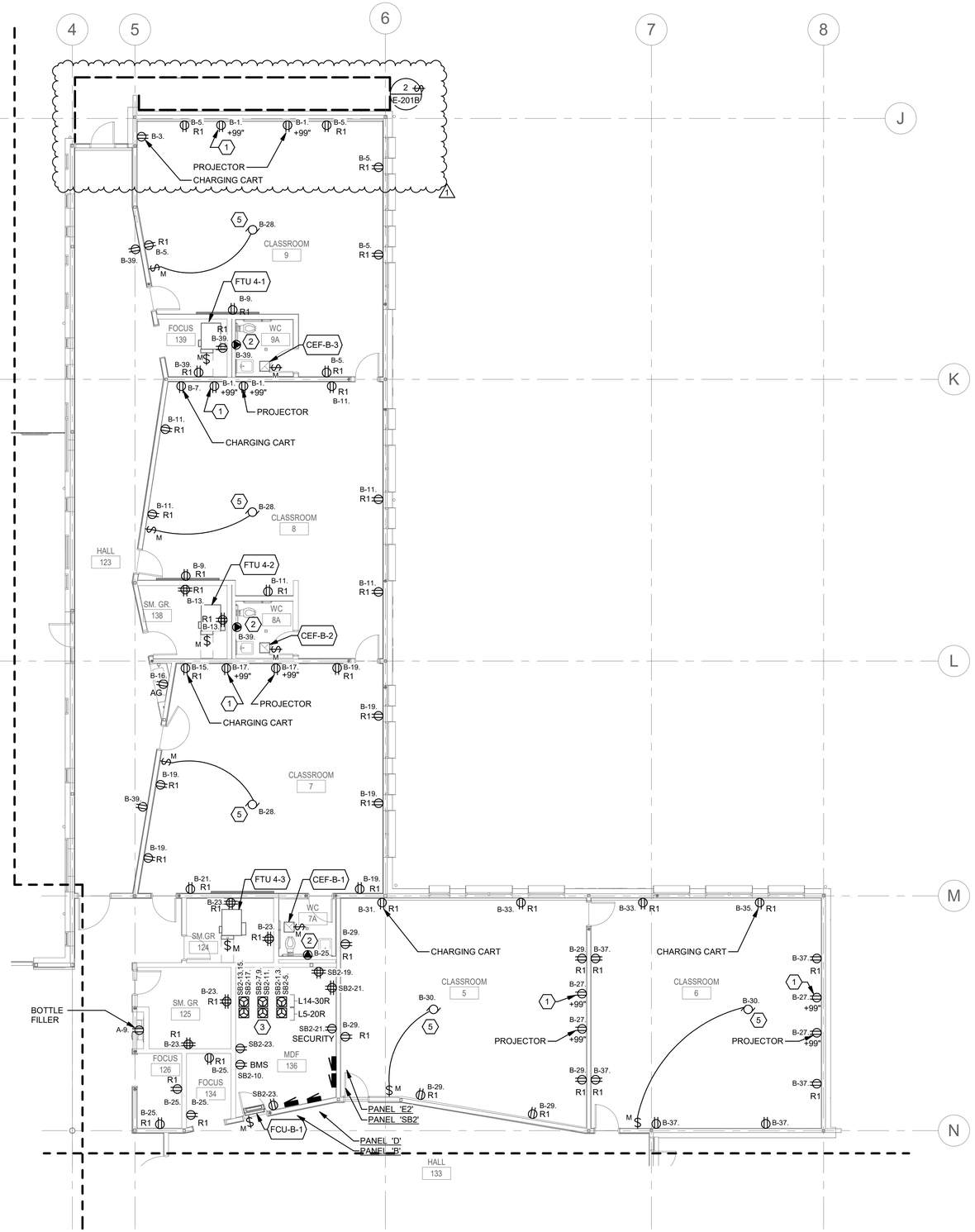
INTERFACE ENGINEERING
PROJECT 2019-0017
CONTACT Cody Bargholz
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

E-201A

Scale **1/8" = 1'-0"**

SHEET KEYNOTES

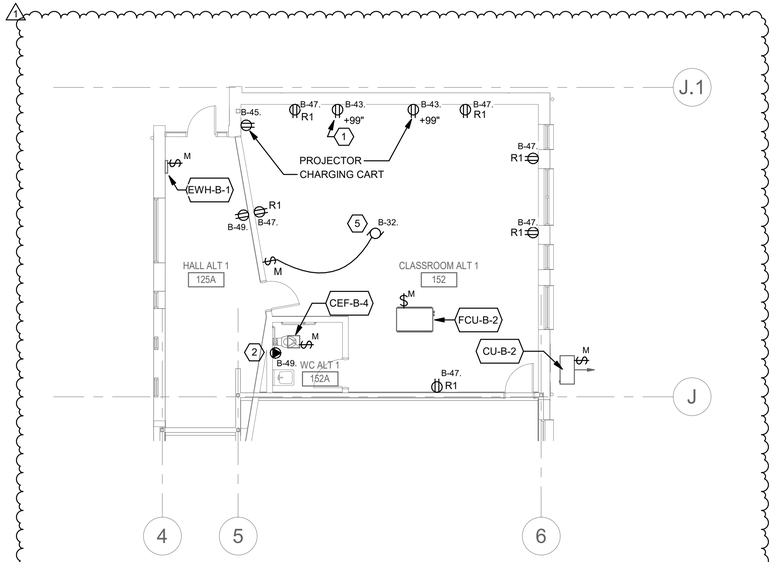
1. INSTALL RECEPTACLE WITHIN 2' x 2' FRONT ROW WALL MOUNTED BOX. REFER TO TYPICAL TEACHING WALL ELEVATION ON SHEET 1/T-701.
2. PROVIDE CONNECTION TO ELECTRONIC TRAP PRIMER. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR.
3. WIRE AND CONNECT RECEPTACLES FROM EACH RACK TO PANEL SB2 USING 3#10 & 2#12 & 2#12GND IN 1"C.
4. NOT USED.
5. PROVIDE CONNECTION TO MOTORIZED SHADE AND LINE VOLTAGE SWITCH. COORDINATE EXACT REQUIREMENTS WITH SHADE MANUFACTURER PRIOR TO ROUGH-IN. FIELD VERIFY LOCATION OF CONTROL SWITCH WITH OWNER'S REPRESENTATIVE. WIRE AND CONNECT FOR A COMPLETE AND OPERABLE SYSTEM.



1 LEVEL 1 FLOOR PLAN SECTOR B - POWER

0' 4' 8' 16'

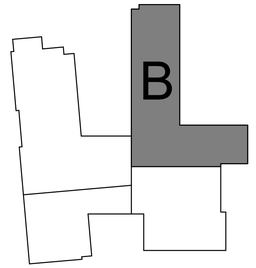
1/8" = 1'-0"



2 LEVEL 1 ALT. FLOOR PLAN SECTOR B - POWER

0' 4' 8' 16'

1/8" = 1'-0"



LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

CODY ROSS BARGHOLZ
REGISTERED PROFESSIONAL ENGINEER

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
BID/PERMIT SET

revisions

1	ADDENDUM #1	11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

LEVEL 1 FLOOR PLAN SECTOR B - POWER

INTERFACE ENGINEERING
PROJECT 2019-0017
CONTACT Cody Bargholz
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

E-201B

Scale **1/8" = 1'-0"**

11/6/2019 3:03:02 PM

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

SYMBOL	DESCRIPTION	LOCATION	VOLTS	PH	LOAD(VA)	FLA	HP	MCA	MOCP	WIRE / CONDUIT	BREAKER SIZE	CIRCUIT NUMBER	DISCONNECT BY 26	DISC. RATING	NOTES
B-1	BOILER	MECHANICAL RM	120	1	1572.0	13.1			0	202	30A-1P	SB1-3	Yes	NEMA 1	
B-2	BOILER	MECHANICAL RM	120	1	1572.0	13.1			0	202	30A-1P	SB1-5	Yes	NEMA 1	
CEF-A-1	EXHAUST FAN	RESTROOM	120	1	16.0				0	202	15A-1P	C-12	Yes	NEMA 1	
CEF-A-2	EXHAUST FAN	RESTROOM	120	1	16.0				0	202	15A-1P	C-14	Yes	NEMA 1	
CEF-B-1	EXHAUST FAN	RESTROOM	120	1	16.0				0	202	15A-1P	B-18	Yes	NEMA 1	
CEF-B-2	EXHAUST FAN	RESTROOM	120	1	16.0				0	202	15A-1P	B-20	Yes	NEMA 1	
CEF-B-3	EXHAUST FAN	RESTROOM	120	1	16.0				0	202	15A-1P	B-22	Yes	NEMA 1	
CEF-B-4	EXHAUST FAN	RESTROOM ALT 1	120	1	16.0				0	202	15A-1P	B-51	Yes	NEMA 1	4
CEF-C-1	EXHAUST FAN	RESTROOM	120	1	16.0				0	202	15A-1P	B-24	Yes	NEMA 1	
CEF-C-2	EXHAUST FAN	RESTROOM	120	1	16.0				0	202	15A-1P	B-26	Yes	NEMA 1	
CEF-D-1	EXHAUST FAN	RESTROOM	120	1	16.0				0	202	15A-1P	D-35	Yes	NEMA 1	
CEF-D-3	EXHAUST FAN	RESTROOM	120	1	16.0				0	202	15A-1P	D-39	Yes	NEMA 1	
CEF-D-3	EXHAUST FAN	RESTROOM	120	1	16.0				0	202	15A-1P	D-37	Yes	NEMA 1	
CEF-D-4	EXHAUST FAN	RESTROOM	120	1	16.0				0	202	15A-1P	D-41	Yes	NEMA 1	
CP-1,2	CIRCULATION PUMP	MECHANICAL RM	120	1	88.8		1/25		0	202	15A-1P	H-1	Yes	NEMA 1	
CP-3,4	CIRCULATION PUMP	MECHANICAL RM	120	1	27.6		1/25		0	202	15A-1P	H-3	Yes	NEMA 1	
CU-B-1	CONDENSING UNIT	ROOF	208	1	2746.0			16.5	25	203	25A-2P	SB2-2,4	Yes	NEMA 3R	
CU-B-2	CONDENSING UNIT	ROOF	208	1	4842.2			29.1	35	303	35A-2P	B-34,36	Yes	NEMA 3R	4
EF-A-1	EXHAUST FAN	MECHANICAL RM	120	1	241.0				0	202	15A-1P	A-10	Yes	NEMA 1	
EF-C-1	EXHAUST FAN	HEALTH	120	1	160.0				0	202	15A-1P	C-10	Yes	NEMA 1	
EWH-1	ELECTRIC HEATER	STORAGE	120	1	500.0				0	202	15A-1P	H-11	Yes	NEMA 1	
EWH-B-1	ELECTRIC HEATER	HALL ALT 1	120	1	500.0				0	202	15A-1P	B-53	Yes	NEMA 1	4
FCU-B-1	FAN COIL UNIT	MDF	208	1	173.0			0.5	15	203	15A-2P	SB2-6,8	Yes	NEMA 1	
FCU-B-2	FAN COIL UNIT	CLASSRM ALT 1	208	1	482.6			2.9	15	203	15A-2P	B-55,57	Yes	NEMA 1	4
FTU-3-1	FAN TERMINAL UNIT	CORRIDOR	120	1	696.0		0.25		0	202	20A-1P	C-41	Yes	NEMA 1	
FTU-3-2	FAN TERMINAL UNIT	CORRIDOR	120	1	696.0		0.25		0	202	20A-1P	C-8	Yes	NEMA 1	
FTU-3-3	FAN TERMINAL UNIT	CORRIDOR	120	1	696.0		0.25		0	202	20A-1P	C-8	Yes	NEMA 1	
FTU-3-4	FAN TERMINAL UNIT	CORRIDOR	120	1	696.0		0.25		0	202	20A-1P	C-37	Yes	NEMA 1	
FTU-3-5	FAN TERMINAL UNIT	ADMIN/WAITING	120	1	1176.0		0.5		0	202	20A-1P	C-39	Yes	NEMA 1	
FTU-3-6	FAN TERMINAL UNIT	RESTROOM	120	1	1656.0		0.75		0	202	30A-1P	D-29	Yes	NEMA 1	
FTU-3-7	FAN TERMINAL UNIT	RESTROOM	120	1	1920.0		1		0	202	40A-1P	D-23	Yes	NEMA 1	
FTU-4-1	FAN TERMINAL UNIT	RESTROOM	120	1	1176.0		0.5		0	202	20A-1P	B-41	Yes	NEMA 1	
FTU-4-2	FAN TERMINAL UNIT	RESTROOM	120	1	1176.0		0.5		0	202	20A-1P	B-2	Yes	NEMA 1	
FTU-4-3	FAN TERMINAL UNIT	SMALL GROUP	120	1	1176.0		0.5		0	202	20A-1P	B-14	Yes	NEMA 1	
FTU-4-4	FAN TERMINAL UNIT	STORAGE	120	1	1176.0		0.5		0	202	20A-1P	D-31	Yes	NEMA 1	
FTU-4-5	FAN TERMINAL UNIT	STORAGE	120	1	1656.0		0.75		0	202	30A-1P	D-25	Yes	NEMA 1	
FTU-4-6	FAN TERMINAL UNIT	STORAGE	120	1	1656.0		0.75		0	202	30A-1P	D-27	Yes	NEMA 1	
GWH-1	GAS WATER HEATER	MECHANICAL RM	120	1	1800.0	15			0	202	20A-1P	H-5	Yes	NEMA 1	
GWH-2	GAS WATER HEATER	MECHANICAL RM	120	1	1800.0	15			0	202	20A-1P	H-7	Yes	NEMA 1	
HWP-1	CIRCULATION PUMP	MECHANICAL RM	208	3	6009.0		5		0	203	40A-3P	SB1-2,4,6	No		1
HWP-2	CIRCULATION PUMP	MECHANICAL RM	208	3	0.0		5		0	203	40A-3P	SB1-21,23,25	No		1
KEF-1	EXHAUST FAN	ROOF	120	1	1176.0		0.5		0	202	20A-1P	K-3	No		1,2
KEF-2	EXHAUST FAN	ROOF	120	1	528.0		0.1		0	202	15A-1P	K-5	Yes	NEMA 3R	2,3
RTU-1	ROOF TOP UNIT	ROOF	208	3	17992.0			51.8	60	603	60A-3P	2MDS-25,26,27	No		1
RTU-2	ROOF TOP UNIT	ROOF	208	3	16192.8			46.4	60	503	60A-3P	2MDS-28,29,30	No		1
RTU-3	ROOF TOP UNIT	ROOF	208	3	51984.0			153	175	1753	175A-3P	2MDS-31,32,33	No		1
RTU-4	ROOF TOP UNIT	ROOF	208	3	71784.3			210	225	2253	225A-3P	2MDS-34,35,36	No		1

GENERAL MECHANICAL EQUIPMENT CONNECTION NOTE:

A. THE ABOVE INFORMATION IS FOR A SPECIFIC MANUFACTURER. ACTUAL MANUFACTURER FOR EQUIPMENT MAY BE DIFFERENT. COORDINATE WITH MECHANICAL EQUIPMENT SUBMITTALS FOR LOADS AND OVER CURRENT PROTECTION REQUIREMENTS PRIOR TO INSTALLATION OF WIRING.

B. MOCP = MAXIMUM OVER CURRENT PROTECTION.
MCA = MINIMUM CIRCUIT AMPACITY

C. PROVIDE DISCONNECTING MEANS FOR EACH ITEM OF EQUIPMENT LISTED IN THE SCHEDULE ABOVE, EXCEPT AS SPECIFICALLY NOTED OTHERWISE IN SCHEDULE NOTES, BELOW.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE NOTES

1 VFD PROVIDED BY MANUFACTURER.

2 INTERLOCK OPERATION WITH ASSOCIATED HOOD. FAN TO RUN WHEN HOOD IS IN USE.

3 INTERLOCK OPERATION WITH ASSOCIATED DISHWASHER. FAN TO RUN WHEN DISHWASHER IS IN USE.

4 PROVIDE SEPARATE, ALTERNATE PRICING FOR THIS SYSTEM, AS PART OF ALTERNATE 1

WIRE/CONDUIT SCHEDULE

202	2 #12 CU, 1 #12 CU GND., IN 3/4" C.
203	3 #12 CU, 1 #12 CU GND., IN 3/4" C.
303	3 #10 CU, 1 #10 CU GND., IN 3/4" C.
503	3 #6 CU, 1 #10 CU GND., IN 3/4" C.
603	3 #4 CU, 1 #10 CU GND., IN 1" C.
1753	3 #2/0 CU, 1 #6 CU GND., IN 2" C.
2253	3 #4/0 CU, 1 #4 CU GND., IN 2" C.

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

CODY ROSS BARGHOLZ — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

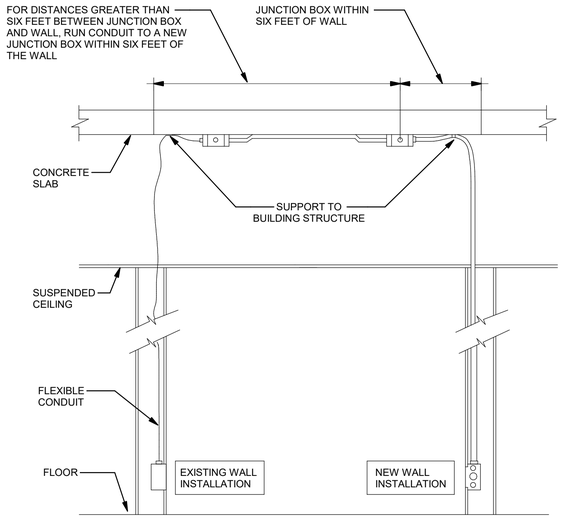
SCHEDULES - ELECTRICAL

INTERFACE ENGINEERING
PROJECT 2019-0017
CONTACT Cody Bargholz
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

E-601

Scale

11/6/2019 3:03:05 PM

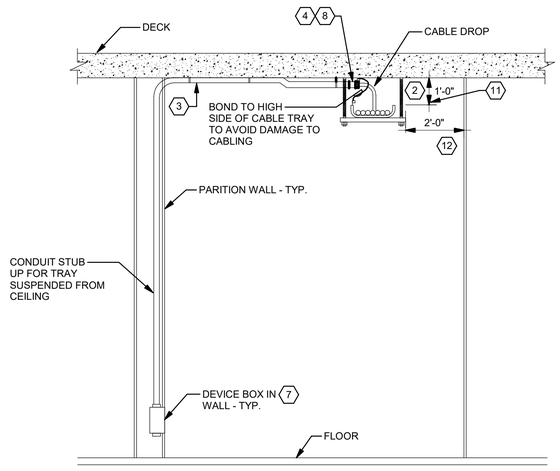


GENERAL DETAIL NOTES:

1. NEW WALL INSTALLATION RUN CONDUIT FROM JUNCTION BOX DOWN TO FIRST DEVICE.
2. EXISTING WALL INSTALLATION RUN FLEX OR MC CABLE FROM JUNCTION BOX DOWN TO DEVICE (IF APPLICABLE).
3. ALL CONDUITS ARE TO BE DIRECTLY SUPPORTED FROM DECK.
4. COORDINATE ROUTE WITH OTHER TRADES TO AVOID CONFLICTS WITH ACCESS.

1 POWER DROP DETAIL

NO SCALE

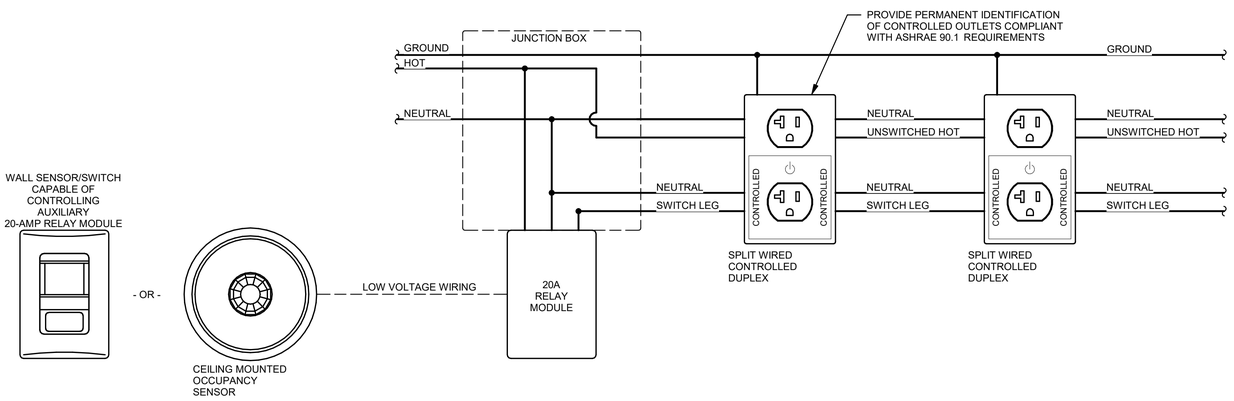


3 CABLE TRAY DROP DETAIL

NO SCALE

DETAIL NOTES

1. MAINTAIN ADEQUATE CLEARANCES FROM EMI SOURCES. MINIMUM OF 1'-0" FROM BALLASTS AND 2'-0" FROM MOTORS. COMPLY WITH TIA/EIA 569 REQUIREMENTS.
2. SUPPORT TRAY AT EVERY JOINT AND MIDSPAN i.e.: SPACING OF APPROXIMATELY 5'-0" (FOR EVERY 10'-0" LENGTH OF TRAY).
3. CONDUIT TO BE DIRECTLY SUPPORTED FROM DECK.
4. PROVIDE PLASTIC BUSHING AT ENDS OF CONDUIT TO PROTECT AGAINST CABLE ABRASIONS. USE #12 AWG BONDING CONDUCTOR TO CABLE TRAY.
5. BOND CABLE TRAY TO GROUND BUS IN COMMUNICATION ROOM. PROVIDE #6 AWG BARE COPPER BONDING CONDUCTOR ALONG ENTIRE LENGTH OF TRAY, AND BOND TO EVERY SECTION OF TRAY.
6. WHEN INSTALLING CABLE TRAY, MAINTAIN ADEQUATE CLEARANCES (MINIMUM 1'-0") FROM HEAT SOURCES SUCH AS MECHANICAL HOT AIR DUCTS.
7. IF COMMUNICATION OUTLET IS WITHIN 0'-6" OF A POWER OUTLET, THEN BOND THE TWO OUTLETS.
8. CONDUITS LONGER THAN 24'-6" ARE TO BE BONDED TO CABLE TRAY.
9. CABLE TRAY SHALL BE CABLOFIL, FLEXTRAY OR APPROVED EQUAL.
10. CABLE TRAY SHALL BE INSTALLED USING MANUFACTURER APPROVED SPLICING METHODS.
11. MAINTAIN 1'-0" CLEARANCE FROM THE TOP OF THE CABLE TRAY TO ALL CEILINGS, HEATING DUCTS, AND HEATING EQUIPMENT AND 0'-6" FOR SHORT LENGTH OBSTRUCTIONS.
12. MAINTAIN 2'-0" CLEARANCE ON ONE SIDE OF CABLE TRAYS MOUNTED ADJACENT TO ONE ANOTHER OR TO WALLS OR OTHER OBSTRUCTIONS.

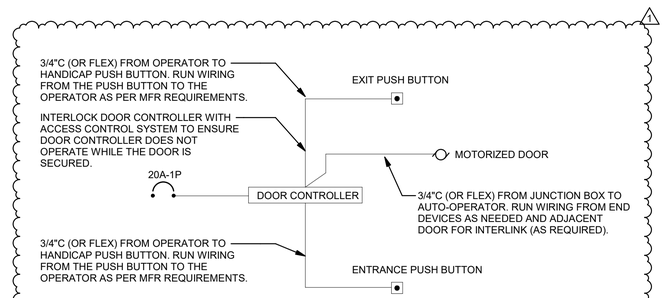


2 OCCUPANCY SENSOR CONTROLLED RECEPTACLE DIAGRAM

NO SCALE

NOTES THIS DETAIL

A. BASIS OF DESIGN: WATTSTOPPER. REFER TO DIVISION 26 SPECIFICATIONS FOR APPROVED ALTERNATIVE MANUFACTURERS FOR HARDWIRED RECEPTACLE CONTROL (OCCUPANCY SENSOR SECTION).
B. WHERE AN ENTIRE DUPLEX RECEPTACLE IS CONTROLLED BY SENSOR, LOCATED AN UNSWITCHED DUPLEX RECEPTACLE NO FURTHER THAN SIX FEET AWAY.
C. FOR EACH ROOM, PROVIDE QUANTITIES OF RELAY MODULES AND WIRING TO SUPPORT SWITCHED POWER OUTLETS ON POWER DRAWINGS, AND PROVIDE FUNCTIONALITY DESCRIBED IN SPECIFICATIONS AND/OR LIGHTING CONTROL MATRIX.
D. CONTROLLERS, RELAY MODULES AND DEVICES LOCATED IN PLENUM SPACES MUST BE UL 2043 LISTED; USE PLENUM RATED WIRING WHERE ROUTING IS EXPOSED IN PLENUM SPACES.



4 AUTO DOOR OPERATOR DETAIL

NO SCALE

11/6/2019 3:03:06 PM

INTERFACE ENGINEERING
PROJECT 2019-0017
CONTACT Cody Bargholz
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

CODY ROSS BARGHOLZ — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

DETAILS - ELECTRICAL

E-702

Scale **NO SCALE**

SHEET INDEX 1

GENERAL

G-001	SHEET INDEX
G-001A	VICINITY MAP, ABBREVIATIONS, SYMBOLS & LEGENDS
G-002	CODE ANALYSIS - OVERVIEW & PARKING
G-003	CODE ANALYSIS - ALLOWABLE AREA
G-004	CODE ANALYSIS - PLUMBING & DEFERRED SUBMITTALS
G-005	LIFE SAFETY PLAN

CIVIL & LANDSCAPE REVIEWED UNDER A SEPARATE ENG PERMIT AND PROVIDED FOR REFERENCE

CIVIL

C-100	COVER SHEET
C-101	EXISTING CONDITIONS
C-102	DEMOLITION PLAN
C-201	SITE PLAN
C-202	FIRE RESPONSE PLAN
C-203	SIGNING & STRIPING PLAN
C-301	GRADING AND EROSION CONTROL PLAN
C-302	GRADING ENLARGEMENTS
C-401	STORM DRAINAGE PLAN
C-501	WATER AND SANITARY SEWER PLAN
C-502	WATER PLAN
C-601	PUBLIC STREET IMPROVEMENT PLAN
C-701	SITE DETAILS
C-702	SITE DETAILS
C-703	EROSION CONTROL DETAILS
C-704	STORM DRAINAGE DETAILS
C-705	STORM DRAINAGE DETAILS
C-706	SANITARY SEWER DETAILS
C-707	WATER DETAILS
C-708	STREET IMPROVEMENT DETAILS
C-709	SANITARY SEWER DETAILS
C-710	WATER DETAILS
C-711	WATER DETAILS
C-712	STREET IMPROVEMENT DETAILS
C-713	STREET IMPROVEMENT DETAILS
C-714	SIGNING AND STRIPING DETAILS

LANDSCAPE

L-100	LANDSCAPE OVERALL PLAN
L-200	LANDSCAPE LAYOUT PLAN
L-300	TREES, VEGETATION & SOILS PLAN
L-400	IRRIGATION PLAN
L-401	IRRIGATION DETAILS
L-501	PLANTING DETAILS
L-502	SITE FEATURES DETAILS
L-503	PLAY FEATURES
L-504	FENCES & GATES DETAILS
L-505	ORNAMENTAL FENCE & GATE DETAILS ADD ALTERNATE

STRUCTURAL

S000	COVER SHEET
S001	GENERAL NOTES
S002	GENERAL NOTES
S003	GENERAL NOTES
S004	GENERAL NOTES
S101A	FOUNDATION PLAN - SECTOR A
S101AG	GRADE LEVEL FRAMING PLAN - SECTOR A
S101B	FOUNDATION PLAN - SECTOR B
S101BG	GRADE LEVEL FRAMING PLAN - SECTOR B
S101C	FOUNDATION PLAN - SECTOR C
S101CG	GRADE LEVEL FRAMING PLAN - SECTOR C
S101D	FOUNDATION PLAN - SECTOR D
S101DG	GRADE LEVEL FRAMING PLAN - SECTOR D
S112A	ROOF FRAMING PLAN - SECTOR A
S112B	ROOF FRAMING PLAN - SECTOR B
S112C	ROOF FRAMING PLAN - SECTOR C
S112D	ROOF FRAMING PLAN - SECTOR D
S160	ALTERNATE PLANS
S301	FOUNDATION DETAILS
S302	FOUNDATION DETAILS
S303	FOUNDATION DETAILS
S304	FOUNDATION DETAILS
S401	COLD FORMED STEEL FRAMING DETAILS
S402	COLD FORMED STEEL FRAMING DETAILS
S403	COLD FORMED STEEL FRAMING DETAILS
S404	COLD FORMED STEEL FRAMING DETAILS
S405	COLD FORMED STEEL FRAMING DETAILS
S406	COLD FORMED STEEL FRAMING DETAILS
S407	COLD FORMED STEEL FRAMING DETAILS
S501	STEEL FRAMING DETAILS
S502	STEEL FRAMING DETAILS
S601	STEEL METAL DECK ROOF DETAILS
S602	STEEL METAL DECK ROOF DETAILS
S603	ROOF DETAILS
S604	ROOF DETAILS

ARCHITECTURAL

A-101	OVERALL FLOOR PLAN
A-101A	FLOOR PLAN SECTOR A
A-101B	FLOOR PLAN SECTOR B
A-101C	FLOOR PLAN SECTOR C
A-101D	FLOOR PLAN SECTOR D
A-111A	SLAB JOINTING PLAN SECTOR A
A-111B	SLAB JOINTING PLAN SECTOR B
A-111C	SLAB JOINTING PLAN SECTOR C
A-111D	SLAB JOINTING PLAN SECTOR D
A-121	OVERALL ROOF PLAN
A-121A	ROOF PLAN SECTOR A
A-121B	ROOF PLAN SECTOR B
A-121C	ROOF PLAN SECTOR C
A-121D	ROOF PLAN SECTOR D
A-151	OVERALL REFLECTED CEILING PLAN
A-151A	REFLECTED CEILING PLAN - SECTOR A
A-151B	REFLECTED CEILING PLAN - SECTOR B
A-151C	REFLECTED CEILING PLAN - SECTOR C
A-151D	REFLECTED CEILING PLAN - SECTOR D
A-160	ALTERNATE PLANS
A-170	MOCK-UP
A-201	OVERALL BUILDING ELEVATIONS
A-202	OVERALL BUILDING ELEVATIONS
A-203	BUILDING ELEVATIONS
A-204	BUILDING ELEVATIONS
A-205	BUILDING ELEVATIONS
A-206	BUILDING ELEVATIONS ALTERNATE
A-301	BUILDING SECTIONS
A-302	BUILDING SECTIONS
A-303	BUILDING SECTIONS
A-304	BUILDING SECTIONS
A-305	BUILDING SECTIONS
A-401	ENLARGED PLANS
A-410	ENLARGED PLANS / SITE ENCLOSURES
A-412	ENLARGED PLANS / SITE STRUCTURES
A-413	ENLARGED PLANS AND DETAILS / RECEPTION DESK
A-414	ENLARGED PLANS / SITE STRUCTURES
A-501	EXTERIOR DETAILS
A-502	EXTERIOR DETAILS
A-503	EXTERIOR DETAILS
A-504	EXTERIOR DETAILS
A-505	EXTERIOR DETAILS
A-511	ROOF DETAILS
A-512	ROOF DETAILS
A-513	ROOF DETAILS
A-514	ROOF DETAILS
A-515	ROOF DETAILS
A-516	ROOF DETAILS
A-517	ROOF DETAILS
A-521	INTERIOR DOOR DETAILS
A-525	EXTERIOR DOOR DETAILS
A-531	STOREFRONT DETAILS
A-532	STOREFRONT DETAILS
A-533	STOREFRONT DETAILS
A-534	STOREFRONT & TRANSLUCENT WALL ASSEMBLY DETAILS
A-541	INTERIOR DETAILS
A-542	INTERIOR DETAILS
A-543	CEILING DETAILS
A-544	INTERIOR DETAILS
A-601	PARTITION TYPES
A-602	WALL TYPES
A-611	DOOR AND FRAME ELEVATIONS
A-612	DOOR AND FRAME SCHEDULE
A-621	STOREFRONT TYPES
A-622	STOREFRONT TYPES
A-631	ROOM FINISH SCHEDULE
A-701	INTERIOR ELEVATIONS, MOUNTING HEIGHTS & CASEWORK
A-702	INTERIOR ELEVATIONS
A-703	INTERIOR ELEVATIONS
A-704	INTERIOR ELEVATIONS
A-705	INTERIOR ELEVATIONS
A-706	INTERIOR ELEVATIONS - ALTERNATE

MECHANICAL

M-001	SYMBOLS LIST AND GENERAL NOTES - MECHANICAL
M-002	SCHEDULES - MECHANICAL
M-003	SCHEDULES - MECHANICAL
M-101A	LEVEL 1 FLOOR PLAN SECTOR A - MECHANICAL
M-101B	LEVEL 1 FLOOR PLAN SECTOR B - MECHANICAL
M-101C	LEVEL 1 FLOOR PLAN SECTOR C - MECHANICAL
M-101D	LEVEL 1 FLOOR PLAN SECTOR D - MECHANICAL
M-121A	ROOF PLAN SECTOR A - MECHANICAL
M-121D	ROOF PLAN SECTOR D - MECHANICAL
M-301A	LEVEL 1 PIPING PLAN SECTOR A - MECHANICAL
M-301B	LEVEL 1 PIPING PLAN SECTOR B - MECHANICAL
M-301C	LEVEL 1 PIPING PLAN SECTOR C - MECHANICAL
M-301D	LEVEL 1 PIPING PLAN SECTOR D - MECHANICAL
M-401	DETAILS - MECHANICAL
M-402	DETAILS - MECHANICAL

PLUMBING

P-001	SYMBOLS LIST AND GENERAL NOTES - PLUMBING
P-002	SCHEDULES - PLUMBING
P-100A	UNDERGROUND PLAN SECTOR A - PLUMBING
P-100B	UNDERGROUND PLAN SECTOR B - PLUMBING
P-100C	UNDERGROUND PLAN SECTOR C - PLUMBING
P-100D	UNDERGROUND PLAN SECTOR D - PLUMBING
P-101A	LEVEL 1 FLOOR PLAN SECTOR A - PLUMBING
P-101B	LEVEL 1 FLOOR PLAN SECTOR B - PLUMBING
P-101C	LEVEL 1 FLOOR PLAN SECTOR C - PLUMBING
P-101D	LEVEL 1 FLOOR PLAN SECTOR D - PLUMBING
P-121A	ROOF PLAN SECTOR A - PLUMBING
P-121B	ROOF PLAN SECTOR B - PLUMBING
P-121C	ROOF PLAN SECTOR C - PLUMBING
P-121D	ROOF PLAN SECTOR D - PLUMBING
P-200	ENLARGED PLANS - PLUMBING
P-201	ENLARGED PLANS - PLUMBING
P-300	DETAILS - PLUMBING
P-400	NATURAL GAS RISER DIAGRAM

ELECTRICAL

E-001	SYMBOLS LIST AND GENERAL NOTES - ELECTRICAL
E-002	LUMINAIRE SCHEDULE
E-003	LIGHTING CONTROL MATRIX
E-100	SITE PLAN - ELECTRICAL
E-100.1	SITE DETAILS
E-101A	LEVEL 1 FLOOR PLAN SECTOR A - LIGHTING
E-101B	LEVEL 1 FLOOR PLAN SECTOR B - LIGHTING
E-101C	LEVEL 1 FLOOR PLAN SECTOR C - LIGHTING
E-101D	LEVEL 1 FLOOR PLAN SECTOR D - LIGHTING
E-201A	LEVEL 1 FLOOR PLAN SECTOR A - POWER
E-201B	LEVEL 1 FLOOR PLAN SECTOR B - POWER
E-201C	LEVEL 1 FLOOR PLAN SECTOR C - POWER
E-201D	LEVEL 1 FLOOR PLAN SECTOR D - POWER
E-202	OVERALL ROOF PLAN - POWER
E-401	ENLARGED PLANS - ELECTRICAL
E-501	SINGLE LINE DIAGRAMS - ELECTRICAL
E-601	SCHEDULES - ELECTRICAL
E-602	SCHEDULES - ELECTRICAL
E-603	SCHEDULES - ELECTRICAL
E-604	SCHEDULES - ELECTRICAL
E-701	DETAILS - ELECTRICAL
E-702	DETAILS - ELECTRICAL
E-703	DETAILS - ELECTRICAL

TECHNOLOGY

T-001	SYMBOLS LIST AND GENERAL NOTES - TECHNOLOGY
T-101A	LEVEL 1 FLOOR PLAN SECTOR A - TECHNOLOGY
T-101B	LEVEL 1 FLOOR PLAN SECTOR B - TECHNOLOGY
T-101C	LEVEL 1 FLOOR PLAN SECTOR C - TECHNOLOGY
T-101D	LEVEL 1 FLOOR PLAN SECTOR D - TECHNOLOGY
T-301	ENLARGED PLANS AND RACK ELEVATIONS - TECHNOLOGY
T-701	DETAILS - TECHNOLOGY

FOOD SERVICE

FS-101	FOOD SERVICE EQUIPMENT PLAN
FS-102	FOOD SERVICE PLUMBING PLAN
FS-103	FOOD SERVICE MECHANICAL PLAN
FS-104	FOOD SERVICE ELECTRICAL/REFRIGERATION PLAN
FS-201	FOOD SERVICE CANOPY HOOD DETAILS
FS-202	FOOD SERVICE CANOPY HOOD DETAILS
FS-203	FOOD SERVICE CANOPY HOOD DETAILS
FS-204	FOOD SERVICE CANOPY HOOD DETAILS
FS-301	FOOD SERVICE ELEVATION AND FABRICATION DETAILS
FS-302	FOOD SERVICE ELEVATION AND FABRICATION DETAILS
FS-303	FOOD SERVICE ELEVATION AND FABRICATION DETAILS

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

SHEET INDEX

G-001

Scale

11/7/2019 3:33:07 PM

ENERGY CODE SUMMARY

Typical R-Values		Document Reference
Roofs (above deck)	R-38ci, minimum	See Wall Types A-602 and specification section 07 21 00 Thermal Insulation
Walls Above Grade (steel studs)	R-21+10ci	" "
Walls Below Grade	n/a	" "
Floors	n/a	" "
Slab-on-Grade Floors	R-10 for 24" (at perimeter) below	" "
Opaque Doors	R-6.8	" "
Typical U-Values		
Vertical Fenestration (fixed metal)	U-0.38, maximum	See specification section 08 43 13 Aluminum-framed Storefronts and 08 80 00 Glazing. Actual U-value varies with mullion layout. See also 08 45 00 Translucent Wall and Roof Assemblies
Vertical Fenestration (doors)	U-0.60, maximum	See specification section 08 45 00 Translucent Wall and Roof Assemblies
Skylights	U-0.50, maximum	
C406 Additional Efficiency Package Options	1. More Efficient HVAC performance 2. Reduced lighting power	See WSEC compliance forms
Air Barrier Testing Requirements	Per 2015 WSEC C402.5.1.2	Owner provided testing. See specification 01 40 00 Quality Requirements for additional information.
2030 Challenge pEUI	34.7 kBtu/SF/yr	53.7% reduction below baseline 75 EUI (2030 Challenge target of 15 EUI, 80% reduction)

GENERAL CODE INFORMATION

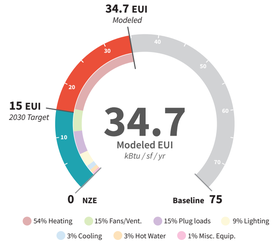
	PROJECT PARAMETERS
Applicable Code:	International Building Code 2015 w/ Washington Amendments Washington State Energy Code - Commercial
Accessibility Code:	ADA ICC/ANSI 117.1
Jurisdiction:	*Vancouver, Washington*

GENERAL PROPERTY INFORMATION

		PROJECT PARAMETERS
Site Area:	225,218 sq. Ft. / 5.17 ACRES	Transit Overlay Tier One 20.550
Site address:	Northwest Corner, 18th St & Norris Rd	Transit Overlay Tier Two 20.550
Property ID #:	29845000 & 29875000	Fourth Plain Corridor Overlay District 20.580
Legal Description:		Vancouver Fire District
		Park District B
Section-Township-Range:	SW 1/4 OF THE SW 1/4 OF SECTION 24 AND IN THE NW 1/4 OF THE NW 1/4 OF SECTION 25...	Vancouver Sewer District
Urban Growth Area:	City of Vancouver	Vancouver Water District
C-Tran Benefit Area:	Yes	Maplewood Neighborhood
School Impact Fee:	Vancouver, Exempt	
Transportation Impact Fee:	Columbia, Exempt	
Transportation Analysis Zone:	164	
CPU lighting Utility District:	0	
Zoning:	R-22 (Higher Density Residential) (Public Facility), R-18 (Higher Density Residential)	
Sustainable Design:		

PARKING REQUIREMENTS

			ADDITIONAL NOTES
PARKING BALANCE CHECK:	**PARKING NEEDED - BASE ZONE REQUIREMENTS**		
	Schools	1 space/4 seats or 1 space/8 feet bench length in assembly room (fitness)	35
		(No students drive)	0
		TOTAL REQUIRED	35
	PARKING PROVIDED		
		ON STREET - NOT INCLUDED IN TOTAL PARKING COUNT	Norris Road (~22)
		ON SITE - NOT INCLUDED IN TOTAL PARKING COUNT	34 @ GATE
		ON SITE (ACCESSIBLE)	2
		ON SITE	46
		TOTAL PROVIDED	48



GENERAL BUILDING INFORMATION

			PROJECT PARAMETERS
BUILDING SUMMARY:	This project is a K-12 school for students who need additional behavioral or emotional support beyond the scope of special services available at their neighborhood schools. It includes 8 classrooms (9 including alternates), commons, a small fitness space, warming kitchen and family resources center as well as administrative offices.		
BUILDING OCCUPANCIES:	**E** **(A-2)**	Section 303.1.3 of IBC: A room or space used for assembly purposes that is associated with an E occupancy is not considered separate occupancy.	
	B		
SEPARATED OR NON-SEPARATED USES:	**NON-SEPARATED**		
CONSTRUCTION TYPE:	**V-B**		
FIRE SPRINKLERS:	**YES**		
BUILDING HEIGHT:	ALLOWABLE:	**50** FT **0** INCHES	60 ft height limit per IBC, however City of Vancouver R-22 Zoning permits only 50 ft.
	ACTUAL:	**23** FT **0** INCHES	
STORIES:	ALLOWABLE:	2	
	ACTUAL:	1	
ALLOWABLE EXIT ACCESS TRAVEL DISTANCE PER SECTION 1017.2 OF IBC:	250 FT		
COMMON PATH OF EGRESS TRAVEL DISTANCE:	75 FT		
MINIMUM CORRIDOR WIDTH 100+ OCCUPANTS:	ALLOWABLE MINIMUM:	72 INCHES	
	ACTUAL MINIMUM:	84 INCHES	
BUILDING AREAS:	E	22,599 (base) SF	23,823 including alternate

CODE ANALYSIS GENERAL NOTES

1. FIRE STOPPING IS A BIDDER-DESIGNED OR DESIGN-BUILD SYSTEM. THE DRAWINGS DO NOT SHOW ALL LOCATIONS WHERE FIRE STOPPING IS REQUIRED.

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

CODE ANALYSIS - OVERVIEW & PARKING

G-002

Scale **12" = 1'-0"**

11/7/2019 3:33:09 PM

BASE BID

2015 IBC WITH WASHINGTON AMENDMENTS - CODE EVALUATION FORM - JULY 2016

Name of Building: Fir Grove Children's Center

Evaluation one story building only

Version of Code: 2015 IBC with Washington...

Code Item:								Code Ref:	Code Commentary:
Building Occupancy:					**E, B (more restrictive)**			Chapter 3	
Construction Type:					**V-B**			Chapter 6	
Fully Sprinklered?					**YES**				Must be fully sprinklered for E occupancy per 903.2.3 Washington Amendment
Separated or NonSeparated Occupancies					**NON-SEPARATED**			Section 508	
Allowable Area Non sprinklered building:			NS=	**9,000**	**sf**			Table 506.2	NS = Tabular non sprinklered building area per story in accordance with Table 506.2 (square feet).
Allowable Area fully sprinklered building:			S1=	**36,000**	**sf**			Table 506.2	S1 = Tabular fully sprinklered single story building area in accordance with Table 506.2 (square feet).
Allowable Area sprinklered 2 or more story building:			SM=	**27,000**	**sf**			Table 506.2	SM = Tabular fully sprinklered multi story building area in accordance with Table 506.2 (square feet).
Allowable Height:	**50**	**ft**		**0**	**in**			Table 504.3	
Actual Height:	**23**	**ft**		**0**	**in**				
Allowable Number of Stories:				**2**	**stories**			Table 504.4	
Actual Number of Stories:				**1**	**stories**				

BUILDING AREA MODIFICATIONS:

Calculate "W"									Section 506.3	Equation 5-4: W=(L1*w1+ L2*w2+L3*w3.....)/F
L1=	0	**ft**	w1=	20	**ft**	L1*w1=	**0.00**			
L2=	0	**ft**	w2=	21	**ft**	L2*w2=	**0.00**			Ln = Length of a portion of the exterior wall
L3=	0	**ft**	w3=	22	**ft**	L3*w3=	**0.00**			
L4=	0	**ft**	w4=	23	**ft**	L4*w4=	**0.00**			wn=Width (> 20 feet) of a public way or open space assocated with that portion of exterior perimeter wall (If width is greater than 30 feet enter 30 for wn)
L5=	0	**ft**	w5=	24	**ft**	L5*w5=	**0.00**			
L6=	0	**ft**	w6=	25	**ft**	L6*w6=	**0.00**			
L7=	0	**ft**	w7=	26	**ft**	L7*w7=	**0.00**			
L8=	0	**ft**	w8=	27	**ft**	L8*w8=	**0.00**			
L9=	0	**ft**	w9=	28	**ft**	L9*w9=	**0.00**			
L10=	0	**ft**	w10=	29	**ft**	L10*w10=	**0.00**			
L11=	1004	**ft**	w11=	30	**ft**	L11*w11=	**30120.00**			
F=	1004	**ft**				Total	30120			
						W=	30.00	**ft**		W=TOTAL Ln x wn/F

Calculate "P"									Section 506.3.3	P = Perimeter of entire building (feet)
LP1=	0	**ft**	w1=	less than...	**ft**					LPn=Length of a portion of the exterior wall where the width of a public way or open space assocated with that portion of the exterior perimeter wall with width less than 20 feet. The sum of LPn lengths are added to F to determine length P.
SUM OF LP DIMENSIONS=	0	**ft**								
F=	1004	**ft**								
P=	1004	**ft**								

Frontage increase calculation:							Section 506.3	Eq 5-5: If = [F/P - 0.25] W/30 - represents Area increase factor due to frontage increase.
			F=	**1004**	**ft**			
			P=	**1004**	**ft**			
			W=	**30.00**	**ft**			F = Bldg perimeter that fronts on a public way or open space 20' or more
			If =	**75.00%**				P= Entire Bldg perimeter
								Width of Public way, as defined by Section 506.3.2
Total Single Story Building Area Modifications:			S1=	**36,000**	**sf**			At = S1 (Tabular fully sprinklered single story building area in accordance with Table 506.2(square feet)
			NS=	**9,000**	**sf**			
			If =	**75.00%**			Section 506.3	
			(NSxIf)=	**6,750**	**sf**			If = Area increase factor due to frontage as calculated in accordance with Section 506.3
Total Allowable Single Story Building Area:			Aa=	**42,750**	**sf**			Eq. 5-1: Aa = At + (NSxIf)
Actual Area of Single Story Building:				**22,589**	**sf**			Is Actual Area < Allowable Area per Floor? **YES**

Conclusions:		Does building height comply with allowed height? **YES**
		Does number of stories comply with allowed number of stories? **YES**
		Does actual building square footage (*including addition) comply with allowed area for one story building? **YES**

BASE BID + ALTERNATE 1

2015 IBC WITH WASHINGTON AMENDMENTS - CODE EVALUATION FORM - JULY 2016

Name of Building: Fir Grove Children's Center (Alternate 1)

Evaluation one story building only

Version of Code: 2015 IBC with Washington...

Code Item:								Code Ref:	Code Commentary:
Building Occupancy:					**E, B (more restrictive)**			Chapter 3	
Construction Type:					**V-B**			Chapter 6	
Fully Sprinklered?					**YES**				Must be fully sprinklered for E occupancy per 903.2.3 Washington Amendment
Separated or NonSeparated Occupancies					**NON-SEPARATED**			Section 508	
Allowable Area Non sprinklered building:			NS=	**9,000**	**sf**			Table 506.2	NS = Tabular non sprinklered building area per story in accordance with Table 506.2 (square feet).
Allowable Area fully sprinklered building:			S1=	**36,000**	**sf**			Table 506.2	S1 = Tabular fully sprinklered single story building area in accordance with Table 506.2 (square feet).
Allowable Area sprinklered 2 or more story building:			SM=	**27,000**	**sf**			Table 506.2	SM = Tabular fully sprinklered multi story building area in accordance with Table 506.2 (square feet).
Allowable Height:	**50**	**ft**		**0**	**in**			Table 504.3	
Actual Height:	**23**	**ft**		**0**	**in**				
Allowable Number of Stories:				**2**	**stories**			Table 504.4	
Actual Number of Stories:				**1**	**stories**				

BUILDING AREA MODIFICATIONS:

Calculate "W"									Section 506.3	Equation 5-4: W=(L1*w1+ L2*w2+L3*w3.....)/F
L1=	0	**ft**	w1=	20	**ft**	L1*w1=	**0.00**			
L2=	0	**ft**	w2=	21	**ft**	L2*w2=	**0.00**			Ln = Length of a portion of the exterior wall
L3=	0	**ft**	w3=	22	**ft**	L3*w3=	**0.00**			
L4=	0	**ft**	w4=	23	**ft**	L4*w4=	**0.00**			wn=Width (> 20 feet) of a public way or open space assocated with that portion of exterior perimeter wall (If width is greater than 30 feet enter 30 for wn)
L5=	0	**ft**	w5=	24	**ft**	L5*w5=	**0.00**			
L6=	0	**ft**	w6=	25	**ft**	L6*w6=	**0.00**			
L7=	0	**ft**	w7=	26	**ft**	L7*w7=	**0.00**			
L8=	0	**ft**	w8=	27	**ft**	L8*w8=	**0.00**			
L9=	0	**ft**	w9=	28	**ft**	L9*w9=	**0.00**			
L10=	0	**ft**	w10=	29	**ft**	L10*w10=	**0.00**			
L11=	1064	**ft**	w11=	30	**ft**	L11*w11=	**31920.00**			
F=	1064	**ft**				Total	31920			
						W=	30.00	**ft**		W=TOTAL Ln x wn/F

Calculate "P"									Section 506.3.3	P = Perimeter of entire building (feet)
LP1=	0	**ft**	w1=	less than...	**ft**					LPn=Length of a portion of the exterior wall where the width of a public way or open space assocated with that portion of the exterior perimeter wall with width less than 20 feet. The sum of LPn lengths are added to F to determine length P.
SUM OF LP DIMENSIONS=	0	**ft**								
F=	1064	**ft**								
P=	1064	**ft**								

Frontage increase calculation:							Section 506.3	Eq 5-5: If = [F/P - 0.25] W/30 - represents Area increase factor due to frontage increase.
			F=	**1064**	**ft**			
			P=	**1064**	**ft**			
			W=	**30.00**	**ft**			F = Bldg perimeter that fronts on a public way or open space 20' or more
			If =	**75.00%**				P= Entire Bldg perimeter
								Width of Public way, as defined by Section 506.3.2
Total Single Story Building Area Modifications:			S1=	**36,000**	**sf**			At = S1 (Tabular fully sprinklered single story building area in accordance with Table 506.2(square feet)
			NS=	**9,000**	**sf**			
			If =	**75.00%**			Section 506.3	
			(NSxIf)=	**6,750**	**sf**			If = Area increase factor due to frontage as calculated in accordance with Section 506.3
Total Allowable Single Story Building Area:			Aa=	**42,750**	**sf**			Eq. 5-1: Aa = At + (NSxIf)
Actual Area of Single Story Building:				**23,777**	**sf**			Is Actual Area < Allowable Area per Floor? **YES**

Conclusions:		Does building height comply with allowed height? **YES**
		Does number of stories comply with allowed number of stories? **YES**
		Does actual building square footage (*including addition) comply with allowed area for one story building? **YES**

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

CODE ANALYSIS - ALLOWABLE AREA

G-003

Scale

11/7/2019 9:33:11 PM

DEFERRED SUBMITTALS	
07 41 13	METAL ROOFING PANELS
07 42 13	METAL WALL PANELS
07 46 46	FIBER CEMENT SIDING
07 84 00	FIRESTOPPING
08 43 13	ALUMINUM-FRAMED STOREFRONTS (CALCULATIONS)
08 60 00	SKYLIGHTS
09 51 00	ACOUSTICAL SUSPENDED CEILINGS
11 41 23	WALK-IN COOLERS
11 81 29	FACILITY FALL PROTECTION
13 34 19	METAL BUILDING SYSTEMS
22 05 29	HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT
23 05 48	VIBRATION AND SEISMIC CONTROLS FOR HVAC
23 38 13	COMMERCIAL KITCHEN HOODS
26 05 29	HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS AND...
28 31 00	FIRE DETECTION AND ALARM

UNDER SEPARATE BUILDING PERMITS	
10 75 10	FLAGPOLES
11 40 00	FOOD SERVICE EQUIPMENT (Clark County Public Health)
11 66 23	GYM EQUIPMENT
21 00 00	FIRE SUPPRESSION SYSTEMS
28 30 00	FIRE DETECTION AND COMMUNICATION
11 68 13	PLAYGROUND EQUIPMENT
	MONUMENT SIGN
	FENCES OVER 6'-0" IN HEIGHT
	TRASH ENCLOSURES OVER 6'-0" IN HEIGHT

1

BASE BID

2015 IBC WITH WASHINGTON AMENDMENTS - MINIMUM PLUMBING FIXTURES - JULY 2016

Version of Code: 2015 IBC with Washington Amendments

CODE ITEM:							PROVIDED	CODE REFERENCE	CODE COMMENTARY:
Classification:					EDUCATIONAL				
Building Occupancy:					E			Chapter 3	
Gross area of Building					22,599	Sq. Ft.		Chapter 5	
Occupancy Load					226	People		Table 2902.1	Gross area of Building divided by 100 square feet per person. Table 2902.1 keynote e
Waterclosets Required									
Ratio Required	Male	1	:	35	4	Waterclosets/Urinals	5	Table 2902.1	Occupancy Load divided by 2 divided by Ratio required
	Female	1	:	25	5	Waterclosets	6	Table 2902.1	Occupancy Load divided by 2 divided by Ratio required
Lavatories Required									
Ratio Required	Male	1	:	85	2	Lavatories	5	Table 2902.1	Occupancy Load divided by 2 divided by Ratio required
	Female	1	:	50	3	Lavatories	6	Table 2902.1	Occupancy Load divided by 2 divided by Ratio required
Single User Restroom						Waterclosets	11		Included in count above - all restrooms are single user.
						Lavatories	11		
Drinking Fountains/Bottle Filling Stations required									
Required number of waterfountains:					1.15	Drinking Fountains	4+2 Bottle Filling Stations		1 for first 150 occupants plus 1 per each additional 500 occupants
One bottle filling station is required. Bottle filling station counts as one drinking fountain.									

ALTERNATE #1

2015 IBC WITH WASHINGTON AMENDMENTS - MINIMUM PLUMBING FIXTURES - JULY 2016

Version of Code: 2015 IBC with Washington Amendments

CODE ITEM:							PROVIDED	CODE REFERENCE	CODE COMMENTARY:
Classification:					EDUCATIONAL				
Building Occupancy:					E			Chapter 3	
Gross area of Building					23,823	Sq. Ft.		Chapter 5	
Occupancy Load					238	People		Table 2902.1	Gross area of Building divided by 100 square feet per person. Table 2902.1 keynote e
Waterclosets Required									
Ratio Required	Male	1	:	35	4	Waterclosets/Urinals	6	Table 2902.1	Occupancy Load divided by 2 divided by Ratio required
	Female	1	:	25	5	Waterclosets	6	Table 2902.1	Occupancy Load divided by 2 divided by Ratio required
Lavatories Required									
Ratio Required	Male	1	:	85	2	Lavatories	6	Table 2902.1	Occupancy Load divided by 2 divided by Ratio required
	Female	1	:	50	3	Lavatories	6	Table 2902.1	Occupancy Load divided by 2 divided by Ratio required
Single User Restroom						Waterclosets	12		Included in count above - all restrooms are single user.
						Lavatories	12		
Drinking Fountains/Bottle Filling Stations required									
Required number of waterfountains:					1.18	Drinking Fountains	4+2 Bottle Filling Stations		1 for first 150 occupants plus 1 per each additional 500 occupants
One bottle filling station is required. Bottle filling station counts as one drinking fountain.									

11/7/2019 3:33:13 PM

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

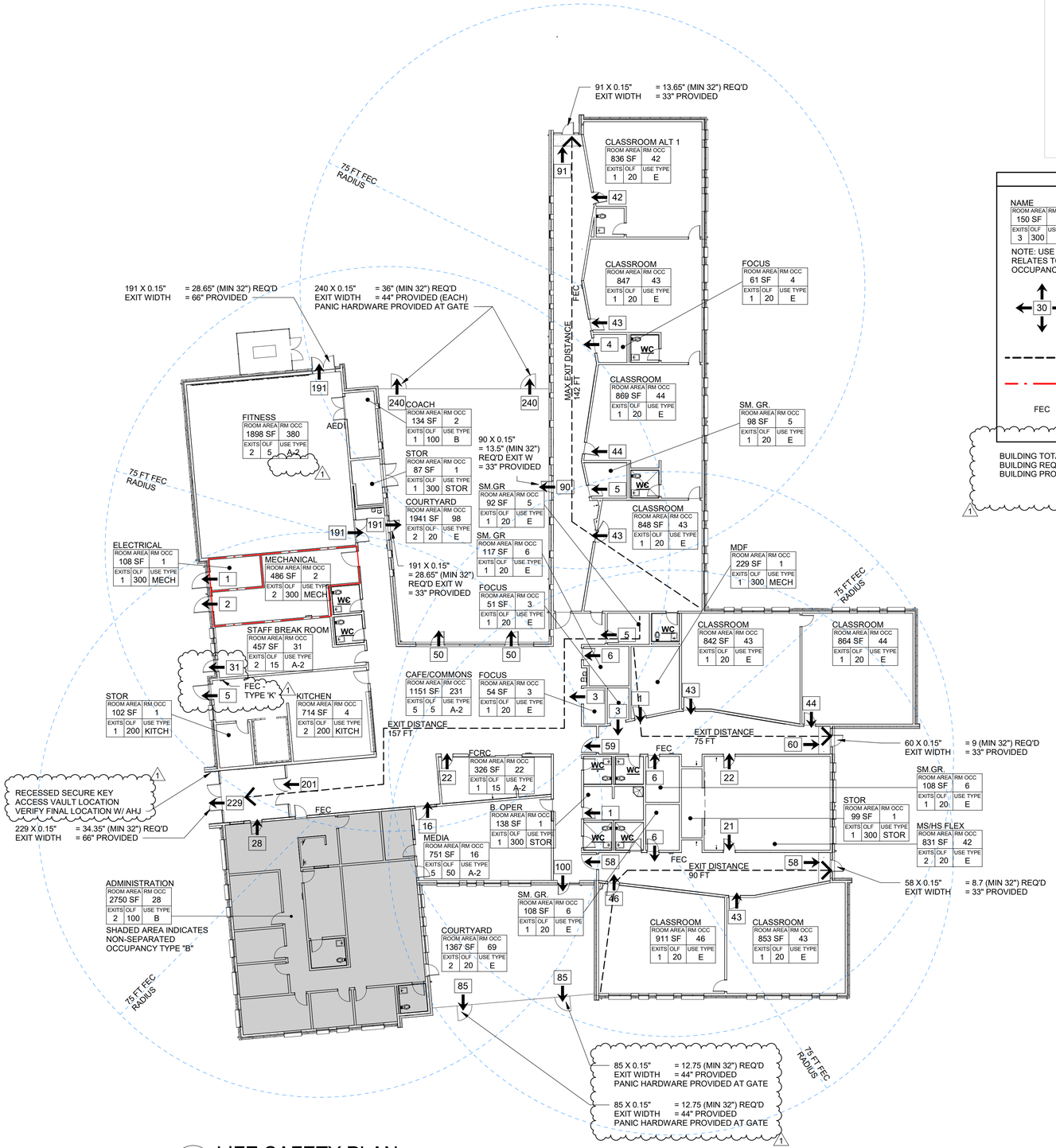
revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

CODE ANALYSIS - PLUMBING & DEFERRED SUBMITTALS

G-004

Scale



1 LIFE SAFETY PLAN
SCALE: 1/16" = 1'-0"

CODE SYMBOL LEGEND

NAME | ROOM AREA 150 SF | RM OCC 10 | EXITS 3 | OLF 300 | USE TYPE E — OCCUPANCY CODE TAG

NOTE: USE TYPE INDICATES FUNCTION AS IT RELATES TO IBC TABLE 1004.1.2
OCCUPANCY TYPE E AND B AS INDICATED ON G-002

30 — DOOR LIFE SAFETY TAG

EGRESS ARROW

1HR FIRE SEPARATION

FEC — FIRE EXTINGUISHER CABINET

BUILDING TOTAL OCCUPANCY: 1,217 PERSONS
BUILDING REQUIRED EXITS: 4
BUILDING PROVIDED EXITS: 4 DIRECT EXITS +9 EXITS FROM SPACES

1

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

9728 REGISTERED ARCHITECT
CASEY JOHN WYCKOFF
STATE OF WASHINGTON

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
PERMIT/BID SET

revisions
1 ADDENDUM #1 11/8/2019

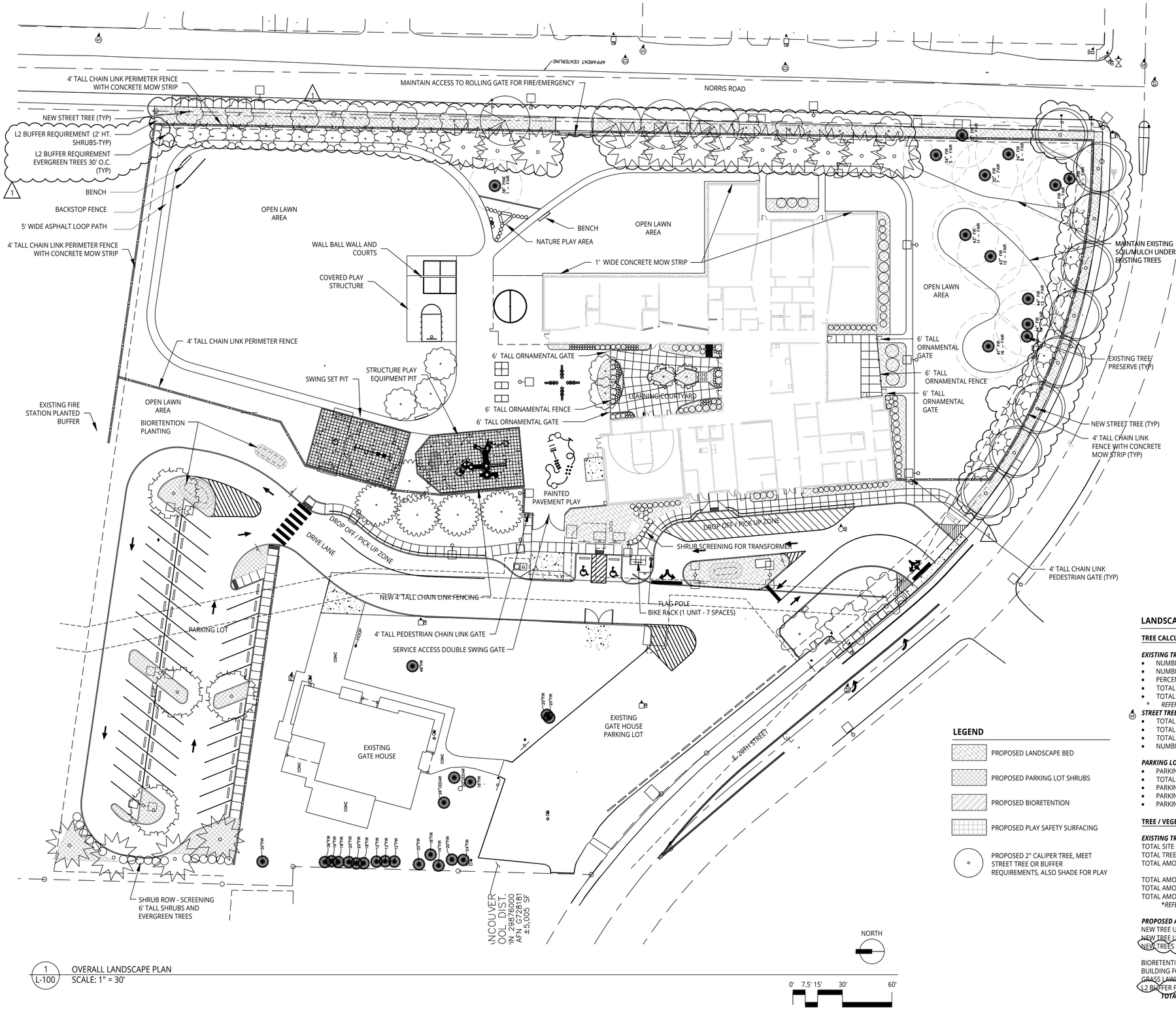
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

LIFE SAFETY PLAN

G-005

Scale **As indicated**

11/7/2019 3:33:21 PM



1 / L-100 OVERALL LANDSCAPE PLAN
SCALE: 1" = 30'

TREE NOTES:

TREE PROTECTION (VMC 20.770 TREE CONSERVATION)

- NO GRADING OR DISTURBANCE IS PROPOSED IN CRITICAL ROOT ZONE OR DRIP LINE OF EXISTING TREES, MAINTAIN SOIL AND/OR MULCH UNDER EXISTING TREES
- REFER TO ARBORIST REPORT BY MR. DAVID HUNTER (5.6.19) FOR ADDITIONAL TREE NOTES
- TREE REMOVAL AND PROTECTION SHOWN ON CIVIL GRADING PLAN
- VANCOUVER PUBLIC SCHOOLS MAY PRUNE TREES TO BE PRESERVED TO IMPROVE HEALTH AND REMOVE HAZARD BRANCHES, ETC.

TREE PLANTINGS PER (VMC 20.925 LANDSCAPING)

- LANDSCAPE MIN. 10% OF NET LOT SIZE
- BUFFER PLANTINGS TO MEET L-1 BUFFER REQUIREMENTS, 10 FOOT ALONG STREET, 5 FOOT ALONG OTHER PROPERTY LINES (2" DIA. CALIPER TREES - 30' O.C.), EXCEPT WHERE DUPLICATE TO FIRE STATION BUFFER PLANTING
- TREE UNITS ON SITE (30/AC) ARE MET WITH EXISTING TREE PRESERVATION ON SITE
- PLANTINGS OPTIMIZE DIVERSITY OF TREE SPECIES, INCLUDING NATIVES
- TREES SHALL BE MINIMUM OF 10 FEET FROM BUILDINGS TO PROVIDE FOR MATURE ROOT GROWTH
- PARKING AND STREET TREES PER APPROVED CITY OF VANCOUVER LIST
- OFF-STREET PARKING SHALL BE SCREENED WITH SITE-OBSCURING SCREENING - PUBLIC STREETS 3' HT., OTHER USES 6' HT. SHRUBS
- ALL NEW LANDSCAPED AREAS SHALL HAVE COMPOST AMENDED SOILS
- ALL LANDSCAPED AREAS SHALL HAVE 3 INCHES OF COMPOST APPLIED TO TOP OF LANDSCAPE BED, KEEP COMPOST 3" FROM PLANT TRUNK/STEM/BASE

TREE REPLACEMENT STANDARDS

- NEW TREES ON SITE WILL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK GRADE NO. 1 OR BETTER, ADDITIONAL INFORMATION IN CITY OF VANCOUVER TREE MANUAL
- SPACING WILL ALLOW FOR MATURE SIZE OF TREE (ROOTS AND CANOPY)
- TREES WILL BE WATERED DURING THE ESTABLISHMENT PERIOD (TWO GROWING SEASONS) AND BE INSTALLED PER CITY STANDARDS, INCLUDING STAKING, FERTILIZATION AND MULCHING

PROTECTION OF EXISTING MATERIALS DURING CONSTRUCTION

- THERE WILL BE NO ACTIVITY OR STORING OF MATERIALS WITHIN THE PROTECTED AREA OF EXISTING TREES TO REMAIN
- PROTECTIVE BARRIERS SHALL MEET CITY OF VANCOUVER STANDARDS FOR ALL PRESERVED TREES. LOCATIONS SHOWN ON CIVIL DEMOLITION / GRADING PLAN
- MINIMIZE COMPACTION OF EXISTING SOILS IN AREAS THAT WILL BE FUTURE LAWN, PLANTING BEDS, AND BUFFER PLANTINGS. STAGE MATERIALS AND PARK VEHICLES ONLY IN DESIGNATED LOCATIONS.

GENERAL LANDSCAPE NOTES

- BIORETENTION PLANTINGS SHALL CONSIST OF LOW EVERGREEN PLANTS THAT COMPLY WITH CITY OF VANCOUVER STORMWATER REQUIREMENTS
- ALL LANDSCAPE AREA SHALL BE IRRIGATED, INCLUDING SHRUB BEDS AND LAWN AREAS
- BIKE PARKING WILL BE NORTH OF THE ENTRY PLAZA, 7 PARKING SPACES (HUNTCO RAMBLER, BLACK)

LEGEND

- PROPOSED LANDSCAPE BED
- PROPOSED PARKING LOT SHRUBS
- PROPOSED BIORETENTION
- PROPOSED PLAY SAFETY SURFACING
- PROPOSED 2" CALIPER TREE, MEET STREET TREE OR BUFFER REQUIREMENTS, ALSO SHADE FOR PLAY

LANDSCAPE NARRATIVE

TREE CALCULATIONS:

EXISTING TREES ON SITE

• NUMBER OF EXISTING TREES ON SITE *	17
• NUMBER OF EXISTING TREES REMOVED	4 (DUE TO DEVELOPMENT CONFLICT, POOR HEALTH*)
• PERCENT OF EXISTING TREES REMOVED	23.5%
• TOTAL DBH OF EXISTING TREES	613
• TOTAL DBH OF EXISTING TREES TO BE REMOVED	140

* *REFER TO ARBORIST REPORT 5.6.19, D. HUNTER, CIVIL PLAN FOR TREE REMOVAL PLAN*

STREET TREES

• TOTAL NUMBER OF EXISTING STREET TREES (NORRIS)	3
• TOTAL NUMBER OF EXISTING STREET TREES (18TH/20TH)	4
• TOTAL NUMBER OF EXISTING STREET TREES RETAINED	7
• NUMBER OF ADDITIONAL STREET TREES (L-1 REQU'D)	23 (30 O.C., OUT OF DRIVEWAY SIGHT DISTANCE TRIANGLE)

PARKING LOT LANDSCAPING

• PARKING LOT SPACES	46 STANDARD STALLS, 2 ADA STALLS
• TOTAL PARKING LOT PAVING (W/ DRIVE LANES)	19,987 SF
• PARKING LOT LANDSCAPING PROPOSED	+ 2,732 SF (10% OF LOT = 1,998 SF REQUIRED)
• PARKING LOT TREES	5 (MIN. 2" CAL.) (5 REQUIRED)
• PARKING LOT SHRUBS	126 (91 REQUIRED, PER 1 EVERY 30 SF OF LANDSCAPING)

TREE / VEGETATION CALCULATIONS:

EXISTING TREES ON SITE

TOTAL SITE ACREAGE:	4.23 ACRES
TOTAL TREE UNITS REQUIRED:	4.23 X 30 = 126.9 TREE UNITS
TOTAL AMOUNT OF EVERGREEN UNITS REQUIRED:	126.9 X 0.60 = 76.14 TREE UNITS
TOTAL AMOUNT OF EXISTING TREE UNITS TO BE PRESERVED:	168 *
TOTAL AMOUNT OF EXISTING TREE UNITS TO BE REMOVED:	36.5 *
TOTAL AMOUNT OF EXISTING T.U. TO BE PRESERVED (EVERGREEN):	154 *

**REFER TO ARBORIST REPORT FOR CALCULATIONS*

PROPOSED ADDITIONAL TREE UNITS ON SITE

NEW TREE UNITS REQUIRED TO MEET DENSITY:	0 T.U.
NEW TREE UNITS REQUIRED TO BE EVERGREEN:	0 T.U.
NEW TREES ADDED FOR ADDITIONAL REQUIREMENTS	64 (30 DECIDUOUS, 34 EVERGREEN)
BIORETENTION PLANTINGS:	574 SF
BUILDING FOUNDATION/LANDSCAPE BEDS:	5,367 SF
GRASS LAWN (TO BE MOWN)	70,788 SF (1.62 AC)
L2 BUFFER PLANTING SHRUBS	5,843 SF
TOTAL LANDSCAPE PERCENTAGE:	***44.8 % OF 4.23 ACRES***

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSWArchitects.com

nature + play designs
PO BOX 666, VANCOUVER, WA 98666
www.natureplaydesign.com
(360)771-2925

drawn by
JTK
checked by
JTK

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
18TH ST & NORRIS RD
VANCOUVER, WA, 98661

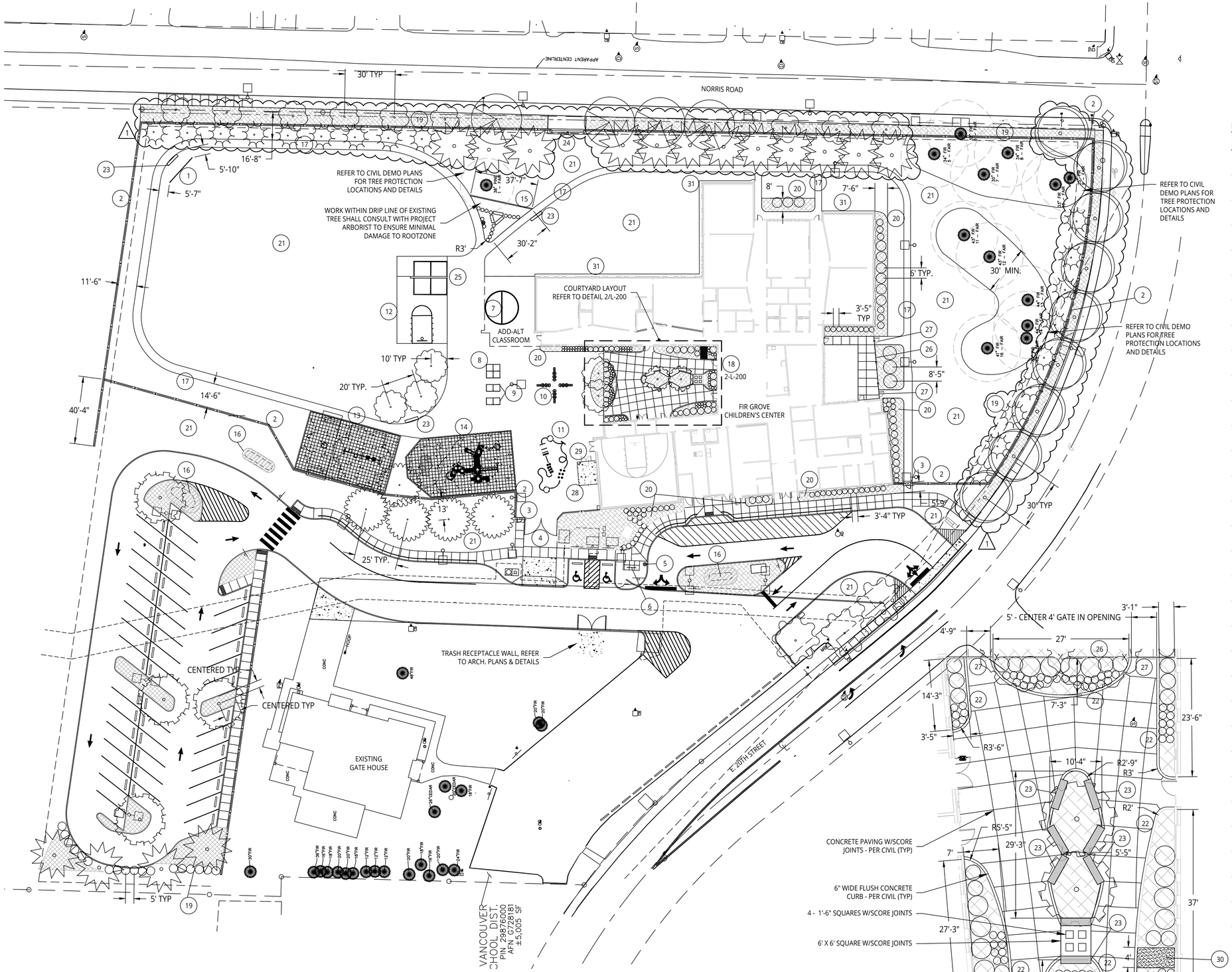
issue date
BID/PERMIT SET
10/15/2019

revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

LANDSCAPE OVERALL PLAN

L-100



1 L-200 LANDSCAPE LAYOUT PLAN
SCALE: 1" = 30'

NORTH 0' 7.5' 15' 30' 60'

2 L-200 COURTYARD LAYOUT PLAN
SCALE: 1" = 10'

0' 2.5' 5' 10' 20' NORTH

MATERIALS LIST AND NOTES

SYMBOL	DESCRIPTION	QUANTITY	DETAIL
1	CHAIN LINK BACK STOP	1	4-L-504
2	CHAIN LINK PERIMETER FENCE - 4' TALL	1,315 LF	2-L-504
3	CHAIN LINK PEDESTRIAN GATE	2	1-L-504
4	CHAIN LINK DOUBLE-SWING GATE	1	5 - L-504
5	FLAG POLE	1	2-L-502
6	BIKE RACK	1	3-L-502
7	TETHER BALL POST	1	1-L-503
8	FOUR-SQUARE COURT	1	2-L-503
9	TWO-SQUARE COURTS	2	2-L-503
10	HOPSCOTCH COURTS	4	3-L-503
11	PAVEMENT PAINT GROSS MOTOR SKILLS	1	7-L-503
12	COVERED PLAY AREA - BASKETBALL COURT	1	4-L-503
13	SWING SET PIT* - CONCRETE CURB/BASE		CIVIL
14	PLAY STRUCTURE* - CONCRETE CURB/BASE		CIVIL
15	NATURE / IMAGINATION PLAY	1	6-L-503
16	STORMWATER BIORETENTION	3	CIVIL
17	ASPHALT WALKING PATH - 5' WIDE		CIVIL
18	COURTYARD LEARNING SPACE	1	2-L-300
19	BUFFER PLANTING	7,120 SF	L-300
20	LANDSCAPE BEDS	5,367 SF	L-501
21	LAWN - GRASS	APPROX 75,500 SF	2-L-501
22	CONCRETE - 6" WIDE FLUSH CURB		CIVIL
23	BENCH - 6' ON CONCRETE PAD	11	1-L-502
24	4' TALL ROLLING EMERGENCY GATE	1	6-L-504
25	WALL BALL COURTS		4-L-503
26	6' TALL FENCE - BASE BID CHAIN LINK 6' TALL FENCE - ADD ALTERNATE 2	79'-4" LF	2-L-504 1-L-505
27	6' TALL GATE - BASE BID CHAIN LINK 6' TALL GATE - ADD ALTERNATE 2	4	1-L-504 2-L-505
28	CHAIN LINK FENCE 6' TALL W/ PRIVACY SLATS	30 LF	2-L-504
29	CHAIN LINK DOUBLE GATE 6' TALL, 6' TOTAL WIDTH	1	2-L-505
30	CRUSHED STONE PATH TO HOSE BIB	30 SF	5-L-502
31	CONCRETE MOW STRIP AT BUILDING	218'-8" LF	CIVIL 4-L-502

*NOTE: PLAY SAFETY SURFACING AND PLAY EQUIPMENT ARE OFOI
TRASH RECEPTACLES ON SITE WILL BE OFOI

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSWArchitects.com

nature + play designs
PO BOX 666, VANCOUVER, WA 98666
www.natureplaydesign.com
(360)771-2925

drawn by
JTK
checked by
JTK

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
18TH ST & NORRIS RD
VANCOUVER, WA, 98661

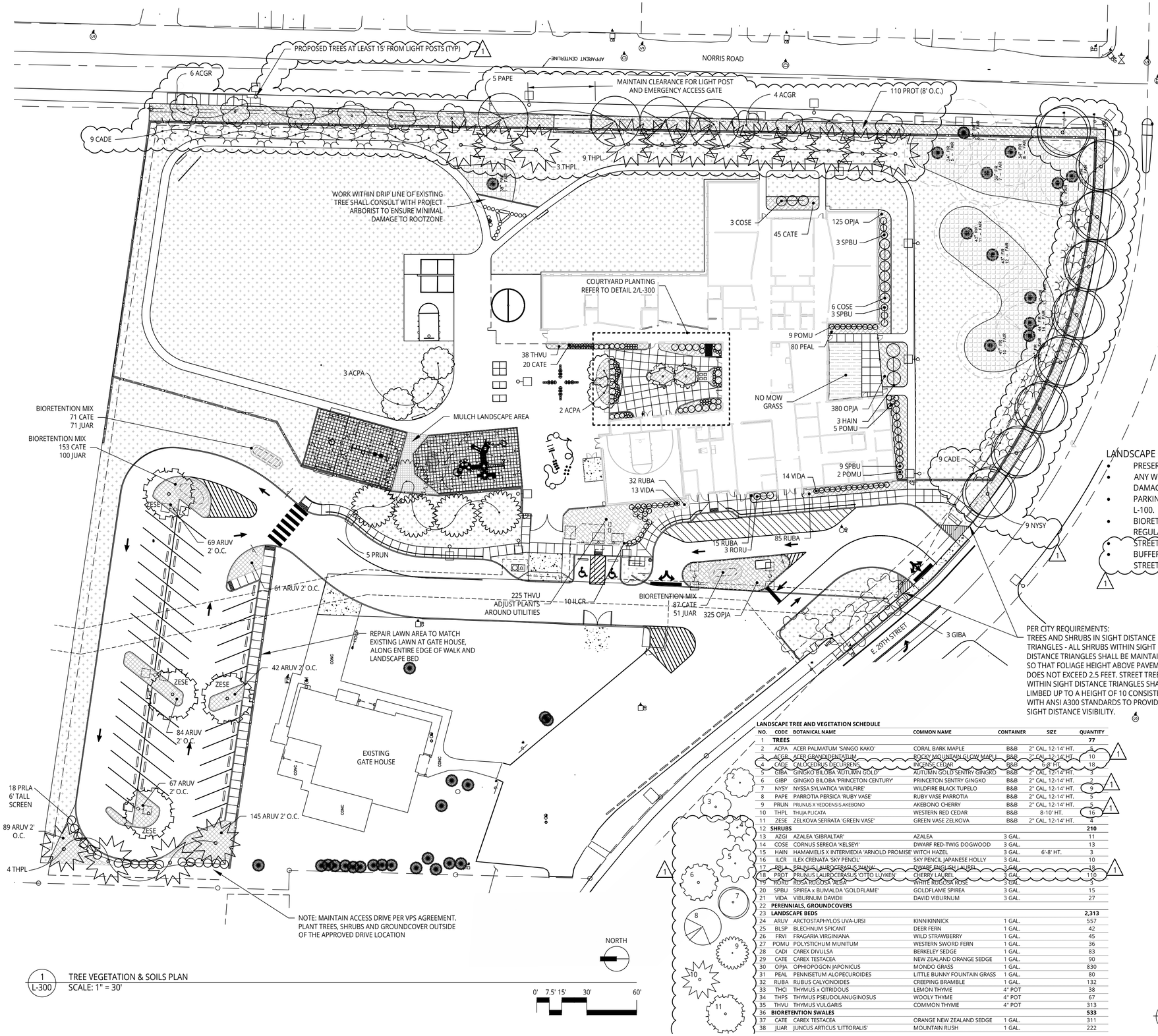
issue date
BID/PERMIT SET
10/15/2019

revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

LANDSCAPE LAYOUT PLAN

L-200



1 L-300 TREE VEGETATION & SOILS PLAN
SCALE: 1" = 30'

SOILS PLAN NOTES (REFER TO (2-L-501 FOR MORE INFORMATION):

- LANDSCAPE BEDS (20) - 12" TOTAL SOIL DEPTH. ALL LANDSCAPE BEDS SHALL COMPRISE OF ORGANIC TOPSOIL WITH 3" MINIMUM DEPTH COMPOST (PER SPECIFICATIONS)
- GRASS LAWN AREA (23) - 8" TOTAL DEPTH SOIL. ALL LAWN AREAS SHALL HAVE FINISHED TOPSOIL AND HYDROSEEDED WITH SUNMARK SEED, NORTHWEST PREMIUM BLEND, PER SPECIFICATIONS.
- NO MOW GRASS AREA - SAME SOIL PREPARATION AS GRASS LAWN AREA. USE NO MOW GRASS MIX PER SPECIFICATIONS.
- BIORETENTION PLANTINGS - REFER TO CIVIL PLANS FOR STORMWATER MANAGEMENT REQUIREMENTS PER CITY CODE, INCLUDING SOIL AND MULCH REQUIREMENTS (BMP T5.13).
- PARKING LOT PLANTINGS - SAME SOIL STRUCTURE AS LANDSCAPE BEDS. PLANTS REQUIRE ONE PER 30 SQUARE FEET MINIMUM, PER CITY CODE.
- SHRUB BEDS - WHERE SHRUBS ARE LOCATED, 12" TOTAL SOIL DEPTH WITH 3" TOPSOIL AND 3" MINIMUM DEPTH COMPOST MULCH.
- MULCH ONLY AREAS - DO NOT DISTURB SOIL DIRECTLY UNDER TREES TO BE PRESERVED. PLACE 2" LANDSCAPE MULCH ON TOP OF SOIL. DO NOT COMPACT.

NOTE: TREES AND SHRUBS SHALL HAVE PLANTING DEPTHS AS NOTED ON THE PLANTING DETAILS.

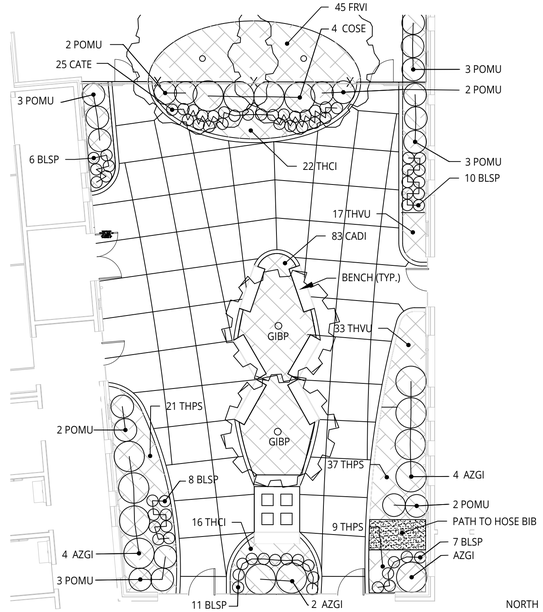
LANDSCAPE NOTES:

- PRESERVE EXISTING STREET AND PROPERTY BOUNDARY TREES AS NOTED ON CIVIL DEMOLITION PLAN & L-100.
- ANY WORK WITHIN DRIP LINES OF EXISTING TREES SHALL BE APPROVED WITH PROJECT ARBORIST TO MINIMIZE DAMAGE TO ROOT ZONE.
- PARKING LOT LANDSCAPE TO INCLUDE SHADE TREES AND SHRUBS TO MEET CITY REQUIREMENTS, AS NOTED ON L-100.
- BIORETENTION AREAS TO BE PLANTED TO MEET REQUIREMENTS OF LOCAL AND STATE STORMWATER REGULATIONS. SOIL, PLANTS AND MULCH TO COMPLY WITH STANDARDS (BMP T5.13). PER CIVIL PLANS & SPECS.
- STREET TREES TO BE 3-4' BEHIND SIDEWALK, 30' ON CENTER, MAX., PER CITY REQUIREMENTS.
- BUFFER PLANTINGS (C.O.V. L2 ALONG NORRIS & 18TH ST.) 2" CAL. TREE 30' O.C. AND 2' TALL SCREENING BEHIND STREET TREES PER CITY REQUIREMENTS.

PER CITY REQUIREMENTS:
TREES AND SHRUBS IN SIGHT DISTANCE TRIANGLES - ALL SHRUBS WITHIN SIGHT DISTANCE TRIANGLES SHALL BE MAINTAINED SO THAT FOLIAGE HEIGHT ABOVE PAVEMENT DOES NOT EXCEED 2.5 FEET. STREET TREES WITHIN SIGHT DISTANCE TRIANGLES SHALL BE LIMBED UP TO A HEIGHT OF 10 CONSISTENT WITH ANSI A300 STANDARDS TO PROVIDE FOR SIGHT DISTANCE VISIBILITY.

LANDSCAPE TREE AND VEGETATION SCHEDULE

NO.	CODE	BOTANICAL NAME	COMMON NAME	CONTAINER	SIZE	QUANTITY
1	**TREES**					**77**
2	ACPA	ACER PALMATUM 'SANGO KAKO'	CORAL BARK MAPLE	B&B	2" CAL, 12-14' HT.	5
3	ACGR	ACER GRANDIDENTATUM	ROCKY MOUNTAIN GLOW MAPLE	B&B	2" CAL, 12-14' HT.	10
4	CADE	CALOCEDRUS DECURRENS	INCENSE CEDAR	B&B	6-8' HT.	18
5	GIBA	GINGKO BILOBA 'AUTUMN GOLD'	AUTUMN GOLD SENTRY GINGKO	B&B	2" CAL, 12-14' HT.	3
6	GIBP	GINGKO BILOBA 'PRINCETON CENTURY'	PRINCETON SENTRY GINGKO	B&B	2" CAL, 12-14' HT.	2
7	NYSY	NYSSA SYLVATICA 'WIDLFIRE	WILDFIRE BLACK TUPELO	B&B	2" CAL, 12-14' HT.	9
8	PAPE	PARROTIA PERSICA 'RUBY VASE'	RUBY VASE PARROTIA	B&B	2" CAL, 12-14' HT.	5
9	PRUN	PRUNUS X YEDOENSIS AKEBONO	AKEBONO CHERRY	B&B	2" CAL, 12-14' HT.	5
10	THPL	THUJA PLICATA	WESTERN RED CEDAR	B&B	8-10' HT.	16
11	ZESE	ZELKOVA SERRATA 'GREEN VASE'	GREEN VASE ZELKOVA	B&B	2" CAL, 12-14' HT.	4
12	**SHRUBS**					**210**
13	AZGI	AZALEA 'GIBRALTAR'	AZALEA	3 GAL.		11
14	COSE	CORNUS SERECIA 'KELSEYI'	DWARF RED-TWIG DOGWOOD	3 GAL.		13
15	HAIN	HAMAMELIS X INTERMEDIA 'ARNOLD PROMISE'	WITCH HAZEL	3 GAL.	6'-8' HT.	3
16	ILCR	ILEX CRENATA 'SKY PENCIL'	SKY PENCIL JAPANESE HOLLY	3 GAL.		10
17	PRLA	PRUNUS LAUROCERASUS 'NANA'	DWARF ENGLISH LAUREL	3 GAL.		18
18	PROT	PRUNUS LAUROCERASUS 'OTTO LUYKEN'	CHERRY LAUREL	3 GAL.		110
19	RORU	ROSA RUGOSA 'ALBA'	WHITE RUGOSA ROSE	3 GAL.		3
20	SPBU	SPIREA x BUMALDA 'GOLDFLAME'	GOLDFLAME SPIREA	3 GAL.		15
21	VIDA	VIBURNUM DAVIDII	DAVID VIBURNUM	3 GAL.		27
22	**PERENNIALS, GROUNDCOVERS**					
23	**LANDSCAPE BEDS**					**2,313**
24	ARUV	ARCTOSTAPHYLOS UVA-URSI	KINNIKINNICK	1 GAL.		557
25	BLSP	BLECHNUM SPICANT	DEER FERN	1 GAL.		42
26	FRVI	FRAGARIA VIRGINIANA	WILD STRAWBERRY	1 GAL.		45
27	POMU	POLYSTICHUM MUNITUM	WESTERN SWORD FERN	1 GAL.		36
28	CADI	CAREX DIVULSA	BERKELEY SEDGE	1 GAL.		83
29	CATE	CAREX TESTACEA	NEW ZEALAND ORANGE SEDGE	1 GAL.		90
30	OPJA	OPHIOPOGON JAPONICUS	MONDO GRASS	1 GAL.		830
31	PEAL	PENNISETUM ALOPECUROIDES	LITTLE BUNNY FOUNTAIN GRASS	1 GAL.		80
32	RUBA	RUBUS CALYCINOIDES	CREEPING BRAMBLE	1 GAL.		132
33	THCI	THYMUS x CITRIDOUS	LEMON THYME	4" POT		38
34	THPS	THYMUS PSEUDOLANUGINOSUS	WOOLY THYME	4" POT		67
35	THVU	THYMUS VULGARIS	COMMON THYME	4" POT		313
36	**BIORETENTION SWALES**					**533**
37	CATE	CAREX TESTACEA	ORANGE NEW ZEALAND SEDGE	1 GAL.		311
38	JUAR	JUNCUS ARTICUS 'LITTORALIS'	MOUNTAIN RUSH	1 GAL.		222



2 L-300 COURTYARD - TREE VEGETATION & SOILS PLAN
SCALE: 1" = 10'

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSWArchitects.com

nature + play designs
PO BOX 666, VANCOUVER, WA 98666
www.natureplaydesign.com
(360)771.2925

drawn by
JTK
checked by
JTK

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
18TH ST & NORRIS RD
VANCOUVER, WA, 98661

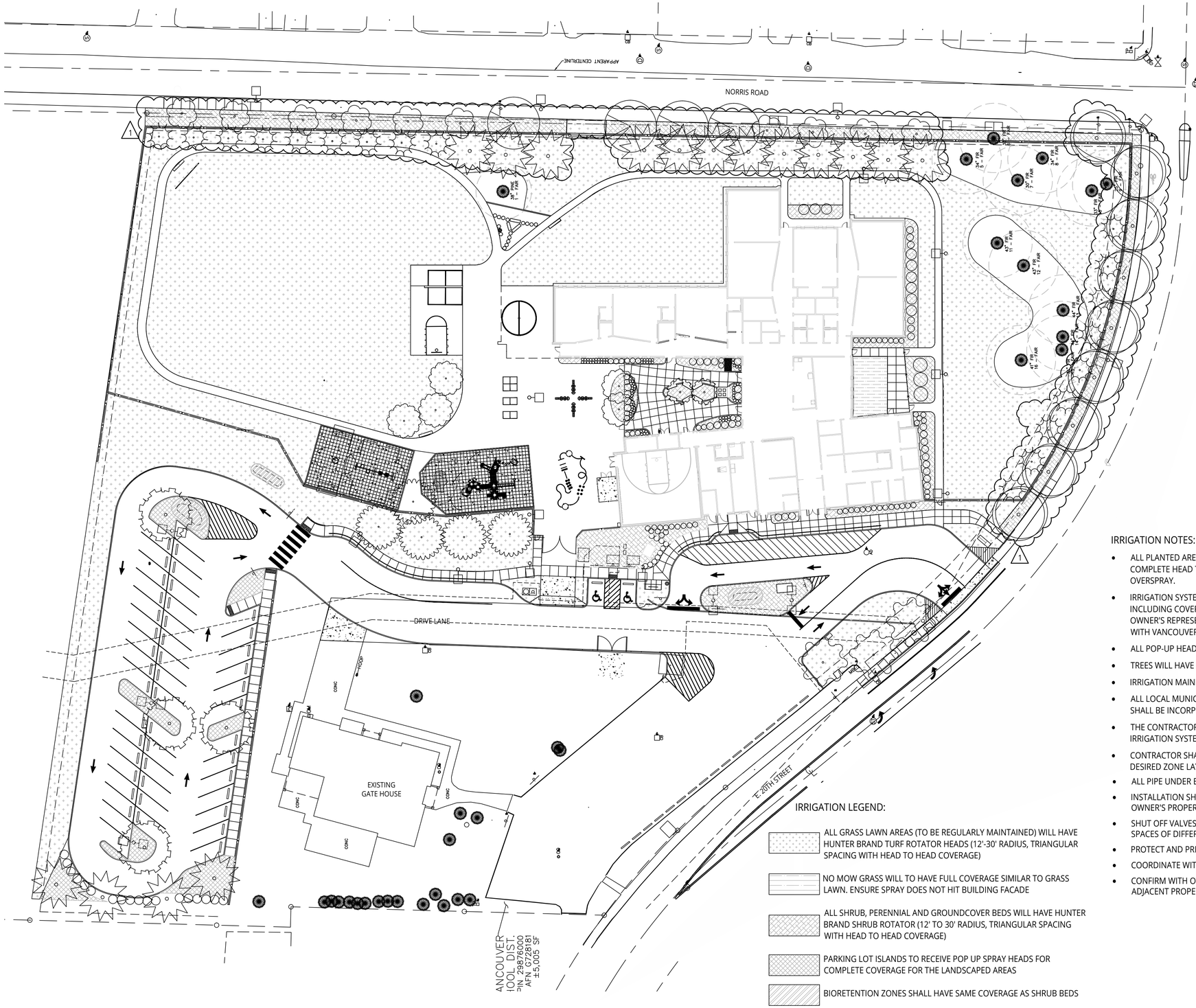
issue date
ADDENDUM #1
11/6/19

revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

TREE, VEGETATION & SOILS PLAN

L-300



1 L-400 IRRIGATION PLAN
SCALE: 1" = 30'

IRRIGATION LEGEND:

- ALL GRASS LAWN AREAS (TO BE REGULARLY MAINTAINED) WILL HAVE HUNTER BRAND TURF ROTATOR HEADS (12'-30' RADIUS, TRIANGULAR SPACING WITH HEAD TO HEAD COVERAGE)
- NO MOW GRASS WILL TO HAVE FULL COVERAGE SIMILAR TO GRASS LAWN. ENSURE SPRAY DOES NOT HIT BUILDING FACADE
- ALL SHRUB, PERENNIAL AND GROUNDCOVER BEDS WILL HAVE HUNTER BRAND SHRUB ROTATOR (12' TO 30' RADIUS, TRIANGULAR SPACING WITH HEAD TO HEAD COVERAGE)
- PARKING LOT ISLANDS TO RECEIVE POP UP SPRAY HEADS FOR COMPLETE COVERAGE FOR THE LANDSCAPED AREAS
- BIORETENTION ZONES SHALL HAVE SAME COVERAGE AS SHRUB BEDS

NORTH 0' 7.5' 15' 30' 60'

POINT OF CONTACT NOTES:

- VERIFY STATIC AND DYNAMIC PRESSURE AT P.O.C AT COMMENCEMENT OF CONTRACT. SUBMIT WRITTEN REPORT TO OWNER'S REPRESENTATIVE PRIOR TO BEGINNING OF WORK. IRRIGATION SYSTEM DESIGN SHALL BE BASED ON MINIMUM OPERATING PRESSURE OF SPRINKLER HEADS AND MAXIMUM FLOW DEMAND OF THE SYSTEM. CONTRACTOR SHALL VERIFY AVAILABLE WATER PRESSURE IS SUFFICIENT TO PROPERLY OPERATE THE SYSTEM.
- CONTRACTOR SHALL VERIFY LOCATION OF OTHER UTILITY EQUIPMENT, FIELD CONDITIONAS AND SITE FEATURES PRIOR TO FINAL DESIGN LAYOUT TO ENSURE COMPATIBILITY WITH PLACEMENT OF ALL IRRIGATION EQUIPMENT.
- CONTROLLER AND BACKFLOW PREVENTER TO BE HUNTER PER VPS STANDARD EQUIPMENT, FINAL LOCATION TO BE APPROVED BY OWNER'S REPRESENTATIVE.
- BACK FLOW INSTALLATION SHALL CONFORM TO CITY OF VANCOUVER BACKFLOW ASSEMBLY INSTALLATION REQUIREMENTS.
- CONFIRM WITH CIVIL ENGINEER LOCATION FOR WATER CONNECTION, METER, SHUTOFF VALVES, AND CONTROL BOX ; & ELECTRICAL ENGINEER FOR CONTROL BOX.
- USE OF BOOSTER PUMP SHALL BE CONFIRMED PRIOR TO THE START OF WORK. COORDINATE WITH CIVIL AND ELECTRICAL REPRESENTATIVES TO VERIFY PROPER FINAL LOCATION OF PUMP, IF NEEDED.
- ALL POINT OF CONTACT EQUIPMENT AND LAYOUT TO BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO THE START OF WORK.
- ALL WORK RELATED TO IRRIGATION DESIGN, LAYOUT, INSTALLATION AND MAINTENANCE SHALL COMPLY WITH LOCAL, STATE AND FEDERAL REGULATIONS, CODES AND LAWS.

IRRIGATION NOTES:

- ALL PLANTED AREAS ARE TO BE IRRIGATED WITH A PERMANENT AUTOMATIC IRRIGATION SYSTEM. PROVIDE COMPLETE HEAD TO HEAD COVERAGE TO ENSURE VIABILITY OF ALL PLANTINGS AND GRASS WITH MINIMUM OVERSPRAY.
- IRRIGATION SYSTEM WILL BE DESIGN/BUILD BY CONTRACTOR TO MEET VANCOUVER PUBLIC SCHOOLS STANDARDS, INCLUDING COVERAGE AND ZONE LAYOUTS. ALL EQUIPMENT SHALL BE HUNTER INDUSTRY UNLESS APPROVED BY OWNER'S REPRESENTATIVE IN WRITING. ALL EQUIPMENT SHALL BE LATEST AVAILABLE NEW PRODUCTS TO COMPLY WITH VANCOUVER PUBLIC SCHOOLS EQUIPMENT AND IRRIGATION OPERATING PROCEDURES.
- ALL POP-UP HEADS TO AVOID SPRAY TO BUILDING, PAVEMENT AND OTHER HARD SURFACES
- TREES WILL HAVE MULTI-STREAM BUBBLER, 4" POP-UP TO ESTABLISH TREES
- IRRIGATION MAINLINE WILL BE PVC SCHEDULE 40
- ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING ANY PORTION OF THIS WORK SHALL BE INCORPORATED BY THE CONTRACTOR
- THE CONTRACTOR SHALL VERIFY ALL UTILITIES, STRUCTURES AND SERVICE PRIOR TO DESIGN-BUILD OF THE IRRIGATION SYSTEM
- CONTRACTOR SHALL WORK WITH OWNER'S REPRESENTATIVE & DISTRICT IRRIGATION STAFF TO DETERMINE DESIRED ZONE LAYOUT FOR ALL AREAS (OWNER'S REPRESENTATIVE TO APPROVE ZONES PRIOR TO INSTALLATION)
- ALL PIPE UNDER BUILDINGS, ROADS, WALKS, PARKING AREAS OR OTHER PAVED SURFACES SHALL BE SLEEVED.
- INSTALLATION SHALL BE LOCATED ON OWNER'S PROPERTY OWNER AND SPRAY SHALL BE DIRECTED TOWARDS OWNER'S PROPERTY TO AVOID WATER ONTO ADJACENT PROPERTIES.
- SHUT OFF VALVES SHALL BE LOCATED AT ALL MAJOR MAINLINE CROSSINGS UNDER ROADWAYS. LARGE DEFINED SPACES OF DIFFERENT USES SHALL HAVE SHUT OFF VALVES FOR ISOLATION DURING MAINTENANCE PERIODS.
- PROTECT AND PRESERVE ALL EXISTING MATERIALS ON SITE DURING INSTALLATION.
- COORDINATE WITH CIVIL ENGINEER FOR ANY WORK IN THE EXISTING RIGHT-OF-WAY.
- CONFIRM WITH OWNER'S REPRESENTATIVE WHEN WORKING WITHIN THE DRIPLINE OF EXISTING TREES ON ADJACENT PROPERTIES TO ENSURE MINIMAL DAMAGE TO EXISTING TREE(S).

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSWArchitects.com

nature play designs
PO BOX 666, VANCOUVER, WA 98666
www.naturepladesign.com
(360)771.2925

STATE OF WASHINGTON JASON TEMPLETON 21744 REGISTERED LANDSCAPE ARCHITECT

drawn by
JTK
checked by
JTK

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
18TH ST & NORRIS RD
VANCOUVER, WA, 98661

issue date
BID/PERMIT SET
10/15/2019

revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

IRRIGATION PLAN

L-400

BOILER SCHEDULE

SYMBOL	LOCATION	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	MAX GROSS INPUT (MBH)	MAX GROSS OUTPUT (MBH)	MIN EFF (AFUE)	TURN DOWN RATIO	FLOW RATE (GPM)	EWT (°F)	LWT (°F)	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL BOILER FLA	WATER PRESSURE DROP (FT H2O)	EMERGENCY POWER	CONTROLS REF	MAX WT (LBS)	COMMENTS
B-1	MECH/ELEC 104	HYDROTHERM	KN-6	600	576.6	96	5:1	30	110	140	120	1	13.9	0.50	Y	230900	1300	PROVIDE WITH CONDENSATE DRAIN KIT, INCLUDING NEUTRALIZER AS REQUIRED.
B-2	MECH/ELEC 104	HYDROTHERM	KN-6	600	576.6	96	5:1	30	110	140	120	1	13.9	0.50	Y	230900	1300	PROVIDE WITH CONDENSATE DRAIN KIT, INCLUDING NEUTRALIZER AS REQUIRED.

PUMP SCHEDULE

SYMBOL	LOCATION	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	PUMP TYPE	RPM	FLOW RATE (GPM)	HEAD (FT. H2O)	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL MHP	VFD (Y/N)	CONTROLS REF	MAX WT (LBS)	NOTES
HWP-1	MECH/ELEC - 104	TACO	FI 2506D	BASE MOUNTED	1160	125	20	208	3	1	Y	230900	400	1,2
HWP-2	MECH/ELEC - 104	TACO	FI 2506D	BASE MOUNTED	1160	125	20	208	3	1	Y	230900	400	1,2

NOTES:
1 FOR PUMPS WITH VFD MOTORS, DO NOT CUT THE SPECIFIED IMPELLER SIZE FOR SYSTEM BALANCING
2 PROVIDE WITH 4-INCH CONCRETE HOUSEKEEPING PAD.

PACKAGED ROOFTOP AIR CONDITIONING UNIT SCHEDULE (HOT WATER COIL)

SYMBOL	AREA SERVED	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	SUPPLY FAN TOTAL CFM	SUPPLY FAN MIN OSA CFM	SUPPLY FAN TSP (IN H2O)	SUPPLY FAN MHP	SUPPLY FAN VFD (Y/N)	EXHAUST FAN TOTAL CFM	EXHAUST FAN TSP (IN H2O)	EXHAUST FAN MHP	EXHAUST FAN VFD (Y/N)	DX COOLING COIL TOTAL CAP (MBH)	DX COOLING COIL SENS CAP (MBH)	DX COOLING COIL EDB (°F)	DX COOLING COIL EWB (°F)	DX COOLING COIL LDB (°F)	DX COOLING COIL LWB (°F)	HOT WATER HEATING COIL MIN CAP (MBH)	HOT WATER HEATING COIL WATER FLOW (GPM)	HOT WATER HEATING COIL EWT (°F)	HOT WATER HEATING COIL LWT (°F)	HOT WATER HEATING COIL EAT (°F)	HOT WATER HEATING COIL LAT (°F)	HOT WATER HEATING COIL APD (IN H2O)	HOT WATER HEATING COIL WPD (FT H2O)	HOT WATER HEATING COIL HW MIN BRANCH PIPE SIZE	GAS FURNACE INPUT (MBH)	GAS FURNACE OUTPUT (MBH)	GAS FURNACE MIN EFF.	GAS FURNACE EAT (°F)	GAS FURNACE LAT (°F)	FINAL FILTER EFF MERV	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL MCA	ELECTRICAL MOCP	EMERG. POWER (Y/N)	MAX WT (LBS)	NOTES
RTU-1	FITNESS - 103	JCI	J07ZJN	2600	850	1.5	3	N	2600	0.75	0.75	N	90.6	76	80	67	55	46	N/A									120	96	0.8	57	91	8	208	3	51.8	60	N	1350	1,2,3,4,5,6,7,8,9
RTU-2	KITCHEN - 108	JCI	JA5ZJN	1750	350	1.25	2	N	1750	0.5	0.5	N	60.3	46.5	80	67	55	46	N/A									120	97	0.8	57	91	8	208	3	46.4	60	N	1100	1,2,3,4,5,6,7,8,9
RTU-3	ADMIN	JCI	GVA1L	8500	3750	3.25	10	Y	8500	1.25	7.5	Y	279	266	80	67	55	46	161	10	140	110	52	65	0.16	0.8	1.5	N/A					8	208	3	154	175	N	1500	1,2,3,4,5,6,7,8,10
RTU-4	CLASSROOMS	JCI	GVB1L	11500	5000	4	15	Y	11500	1.75	15	Y	355	347	80	67	55	46	174	10	140	110	52	65	0.32	0.8	1.5	N/A					8	208	3	210	225	N	1650	1,2,3,4,5,6,7,8,10

NOTES:
1 TSP INCLUDES FILTER DP
2 PROVIDE WITH 2" MERV-8 FILTER
3 18" HIGH SEISMICALLY CALCULATED ROOF CURB WITH (MIN.) 2" DEFLECTION SPRING ISOLATION. CURBS TO SHIP FULLY ASSEMBLED WITH SEISMIC TIE-DOWN BRACKETS.
4 PROVIDE 0-100% MODULATING AIR ECONOMIZER, WITH 0-100% MODULATING POWER EXHAUST.
5 OUTSIDE AIR TEMPERATURE FOR COOLING = 92F, HEATING = 22F
6 PROVIDE FACTORY MOUNTED FUSED DISCONNECT
7 PROVIDE VFDs FOR SUPPLY AND EXHAUST FANS
8 PROVIDE SMOKE DETECTOR IN RETURN AIR DUCT. INTERLOCK WITH FIRE ALARM SYSTEM. UNIT TO SHUT DOWN UPON DETECTION OF SMOKE.
9 SIDE DUCT CONNECTIONS FOR HORIZONTAL DUCT ROUTING FROM UNIT
10 PROVIDE STANDARD CURB ON TOP OF CONCRETE TUB FOR BOTTOM OF UNIT DUCT CONNECTIONS.

SINGLE DUCT TERMINAL UNIT SCHEDULE

SYMBOL	AREA SERVED	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	INLET SIZE (IN)	COOLING AIRFLOW MAX CFM	COOLING AIRFLOW MIN CFM	TU SP (IN H2O)	HOT WATER HEATING COIL MAX HTG CFM	HOT WATER HEATING COIL MIN CAP (MBH)	HOT WATER HEATING COIL WATER FLOW (GPM)	HOT WATER HEATING COIL EWT (°F)	HOT WATER HEATING COIL LWT (°F)	HOT WATER HEATING COIL EAT (°F)	HOT WATER HEATING COIL LAT (°F)	HOT WATER HEATING COIL HW MIN BRANCH PIPE SIZE	NOTES
TU-3-1	FCRC - 115	JCI	TSS	08	465	150	1	165	6.2	0.5	140	110	65	90	3/4	1
TU-3-2	CONFERENCE - 102	JCI	TSS	06	250	75	1	155	5.6	0.5	140	110	65	90	3/4	1
TU-3-3	HEALTH - 105	JCI	TSS	08	365	125	1	155	6.0	0.5	140	110	65	90	3/4	1
TU-4-1	CLASSROOM - 5	JCI	TSS	10	1050	475	1	750	28.5	1.9	140	110	65	90	3/4	1
TU-4-2	CLASSROOM - 6	JCI	TSS	10	1050	475	1	775	29.2	1.9	140	110	65	90	3/4	1
TU-4-3	B OPER - 128	JCI	TSS	08	345	235	1	235	9.4	0.6	140	110	65	90	3/4	1
TU-4-4	HALL - 123	JCI	TSS	06	525	345	1	345	13.0	1.6	140	110	65	90	3/4	1
TU-4-5	FOCUS - 126	JCI	TSS	06	400	160	1	160	6.6	0.4	140	110	65	90	3/4	1

NOTES:
1 PROVIDE 3-WAY CONTROL VALVE FOR TERMINAL UNIT AT THE END OF A PIPING RUN. 2-WAY CONTROL VALVE IN ALL OTHER LOCATIONS.

FAN POWERED TERMINAL UNIT SCHEDULE

SYMBOL	AREA SERVED	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	INLET SIZE (IN)	AIRFLOW MAX CFM	AIRFLOW MIN CFM	SERIES/ PARALLEL	FAN CFM	FAN MHP	TU SP (IN H2O)	HOT WATER HEATING COIL MAX HTG CFM	HOT WATER HEATING COIL MIN CAP (MBH)	HOT WATER HEATING COIL WATER PD (FT. WG)	HOT WATER HEATING COIL WATER FLOW (GPM)	HOT WATER HEATING COIL EWT (°F)	HOT WATER HEATING COIL LWT (°F)	HOT WATER HEATING COIL EAT (°F)	HOT WATER HEATING COIL LAT (°F)	HOT WATER HEATING COIL HW MIN BRANCH PIPE SIZE	NOTES
FTU-3-1	WORK ROOM - 123	JCI	TVS	10	750	275	PARALLEL	475	1/3	0.5	375	20.5	0.5	1.5	140	112.1	69	90	3/4	1,2,3
FTU-3-2	MH - 109	JCI	TVS	8	580	175	PARALLEL	405	1/3	0.5	355	15.1	0.2	1.0	140	108.6	70	90	3/4	1,2,3
FTU-3-3	MH - 107	JCI	TVS	8	720	215	PARALLEL	505	1/3	0.5	475	18.3	0.3	1.2	140	107.8	70	90	3/4	1,2,3
FTU-3-4	PRINCIPAL - 104	JCI	TVS	8	700	215	PARALLEL	485	1/3	0.5	485	18.6	0.3	1.2	140	107.8	70	90	3/4	1,2,3
FTU-3-5	ADMIN WAITING - 101	JCI	TVS	10	910	405	PARALLEL	505	1/3	0.5	465	24.3	0.3	1.5	140	106.4	69	90	3/4	1,2,3
FTU-3-6	MEDIA - 1	JCI	TVS	14	1710	775	PARALLEL	935	1/2	0.5	835	45.1	1.2	3.4	140	113.1	69	90	3/4	1,2,3
FTU-3-7	CAFÉ COMMONS - 114	JCI	TVS	16	2790	1235	PARALLEL	1555	1	0.5	2170	55.1	6.5	4.2	140	113.2	69	90	3/4	1,2,3
FTU-4-1	CLASSROOM - 9	JCI	TVS	10	1050	575	PARALLEL	475	1/2	0.5	985	37.8	1.0	2.4	140	107.9	68	90	3/4	1,2,3
FTU-4-2	CLASSROOM - 8	JCI	TVS	10	1050	575	PARALLEL	475	1/2	0.5	985	37.8	1.0	2.4	140	107.9	68	90	3/4	1,2,3
FTU-4-3	CLASSROOM - 7	JCI	TVS	10	1130	625	PARALLEL	505	1/2	0.5	985	37.8	1.0	2.4	140	107.9	68	90	3/4	1,2,3
FTU-4-4	MS HS FLEX - 4	JCI	TVS	14	1250	675	PARALLEL	575	1/2	0.5	815	40.2	0.8	2.4	140	105.5	68	90	3/4	1,2,3
FTU-4-5	CLASSROOM - 3	JCI	TVS	10	1490	715	PARALLEL	775	1/2	0.5	1000	42.4	0.7	2.5	140	105.3	69	90	3/4	1,2,3
FTU-4-6	CLASSROOM - 2	JCI	TVS	10	1390	715	PARALLEL	675	1/2	0.5	1000	42.4	0.7	2.5	140	105.3	68	90	3/4	1,2,3

NOTES:
1 PROVIDE 3-WAY CONTROL VALVE FOR TERMINAL UNIT AT THE END OF A PIPING RUN. 2-WAY CONTROL VALVE IN ALL OTHER LOCATIONS.
2 120V/1PH POWER
3 PROVIDE ECM FAN MOTOR

FAN SCHEDULE

SYMBOL	AREA SERVED	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	TYPE	DRIVE	AIR FLOW (CFM)	TSP (IN H2O)	MAX RPM	SOUND SONES (dB)	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL MHP (WATTS)	EMERGENCY POWER (Y/N)	VFD (Y/N)	MAX WT (LBS)	NOTES
KEF-1	KITCHEN TYPE-I HOOD	GREENHECK	USF-15	UTILITY-SET	DIRECT	1610	0.95	2187	(62)	120	1	3/4	N	Y	100	1,2,3,4
KEF-2	KITCHEN TYPE-II HOOD	GREENHECK	USF-08	UTILITY-SET	DIRECT	525	0.75	2615	(61)	120	1	1/4	N	N	75	1,4,5
CEF-A-1	WC - 120	GREENHECK	SP-A90	CEILING	DIRECT	75	0.25	900	0.4	120	1	(16)	N	N	25	6
CEF-A-2	WC - 118	GREENHECK	SP-A90	CEILING	DIRECT	75	0.25	900	0.4	120	1	(16)	N	N	25	6
CEF-B-1	WC - 7A	GREENHECK	SP-A90	CEILING	DIRECT	75	0.25	900	0.4	120	1	(16)	N	N	25	6
CEF-B-2	WC - 8A	GREENHECK	SP-A90	CEILING	DIRECT	75	0.25	900	0.4	120	1	(16)	N	N	25	6
CEF-B-3	WC - 9A	GREENHECK	SP-A90	CEILING	DIRECT	75	0.25	900	0.4	120	1	(16)	N	N	25	6
CEF-B-4	WC ALT 1 - 152A	GREENHECK	SP-A90	CEILING	DIRECT	75	0.25	900	0.4	120	1	(16)	N	N	25	6,7
CEF-C-1	WC - 111	GREENHECK	SP-A90	CEILING	DIRECT	75	0.25	900	0.4	120	1	(16)	N	N	25	6
CEF-C-2	HEALTH RR - 105A	GREENHECK	SP-A90	CEILING	DIRECT	75	0.25	900	0.4	120	1	(16)	N	N	25	6
CEF-D-1	WC - 129	GREENHECK	SP-A90	CEILING	DIRECT	75	0.25	900	0.4	120	1	(16)	N	N	25	6
CEF-D-2	WC - 131	GREENHECK	SP-A90	CEILING	DIRECT	75	0.25	900	0.4	120	1	(16)	N	N	25	6
CEF-D-3	WC - 127	GREENHECK	SP-A90	CEILING	DIRECT	75	0.25	900	0.4	120	1	(16)	N	N	25	6
CEF-D-4	WC - 135	GREENHECK	SP-A90	CEILING	DIRECT	75	0.25	900	0.4	120	1	(16)	N	N	25	6
EF-A-1	ELECTRICAL - 122	GREENHECK	CSP-A1050-VG	INLINE	DIRECT	730	0.5	1225	1.4	120	1	(241)	N	N	75	6
EF-C-1	WORK ROOM - 112	GREENHECK	CSP-A510-VG	INLINE	DIRECT	470	0.35	1275	1.4	120	1	(160)	N	N	55	6

NOTES:
1 UNIT TO BE LISTED TO UL-762 FOR GREASE EXHAUST
2 INTERLOCK OPERATION WITH ASSOCIATED HOOD. FAN TO RUN WHEN HOOD IS IN USE.
1 3 PROVIDE WITH GREASE CUP
4 PROVIDE WITH MOTORIZED DAMPER, FOR FAN AIRFLOW OVER 300 CFM.
5 INTERLOCK OPERATION WITH ASSOCIATED DISHWASHER. FAN TO RUN WHEN DISHWASHER IS IN USE.
6 FAN TO RUN CONTINUOUSLY DURING OCCUPIED HOURS.
1 7 PROVIDE SEPARATE, ALTERNATE PRICING FOR THIS SYSTEM, AS PART OF ALTERNATE 1

ELECTRIC HEATER SCHEDULE

SYMBOL	AREA SERVED	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	TYPE	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL HEAT WATTS	ELECTRICAL STAGES	MAX WT (LBS)	NOTES
EWH-A-1	STOR - 140	QMARK	CWH1101DSF	RECESSED WALL	120	1	500	1	50	1
1 EWH-B-1	HALL ALT 1 - 125A	QMARK	CWH1101DSF	RECESSED WALL	120	1	500	1	50	1,2

NOTES:
1 PROVIDE WITH INTEGRAL THERMOSTAT
1 2 PROVIDE SEPARATE, ALTERNATE PRICING FOR THIS SYSTEM, AS PART OF ALTERNATE 1

11/5/2019 2:52:55 PM

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

SCHEDULES - MECHANICAL

INTERFACE ENGINEERING
PROJECT 2019-0017
CONTACT Steve Dacus
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

M-002

Scale **12" = 1'-0"**

FAN COIL SCHEDULE (DX)

SYMBOL	AREA SERVED	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	ASSOC CU	SUPPLY FAN TOTAL CFM	DX COOLING COIL NOM TONS	DX COOLING COIL TOTAL CAP (MBH)	DX COOLING COIL SENS CAP (MBH)	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL MCA	ELECTRICAL MOCP	MAX WT (LBS)	NOTES
FCU-B-1	MDF - 136	DAIKIN	FAQ24	CU-B-1	635	2	24	18	208	1	0.6	15	50	1
FCU-B-2	CLASSROOM ALT 1 - 152	DAIKIN	FBQ36PVJU	CU-B-2	1130	3	36	27	208	1	2.9	15	150	2

NOTES:
1 DIV. 23 TO PROVIDE CONDENSATE PUMP. SEE PLUMBING PLANS FOR CONDENSATE REMOVAL
2 PROVIDE SEPARATE, ALTERNATE PRICING FOR THIS SYSTEM, AS PART OF ALTERNATE 1

CONDENSING UNIT SCHEDULE

SYMBOL	AREA SERVED	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	ASSOC FAN	AIR SOURCE CONDENSER NOM TONS	AIR SOURCE CONDENSER CAP (MBH)	AIR SOURCE CONDENSER AMBIENT DB (°F)	AIR SOURCE CONDENSER SEER	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL MCA	ELECTRICAL MOCP	MAX WT (LBS)	NOTES
CU-B-1	MDF - 136	DAIKIN	RZQ24	FCU-B-1	2	24	95	17.6	208	1	16.5	25	200	
CU-B-2	CLASSROOM ALT 1 - 152	DAIKIN	RZQ36	FCU-B-2	3	36	95	17.5	208	1	29.1	35	250	1

NOTES
1 PROVIDE SEPARATE, ALTERNATE PRICING FOR THIS SYSTEM, AS PART OF ALTERNATE 1

DIFFUSER, REGISTER AND GRILLE SCHEDULE

SYMBOL	TYPE	FACE	FRAME	DAMPER	FINISH	BASIS OF DESIGN	NOTES
CD-1	CEILING DIFFUSER	PERFORATED	LAY-IN	NONE	WHITE	TITUS PCS	1,3
CD-2	CEILING DIFFUSER	PERFORATED	SURFACE	OBD	WHITE	TITUS PCS	1,3
CEG-1	CEILING EXHAUST GRILLE	PERFORATED	LAY-IN	NONE	WHITE	TITUS PAR	1,3
CEG-2	CEILING EXHAUST GRILLE	PERFORATED	SURFACE	NONE	WHITE	TITUS PAR	1,3
CRG-1	CEILING RETURN GRILLE	PERFORATED	LAY-IN	NONE	WHITE	TITUS PAR	1,3
CRG-2	CEILING RETURN GRILLE	PERFORATED	SURFACE	NONE	WHITE	TITUS PAR	1,3
DL-1	DRUM LOUVER	VERT. ADJUST	1/4" BORDER	NONE	WHITE	TITUS DL	1,3
RG-1	RETURN GRILLE	FIXED BAR 35 DEG. DEFL.	1/4" BORDER	NONE	WHITE	TITUS 350R	1,3
RG-2	HEAVY DUTY RETURN GRILLE	FIXED BAR 30 DEG. DEFL.	SURFACE	NONE	WHITE	TITUS 63F	1,2,3
SG-1	SUPPLY GRILLE	DOUBLE DEFL.	1/4" BORDER	NONE	WHITE	TITUS 300R	1,3
ER-1	EXHAUST REGISTER	FIXED BAR	1/4" BORDER	OBD	WHITE	TITUS 350R	1,3
TG-1	TRANSFER GRILLE	FIXED BAR	1/4" BORDER	NONE	WHITE	TITUS 350R	1,3

NOTES:
1 COORDINATE EXACT QUANTITY, DIMENSION, FRAME TYPE, AND DAMPER REQUIREMENTS WITH OVERALL MECHANICAL AND ARCHITECTURAL CEILING PLANS.
2 HEAVY DUTY, ANTI-CORROSION
3 SOUND LEVEL: NC 30 (MAX.) AT RATED VELOCITY

OUTSIDE AIR VENTILATION SCHEDULE

HVAC UNIT	ROOM	Az NET OCCUPIABLE FLOOR AREA (SF)	Rp PEOPLE OUTDOOR AIR RATE (CFM / PERSON)	Ra AREA OUTDOOR AIR FLOW RATE (CFM/SQ FT)	DEFAULT OCCUPANT DENSITY (#/1000SF)	DEFAULT ZONE POPULATION	Pz ACTUAL ZONE POPULATION	Vbz BREATHING ZONE OUTDOOR AIRFLOW (CFM)	EZ ZONE AIR DISTRIBUTION EFFECTIVENESS	Voz ZONE OUTDOOR AIRFLOW (CFM)	OSA PROVIDED (CFM)
RTU-1	10 - FITNESS	1,871	0	0.30	0	0	0	561	0.8	702	830
	10A - STORAGE	134	5	0.06	5	1	1	13	0.8	16	20
TOTAL											**850**
RTU-2	117 - KITCHEN	714	5	0.06	5	4	4	63	0.8	79	320
	117B - STORAGE	102	0	0.12	0	0	0	12	0.8	15	30
TOTAL											**350**
RTU-3	1 - MEDIA	750	10	0.18	25	19	19	325	0.8	406	700
	1A - AA COACH	244	5	0.06	5	2	1	20	0.8	25	50
	101 - ADMIN WAITING	382	5	0.06	30	12	12	83	0.8	104	180
	102 - CONFERENCE	144	5	0.06	50	8	8	49	0.8	61	110
	103 - CORRIDOR	342	0	0.06	0	0	0	21	0.8	26	55
	104 - PRINCIPAL	186	5	0.06	5	1	1	16	0.8	20	35
	105 - HEALTH	180	5	0.06	5	1	1	16	0.8	20	35
	106 - PSYCH	109	5	0.06	5	1	1	12	0.8	14	25
	107 - MH	109	5	0.06	5	1	1	12	0.8	14	25
	108 - OT S N	171	5	0.06	5	1	1	15	0.8	19	35
	109 - MH	102	5	0.06	5	1	1	11	0.8	14	25
	110 - MH	102	5	0.06	5	1	1	11	0.8	14	25
	112 - WORK ROOM	522	5	0.06	4	3	3	46	0.8	58	105
	113 - HALL	555	0	0.06	0	0	0	33	0.8	42	80
	114 - CAFÉ COMMONS	1135	7.5	0.06	100	114	114	923	0.8	1,154	1985
	115 - FCRC	326	5	0.06	5	2	2	30	0.8	37	70
	116 - HALL	518	0	0.06	0	0	0	31	0.8	39	70
	119 - STAFF BREAK ROOM	457	5	0.06	5	3	3	42	0.8	53	95
	141 - HALL	325	0	0.06	0	0	0	20	0.8	24	45
TOTAL											**3,750**
RTU-4	123 - HALL	884	0	0.06	0	0	0	53	0.8	66	90
	124 - SM GR	92	5	0.06	5	1	1	11	0.8	13	15
	125 - SM GR	117	5	0.06	5	1	1	12	0.8	15	20
	126 - FOCUS	55	5	0.06	5	1	1	8	0.8	10	15
	128 - B OPER	138	5	0.06	5	1	1	13	0.8	17	20
	130 - HALL	586	0	0.06	0	0	0	35	0.8	44	60
	132 - SM GR	108	5	0.06	5	1	1	11	0.8	14	20
	133 - HALL	586	0	0.06	0	0	0	35	0.8	44	60
	134 - FOCUS	51	5	0.06	5	1	1	8	0.8	10	15
	137 - SM GR	108	5	0.06	5	1	1	11	0.8	14	20
	138 - SM GR	98	5	0.06	5	1	1	11	0.8	14	20
	139 - FOCUS	61	5	0.06	5	1	1	9	0.8	11	20
	141 - HALL	325	0	0.06	0	0	0	20	0.8	24	35
	2 - CLASSROOM	913	10	0.12	25	23	23	340	0.8	424	600
	3 - CLASSROOM	853	10	0.12	25	22	22	322	0.8	403	570
	4 - MS HS FLEX	831	10	0.12	25	21	21	310	0.8	387	550
	4A - STORAGE	107	0	0.12	0	0	0	13	0.8	16	20
	5 - CLASSROOM	842	10	0.12	25	22	22	321	0.8	401	565
	6 - CLASSROOM	864	10	0.12	25	22	22	324	0.8	405	575
	7 - CLASSROOM	848	10	0.12	25	22	22	322	0.8	402	570
	8 - CLASSROOM	869	10	0.12	25	22	22	324	0.8	405	570
	9 - CLASSROOM	846	10	0.12	25	22	22	322	0.8	402	570
TOTAL											**5,000**

SOUND ATTENUATOR SCHEDULE

SYMBOL	AREA SERVED	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	TOTAL CFM	LENGTH	MAX APD (IN. WG)	FACE VELOCITY (FPM)	MINIMUM DYNAMIC INSERTION LOSS (DB) OCTAVE BAND MID-FREQUENCY HZ 63	125	250	500	1K	2K	4K	8K	MAX WT (LBS)	NOTES
S-A-1	RTU-1 SUPPLY, FITNESS-10	IAC	LFM	2600	3'-0"	0.08	900	4	7	15	20	17	13	11	10	250	
S-A-2	RTU-1 RETIURN, FITNESS-10	IAC	LFM	2600	5'-0"	0.08	900	8	13	23	29	28	17	14	13	250	
S-D-1	RTU-3 SUPPLY, B. OPER-128	IAC	LFM	4965	5'-0"	0.08	1000	8	13	23	29	28	17	14	13	250	
S-D-2	RTU-3 SUPPLY, B. HALL-141	IAC	LFM	3535	5'-0"	0.08	1000	8	13	23	29	28	17	14	13	250	

NOTES:

INTERFACE ENGINEERING
PROJECT 2019-0017
CONTACT Steve Dacus
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

SCHEDULES - MECHANICAL

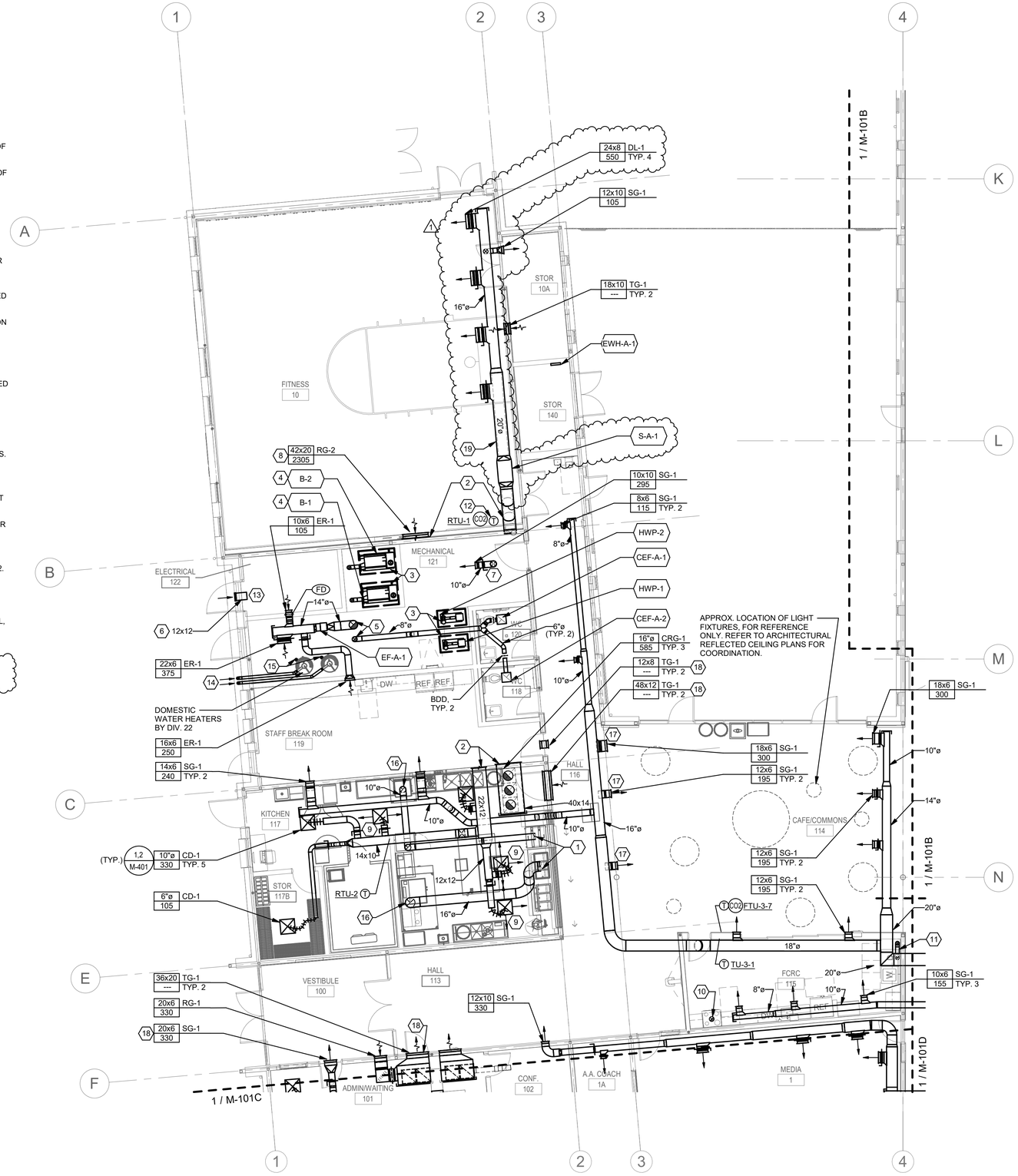
M-003

Scale **12" = 1'-0"**

11/5/2019 2:52:55 PM

SHEET KEYNOTES

1. KITCHEN EXHAUST DUCTS THROUGH SIDEWALL OF ROOF OVERHANG ABOVE. SEE M-121A FOR CONTINUATION.
2. SUPPLY AND RETURN AIR DUCTS THROUGH SIDEWALL OF ROOF OVERHANG, FROM ROOFTOP HVAC UNIT ABOVE. SEE M-121A FOR CONTINUATION.
3. CONCRETE HOUSEKEEPING PAD EXTENDING 6-INCHES ALL DIRECTIONS FROM EQUIPMENT FOOTPRINT
4. ROUTE BOILER FLUE AND INTAKE UP TO ROOF LEVEL. SEE M-121A FOR CONTINUATION.
5. ROUTE EXHAUST DUCT UP THRU ROOF. SEE M-121A FOR CONTINUATION.
6. INTAKE LOUVER IN EXTERIOR WALL, CENTERED ABOVE DOOR. RUSKIN ELF6375DX, OR EQUAL. SIZE AS INDICATED ON DRAWINGS.
7. SUPPLY DUCT DOWN FROM RTU-1 MAIN SUPPLY DUCT ON ROOF ABOVE. SEE M-121A FOR CONTINUATION.
8. MOUNT GRILLE AT APPROXIMATELY 14'-0" (AFF). COORDINATE EXACT MOUNTING ELEVATION WITH ARCHTECTURAL ELEVATION DETAILS.
9. PROVIDE DIFFUSER WITH THROW-PATTERN AS INDICATED ON FLOORPLAN.
10. ROUTE DOMESTIC-TYPE RANGE EXHAUST UP THRU ROOF. SIZE AND TERMINATE PER MANUFACTURER'S REQUIREMENTS.
11. ROUTE DRYER VENT DUCTWORK UP THRU ROOF. SIZE AND TERMINATE PER MANUFACTURER'S REQUIREMENTS.
12. PROVIDE WIRE METAL PROTECTIVE GUARD FOR WALL-MOUNTED THERMOSTAT IN GYM.
13. PROVIDE 1/2"X1/2" WIRE MESH OVER OPEN END OF DUCT
14. DOMESTIC WATER HEATER COMBUSTION AIR INTAKE THRU EXTERIOR WALL. SIZE AND TERMINATE PER WATER HEATER MANUFACTURER'S REQUIREMENTS. WATER HEATERS BY DIV. 22.
15. DOMESTIC WATER HEATER FLUES THRU ROOF. SEE M-121A FOR CONTINUATION. WATER HEATERS BY DIV. 22.
16. ROUTE EXHAUST DUCT TO CONNECTION AT EXHAUST HOOD. SEE FOOD SERVICE PLANS FOR HOOD INFORMATION. HOODS BY OTHERS.
17. TAP BRANCH DUCT AT 45 DEGREES BELOW HORIZONTAL, FROM MAIN ROUND SUPPLY DUCT
18. CENTER WALL-MOUNTED GRILLE ABOVE DOOR BELOW.
19. INTERNALLY LINE 25'-0" (MIN.) OF SUPPLY DUCTWORK, INCLUDING ELBOWS AND OFFSETS, DOWNSTREAM OF UNIT CONNECTION.



1 LEVEL 1 MECHANICAL PLAN - SECTOR A

0' 4' 8' 16'

1/8" = 1'-0"

11/5/2019 2:52:57 PM

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

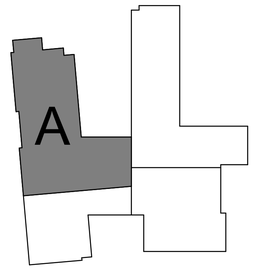
drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM #1 11/8/2019



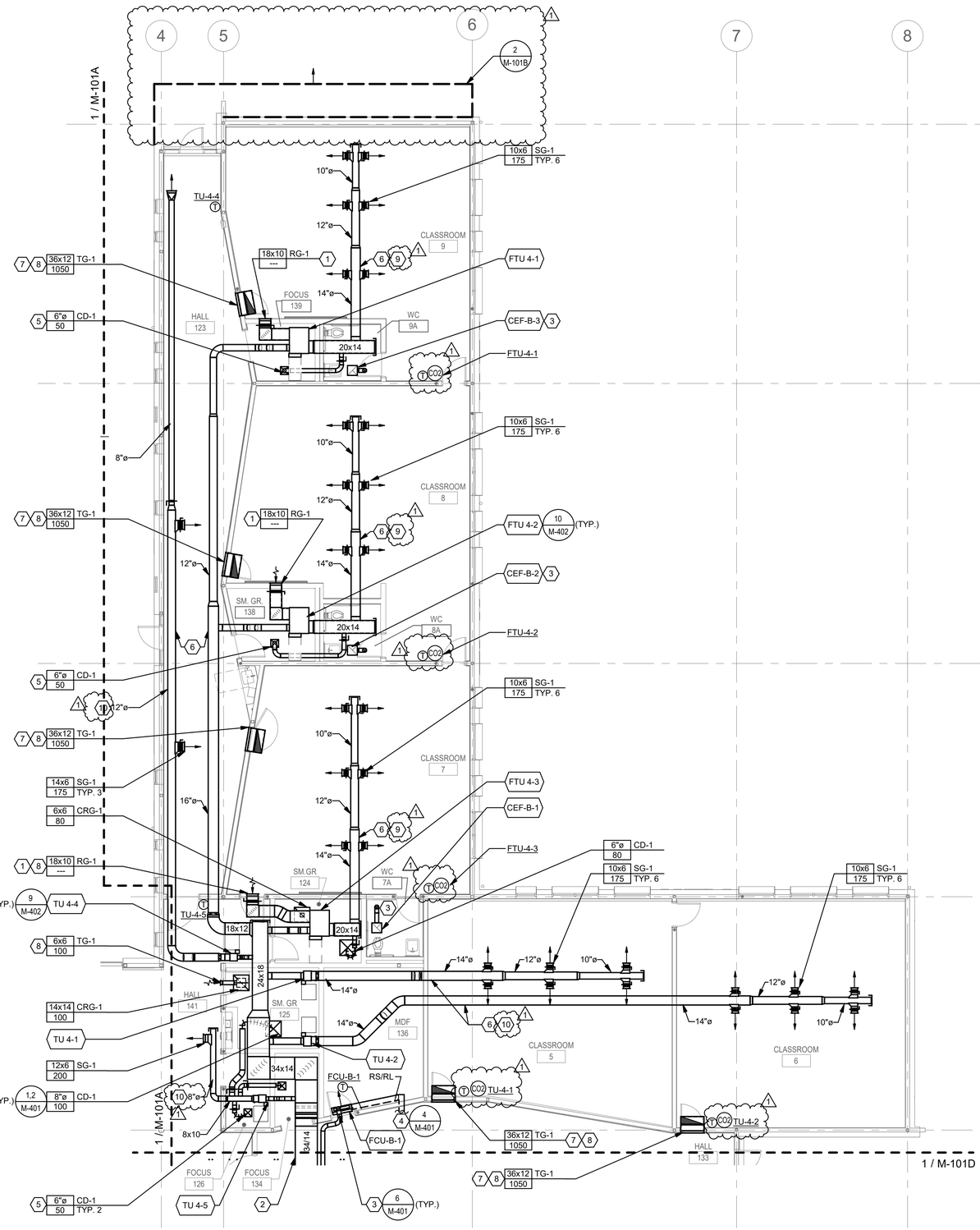
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

LEVEL 1 FLOOR PLAN SECTOR A - MECHANICAL

INTERFACE ENGINEERING
PROJECT 2019-0017
CONTACT Steve Dacus
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

M-101A

Scale **1/8" = 1'-0"**



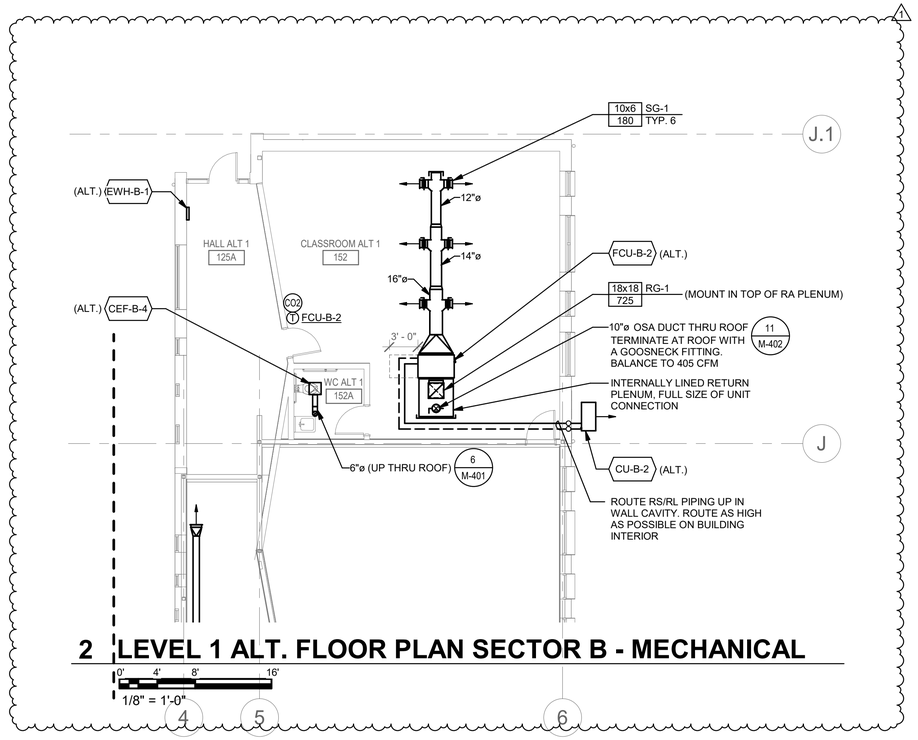
1 LEVEL 1 MECHANICAL PLAN - SECTOR B

0' 4' 8' 16'

1/8" = 1'-0"

SHEET KEYNOTES

1. BALANCE FILTER RETURN GRILLE TO THE CORRESPONDING FAN AIRFLOW(S) INDICATED ON THE FAN POWERED TERMINAL UNIT SCHEDULE.
2. FLAT OVAL DUCT IN HALL WHERE EXPOSED IN AN OPEN CEILING AREA.
3. ROUTE EXHAUST DUCT UP THRU ROOF. TERMINATE WITH A RAIN CAP.
4. ROUTE RS/RL PIPING ABOVE CEILING, AS HIGH AS POSSIBLE, FROM ROOF. SEE M-121D FOR CONTINUATION.
5. 12X12 GRILLE SIZE
6. ROUTE DUCTS AS HIGH AS POSSIBLE.
7. INTERNALLY LINED SOUND BOOT. TURN DUCT UP TO ENSURE GRILLE IS SIGHT-PROOF ON HALLWAY SIDE.
8. CENTER WALL-MOUNTED GRILLE ABOVE DOOR BELOW.
9. INTERNALLY LINE ENTIRE RUN OF LOW PRESSURE DUCTWORK DOWNSTREAM OF FTU.
10. INTERNALLY LINE 20'-0" (MIN.) OF LOW PRESSURE DUCTWORK DOWNSTREAM OF TU.



2 LEVEL 1 ALT. FLOOR PLAN SECTOR B - MECHANICAL

0' 4' 8' 16'

1/8" = 1'-0"

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

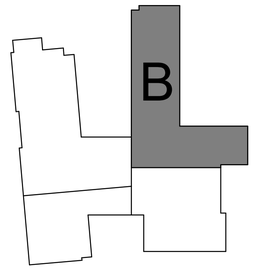
drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM #1 11/8/2019



ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

LEVEL 1 FLOOR PLAN SECTOR B - MECHANICAL

INTERFACE ENGINEERING
PROJECT 2019-0017
CONTACT Steve Dacus
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

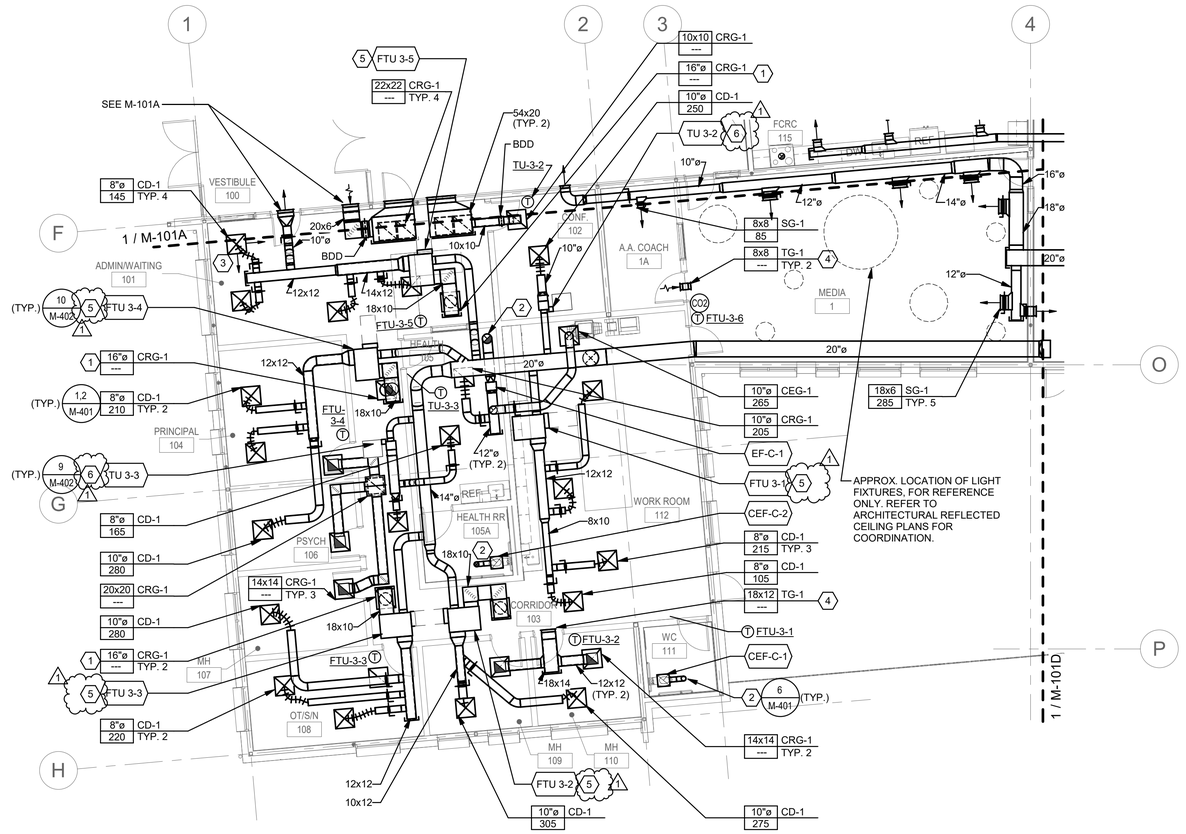
M-101B

Scale **1/8" = 1'-0"**

11/5/2019 2:53:01 PM

SHEET KEYNOTES

1. BALANCE FILTER RETURN GRILLE TO THE CORRESPONDING FAN AIRFLOW(S) INDICATED ON THE FAN POWERED TERMINAL UNIT SCHEDULE.
2. ROUTE EXHAUST DUCT UP THRU ROOF. TERMINATE WITH A RAIN CAP.
3. PROVIDE DIFFUSER WITH THROW-PATTERN AS INDICATED ON FLOORPLAN.
4. CENTER WALL-MOUNTED GRILLE ABOVE DOOR BELOW.
5. INTERNALLY LINE ENTIRE RUN OF LOW PRESSURE DUCTWORK DOWNSTREAM OF FTU.
6. INTERNALLY LINE 20'-0" (MIN.) OF LOW PRESSURE DUCTWORK DOWNSTREAM OF TU.



1 LEVEL 1 MECHANICAL PLAN - SECTOR C

NORTH

0' 4' 8' 16'

1/8" = 1'-0"

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

STEVEN EDWIN DACUS — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

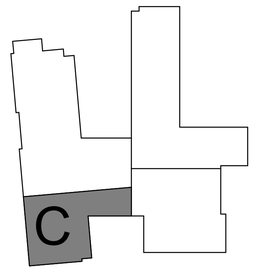
drawn by **Author**
checked by **Checker**

lsw job number **2018-0029**

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date **10/15/2019**
BID/PERMIT SET

revisions
1 ADDENDUM #1 11/8/2019



ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

LEVEL 1 FLOOR PLAN SECTOR C - MECHANICAL

INTERFACE ENGINEERING
PROJECT 2019-0017
CONTACT Steve Dacus
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

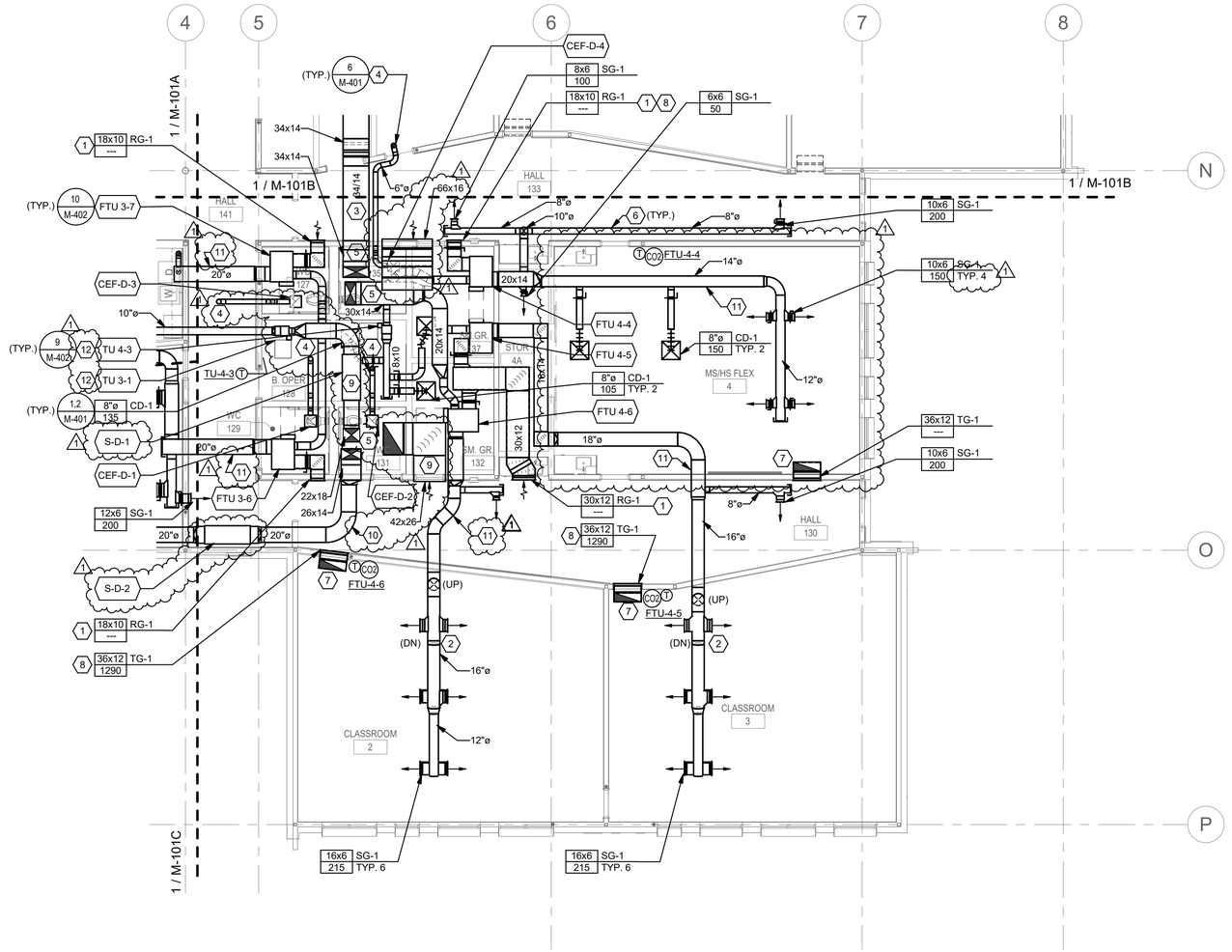
M-101C

Scale **1/8" = 1'-0"**

11/5/2019 2:53:05 PM

SHEET KEYNOTES

1. BALANCE FILTER RETURN GRILLE TO THE CORRESPONDING FAN AIRFLOW(S) INDICATED ON THE FAN POWERED TERMINAL UNIT SCHEDULE.
2. TURN DUCT UP AND ROUTE AS HIGH AS POSSIBLE. SLOPE DUCTWORK TO MATCH SLOPE OF STRUCTURE ABOVE.
3. FLAT OVAL DUCT IN HALL WHERE EXPOSED IN AN OPEN CEILING AREA.
4. ROUTE EXHAUST DUCT UP THRU ROOF. TERMINATE WITH A RAIN CAP. SEE M-121D FOR CONTINUATION.
5. ROUTE DUCT DOWN FROM ROOFTOP HVAC UNIT ABOVE. SEE M-121D FOR CONTINUATION.
6. ROUTE DUCTS AS HIGH AS POSSIBLE.
7. INTERNALLY LINED SOUND BOOT. TURN DUCT UP TO ENSURE GRILLE IS SIGHT-PROOF ON HALLWAY SIDE.
8. CENTER WALL-MOUNTED GRILLE ABOVE DOOR BELOW.
9. INTERNALLY LINE ENTIRE RUN OF MEDIUM PRESSURE DUCTWORK.
10. INTERNALLY LINE 30'-0" (MIN.) DOWNSTREAM OF UNIT CONNECTION.
11. INTERNALLY LINE ENTIRE RUN OF LOW PRESSURE DUCTWORK DOWNSTREAM OF FTU.
12. INTERNALLY LINE 20'-0" (MIN.) OF LOW PRESSURE DUCTWORK DOWNSTREAM OF TU.



1 LEVEL 1 MECHANICAL PLAN - SECTOR D

NORTH

0' 4' 8' 16'

1/8" = 1'-0"

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

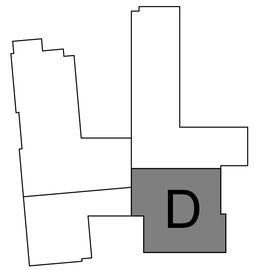
drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM #1 11/8/2019



ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

LEVEL 1 FLOOR PLAN SECTOR D - MECHANICAL

INTERFACE ENGINEERING
PROJECT 2019-0017
CONTACT Steve Dacus
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

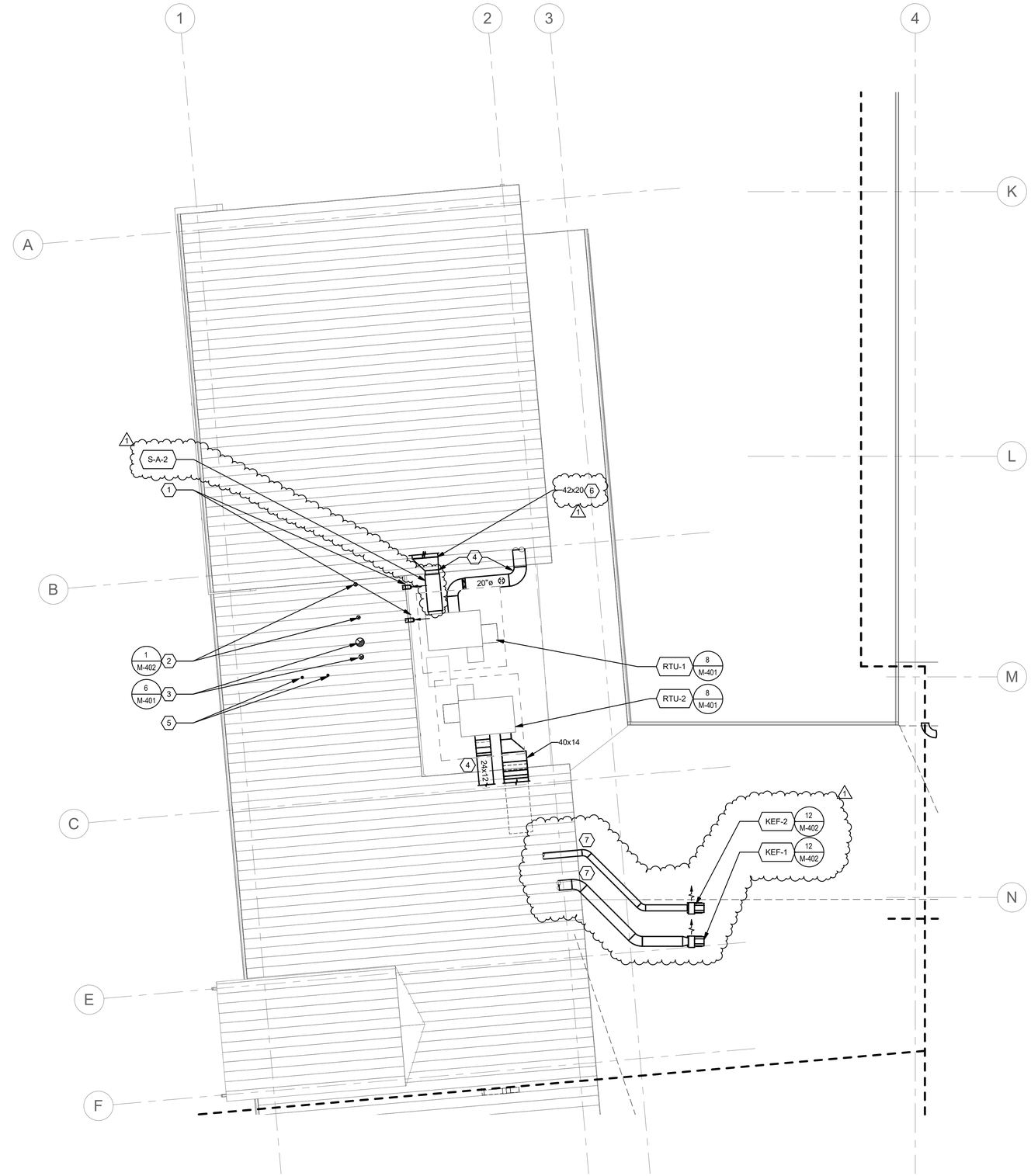
M-101D

Scale **1/8" = 1'-0"**

11/6/2019 8:51:16 AM

SHEET KEYNOTES

1. BOILER COMBUSTION INTAKE THROUGH SIDEWALL OF ROOFWELL. SIZE AND TERMINATE PER BOILER MANUFACTURER'S REQUIREMENTS.
2. BOILER FLUE UP THRU SLOPED ROOF. SIZE AND TERMINATE PER BOILER MANUFACTURER'S REQUIREMENTS.
3. EXHAUST DUCT UP THROUGH SLOPED ROOF FROM BELOW. TERMINATE WITH A RAIN CAP.
4. ROUTE SUPPLY AND RETURN AIR DUCTWORK THROUGH SIDEWALL OF ROOF OVERHANG INTO THE BUILDING. SEE M-101A FOR CONTINUATION.
5. DOMESTIC WATER HEATER FLUES THRU ROOF. SIZE AND TERMINATE PER WATER HEATER MANUFACTURER'S REQUIREMENTS. WATER HEATERS BY DIV. 22.
6. INTERNALLY LINE ENTIRE RETURN AIR DUCT SYSTEM.
7. ROUTE EXHAUST DUCT THROUGH SIDEWALL OF ROOF OVERHANG FROM THE KITCHEN BELOW. SEE M-101A FOR CONTINUATION.



1 T.O. PLATE MECHANICAL PLAN - SECTOR A

NORTH

0' 4' 8' 16'

1/8" = 1'-0"

11/5/2019 2:53:07 PM

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

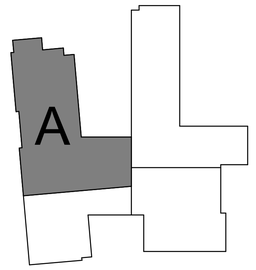
drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM #1 11/8/2019



ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

ROOF PLAN SECTOR A - MECHANICAL

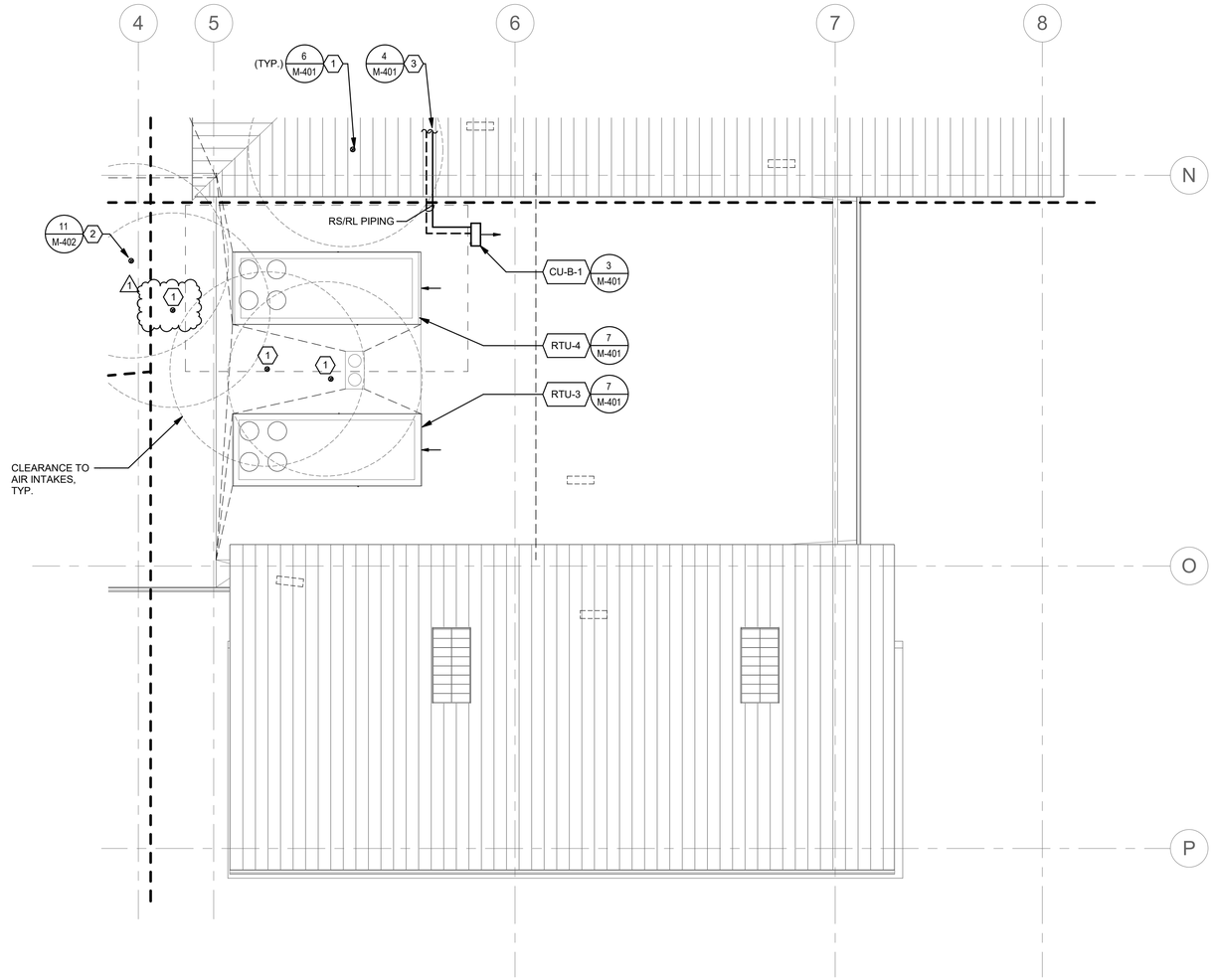
INTERFACE ENGINEERING
PROJECT 2019-0017
CONTACT Cody Bargholz
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

M-121A

Scale **1/8" = 1'-0"**

SHEET KEYNOTES

1. EXHAUST DUCT UP THRU ROOF FROM BELOW. SEE M-101D FOR CONTINUATION. TERMINATE WITH A RAIN CAP.
2. DRYER VENT DUCT UP THRU ROOF FROM BELOW. SEE M-101A FOR CONTINUATION. SIZE AND TERMINATE PER DRYER MANUFACTURER'S REQUIREMENTS.
3. ROUTE RS/RL PIPING DOWN TO FCU-B-1 BELOW. SEE M-101B FOR CONTINUATION.



1 T.O. PLATE MECHANICAL PLAN - SECTOR D

NORTH

0' 4' 8' 16'

1/8" = 1'-0"

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

CODY ROSS BARGHOLZ — STATE OF WASHINGTON — 22480 — REGISTERED PROFESSIONAL ENGINEER

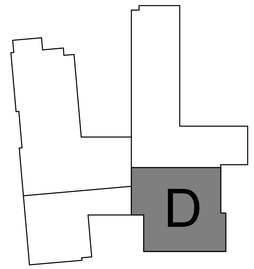
drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM #1 11/8/2019



ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

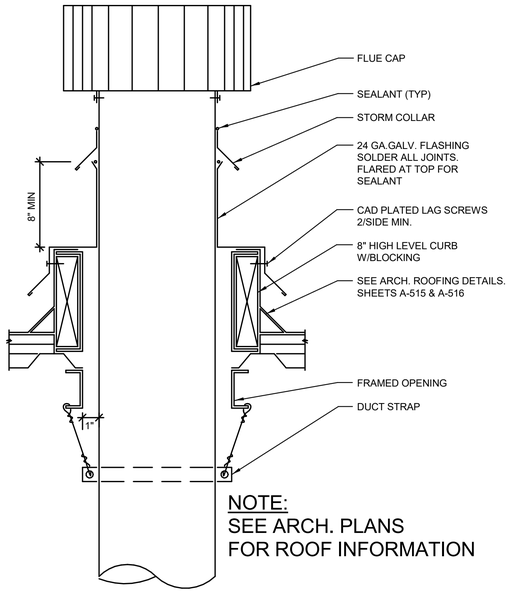
ROOF PLAN SECTOR D - MECHANICAL

INTERFACE ENGINEERING
PROJECT 2019-0017
CONTACT Cody Bargholz
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

M-121D

Scale **1/8" = 1'-0"**

11/5/2019 2:53:09 PM



NOTE:
SEE ARCH. PLANS
FOR ROOF INFORMATION

1 BOILER FLUE THRU ROOF

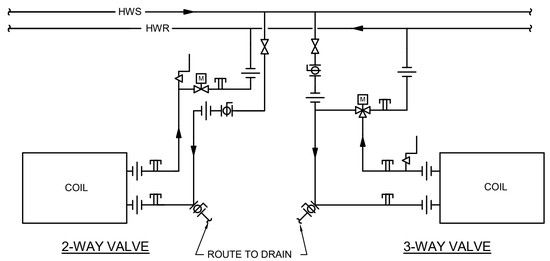
NO SCALE

GENERAL DETAIL NOTES

A. TWO-WAY VALVES TYPICAL. USE THREE-WAY VALVES WHERE NOTED.

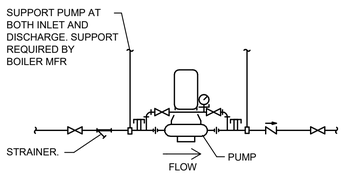
B. TYPICAL FOR AIR HANDLER UNITS & REHEAT COILS.

C. CONTROL VALVES TO BE PRESSURE INDEPENDENT TYPE.



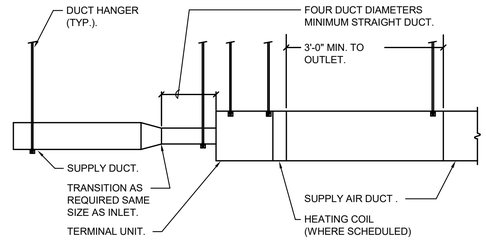
2 HEATING COIL PIPING

NO SCALE



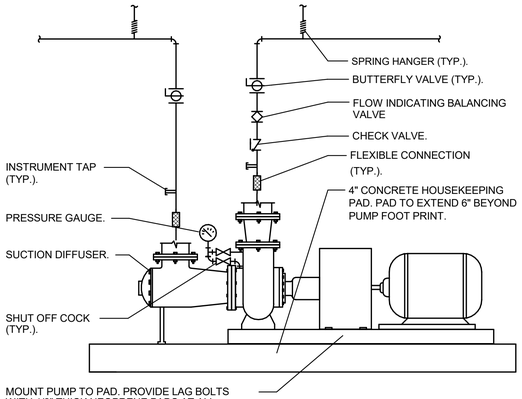
3 BOILER PUMP

NO SCALE



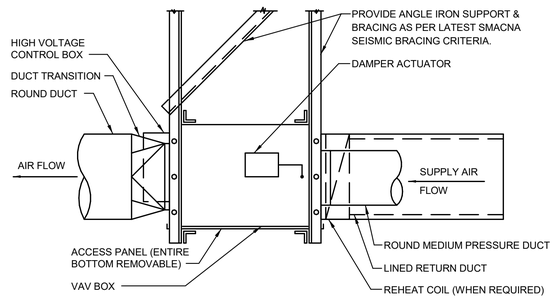
9 TERMINAL UNIT

NO SCALE



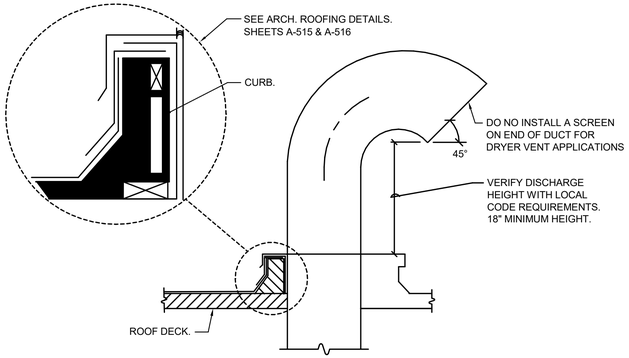
7 BASE MOUNTED PUMP

NO SCALE



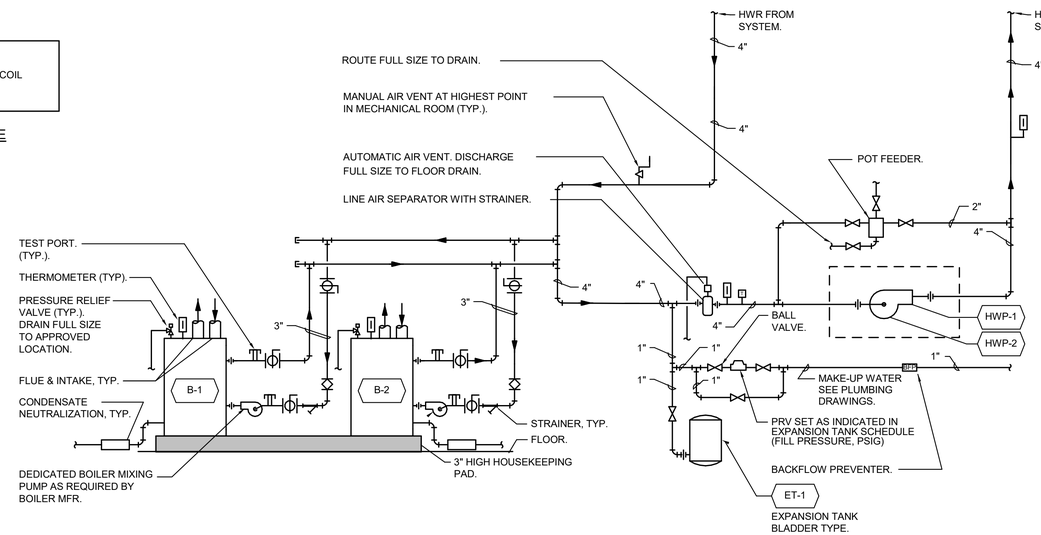
10 FAN POWERED VAV TERMINAL UNIT

NO SCALE



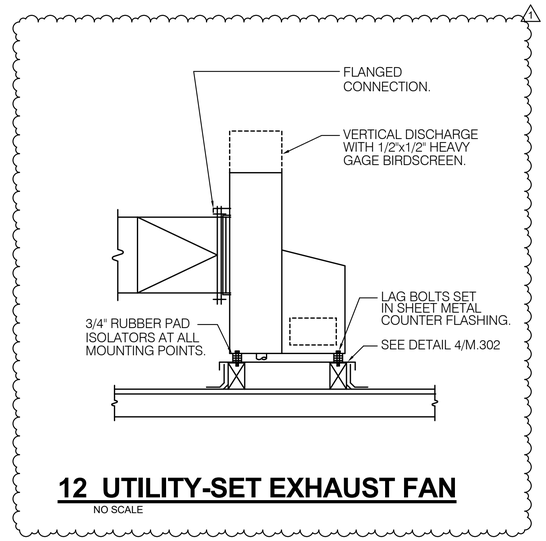
11 GOOSENECK FITTING

NO SCALE



4 BOILER PIPING DIAGRAM

NO SCALE



12 UTILITY-SET EXHAUST FAN

NO SCALE

11/5/2019 2:53:09 PM

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
BID/PERMIT SET

revisions

1	ADDENDUM #1	11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

DETAILS - MECHANICAL

INTERFACE ENGINEERING
PROJECT 2019-0017
CONTACT Steve Dacus
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

M-402

Scale **12" = 1'-0"**

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE TYPE	DESCRIPTION	BASIS OF DESIGN			CONNECTION				NOTES
			MFR	MODEL	ACCESSORIES	W	V	CW	HW	
DF-1	DRINKING FOUNTAIN/BOTTLE FILLER	WALL MOUNTED, BI-LEVEL, NON-REFRIGERATED, LIGHT GRAY, FRONT/SIDE BUBBLER PUSHBUTTONS, ELECTRONIC BOTTLE FILLER.	ELKAY	LZSTLDDWSLK		2"	1-1/2"	1/2"	--	VERIFY RIGHT OR LEFT HAND LOW BOWL CONFIGURATION
DSN-1	DOWNSPOUT NOZZLE	NICKEL BRONZE BODY, DECORATIVE FLANGE AND OUTLET NOZZLE	ZURN	Z199		4"	--	--	--	INSTALL AT 18" ABOVE OUTSIDE FINISHED GRADE
FD-1	FLOOR DRAIN (FINISHED FLOORS / SHOWERS)	CAST IRON BODY, FLASHING COLLAR, 6-INCH ADJUSTABLE NICKEL BRONZE STRAINER HEAD, TRAP PRIMER, VANDAL PROOF TOP	JR SMITH	2005Y-A-06-U-NB	PROVIDE PRIMER TAP ON P-TRAP	3"	2"	--	--	
FD-2	FLOOR DRAIN (UNFINISHED FLOORS / MECHANICAL ROOMS)	CAST IRON BODY, FLASHING COLLAR, 8-1/2-INCH ROUND ADJUSTABLE TOP, BAR GRATE, SEDIMENT BUCKET, TRAP PRIMER	JR SMITH	2350Y	PROVIDE PRIMER TAP ON P-TRAP	3"	2"	--	--	
FS-1	FLOOR SINK	CAST IRON FLANGED RECEPTOR, SEEPAGE HOLES, ACID RESISTANT COATED INTERIOR, NICKEL BRONZE RIM, 1/2-GRATE, ALUMINUM DOME BOTTOM STRAINER, 10-INCH DEEP	JR SMITH	3160Y-12	PROVIDE PRIMER TAP ON P-TRAP	4"	2"	--	--	
IMB-1	ICE MAKER OUTLET BOX	FIRE RATED ABS BOX/FRAME, NO-LEAD VALVES WITH WATER HAMMER ARRESTORS	SIOUX CHIEF	696RG1010MF		--	--	1/2"	--	
L-1	LAVATORY	WALL MOUNTED, VITREOUS CHINA, 3-HOLE PUNCH, 4-INCH CENTERS, FRONT OVERFLOW	AMERICAN STANDARD	355.012	FAUCET (SINGLE TEMP METERING): AMERICAN STANDARD 1340.107, PROVIDE POINT-OF-USE THERMOSTATIC MIXING VALVE (SEE PLUMBING DEVICES SCHEDULE - PMV-1)	2"	1-1/2"	1/2"	1/2"	
MS-1	MOP SINK	FLOOR MOUNTED, TERRAZZO, 24-INCHES X 24-INCHES X 10-INCHES	STERN WILLIAMS	MTB-2424	FAUCET (MOP SINK): CHICAGO 540-LD897SWXFABCP (PROVIDE WITH CHICAGO GCJKABCP INTEGRAL CHECKS) VINYL BUMPER GUARDS, MOP HANGER & SPLASH PANELS	3"	2"	1/2"	1/2"	
OD-1	ROOF DRAIN (OVERFLOW DRAIN)	LARGE AREA, EPOXY COATED CAST IRON BODY WITH FLANGE, FLASHING RING WITH GRAVEL STOP, UNDER DECK CLAMP, EXTENSION, SUMP RECEIVER, 2-INCH WATER DAM, ALUMINUM DOME	JR SMITH	1080-AD-C-E-R-Y		4"	--	--	--	STORM DRAIN PIPING SYSTEM SIZED PER UPC TABLE D101.1, CLOSEST CITY PORTLAND OR. WITH A RAINFALL RATE OF 1.3 IN./HR.
RD-1	ROOF DRAIN	LARGE AREA, EPOXY COATED CAST IRON BODY WITH FLANGE, FLASHING RING WITH GRAVEL STOP, UNDER DECK CLAMP, EXTENSION, SUMP RECEIVER, ALUMINUM DOME	JR SMITH	1010-AD-C-E-R-Y		4"	--	--	--	STORM DRAIN PIPING SYSTEM SIZED PER UPC TABLE D101.1, CLOSEST CITY PORTLAND OR. WITH A RAINFALL RATE OF 1.3 IN./HR.
S-1	SINK	DROP IN, SINGLE BOWL, VITREOUS CHINA, 8-INCH CENTERS, 20-3/8-INCHES X 17-3/8-INCHES X 5-5/8-INCHES DEEP, BARRIER FREE	AMERICAN STANDARD	0475.020	FAUCET WITH WRIST BLADE HANDLES, DECK MOUNTED: CHICAGO 201-AGN8AE36-317ABCP, PROVIDE POINT-OF-USE THERMOSTATIC MIXING VALVE (SEE PLUMBING DEVICES SCHEDULE - PMV-1)	2"	1-1/2"	1/2"	1/2"	
S-2	SINK	DROP-IN, DOUBLE BOWL, 18 GAUGE STAINLESS STEEL, 33-INCHES X 19-1/2-INCHES X 6-1/2-INCHES DEEP, 36-INCH MINIMUM CABINET SIZE, BARRIER FREE	ELKAY	LRADQ331965PD	FAUCET WITH WRIST BLADE HANDLES, DECK MOUNTED: CHICAGO 201-AGN8AE36-317ABCP, PROVIDE POINT-OF-USE THERMOSTATIC MIXING VALVE (SEE PLUMBING DEVICES SCHEDULE - PMV-1)	2"	1-1/2"	1/2"	1/2"	
WC-1	WATER CLOSET	WALL MOUNTED, VITREOUS CHINA, TOP SPUD, FLUSHOMETER, STANDARD MOUNTING HEIGHT	SLOAN	ST-2459	FLUSH VALVE (MANUAL, 1.28 GPF, DIAPHRAGM): SLOANROYAL 111-1.28 SEAT (BARRIER FREE, COMMERCIAL WEIGHT, EXTRA HEAVY-DUTY SOLID PLASTIC WITH STAINLESS STEEL CHECK HINGE): BEMIS 1655SSC-000	4"	2"	1"	--	
WC-2	WATER CLOSET	WALL MOUNTED, VITREOUS CHINA, TOP SPUD, FLUSHOMETER, BARRIER FREE MOUNTING HEIGHT	SLOAN	ST-2459	FLUSH VALVE (MANUAL, 1.28 GPF, DIAPHRAGM): SLOANROYAL 111-1.28 SEAT (BARRIER FREE, COMMERCIAL WEIGHT, EXTRA HEAVY-DUTY SOLID PLASTIC WITH STAINLESS STEEL CHECK HINGE): BEMIS 1655SSC-000	4"	2"	1"	--	
WH-1	WALL HYDRANT	ENCASED, NON-FREEZE, ANTI-SIPHON, AUTOMATIC DRAINING, BRASS FINISH BOX/DOOR ASSEMBLY, DOUBLE CHECK BACKFLOW PREVENTER	WOODFORD	B67-P-BR		--	--	3/4"	--	
WM-1	WASHING MACHINE OUTLET BOX	ABS BOX/FRAME, NO-LEAD VALVES WITH WATER HAMMER ARRESTORS, 1/2" FEMALE SWEAT CONNECTIONS	SIOUX CHIEF	696-G2313MF		2"	1-1/2"	1/2"	1/2"	

SEE ARCHITECTURAL PLANS FOR ALL PLUMBING FIXTURE MOUNTING HEIGHTS AND LOCATIONS

PLUMBING DEVICES SCHEDULE

SYMBOL	FIXTURE TYPE	DESCRIPTION	BASIS OF DESIGN			NOTES
			MFR	MODEL	ACCESSORIES	
CT-1	CONDENSATE NEUTRALIZING TUBE	1.7 GPH FLOW RATE, HORIZONTAL MOUNTING, 2" CLEAR POLYPROPYLENE PRE-CHARGED MAGNESIUM HYDROXIDE PELLET TUBE	JJM BOILER WORKS	CBM225	TUBE CLAMPS	ANCHOR UNI-STRUT TO FLOOR SLAB AND ATTACH TUBE USING MANUFACTURER SUPPLIED TUBE CLAMPS. ROUTE CHEMICAL RESISTANT DRAIN PIPING, FULL SIZE, FROM EQUIPMENT TO TUBE AND DRAIN PIPING FROM TUBE TO INDIRECT DISCHARGE AT FLOOR DRAIN.
CT-2	CONDENSATE NEUTRALIZING TUBE	16 GPH FLOW RATE, HORIZONTAL MOUNTING, 4" PVC PRE-CHARGED MAGNESIUM HYDROXIDE PELLET TUBE	JJM BOILER WORKS	JM-20	CHANNEL STRUT MOUNTS, STRUT CLAMPS	ANCHOR CHANNEL TO FLOOR SLAB AND ATTACH TUBE USING MANUFACTURER SUPPLIED STRUT CLAMPS. ROUTE CHEMICAL RESISTANT DRAIN PIPING, FULL SIZE, FROM EQUIPMENT TO TUBE AND DRAIN PIPING FROM TUBE TO INDIRECT DISCHARGE AT FLOOR DRAIN.
ET-1	DOMESTIC WATER EXPANSION TANK - ASME	14 GALLON CAPACITY, WELDED STEEL CONSTRUCTION, HEAVY-DUTY BUTYL DIAPHRAGM, SEPERATE REGID POLYPROPYLENE-LINED WATER RESERVOIR, AIR-CHARGING VALVE, ASME CERTIFIED.	AMTROL	ST-30VC		
GI-1	GREASE INTERCEPTOR	1,000 GALLON, PRE-CAST CONCRETE	COLUMBIA PRE-CAST	577		
MMV-1	MASTER MIXING VALVE	FULL PACKAGE SYSTEM WITH HIGH/LOW FLOW MIXING VALVES, GAUGES, VALVES, UNIONS AND OTHER CONNECTIONS, EXPOSED. 1 GPM TO 72 GPM AT 10 PSI MAX FALLOFF. SYSTEM PEAK = 62 GPM AT 9 PSI FALLOFF.	LEONARD	TM-186-15020-PRV		
PMV-1	POINT-OF-USE MIXING VALVE	THERMOSTATIC MIXING VALVE. ASSE 1070 COMPLIANT, INTEGRAL CHECK VALVE. LEAD FREE	WATTS	LFMMV		SET OUTLET TEMPERATURE TO 120ºF
WHA-1	WATER HAMMER ARRESTOR	PISTON TYPE WATER HAMMER ARRESTOR, TYPE 'L' HARD DRAWN COPPER BARREL, EPDM O-RINGS, MAINTENANCE FREE	PRECISION PLUMBING PRODUCTS	SC SERIES		SIZE PER PDI STANDARDS

WATER HEATER SCHEDULE

SYMBOL	EQUIPMENT TYPE	LOCATION/ SERVING	BASIS OF DESIGN		TANK CAPACITY (GALLONS)	GAS DATA INPUT (MBH)	RECOVERY RATE (GPH)	ELECTRICAL			MAX WT (LBS)	NOTES
			MFR	MODEL				VOLTS	PH	AMPS		
GWH-1	HIGH EFFICIENCY (95%) NATURAL GAS FIRED WATER HEATER	MECH RM 104/DOM. HW	AO SMITH	BTH-120	100	120	214	120	1	15	1390	
GWH-2	HIGH EFFICIENCY (95%) NATURAL GAS FIRED WATER HEATER	MECH RM 104/DOM. HW	AO SMITH	BTH-120	100	120	214	120	1	15	1390	

PLUMBING PUMP SCHEDULE

SYMBOL	EQUIPMENT TYPE	LOCATION/ SERVING	BASIS OF DESIGN		FLOW RATE (GPM)	HEAD (FT H2O)	ELECTRICAL				NOTES
			MFR	MODEL			VOLTS	PH	AMPS	HP	
CP-1	DOMESTIC HOT WATER CIRCULATION PUMP	MECH RM 121/BLDG. DOM. HW	GRUNDFOS	UPS 15-58	6	12.00	115	1	0.75	1/25	
CP-2	DOMESTIC HOT WATER CIRCULATION PUMP	MECH RM 121/BLDG. DOM. HW	GRUNDFOS	UPS 15-58	6	12.00	115	1	0.75	1/25	
CP-3	DOMESTIC HOT WATER CIRCULATION PUMP	MECH RM 112/KITCHEN DOM. HW	GRUNDFOS	UPS 15-10	1	5.00	115	1	0.23	1/25	
CP-4	DOMESTIC HOT WATER CIRCULATION PUMP	MECH RM 112/KITCHEN DOM. HW	GRUNDFOS	UPS 15-10	1	5.00	115	1	0.23	1/25	

MISCELLANEOUS PLUMBING EQUIPMENT SCHEDULE

SYMBOL	EQUIPMENT TYPE	LOCATION/SERVING	BASIS OF DESIGN		ELECTRICAL				NOTES
			MFR	MODEL	VOLTS	PH	AMPS	HP	
TP-1	ELECTRONIC TRAP PRIMER	SEE FLOOR PLANS/SAN TRAPS	PRECISION PLUMBING PRODUCTS	MP-500	120	1	6.3	--	INSTALL WITH CONTROLLER IN AN ACCESSIBLE LOCATION

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM #1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

SCHEDULES - PLUMBING

INTERFACE ENGINEERING
PROJECT 2019-0017
CONTACT Tracy Bethel
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

P-002
Scale

11/5/2019 3:21:36 PM



1 LEVEL 1 FLOOR PLAN SECTOR A - PLUMBING

NORTH

0' 4' 8' 16'

1/8" = 1'-0"

SHEET KEYNOTES

1. 1/2" HOT & COLD WATER DOWN, 2" SANITARY SEWER DOWN, 1-1/2" VENT UP. ROUTE 1/2" HOT WATER SUPPLY PIPING TO CONNECTION WITH DISHWASHER. ROUTE DISHWASHER DRAIN TO CONNECTION WITH SINK TAILPIECE UTILIZING A FIXED AIR GAP FITTING.
2. SET BALANCING VALVE AT 0.5 GPM FLOW RATE.
3. PROVIDE DRINKING FOUNTAIN (DF-1) WITH CANE APRON AT THIS LOCATION (ELKAY MODEL LKAPREZL OR APPROVED EQUAL).

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

drawn by
Author
checked by
Checker

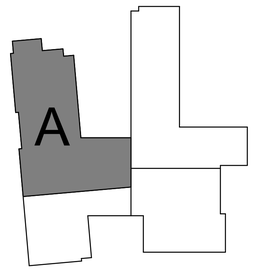
lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA, 98661

issue date
10/15/2019
BID/PERMIT SET

revisions

1	ADDENDUM #1	11/8/2019



ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

LEVEL 1 FLOOR PLAN SECTOR A - PLUMBING

INTERFACE ENGINEERING
PROJECT 2019-0017
CONTACT Tracy Bethel
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

P-101A

Scale **1/8" = 1'-0"**

11/5/2019 3:52:14 PM

GENERAL NOTES

THESE GENERAL NOTES ARE TO BE USED AS A SUPPLEMENT TO THE SPECIFICATIONS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATIONS, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK. THE GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE DIMENSIONS AMONG ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION. THE STRUCTURE HAS BEEN DESIGNED TO RESIST CODE SPECIFIED VERTICAL AND LATERAL FORCES AFTER THE CONSTRUCTION OF ALL STRUCTURAL ELEMENTS HAS BEEN COMPLETED. STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THIS RESPONSIBILITY INCLUDES BUT IS NOT LIMITED TO JOB SITE SAFETY; ERECTION MEANS, METHODS, AND SEQUENCES; TEMPORARY SHORING, FORMWORK, BRACING; USE OF EQUIPMENT AND CONSTRUCTION PROCEDURES. PROVIDE ADEQUATE RESISTANCE TO LOADS ON THE STRUCTURES DURING CONSTRUCTION PER SEI/ASCE STANDARD NO. 37-14 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION."

CONSTRUCTION OBSERVATION BY THE STRUCTURAL ENGINEER IS FOR GENERAL CONFORMANCE WITH DESIGN ASPECTS ONLY AND IS NOT INTENDED IN ANY WAY TO REVIEW THE CONTRACTOR'S CONSTRUCTION PROCEDURES.

STANDARDS
ALL METHODS, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2015 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED AND ADOPTED BY THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION.

CONTRACT DRAWINGS / DIMENSIONS

ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. CONSULTANT DRAWINGS BY OTHER DISCIPLINES ARE SUPPLEMENTARY TO ARCHITECTURAL DRAWINGS. REPORT DIMENSIONAL OMISSIONS OR DISCREPANCIES BETWEEN ARCHITECTURAL DRAWINGS AND STRUCTURAL, MECHANICAL, ELECTRICAL OR CIVIL DRAWINGS TO ARCHITECT PRIOR TO PROCEEDING WITH WORK.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS. PRIMARY STRUCTURAL ELEMENTS ARE DIMENSIONED ON STRUCTURAL PLANS AND DETAILS AND OVERALL LAYOUT OF STRUCTURAL PORTION OF WORK. SOME SECONDARY ELEMENTS ARE NOT DIMENSIONED, SUCH AS WALL CONFIGURATIONS, INCLUDING EXACT DOOR AND WINDOW LOCATIONS, ALCOVES, SLAB SLOPES AND DEPRESSIONS, CURBS, ETC. VERTICAL DIMENSIONAL CONTROL IS DEFINED BY ARCHITECTURAL WALL SECTIONS AND BUILDING SECTIONS. STRUCTURAL DETAILS SHOW DIMENSIONAL RELATIONSHIPS TO CONTROL DIMENSIONS DEFINED BY ARCHITECTURAL DRAWINGS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN **BOTH** ARCHITECTURAL AND STRUCTURAL DRAWINGS.

DESIGN CRITERIA

VERTICAL LOADS

AREA	DESIGN DEAD LOAD	LIVE LOAD	CONCENTRATED LOADS
ROOF	20 PSF	25 PSF (1)	300#

(1) DRIFT AND UNBALANCED SNOW LOAD PER ASCE 7-10, CHAPTER 7.

SNOW: (MINIMUM ROOF SNOW LOAD = 25 PSF)
Pg = 25 PSF = GROUND SNOW LOAD
Pf = 0.7CeCtIsPg = FLAT ROOF SNOW LOAD
Ps = CsPf = SLOPED ROOF SNOW LOAD
Is = 1.1, Ce = 1.0, Ct = 1.0, Cs = VARIES

LATERAL FORCES

LATERAL FORCES ARE TRANSMITTED BY DIAPHRAGM ACTION OF ROOF AND FLOORS TO SHEAR WALLS. LOADS ARE THEN TRANSFERRED TO FOUNDATION BY SHEAR WALL ACTION WHERE ULTIMATE DISPLACEMENT IS RESISTED BY PASSIVE PRESSURE OF EARTH AND/OR SLIDING FRICTION. OVERTURNING IS RESISTED BY DEAD LOAD OF THE STRUCTURE.

WIND:

THE BUILDING MEETS THE CRITERIA TO USE THE "METHOD 2 - SIMPLIFIED ENVELOPE PROCEDURE" PER ASCE 7-10.

- EXPOSURE CATEGORY = B
- BASIC WIND SPEED, (3 SEC. GUST), V_{ULT} = 150 MPH; V_{ASD} = 116 MPH
- RISK CATEGORY PER TABLE 1.5-1 = III
- TOPOGRAPHIC FACTOR K_{ZT} = 1.0
- INTERNAL PRESSURE COEFFICIENT (ENCLOSED) = ± 0.18
- COMPONENTS AND CLADDING LOADS, SEE THE FOLLOWING TABLES:

ROOF SURFACES [1]						
EFFECTIVE WIND AREA	POSITIVE PRESSURES (PSF)			NEGATIVE PRESSURES (PSF)		
	ZONE [2]					
	1	2	3	1	2	3
10 SF	23.3	23.3	23.3	-37.0	-64.5	-95.4
20 SF	21.3	21.3	21.3	-36.0	-59.3	-89.2
50 SF	18.5	18.5	18.5	-34.6	-52.5	-81.0
100 SF	16.5	16.5	16.5	-33.6	-47.3	-74.8

WALL SURFACES AND ROOF OVERHANGS [1]						
EFFECTIVE WIND AREA	POSITIVE PRESSURE (PSF)		NEGATIVE PRESSURE (PSF)		ROOF OVERHANGS (PSF)	
	ZONE [2]					
	4	5	4	5	2	3
10 SF	40.5	40.5	-43.9	-54.2	-75.5	-126.9
20 SF	38.7	38.7	-42.1	-50.2	-75.5	-114.5
50 SF	36.2	36.2	-39.7	-45.7	-75.5	-98.1
100 SF	34.4	34.4	-37.8	-42.1	-75.5	-85.8
500 SF	30.2	30.2	-33.6	-33.6	-75.5	-85.8

1. VALUES SHOWN IN TABLE ARE GROSS ULTIMATE WIND PRESSURES.
2. ZONES ARE AS DEFINED BY FIGURE 30.5-1 IN ASCE 7-10.

SEISMIC: (ASCE 7-10) V = CsW

WHERE $Cs = \frac{S_{DS}}{(\frac{R}{Ie})}$; WITH

Cs MINIMUM = 0.044 $S_{DS}I_E \geq 0.01$
OR
Cs MINIMUM = $\frac{0.5S_1}{\frac{R}{Ie}}$ FOR $S_1 > 0.6g$

Cs MAXIMUM = $\frac{S_{D1}}{T(\frac{R}{Ie})}$ FOR $T \leq T_L$
OR
Cs MAXIMUM = $\frac{S_{D1}T_L}{T^2(\frac{R}{Ie})}$ FOR $T > T_L$

SEISMIC IMPORTANCE FACTOR, Ie = 1.25
RISK CATEGORY OF BUILDING PER TABLE 1.5-1 = III
SPECTRAL RESPONSE ACCELERATIONS S_S = 0.93 & S_1 = 0.40
SITE CLASS PER TABLE 20.3-1 = C
DESIGN SPECTRAL RESPONSE ACCELERATIONS S_{DS} = 0.64 & S_{D1} = 0.38
SEISMIC DESIGN CATEGORY = D
W = EFFECTIVE SEISMIC WEIGHT OF BUILDING = 753k
ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE PROCEDURE
RESPONSE MODIFICATION FACTOR PER TABLE 12.2-1, R = 6.5
Cs = 0.122
DESIGN BASE SHEAR V = 91.9k

PIPES, DUCTS AND MECHANICAL EQUIPMENT SUPPORTED OR BRACED FROM STRUCTURE. CONFORM TO SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION, INC. PUBLICATION "SEISMIC RESTRAINT MANUAL: GUIDELINES FOR MECHANICAL SYSTEMS". SPRINKLER LINE ATTACHMENTS SHALL CONFORM TO NFPA PAMPHLET 13.

FOUNDATION DESIGN CRITERIA (SEE GEOTECHNICAL REPORT BY GEODESIGN INC. DATED SEPTEMBER 3, 2015.)

SOIL BEARING PRESSURE: 3000 PSF

ACTIVE PRESSURE: 35 PCF
PASSIVE RESISTANCE: 350 PCF (INCLUDES F.O.S. ≥ 1.5)
COEFFICIENT OF FRICTION: .35 (INCLUDES F.O.S. ≥ 1.5)
*1/3 INCREASE ALLOWED FOR SEISMIC OR WIND LOADING

ALL FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED EARTH OR "STRUCTURAL BACKFILL". NATIVE EARTH BEARING SHALL BE SURFACE COMPACTED. AREAS OVER-EXCAVATED SHALL BE BACKFILLED WITH LEAN CONCRETE (F'c= 2000 PSI) OR "STRUCTURAL BACKFILL". AREAS DESIGNATED "STRUCTURAL BACKFILL" SHALL BE FILLED WITH APPROVED WELL-GRADED BANKRUN MATERIAL. MAXIMUM SIZE OF ROCK 4". FROZEN SOIL, ORGANIC MATERIAL AND DELETERIOUS MATTER NOT ALLOWED. COMPACT TO AT LEAST 95% OF ITS MAXIMUM DENSITY AS DETERMINED BY ASTM D1557. CONTRACTOR SHALL EXERCISE EXTREME CARE DURING EXCAVATION TO AVOID DAMAGE TO BURIED LINES, TANKS, AND OTHER CONCEALED ITEMS. UPON DISCOVERY, DO NOT PROCEED WITH WORK UNTIL RECEIVING WRITTEN INSTRUCTIONS FROM ARCHITECT. A COMPETENT REPRESENTATIVE OF THE OWNER SHALL INSPECT ALL FOOTING EXCAVATIONS FOR SUITABILITY OF BEARING SURFACES PRIOR TO PLACEMENT OF REINFORCING STEEL. PROVIDE DRAINAGE AND DEWATERING AROUND ALL WORK TO AVOID WATER-SOFTENED FOOTINGS.

CONCRETE

MIX DESIGNS: THE CONTRACTOR SHALL DESIGN CONCRETE MIXES THAT MEET OR EXCEED THE REQUIREMENTS OF THE CONCRETE MIX TABLE. THE MIX DESIGNS SHALL FACILITATE ANTICIPATED PLACEMENT METHODS, WEATHER, REBAR CONGESTION, ARCHITECTURAL FINISHES, CONSTRUCTION SEQUENCING, STRUCTURAL DETAILS, AND ALL OTHER FACTORS REQUIRED TO PROVIDE A STRUCTURALLY SOUND, AESTHETICALLY ACCEPTABLE FINISHED PRODUCT. WATER REDUCING ADMIXTURES WILL LIKELY BE REQUIRED TO MEET THESE REQUIREMENTS. CONCRETE MIX DESIGNS SHALL CLEARLY INDICATE THE TARGET SLUMP. SLUMP TOLERANCE SHALL BE ± 1-1/2 INCHES.

AGGREGATE: COARSE AND FINE AGGREGATE SHALL CONFORM TO ASTM C33

CEMENT: CEMENT SHALL CONFORM TO ASTM C150, TYPE II PORTLAND CEMENT, UNLESS NOTED OTHERWISE.

FLYASH: SHALL CONFORM TO ASTM C618 CLASS C OR F, MAXIMUM LOSS OF IGNITION SHALL BE 1.0%.

SLAG: GROUND GRANULATED BLAST-FURNACE (GGBF) SLAG SHALL CONFORM TO ASTM C989 GRADE 100 OR 120.

ALTERNATE MIX DESIGNS: VARIATIONS TO THE MIX DESIGN PROPORTIONS MAY BE ACCEPTED IF SUBSTANTIATED IN ACCORDANCE WITH ACI 318, CHAPTER 19. PROVIDE SUBMITTALS A MINIMUM OF TWO WEEKS PRIOR TO BID FOR DETERMINATION OF ACCEPTABILITY.

ADMIXTURES: ADMIXTURES SHALL BE BY MASTER BUILDERS, W.R. GRACE, OR PRE-APPROVED EQUAL. ALL MANUFACTURER'S RECOMMENDATIONS SHALL BE FOLLOWED.

WATER: SHALL BE CLEAN AND POTABLE.

MAXIMUM CHLORIDE CONTENT: THE MAXIMUM WATER SOLUBLE CHLORIDE CONTENT SHALL NOT EXCEED 0.15% BY WEIGHT OF CEMENTITIOUS MATERIAL UNLESS NOTED OTHERWISE.

CONCRETE EXPOSED TO WEATHER: PROVIDE 5.0% TOTAL AIR CONTENT FOR ALL CONCRETE EXPOSED TO WEATHER. TOTAL AIR CONTENT IS THE SUM OF ENTRAINED AIR PROVIDED BY ADMIXTURES AND NATURALLY OCCURRING ENTRAPPED AIR. AIR CONTENT SHALL BE TESTED PRIOR TO BEING PLACED IN THE PUMP HOPPER OR BUCKET; IT IS NOT REQUIRED TO BE TESTED AT THE DISCHARGE END OF THE PUMP HOSE. THE TOLERANCE ON ENTRAPPED AIR SHALL BE +2.0% AND -1.5% WITH THE AVERAGE OF ALL TESTS NOT LESS THAN THE SPECIFIED AMOUNT.

TOTAL CEMENTITIOUS MATERIAL: THE SUM OF ALL CEMENT PLUS FLYASH AND SLAG. AT THE CONTRACTORS OPTION FLYASH OR SLAG MAY BE SUBSTITUTED FOR CEMENT BUT SHALL NOT EXCEED 25% BY WEIGHT OF TOTAL CEMENTITIOUS MATERIAL. IN NO CASE SHALL THE AMOUNT OF FLYASH OR SLAG BE LESS THAN REQUIRED BY THE CONCRETE MIX DESIGN TABLE. FOOTING MIXES SHALL CONTAIN NOT LESS THAN **5 SACKS** OF CEMENTITIOUS MATERIAL PER CUBIC YARD, ALL OTHER MIXES SHALL CONTAIN NOT LESS THAN **5-1/2 SACKS** OF CEMENTITIOUS MATERIAL PER CUBIC YARD, UNLESS NOTED OTHERWISE.

ITEM	DESIGN f'c (PSI) (AT 28 DAYS U.N.O.)	MAX. W/C RATIO	MIN. FLYASH OR SLAG (PCY)	AGGREGATE GRADING ASTM AASHTO	NOTES
SLAB ON GRADE - EXPOSED TO WEATHER	5000	0.38	100	57 OR 67	1
SLABS ON GRADE - UNO	4000	0.38	100	57 OR 67	1
ARCHITECTURALLY EXPOSED SLABS ON GRADE	4000	0.38	100	57 OR 67	1, 2, 3
FOUNDATIONS - UNO	3000	0.50	--	57 OR 67	
STEM WALLS AND OTHER WALLS EXPOSED TO EARTH OR WEATHER	4500	0.45	100	57 OR 67	
STEM WALLS AND OTHER WALLS - UNO	4000	0.50	100	57 OR 67	
ALL OTHER CONCRETE	4000	0.50	--	57 OR 67	

CONCRETE MIX NOTES:

1. FIBROUS CONCRETE REINFORCEMENT SHALL BE "FIBERMESH" MANUFACTURED BY W.R. GRACE & CO. AND SHALL CONFORM TO ASTM C1116 TYPE III 4.1.3, PERFORMANCE LEVEL 1, AND SHALL BE 100 PERCENT VIRGIN POLYPROPYLENE, FIBRILLATED FIBERS CONTAINING NO REPROCESSED OLEFIN MATERIALS AND SPECIFICALLY MANUFACTURED FOR USE AS CONCRETE SECONDARY REINFORCEMENT. DOSAGE SHALL FOLLOW MANUFACTURER'S RECOMMENDATION BUT NOT LESS THAN 1.5 LB/CU. YD.
2. MAXIMUM WATER CONTENT 240 PCY.
3. THIS MIX SHALL CONTAIN 1 GALLON PER CY OF 'ECLIPSE' SHRINKAGE REDUCING ADD MIXTURE BY W.R. GRACE OR APPROVED ALTERNATE. FOR CONCRETE REQUIRING AN AIR ENTRAINMENT ADMIXTURE, 'ECLIPSE PLUS' SHALL BE USED.

CONCRETE PLACEMENT

PLACE CONCRETE FOLLOWING ALL APPLICABLE ACI RECOMMENDATIONS. CONCRETE SHALL BE PROPERLY CONSOLIDATED PER ACI 309 USING INTERIOR MECHANICAL VIBRATORS, DO NOT OVER-VIBRATE. CONCRETE SHALL BE POURED MONOLITHICALLY BETWEEN CONSTRUCTION OR EXPANSION JOINTS. IF CONCRETE IS PLACED BY THE PUMP METHOD, HORSES SHALL BE PROVIDED TO SUPPORT THE HOSE, THE HOSE SHALL NOT BE ALLOWED TO RIDE ON THE REINFORCING. WEATHER FORECASTS SHALL BE MONITORED AND ACI RECOMMENDATIONS FOR HOT AND COLD WEATHER CONCRETING SHALL BE FOLLOWED AS REQUIRED. CONCRETE SHALL NOT FREE FALL MORE THAN 5 FEET DURING PLACEMENT WITHOUT WRITTEN APPROVAL OF STRUCTURAL ENGINEER.

CONTROL AND CONSTRUCTION JOINTS

CONSTRUCTION JOINTS SHALL MEET THE REQUIREMENTS OF ACI 301 SECTIONS 2.2.2.5 AND 5.3.2.6. SPECIAL BONDING METHODS PER SECTION 5.3.2.6 SHALL BE SATISFIED BY ITEM 2 BELOW. WHERE CONSTRUCTION JOINTS ARE NOT SHOWN ON PLAN OR ADDITIONAL CONSTRUCTION JOINTS ARE REQUIRED SUBMIT PROPOSED JOINTING FOR STRUCTURAL ENGINEERS APPROVAL. PROVIDE CONSTRUCTION JOINTS AS INDICATED BELOW UNLESS NOTED OTHERWISE ON THE PLANS:

1. SLABS ON GRADE: PROVIDE CONSTRUCTION AND/OR CONTROL JOINTS AT 16 FEET O.C. MAXIMUM FOR UNEXPOSED SLABS ON GRADE AND 12 FEET O.C. FOR EXPOSED SLABS ON GRADE. COORDINATE JOINTS WITH ARCHITECTURAL DRAWINGS.
2. ATTACHMENT OF NEW CONCRETE TO EXISTING: WHERE SHOWN, ROUGHEN CONCRETE TO A MINIMUM AMPLITUDE OF 1/4" USING IMPACT HAMMER. REMOVE ALL LOOSE OR DAMAGED CONCRETE, THOROUGHLY FLUSH ALL SURFACES WITH POTABLE WATER, AIR BLAST WITH OIL FREE COMPRESSED AIR TO REMOVE ALL WATER.

EMBEDDED ITEMS

1. NO ALUMINUM ITEMS SHALL BE EMBEDDED IN ANY CONCRETE.
2. ALL EMBED PLATES SHALL BE SECURELY FASTENED IN PLACE.
3. ALL EMBEDDED STEEL ITEMS EXPOSED TO EARTH SHALL BE GALVANIZED.
4. ALL EMBEDDED STEEL ITEMS EXPOSED TO WEATHER SHALL BE PAINTED UNLESS NOTED AS GALVANIZED. SEE DRAWINGS AND SPECIFICATIONS FOR PAINT, PRIMER, AND GALVANIZING REQUIREMENTS.
5. EMBEDDED CONDUIT IS NOT PERMITTED IN CONCRETE SLABS ON METAL DECK UNLESS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS.

GROUT

NON-SHRINK GROUT: MASTER BUILDERS "MASTERFLOW 928" OR PRE-APPROVED EQUAL. GROUT SHALL CONFORM TO CRD-C621 AND ASTM C1107 WHEN TESTED AT A FLUID CONSISTENCY PER CRD-C611-85 FOR 30 MINUTES. GROUT MAY BE PLACED FROM A 25 SECOND FLOW TO A STIFF PACKING CONSISTENCY. FILL OR PACK ENTIRE SPACE UNDER PLATES OR SHAPES. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR PREPARATION, INSTALLATION, AND CURING.

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

LUKE A. HEATH
STATE OF WASHINGTON
STRUCTURAL ENGINEER

drawn by
DMY
checked by
SJW

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM 1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

GENERAL NOTES

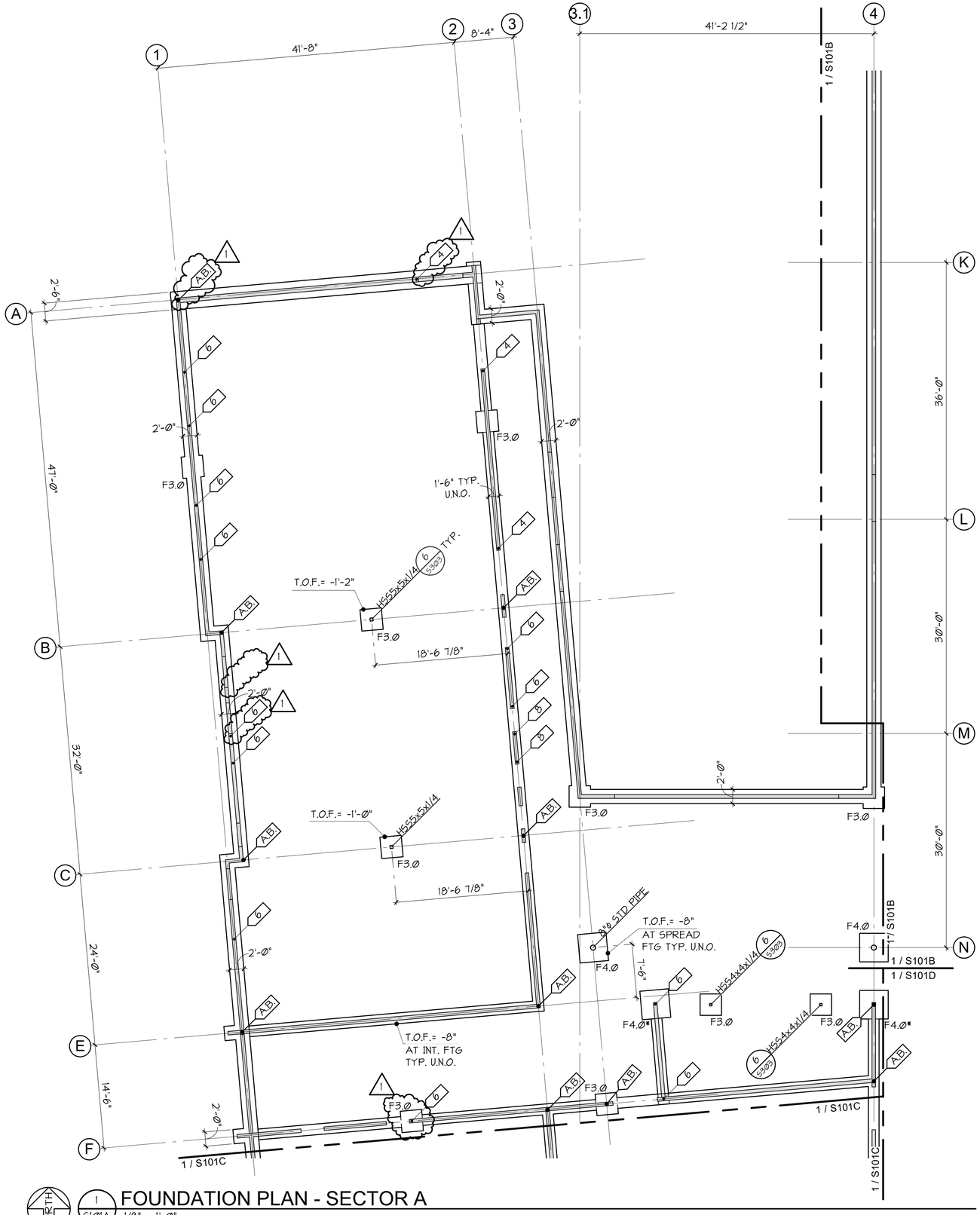
S001

Scale **12" = 1'-0"**

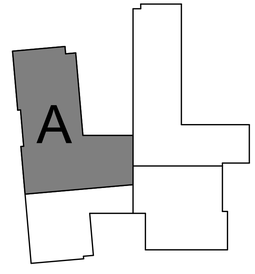
11/6/2019 12:43:19 PM C:_Revit Models\19190 Fir Grove Childrens Center r2019 (Central)_dhome@pcs-structural.com.rvt

FOUNDATION NOTES

1. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
2. REFERENCE ELEVATION - CIVIL 180.00 = ARCHITECTURAL 0'-0".
3. TOP OF SLAB = 0'-0" UNLESS NOTED OTHERWISE.
4. TOP OF FOOTING ELEVATIONS = -1'-2" UNLESS NOTED OTHERWISE ON PLANS AND DETAILS.
5. INDICATES CONCRETE STEM WALL. FOR TOP OF WALL REQUIREMENTS AND CALLOUTS - SEE GRADE LEVEL FRAMING PLANS.
6. INDICATES CONTINUOUS CONCRETE WALL FOOTING. FOR TYPICAL FOOTING AND STEM WALL DETAILS - SEE SHEETS S302 AND S303. FOOTING WIDTH ("W") = 1'-6" UNLESS NOTED OTHERWISE ON PLAN. CENTER FOOTINGS ON CONCRETE STEM WALL. EXTEND FOOTINGS 6" MINIMUM PAST ENDS OF WALL UNLESS NOTED OTHERWISE.
7. "F_" INDICATES CONCRETE SPREAD FOOTING. FOR SCHEDULE - SEE 5/S303.
8. HSS5x5x3/8 INDICATES STEEL COLUMNS ORIGINATING AT FOUNDATION LEVEL. ALL COLUMNS ARE CONTINUOUS TO ROOF UNLESS NOTED OTHERWISE. FOR TYPICAL ANCHOR ROD/BOLT DETAIL - SEE 6/S303.
9. FOR TYPICAL FOUNDATION DETAILS - SEE SHEETS S301, S302, S303, AND S304.
10. FOR TYPICAL PLACEMENT OF STEM WALL REINFORCEMENT, STEPS IN FOOTING, AND FOUNDATION CONSTRUCTION JOINTS - SEE DETAILS 4/S302, 1/S302, AND 5/S302.
9. + INDICATES HOLDOWN - SEE 2/S401 FOR SCHEDULE.
10. A.B. INDICATES ANCHOR RODS EXTENDING INTO FOOTING FROM COLUMN ABOVE - SEE 1/S304.



1 S101A FOUNDATION PLAN - SECTOR A
1/8" = 1'-0"



LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

drawn by
DMY
checked by
SJW

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM 1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

FOUNDATION PLAN - SECTOR A

S101A

Scale 1/8" = 1'-0"

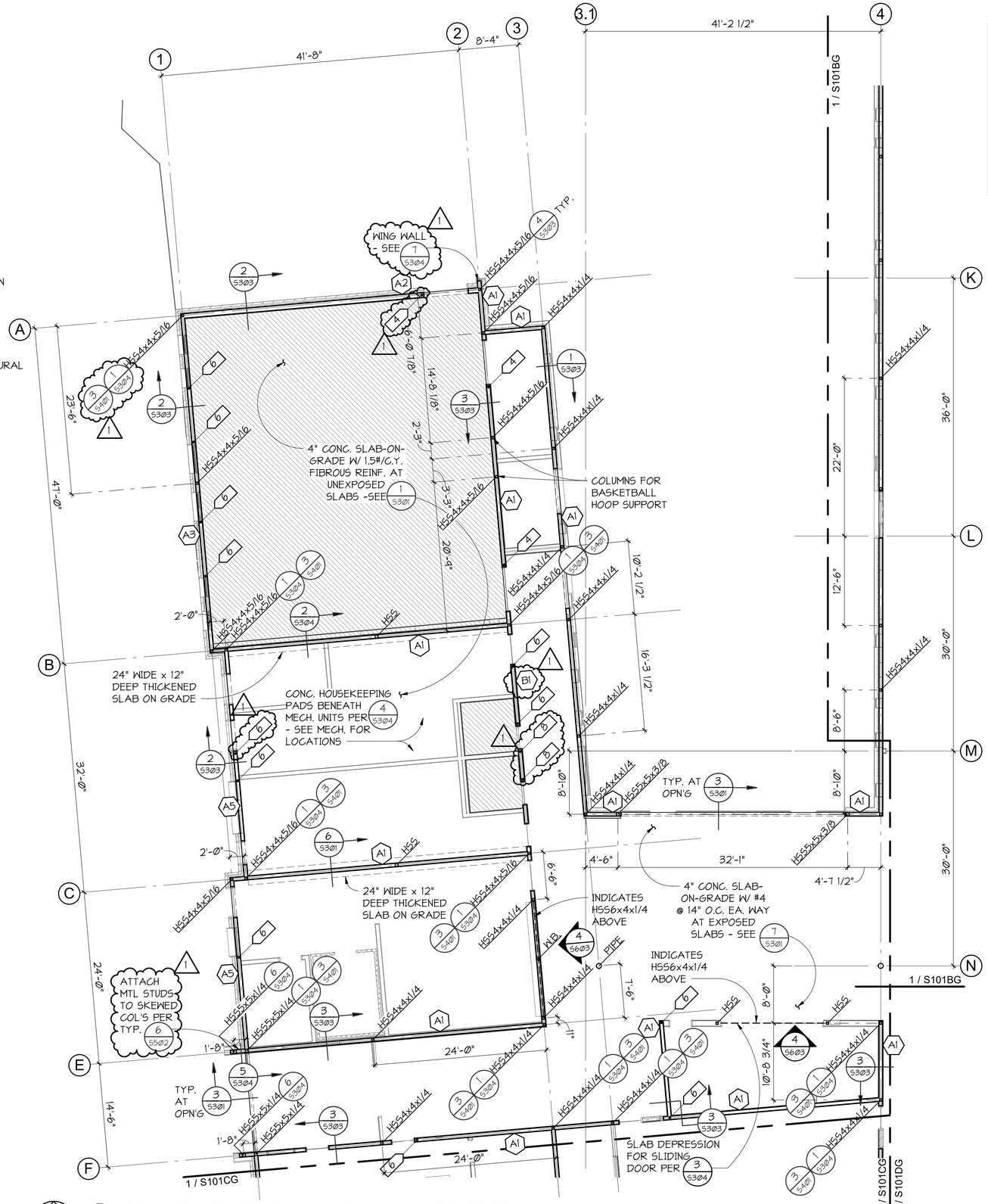
11/6/2019 12:43:23 PM C:_Revit Models\19190 Fir Grove Childrens Center r2019 (Central)_dhorne@pcs-structural.com.rvt

GRADE LEVEL FRAMING NOTES

1. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
2. TOP OF SLAB = Ø'-Ø" ABOVE FINISH FLOOR UNLESS NOTED OTHERWISE.

VENEER ON EXTERIOR WALLS PER ARCHITECTURAL - SEE GENERAL NOTES FOR VENEER TIES. CONTROL JOINTS IN VENEER ARE NOT SHOWN ON STRUCTURAL PLANS - SEE ARCHITECTURAL FOR LOCATIONS. FOR VENEER LINTEL ANGLES - SEE 2/S4Ø1.

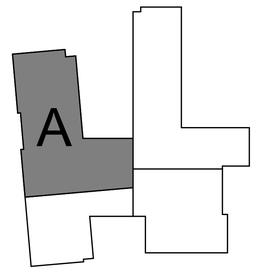
3. INDICATES 6ØØS137-33 AT 16" ON CENTER METAL STUD WALL UNLESS NOTED OTHERWISE IN PLANS OR DETAILS. ALL STUD WALLS WITH VENEER SHALL BE 43 MIL MIN. FOR SCHEDULE - SEE 1/S4Ø3. FOR TYPICAL METAL STUD WALL DETAILS - SEE SHEETS S4Ø1 THROUGH S4Ø7.
4. HSS5x5x3/8 — INDICATES STEEL COLUMNS ORIGINATING AT GRADE LEVEL UNLESS SHOWN ON FOUNDATION PLAN. ALL COLUMNS ARE CONTINUOUS TO ROOF UNLESS NOTED OTHERWISE. FOR TYPICAL ANCHOR ROD/BOLT DETAIL - SEE 4/S3Ø3.
5. HSS — INDICATES TYPE OF CONTINUOUS COLUMN FROM LEVEL BELOW AND CONTINUING ON TO LEVEL ABOVE.
6. INDICATES SLOPED AND/OR DEPRESSED SLAB-ON-GRADE - SEE ARCHITECTURAL FOR EXACT LOCATIONS. FOR TYPICAL REINFORCING - SEE 5/S3Ø1.
7. FOR TYPICAL CONCRETE SLAB-ON-GRADE DETAILS - SEE SHEET S3Ø1.
8. INDICATES NON-STRUCTURAL STUD WALLS. ALL WALLS ARE NOT SHOWN. FOR LOCATION SEE ARCHITECTURAL. FOR BRACING AT TOPS OF WALLS SEE SHEET S4Ø6. FOR SCHEDULE SEE 4/S4Ø5 AND FOR TYPICAL FRAMING SEE SHEETS S4Ø1 THROUGH S4Ø7.
9. FOR SITE STRUCTURES INCLUDING PLAYSHEDS, SITE SIGNS, ETC. - SEE ARCHITECTURAL.
10. FOR TYPICAL SITE CONCRETE MASONRY UNIT SCREEN WALL - SEE 9/S3Ø1. SEE ARCHITECTURAL FOR LOCATIONS ON SITE.
11. INDICATES HOLDOWN - SEE 2/S4Ø1 FOR SCHEDULE.
12. W.B. — INDICATES WALL BRACE SUPPORT COLUMN - SEE 1/S4Ø7.
12. XX OR XX — INDICATES SPECIAL SHEATHING REQUIREMENT - SEE 1/S4Ø3 FOR SCHEDULE. ALL EXTERIOR WALLS TO MEET SHEATHING A UNLESS NOTED OTHERWISE.



NORTH

1 / S101AG — GRADE LEVEL FRAMING PLAN - SECTOR A

1/8" = 1'-Ø"



LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

drawn by DMY
checked by SJW

lsw job number 2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA 98661

issue date 10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM 1 11/8/2019

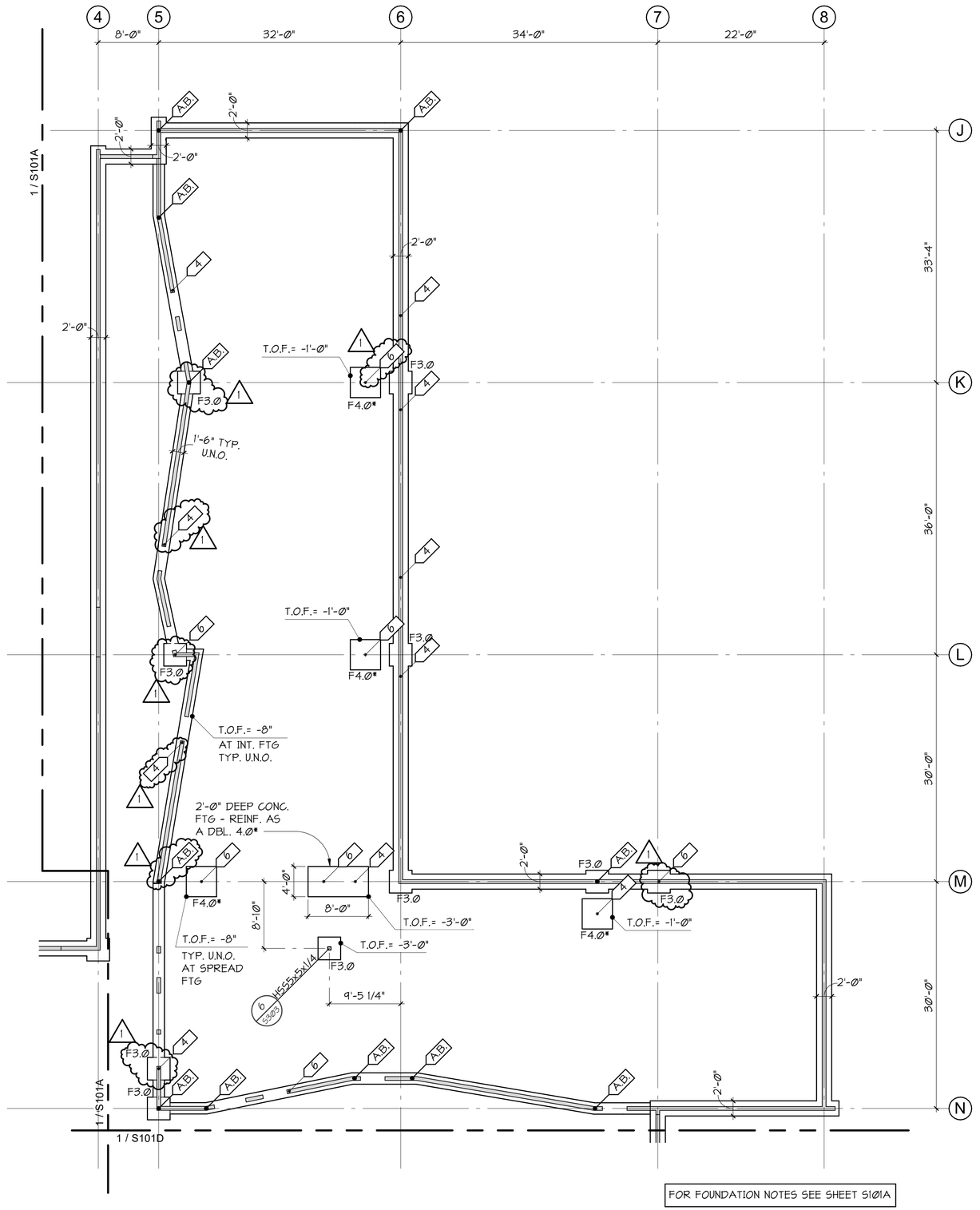
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

GRADE LEVEL FRAMING PLAN - SECTOR A

S101AG

Scale 1/8" = 1'-0"

11/6/2019 12:43:32 PM C:_Revit Models\19190 Fir Grove Childrens Center r2019 (Central)_dhome@pcs-structural.com.rvt



FOR FOUNDATION NOTES SEE SHEET S1Ø1A

NORTH

1 / S101B

FOUNDATION PLAN - SECTOR B

1/8" = 1'-Ø"

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

LUKE A. HEATH
STATE OF WASHINGTON
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER

drawn by
DMY
checked by
SJW

lsw job number
2018-0029

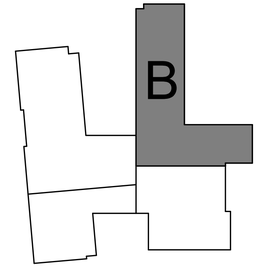
FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM 1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

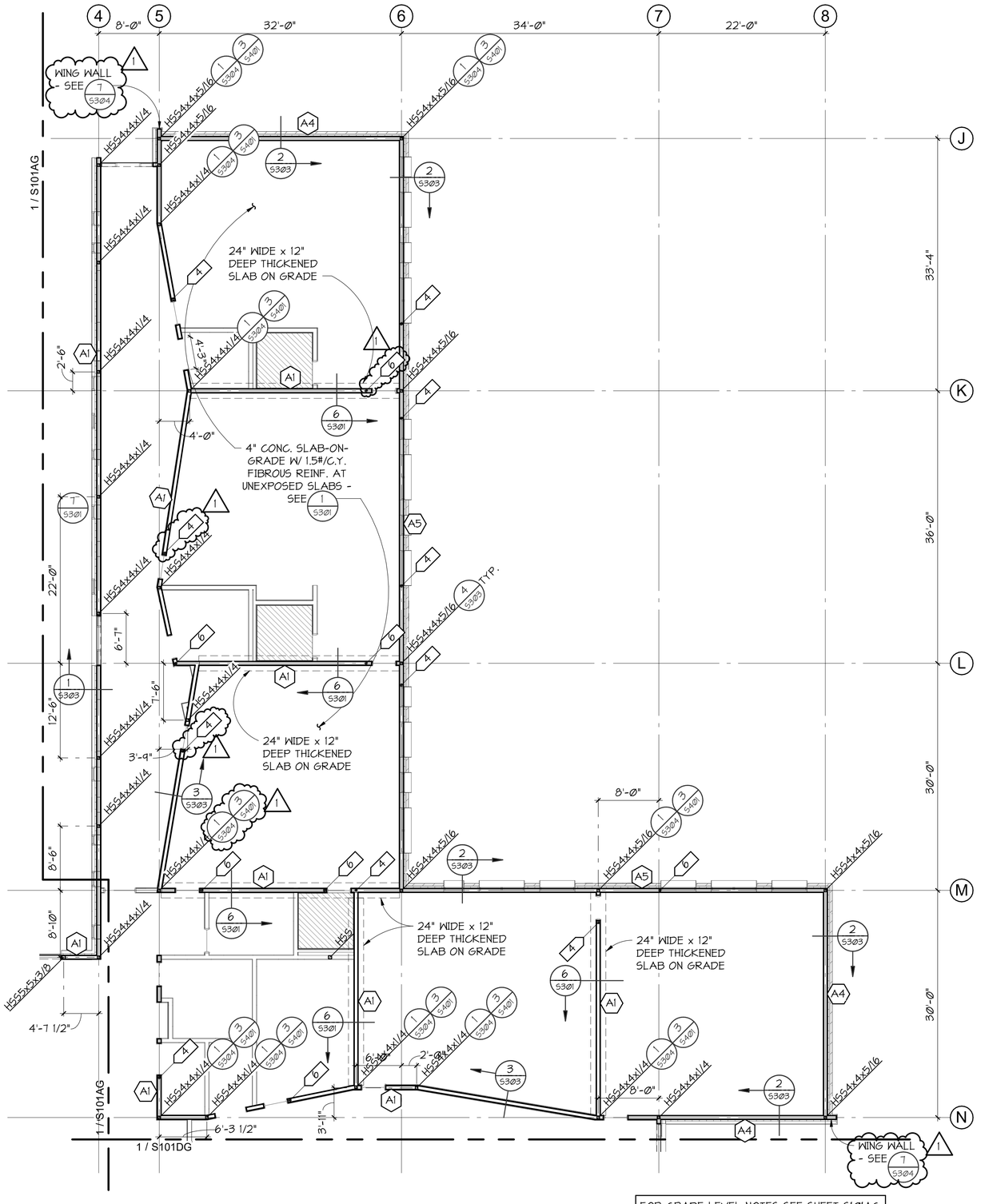
FOUNDATION PLAN - SECTOR B



S101B

Scale **1/8" = 1'-0"**

11/6/2019 12:43:36 PM C:_Revit Models\19190 Fir Grove Childrens Center r2019 (Central)_dhorne@pcs-structural.com.rvt



FOR GRADE LEVEL NOTES SEE SHEET S101AG

NORTH

GRADE LEVEL FRAMING PLAN - SECTOR B

1/8" = 1'-Ø"

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

drawn by
DMY
checked by
SJW

lsw job number
2018-0029

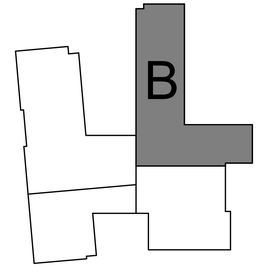
FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM 1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

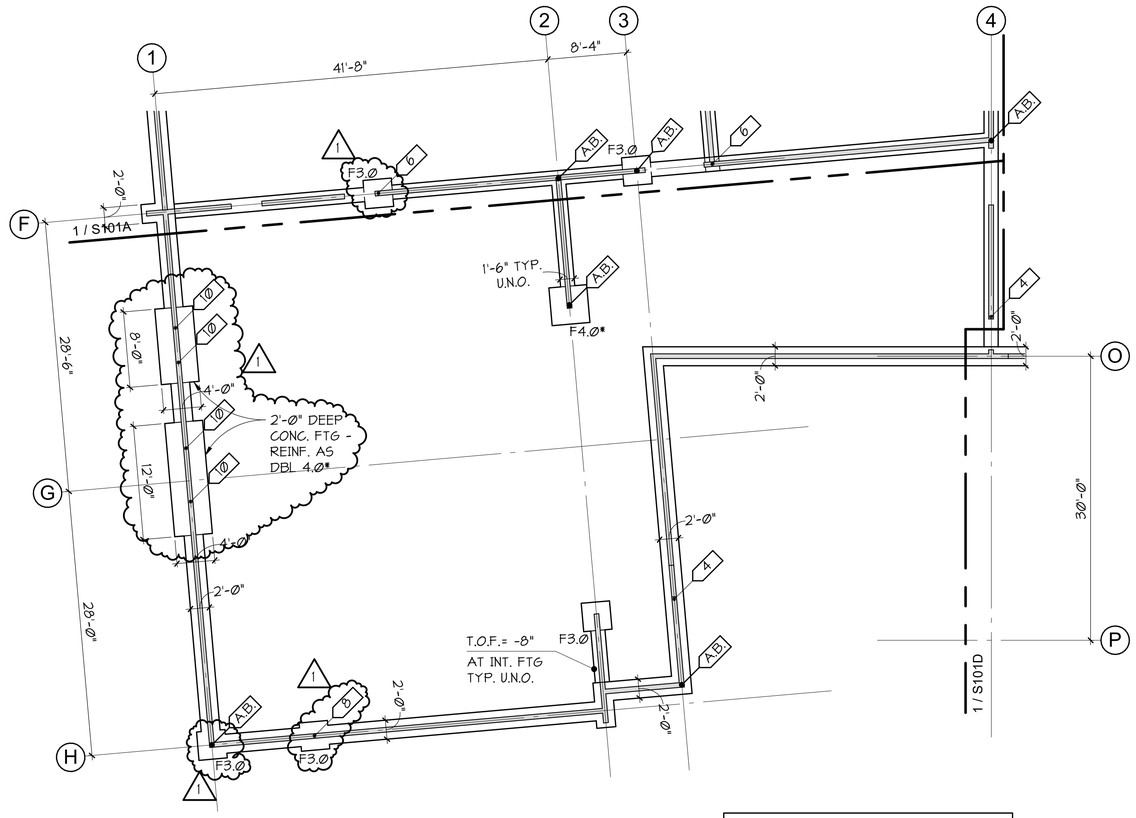
GRADE LEVEL FRAMING PLAN - SECTOR B



S101BG

Scale **1/8" = 1'-0"**

11/6/2019 12:43:44 PM C:_Revit Models\19190 Fir Grove Childrens Center r2019 (Central)_dhorne@pcs-structural.com.rvt



FOR FOUNDATION NOTES SEE SHEET S1Ø1A

NORTH

1 / S1Ø1C

FOUNDATION PLAN - SECTOR C

1/8" = 1'-Ø"

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

drawn by
DMY
checked by
SJW

lsw job number
2018-0029

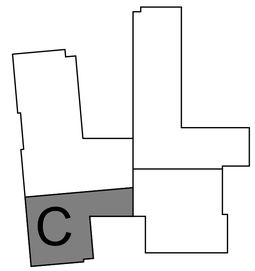
FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM 1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

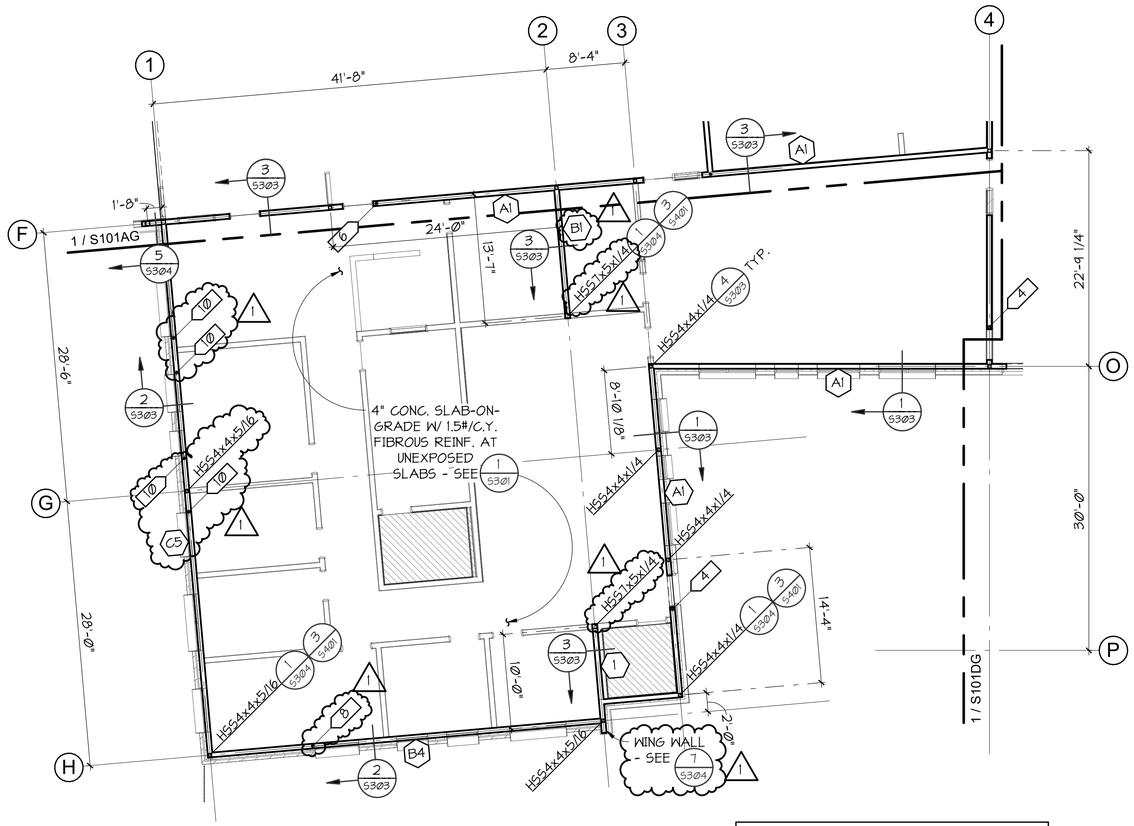
FOUNDATION PLAN - SECTOR C



S101C

Scale **1/8" = 1'-0"**

11/6/2019 12:43:48 PM C:_Revit Models\19190 Fir Grove Childrens Center r2019 (Central)_dhome@pcs-structural.com.rvt



FOR GRADE LEVEL NOTES SEE SHEET S101AG

NORTH

GRADE LEVEL FRAMING PLAN - SECTOR C

1/8" = 1'-0"

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

drawn by
DMY
checked by
SJW

lsw job number
2018-0029

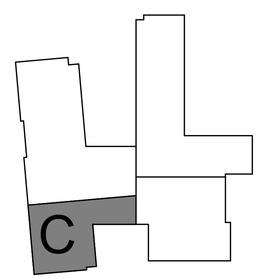
FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM 1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

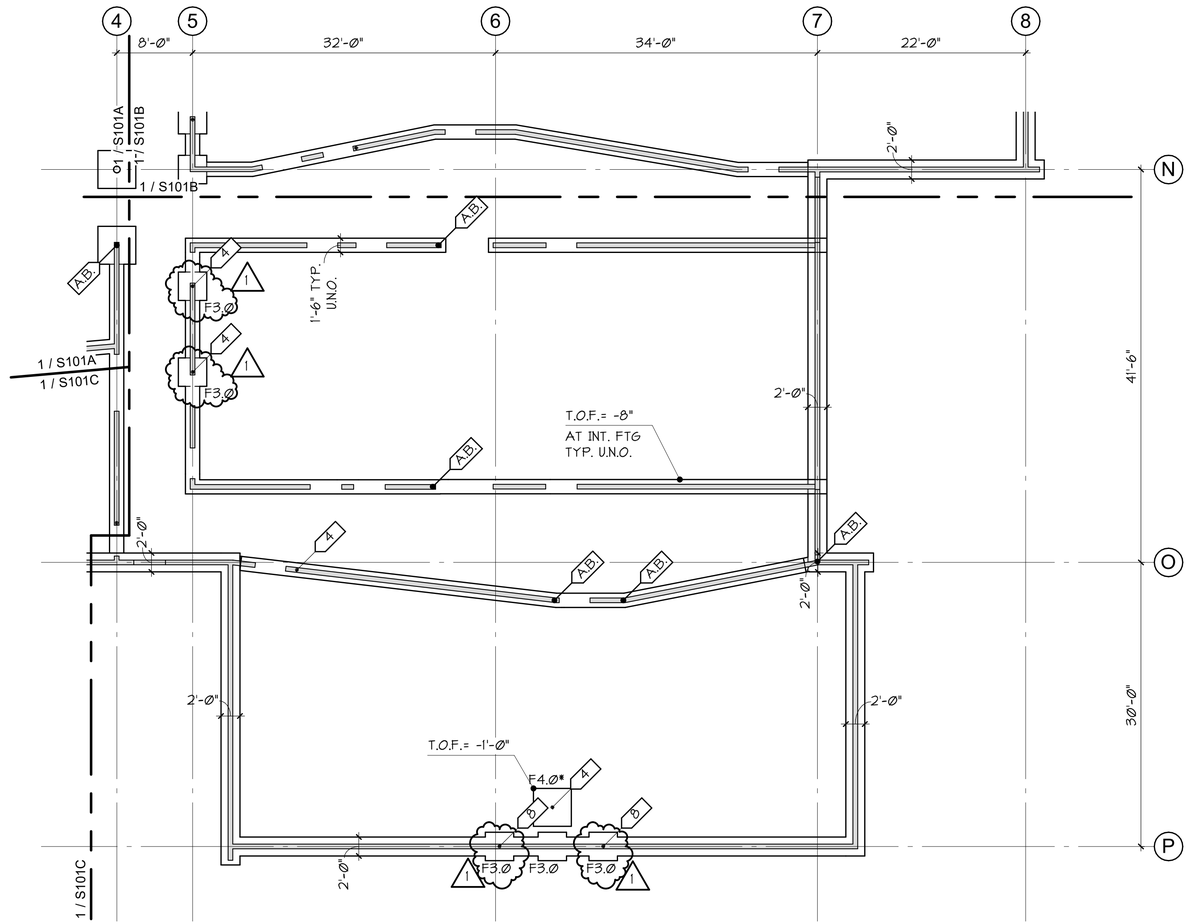
GRADE LEVEL FRAMING PLAN - SECTOR C



S101CG

Scale **1/8" = 1'-0"**

11/6/2019 12:43:56 PM C:_Revit Models\19190 Fir Grove Childrens Center r2019 (Central)_dhorne@pcs-structural.com.rvt



FOR FOUNDATION NOTES SEE SHEET S1ØIA

NORTH

1 / S1ØID

FOUNDATION PLAN - SECTOR D

1/8" = 1'-Ø"

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

drawn by
DMY
checked by
SJW

lsw job number
2018-0029

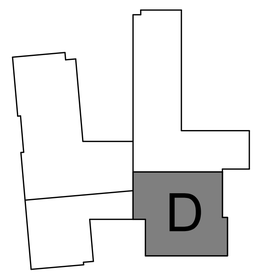
FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM 1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

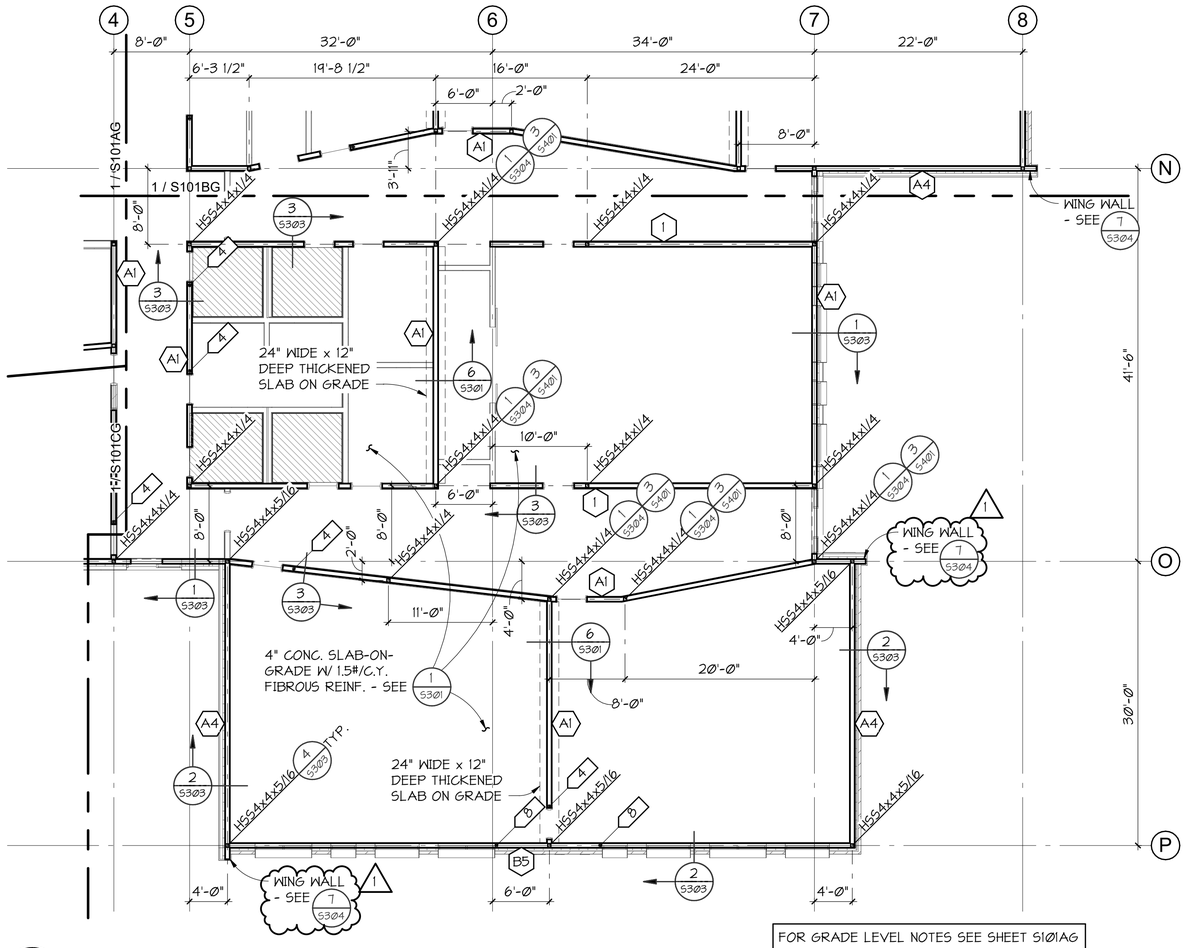
FOUNDATION PLAN - SECTOR D



S101D

Scale **1/8" = 1'-0"**

11/6/2019 12:44:00 PM C:_Revit Models\19190 Fir Grove Childrens Center r2019 (Central)_dhorne@pcs-structural.com.rvt



FOR GRADE LEVEL NOTES SEE SHEET S101AG

NORTH

1 / S101DG

GRADE LEVEL FRAMING PLAN - SECTOR D

1/8" = 1'-Ø"

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

drawn by
DMY
checked by
SJW

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM 1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

GRADE LEVEL FRAMING PLAN - SECTOR D

D

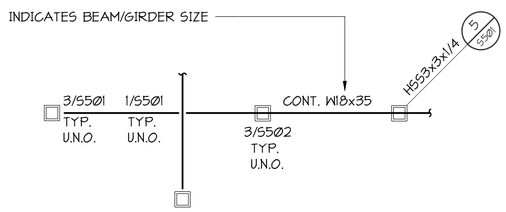
S101DG

Scale **1/8" = 1'-0"**

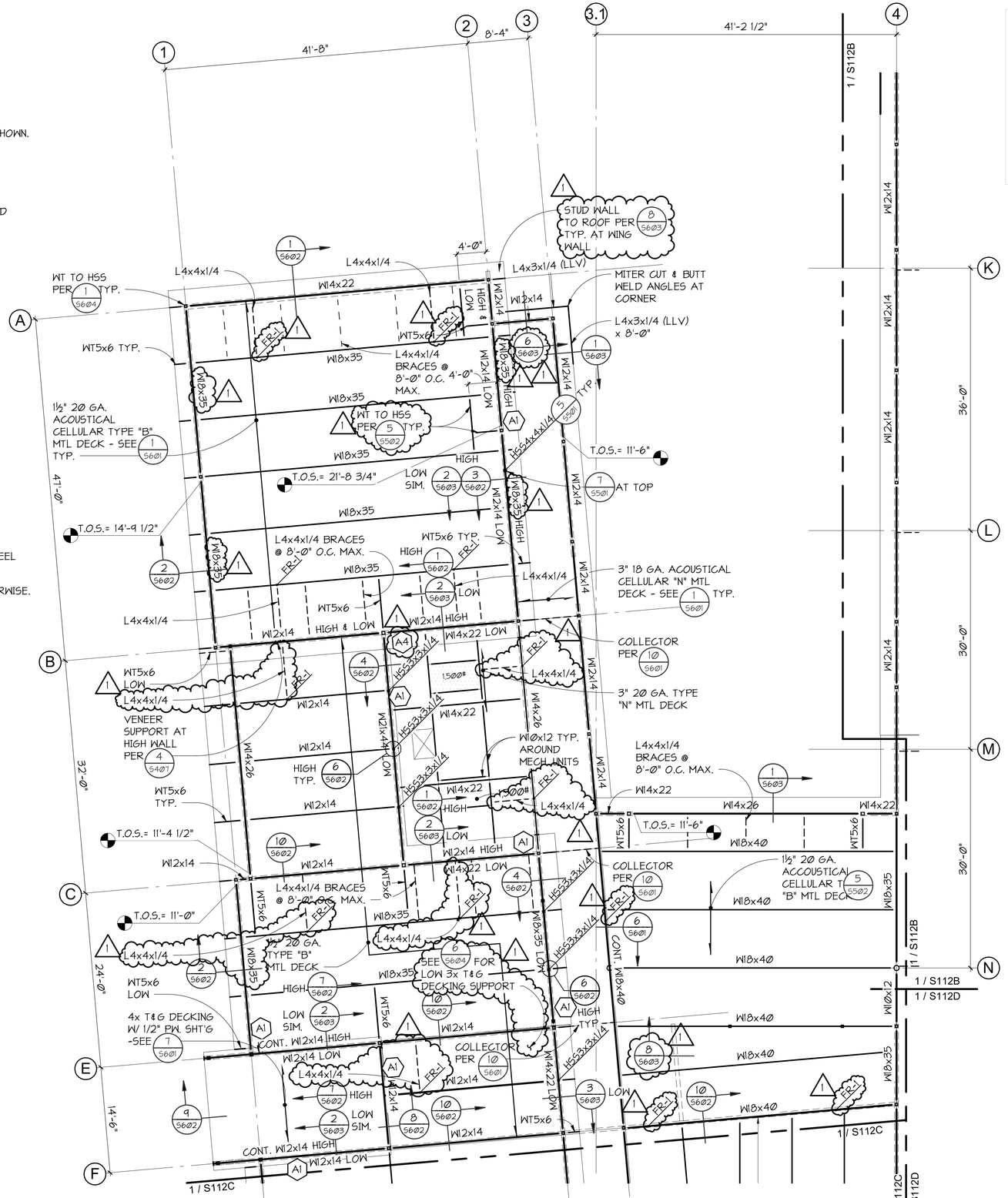
11/6/2019 12:44:08 PM C:_Revit Models\19190 Fir Grove Childrens Center r2019 (Central)_dhorne@pcs-structural.com.rvt

ROOF FRAMING NOTES

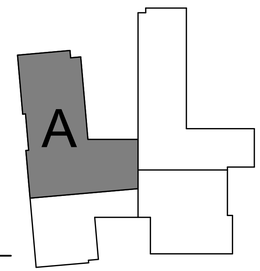
1. INDICATES WALL BELOW EXTENDING TO ROOF STRUCTURE.
2. 1500# INDICATES MECHANICAL UNIT ON ROOF STRUCTURE WITH MAXIMUM WEIGHT SHOWN.
3. INDICATES DIRECTION OF SPAN FOR METAL DECK. FOR TYPICAL METAL DECK - SEE SHEET S601.
4. INDICATES PENETRATION IN ROOF. NOT ALL OPENINGS ARE SHOWN. FOR ADDITIONAL MISCELLANEOUS OPENINGS IN ROOF - SEE ARCHITECTURAL AND MECHANICAL DRAWINGS. SEE 2/S601 AND 5/S601 FOR TYPICAL SUPPORT AROUND OPENINGS.
5. FOR TYPICAL STEEL CONNECTION DETAILS - SEE SHEET S501.



6. INDICATES STEEL COLUMN DISCONTINUING AT ROOF LEVEL.
7. FR-1 INDICATES FALL RESTRAINT ON ROOF STRUCTURE. FOR TYPICAL DETAIL - SEE 4/S601. LOCATE EXACT DIMENSIONS PER ARCHITECT AND FALL RESTRAINT PROVIDER.
8. SEE ARCHITECTURAL DRAWINGS FOR MISCELLANEOUS/ORNAMENTAL (NON-STRUCTURAL) STEEL THROUGHOUT THE BUILDING.
9. STEEL MEMBERS ARE EQUALLY SPACED BETWEEN DIMENSION POINTS UNLESS NOTED OTHERWISE.



NORTH 1 S112A ROOF FRAMING PLAN - SECTOR A
1/8" = 1'-0"



LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

LUKE A. HEATH
STATE OF WASHINGTON
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER

drawn by DMY
checked by SJW
lsw job number 2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM 1 11/8/2019

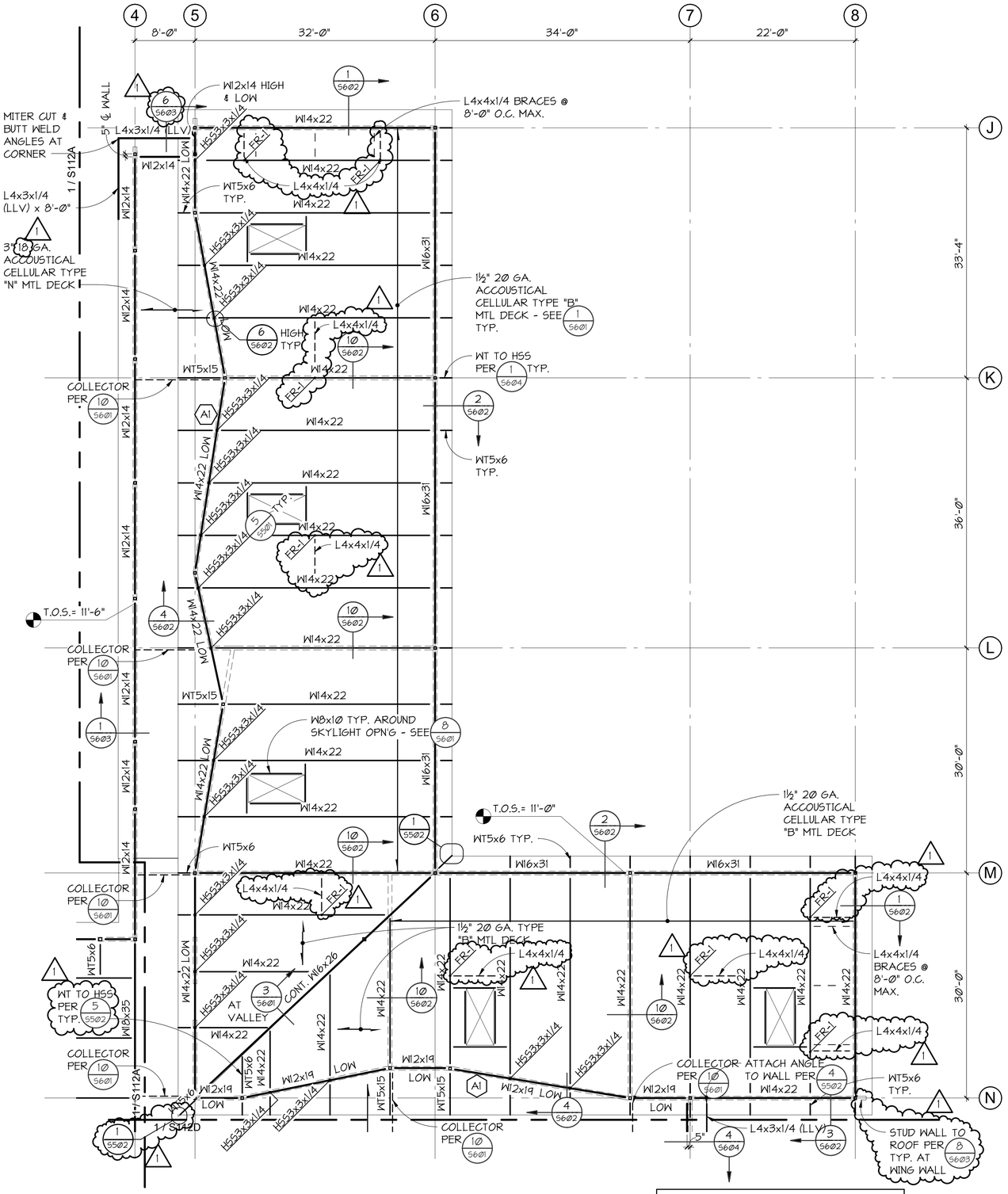
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

ROOF FRAMING PLAN - SECTOR A

S112A

Scale **1/8" = 1'-0"**

11/6/2019 12:44:16 PM C:_Revit Models\19190 Fir Grove Childrens Center r2019 (Central)_dhorne@pcs-structural.com.rvt



NORTH

1 / S112B ROOF FRAMING PLAN - SECTOR B

1/8" = 1'-0"

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

drawn by
DMY
checked by
SJW

lsw job number
2018-0029

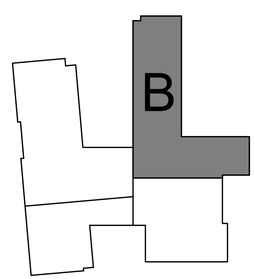
FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM 1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

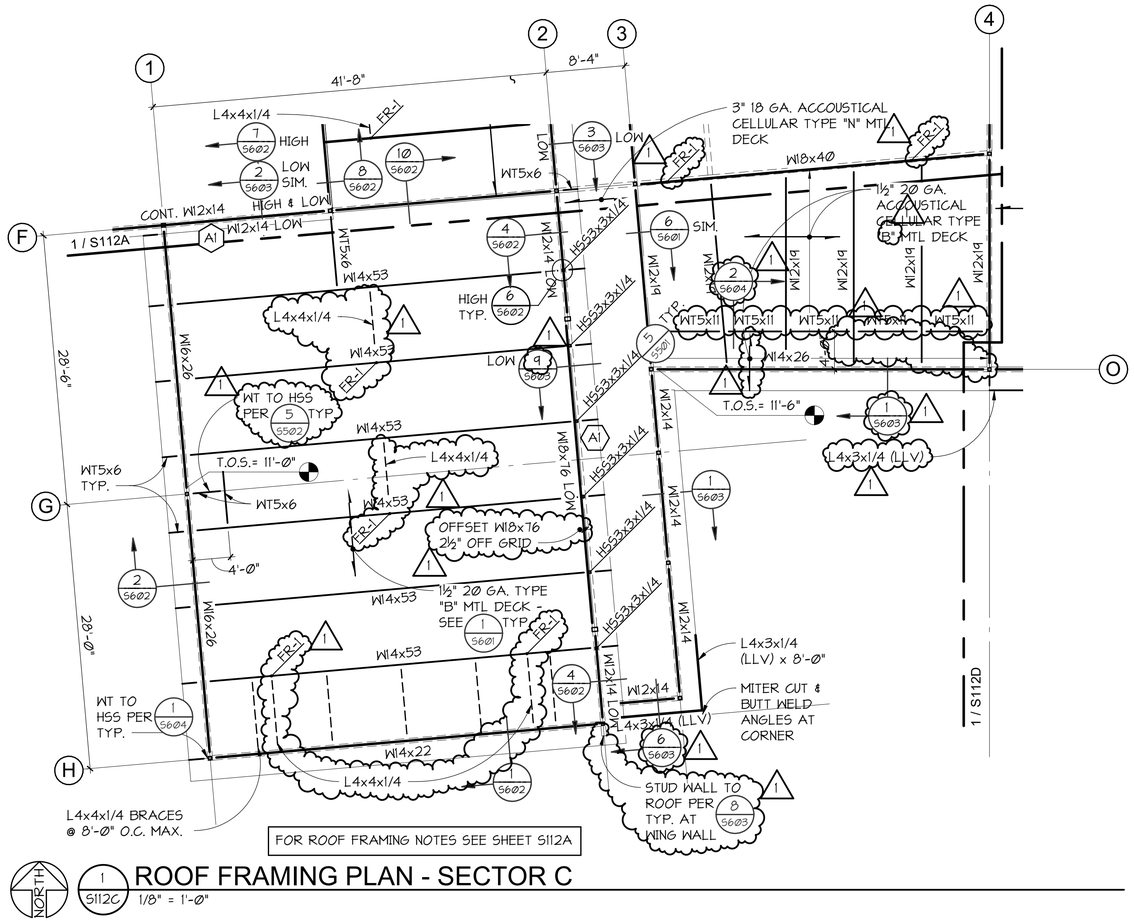
ROOF FRAMING PLAN - SECTOR B



S112B

Scale **1/8" = 1'-0"**

11/6/2019 12:44:25 PM C:_Revit Models\19190 Fir Grove Childrens Center r2019 (Central)_dhome@pcs-structural.com.rvt



FOR ROOF FRAMING NOTES SEE SHEET S112A

NORTH

1 S112C

ROOF FRAMING PLAN - SECTOR C

1/8" = 1'-0"

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

drawn by
DMY
checked by
SJW

lsw job number
2018-0029

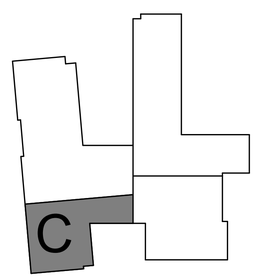
FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM 1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

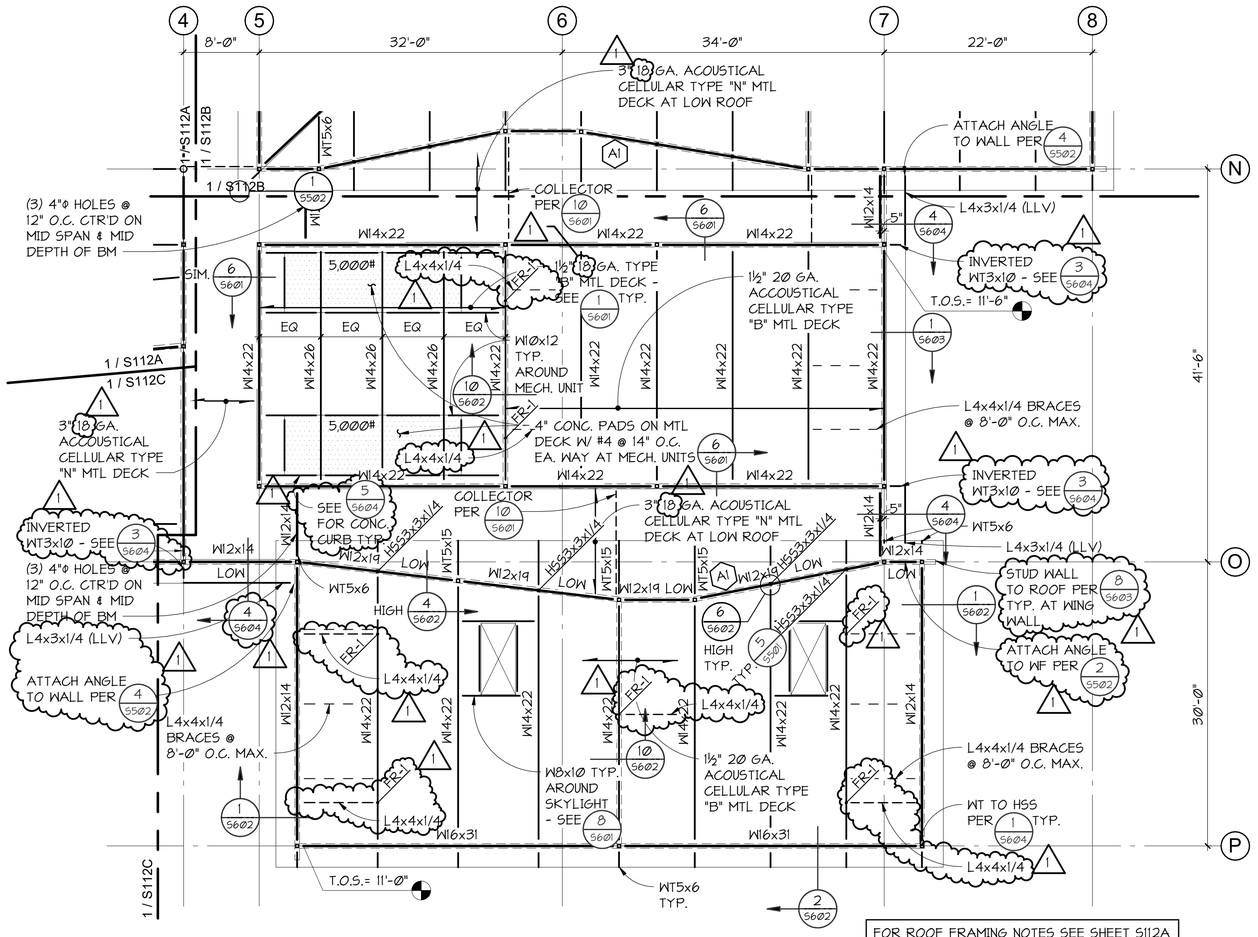
ROOF FRAMING PLAN - SECTOR C



S112C

Scale **1/8" = 1'-0"**

11/6/2019 12:44:33 PM C:_Revit Models\19190 Fir Grove Childrens Center r2019 (Central)_dhome@pcs-structural.com.rvt



NORTH

1 S112D

ROOF FRAMING PLAN - SECTOR D

1/8" = 1'-Ø"

LSW ARCHITECTS

LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

LUKE A. HEATH — STATE OF WASHINGTON — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

drawn by
DMY
checked by
SJW

lsw job number
2018-0029

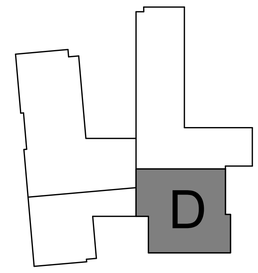
FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM 1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

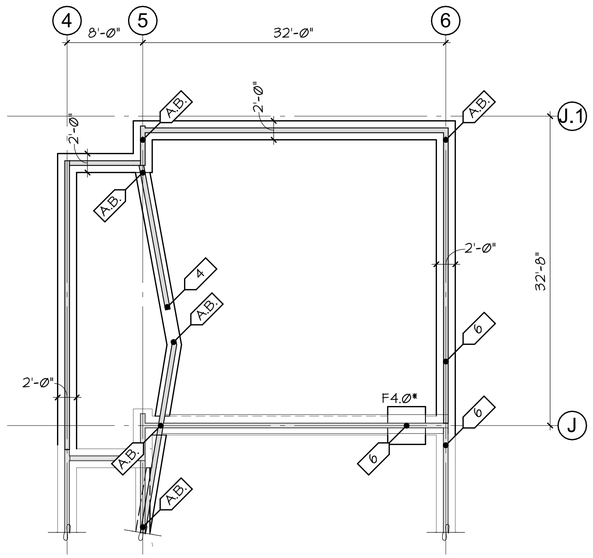
ROOF FRAMING PLAN - SECTOR D



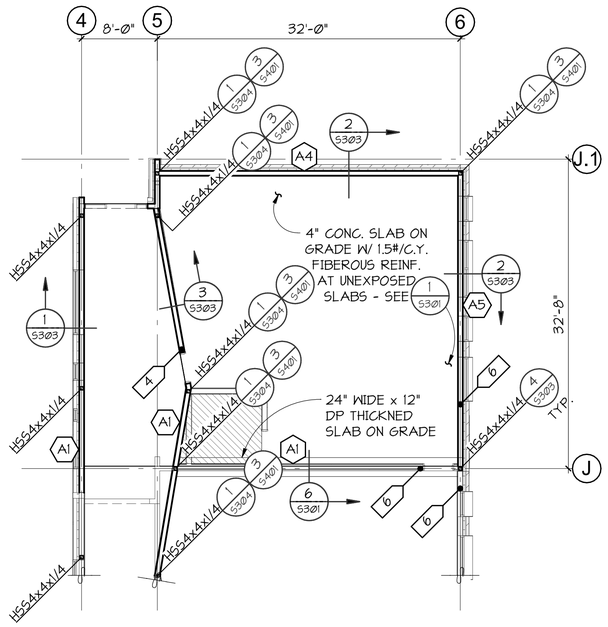
S112D

Scale **1/8" = 1'-0"**

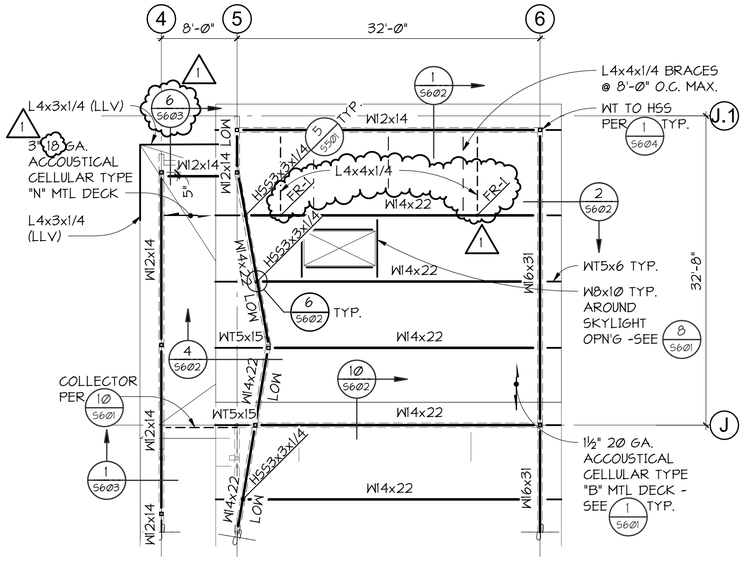
11/6/2019 12:44:41 PM C:_Revit Models\19190 Fir Grove Childrens Center r2019 (Central)_dhome@pcs-structural.com.rvt



1 S16Ø FOUNDATION PLAN - ALTERNATE
1/8" = 1'-Ø"



2 S16Ø GRADE LEVEL FRAMING PLAN - ALTERNATE
1/8" = 1'-Ø"



3 S16Ø ROOF FRAMING PLAN - ALTERNATE
1/8" = 1'-Ø"

11/6/2019 12:44:45 PM C:_Revit Models\19190 Fir Grove Childrens Center r2019 (Central)_dhorne@pcs-structural.com.rvt

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

drawn by
Author
checked by
Checker

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA 98661

issue date
10/15/2019
BID/PERMIT SET

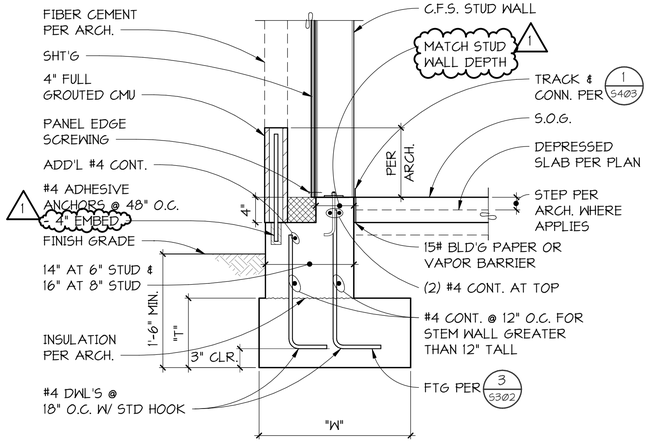
revisions
1 ADDENDUM 1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

ALTERNATE PLANS

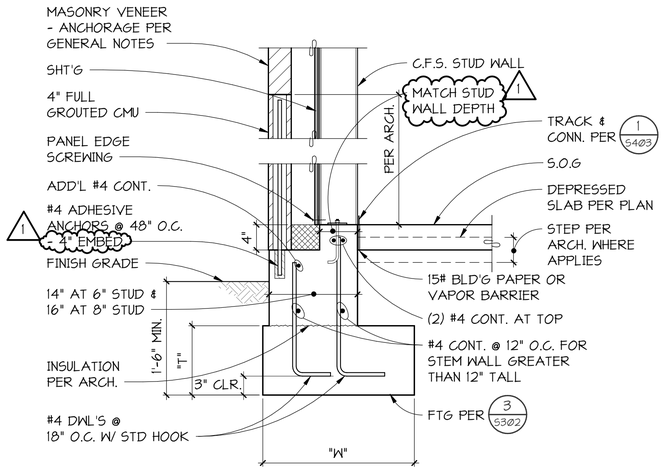
S160

Scale **1/8" = 1'-0"**



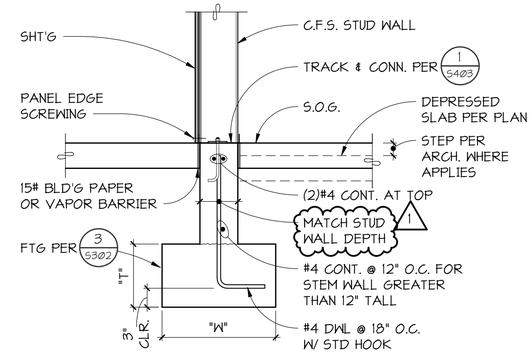
TYPICAL FOUNDATION AT EXTERIOR COLD-FORMED STEEL STUD WALL

1/S303 SECTION
NO SCALE

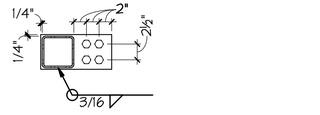


TYPICAL FOUNDATION AT EXTERIOR COLD-FORMED STEEL STUD WALL WITH MASONRY VENEER

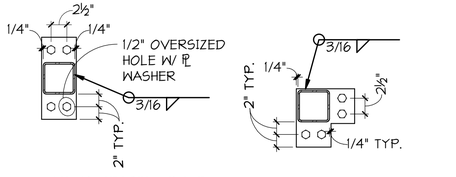
2/S303 SECTION
NO SCALE



3/S303 SECTION
1" = 1'-0"

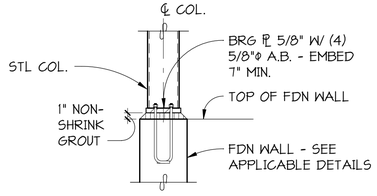


BEARING PLATE AT END



TYPICAL BEARING PLATE

BEARING PLATE AT CORNER

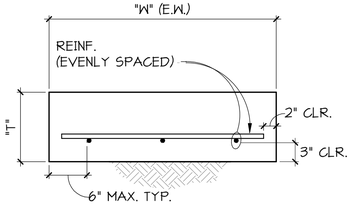


TYPICAL STEEL COLUMN BASE AT CONTINUOUS FOUNDATION WALL

4/S303 SECTION
NO SCALE

MARK	DIMENSIONS		REINFORCEMENT EACH WAY
	"W"	"T"	
F3.Ø	3'-Ø"	11"	(4) #4
F3.5	3'-6"	11"	(5) #4
F4.Ø	4'-Ø"	11"	(5) #4
F3.Ø*	3'-Ø"	1'-6"	(3) #5 T&B
F4.Ø*	4'-Ø"	24"	(4) #5 T&B
F4.5	4'-6"	11"	(4) #5
F5.Ø	5'-Ø"	12"	(5) #5

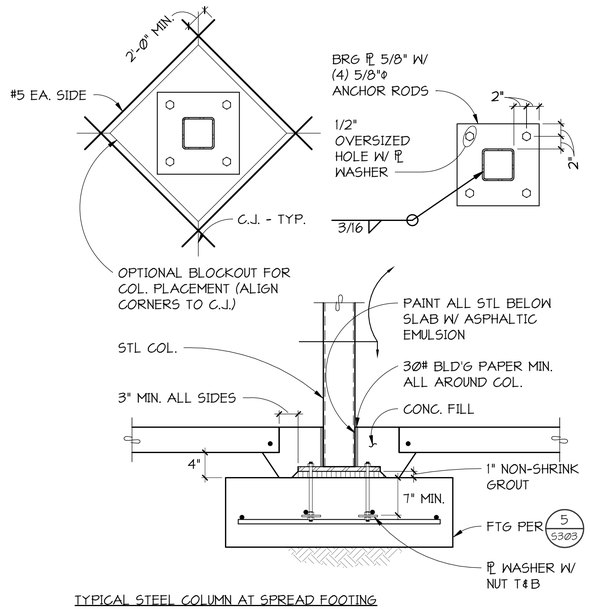
NOTES:
1. CENTER ALL FOOTINGS ON COLUMN ABOVE EXCEPT AS SHOWN OTHERWISE.
2. FOOTINGS SHALL BEAR ON UNDISTURBED OR COMPACTED MATERIAL PER GENERAL NOTES. DESIGN BEARING PRESSURE IS 3,000 POUNDS PER SQUARE FOOT.



SECTION

TYPICAL CONCRETE SPREAD FOOTING

5/S303 SECTION
NO SCALE



TYPICAL STEEL COLUMN AT SPREAD FOOTING

6/S303 SECTION
NO SCALE

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

drawn by
DMY
checked by
SJW

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM 1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

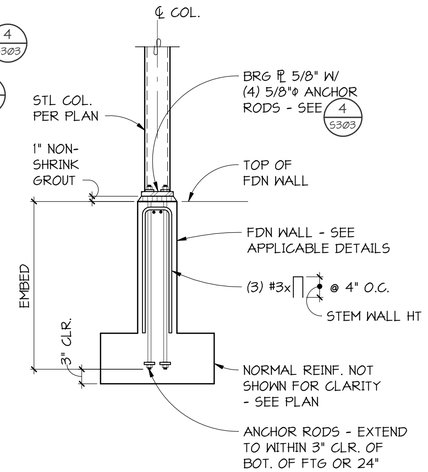
FOUNDATION DETAILS

S303

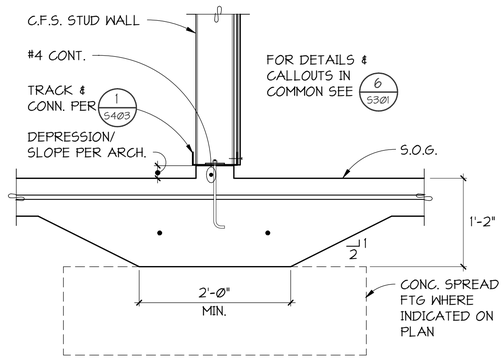
Scale 1" = 1'-0"

11/6/2019 12:44:49 PM C:_Revit Models\19190 Fir Grove Childrens Center r2019 (Central)_dhorne@pcs-structural.com.rvt

NOTE:
FOR BASE PLATE DIMENSIONS - SEE 4/S303 - PROVIDE REINFORCEMENT REQUIRED PER 2/S401



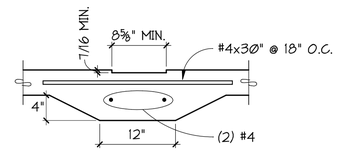
1/S304 SECTION
1" = 1'-0"



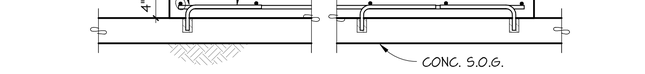
THICKENED SLAB FOR INTERIOR SHEAR WALL WITH SLAB DEPRESSION ONE SIDE

2/S304 SECTION
1" = 1'-0"

NOTE:
CONTRACTOR TO COORDINATE DIMENSION OF SLAB DEPRESSION WITH SLIDING DOOR MANUFACTURER.

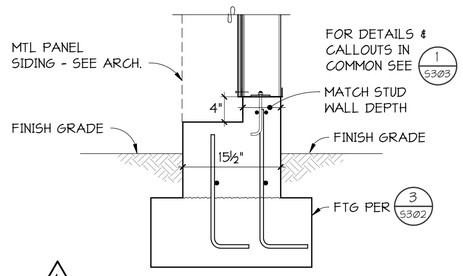


3/S304 SECTION
1" = 1'-0"

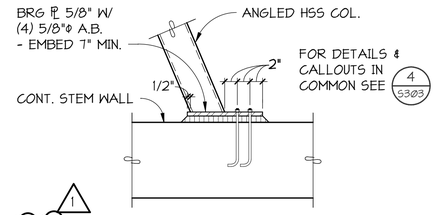


HOUSEKEEPING SLAB AT SLAB ON GRADE

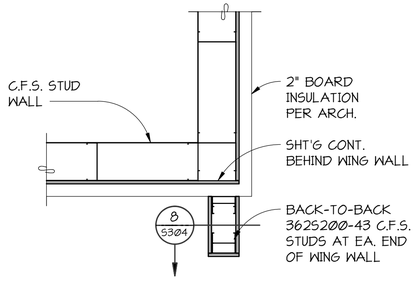
4/S304 SECTION
1" = 1'-0"



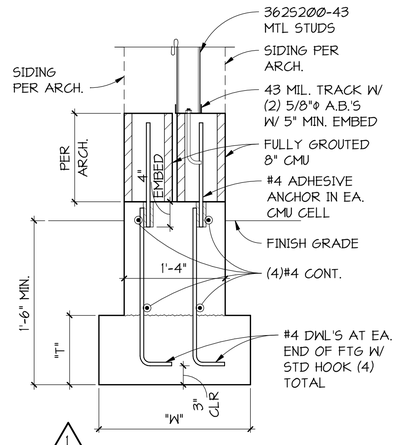
1/S304 SECTION
1" = 1'-0"



1/S304 SECTION
1" = 1'-0"



1/S304 PLAN
1" = 1'-0"



1/S304 SECTION
1" = 1'-0"

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

drawn by
DMY
checked by
SJW

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM 1 11/8/2019

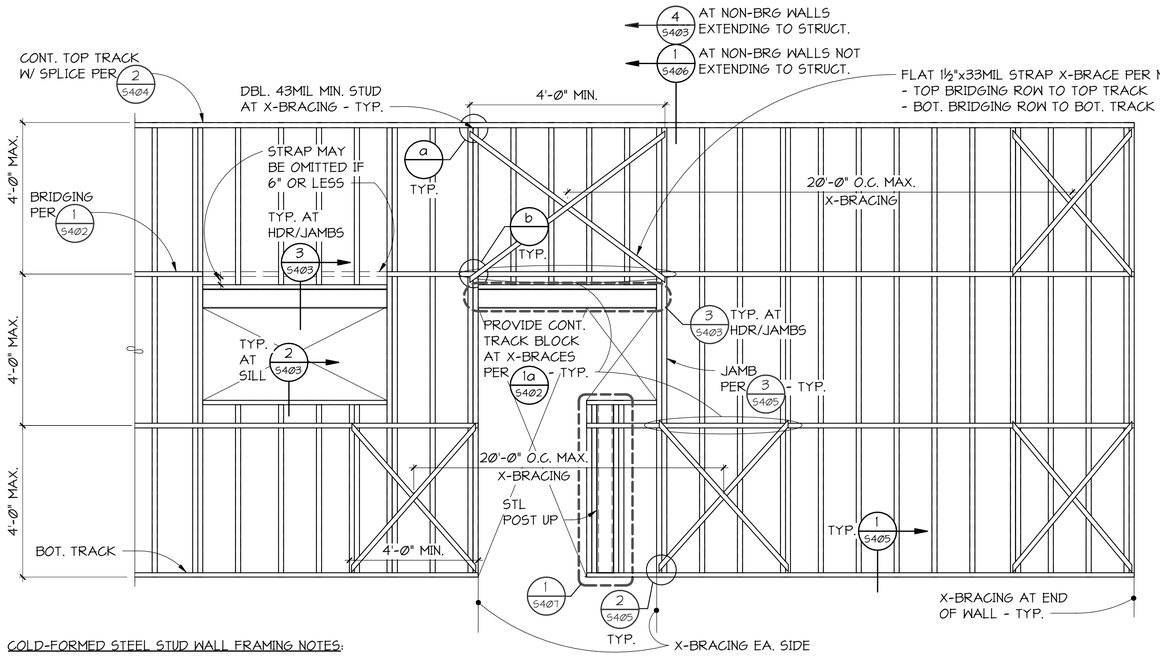
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

FOUNDATION DETAILS

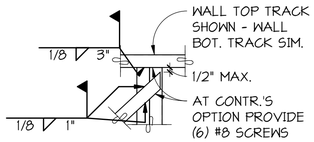
S304

Scale 1" = 1'-0"

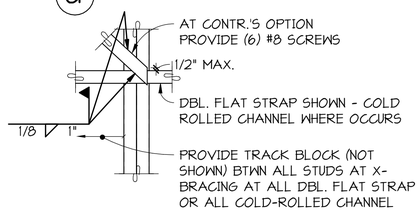
11/6/2019 12:44:53 PM C:_Revit Models\19190 Fir Grove Childrens Center r2019 (Central)_dhome@pcs-structural.com.rvt



MILS/GAGE SCHEDULE		
MILS	MINIMUM THICKNESS	GAGE
18	.Ø188	25
3Ø	.Ø312	2Ø
33	.Ø346	2Ø
43	.Ø451	18
54	.Ø566	16
68	.Ø713	14
97	.1Ø17	12



a TYPICAL DETAIL



b TYPICAL DETAIL

COLD-FORMED STEEL STUD WALL FRAMING NOTES:

1. FOR WALL TYPE AND PROPER LOCATION - SEE ARCHITECTURAL DRAWINGS.
2. PROVIDE BRIDGING AT ALL BEARING WALLS PER 1/S4Ø2.
3. FOR TYPICAL COLD-FORMED STEEL JOIST CEILING FRAMING SCHEDULE AND DETAIL - SEE 4/S4Ø6.
4. PROVIDE FLAT STRAP X-BRACING AS SHOWN AT ALL BEARING WALLS. ALL BRIDGING SHALL BE SUPPORTED BY X-BRACING. PROVIDE MULTIPLE HEIGHT X-BRACING AS REQUIRED. X-BRACING SHALL OCCUR ON SAME SIDE OF WALL. INSTALL X-BRACING AND BRIDGING PRIOR TO INSATLLATION OF SUPPORTED FRAMING. X-BRACING SHALL OCCUR AT WALL ENDS. X-BRACING SHALL OCCUR AT EACH SIDE OF OPENINGS. X-BRACING SHALL OCCUR AT ALL BRIDGING DISCONTINUITUIES. PROVIDE CONTINUOUS TRACK BLOCK AT X-BRACING FOR DETAIL - SEE 1/S4Ø2.
5. ALL WELDS SHALL BE 1/8" FILLET MAXIMUM. FOR MATERIALS THINNER THAN Ø.15", EFFECTIVE THROAT SHALL NOT BE LESS THAN THINNEST MATERIAL. WELD IN ACCORDANCE WITH "STRUCTURAL WELDING CODE -- SHEET METAL" AWS D1.3.
6. STUD PUNCH OUTS SHALL NOT BE SPACED LESS THAN 24" ON CENTER NOR WITHIN 1Ø" CLEAR OF MEMBER END AT STUDS, HEADERS, BEAMS, JOISTS, ETCETERA FOR TYPICAL ALLOWABLE PUNCHOUT DETAIL - SEE 1/S4Ø4.
7. SCREWS SHALL BE THREAD-FORMING OR THREAD-CUTTING, WITH OR WITHOUT A SELF DRILLING POINT. SCREWS SHALL BE INSTALLED AND TIGHTENED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. MINIMUM SPACING IS THREE SCREW DIAMETERS. A MINIMUM OF (3) THREADS SHALL BE ENGAGED.
8. FOR TYPICAL COLD-FORMED STEEL WALL CORNER REQUIREMENTS - SEE 2/S4Ø4.
9. FOR SHEAR WALL REQUIREMENTS AND SPECIAL STUD SIZE/SPACING AT BEARING WALL REQUIREMENTS - SEE 1/S4Ø3 AS REQUIRED.
1Ø. FOR POWDER ACTUATED FASTENER REQUIREMENTS - SEE GENERAL NOTES.

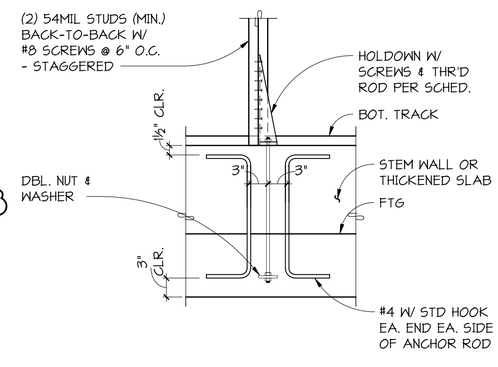
TYPICAL BEARING COLD-FORMED STEEL STUD WALL FRAMING

1 S401 ELEVATION

NO SCALE

TYPICAL HOLDOWNS			
MARK	SIZE	SCREWS	THREADED ROD
4	S/HDU4	(6) #14	5/8"Ø
6	S/HDU6	(12) #14	5/8"Ø
8	S/HD8S	(17) #14	7/8"Ø
1Ø	S/HD1ØS	(22) #14	7/8"Ø

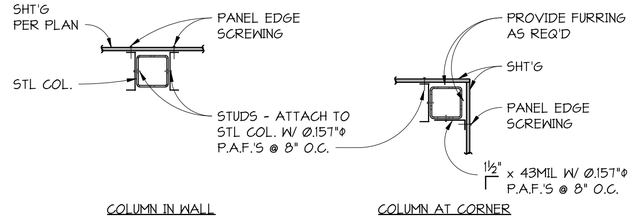
NOTES:
1. SEE FOUNDATION PLANS FOR HOLDOWN LOCATIONS.
2. ALL HOLDOWNS NOT OCCURING AT WALL CORNER SHALL BE LOCATED AT THE EDGE OF A WINDOW OR A DOOR. EDGE SCREW EACH HOLDOWN STUD.
3. STEP FOOTINGS AS REQURIED TO MEET EMBEDMENT REQUIREMENTS PER 1/S3Ø2.



TYPICAL FOUNDATION ANCHOR ROD HOLDOWN

2 S401 DETAIL

NO SCALE



COLUMN IN WALL

COLUMN AT CORNER

COLUMN AT PLYWOOD SHEAR WALL

3 S401 SECTION

1" = 1'-Ø"

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

drawn by DMY
checked by SJW

lsw job number 2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA 98661

issue date 10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM 1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

COLD FORMED STEEL FRAMING DETAILS

S401

Scale As indicated

11/6/2019 12:44:57 PM C:_Revit Models\19190 Fir Grove Childrens Center r2019 (Central)_dhorne@pcs-structural.com.rvt

COLD-FORMED STEEL STUD WALL CONSTRUCTION SCHEDULE						
TABLE 1 - SHEAR WALL REQUIREMENTS						
MARK	WALL SHEATHING	SIDES WITH SHEATHING	SHEATHING FASTENING	EDGE FASTENING [2,5] ON CENTER SPACING	FIELD FASTENING ON [5] CENTER SPACING	5/8" ADHESIVE ANCHOR SPACING (EMBED 5") PER 1/S4.05
A	15/32" PLYWOOD	(1)	#8 SCREW	6"	12"	32"
B	15/32" PLYWOOD	(1)	#8 SCREW	4"	12"	32"
C	15/32" PLYWOOD	(1)	#8 SCREW	3"	12"	16"

TABLE 2 - STUD REQUIEMENTS	
MARK	STUD SIZE AND SPACING
1	600S137-33 @ 16" O.C.
2	800S250-54 @ 16" O.C.
3	600S200-43 @ 16" O.C.
4	600S250-54 @ 16" O.C.
5	600S162-43 @ 16" O.C.

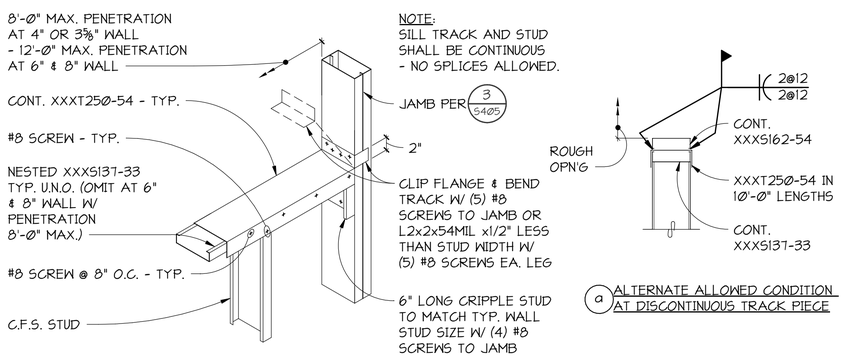
NOTES:

FIRST CHARACTER INDICATES SPECIAL SHEAR WALL REQUIREMENTS PER TABLE 1

SECOND CHARACTER INDICATES SPECIAL STUD FRAMING PER TABLE 2

1. XX INDICATES STRUCTURAL WALL MARK. STUDS SHALL ALIGN WITH JOISTS AND STUDS ABOVE. FOR NUMBER OF STUDS REQUIRED BELOW JOIST/STUD ABOVE - SEE SCHEDULE. FOR TYPICAL WALL STUD BRIDGING DETAIL AND ADDITIONAL WALL FRAMING REQUIREMENTS - SEE 1/S402 AND 1/S401.
2. ALL EXTERIOR AND INTERIOR WALL DESIGNATED AS SHEAR WALL SHALL BE BLOCKED AT ALL UNSUPPORTED PANEL EDGES. EDGE FASTENING APPLIES TO TOP AND BOTTOM TRACK, PANEL VERTICAL AND HORIZONTAL JOINTS, WALL CORNERS, HOLDDOWN ANCHOR STUDS, AND WALL END STUDS. SHEAR WALL STUD FLANGE WIDTH SHALL BE 5162 MINIMUM. BLOCKING SHALL MATCH THICKNESS OF WALL STUDx1½" WIDE MINIMUM.
3. ADDITIONAL REQUIREMENTS AT WALL PENETRATIONS - FOR TYPICAL DETAILS - SEE 1/S401.
4. SHEATHING PANELS MAY BE INSTALLED PARALLEL OR PERPENDICULAR TO FRAMING.
5. SCREWS SHALL BE SELF-DRILLING - SELF-TAPPING FLAT HEAD SCREW WITH MINIMUM Ø.242" HEAD DIAMETER.
6. PROVIDE 3"x3"x1/4" PLATE WASHER AT EACH ADHESIVE ANCHOR - WELD TO TRACK WITH FILLET ALL AROUND. DISTANCE FROM ANCHOR TO END OF TRACK TO BE 6" MAXIMUM, 3" MINIMUM.
7. PROVIDE 43MIL MINIMUM AT ALL STUD WALLS WITH VENEER.

1 / S403 SCHEDULE
NO SCALE



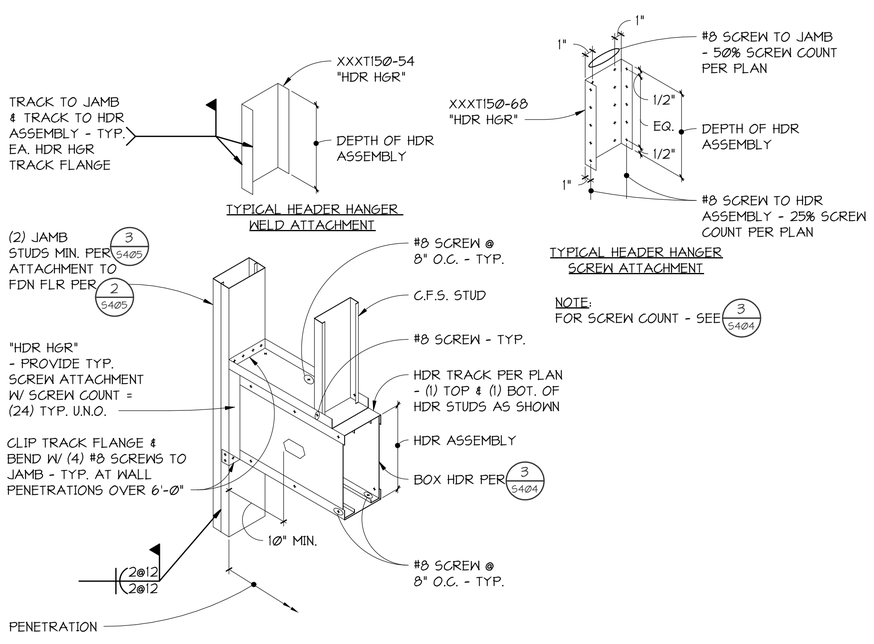
TYPICAL SILL AT COLD-FORMED STEEL WALL PENETRATION AT 16'-Ø" MAXIMUM STUD HEIGHT

2 / S403 DETAIL
1" = 1'-Ø"

SLOTTED TOP TRACK THICKNESS			
2½" TRACK WITH 3/4" GAP			
TRACK THICKNESS (MILS)	ALLOWABLE LOAD (POUNDS)	EXTERIOR WALL HEIGHT	INTERIOR WALL HEIGHT
33	106	1Ø'-7"	31'-1Ø"
43	174	17'-5"	52'-4"
54	344	34'-5"	
68	475	47'-7"	
3½" TRACK WITH 1" GAP			
TRACK THICKNESS (MILS)	ALLOWABLE LOAD (POUNDS)	EXTERIOR WALL HEIGHT	INTERIOR WALL HEIGHT
33	47	NOT ALLOWED	14'-1"
43	92	NOT ALLOWED	27'-8"
54	177	17'-11"	
68	299	29'-11"	

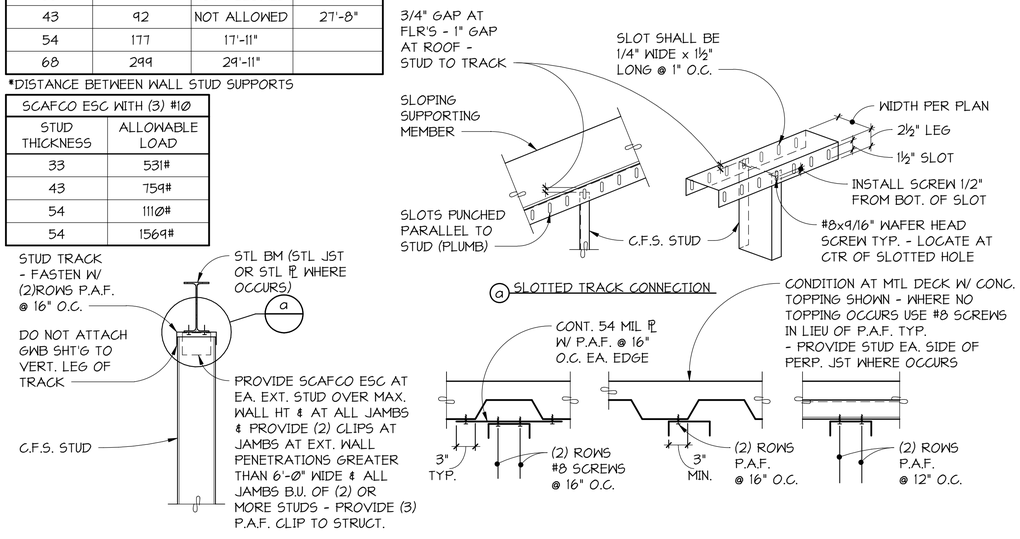
*DISTANCE BETWEEN WALL STUD SUPPORTS

SCAFCO ESC WITH (3) #1Ø	
STUD THICKNESS	ALLOWABLE LOAD
33	531#
43	759#
54	1110#
54	1569#



TYPICAL COLD-FORMED STEEL BEARING WALL HEADER ASSEMBLY

3 / S403 DETAIL
1" = 1'-Ø"



TYPICAL NON-BEARING COLD-FORMED STEEL WALL EXTENDING TO STRUCTURE ABOVE

4 / S403 DETAIL
1" = 1'-Ø"

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

drawn by
DMY
checked by
SJW

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM 1 11/8/2019

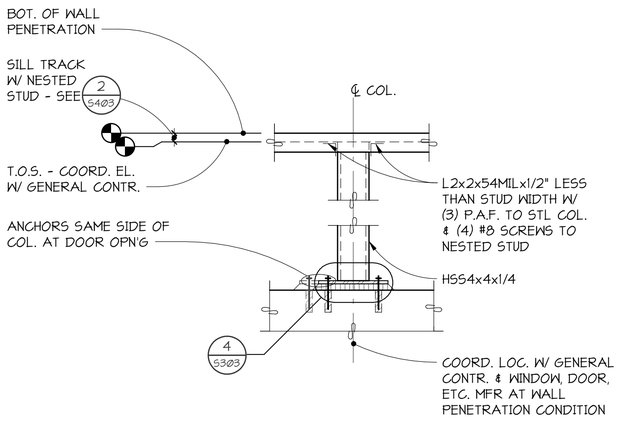
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

COLD FORMED STEEL FRAMING DETAILS

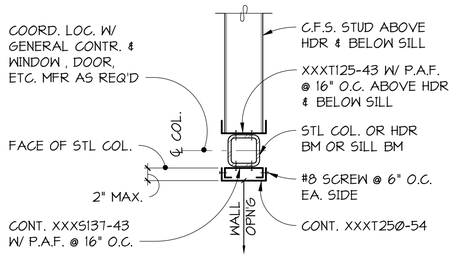
S403

Scale 1" = 1'-0"

11/6/2019 12:45:02 PM C:_Revit Models\19190 Fir Grove Childrens Center r2019 (Central)_dhorne@pcs-structural.com.rvt



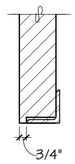
ⓐ CONDITION AT STEEL POST UP



ⓑ CONDITION AT OPENING

1 S407 **DETAIL**
1" = 1'-Ø"

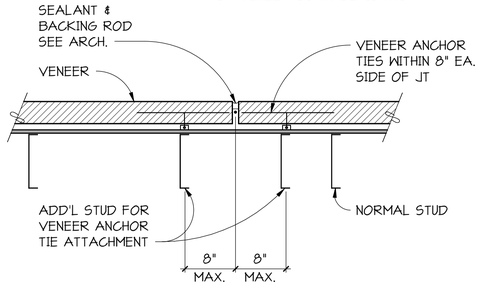
LINTEL ANGLE SCHEDULE		
MAXIMUM WIDTH OF OPENING	ANGLE SIZE	MINIMUM BEARING REQUIRED AT END OF ANGLE
5'-Ø"	L3½x3½x1/4	4"
8'-Ø"	L6x3½x5/16	4"
10'-Ø"	L7x4x3/8	8"
14'-Ø"	L7x4x3/4	12"



NOTE:
1. ALL LINTEL ANGLES SHALL BE GALVANIZED.

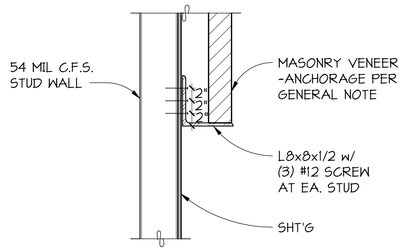
2 S407 **DETAIL**
1 1/2" = 1'-Ø"

NOTE:
SEE ARCHITECT FOR LOCATION OF VENEER CONTROL JOINTS



TYPICAL VENEER CONTROL JOINT

3 S407 **SECTION**
1" = 1'-Ø"



1
4 S407 **SECTION**
1" = 1'-Ø"

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

drawn by
DMY
checked by
SJW

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM 1 11/8/2019

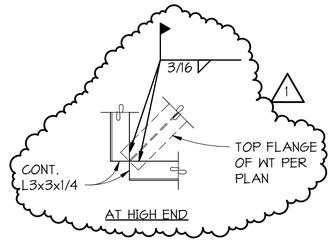
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

COLD FORMED STEEL FRAMING DETAILS

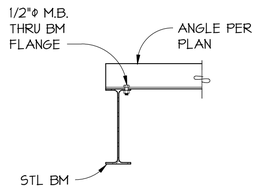
S407

Scale **As indicated**

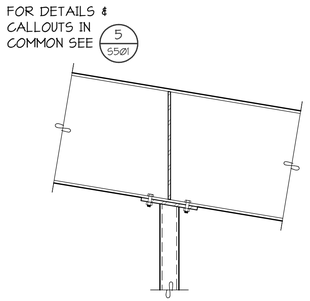
11/6/2019 12:45:05 PM C:_Revit Models\19190 Fir Grove Childrens Center r2019 (Central)_dhorne@pcs-structural.com.rvt



1 S502 SECTION
1" = 1'-0"

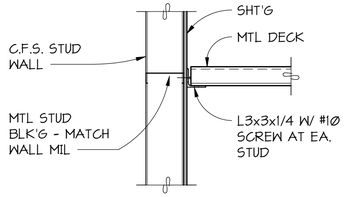


1 2 S502 SECTION
1" = 1'-0"

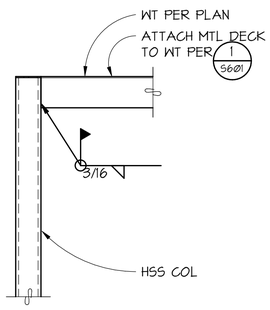


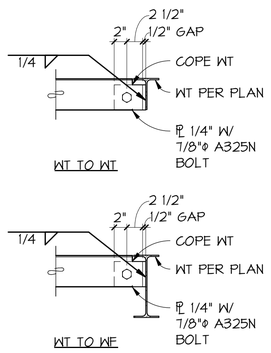
TYPICAL CONTINUOUS COLUMN OVER HOLLOW STRUCTURAL SECTION COLUMN

3 S502 SECTION
1" = 1'-0"

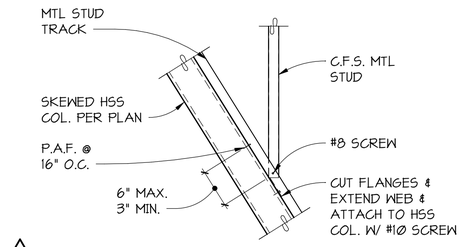


1 4 S502 SECTION
1" = 1'-0"





1 5 S502 WT TO COLUMN SECTION
1" = 1'-0"



1 6 S502 SECTION
1" = 1'-0"

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

drawn by
DMY
checked by
SJW

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM 1 11/8/2019

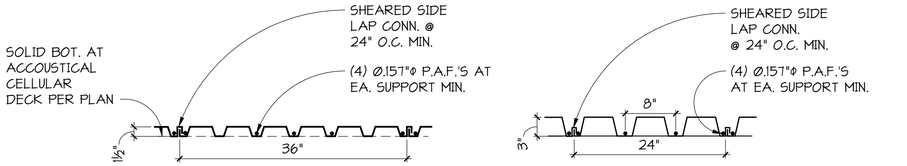
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

STEEL FRAMING DETAILS

S502

Scale **1" = 1'-0"**

11/6/2019 12:45:09 PM C:_Revit Models\19190 Fir Grove Childrens Center r2019 (Central)_dhorne@pcs-structural.com.rvt



TYPE "B" DECK PROPERTIES		
GAGE	I = (in.⁴/ft.)	+S/-S = (in.³/ft)
20	.216	.235/.248
18	.302	.322/.335
ACCOUSTICAL CELLULAR TYPE "B" DECK PROPERTIES		
20	.416	.279/.382

ACCOUSTICAL CELLULAR TYPE "N" DECK PROPERTIES		
GAGE	I = (in.⁴/ft.)	+S/-S = (in.³/ft)
18	2.194	Ø.824/1.Ø3Ø

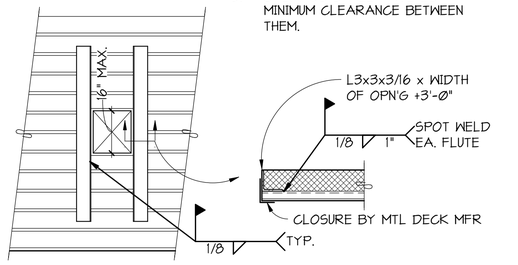
TYPE "N" DECK PROPERTIES		
GAGE	I = (in.⁴/ft.)	+S/-S = (in.³/ft)
20	1.574	Ø.5Ø5/Ø.7Ø9

NOTES:
1. (2) SPAN MINIMUM, (3) PREFERRED.
2. AT SUPPORTS PARALLEL TO CORRUGATIONS, PROVIDE PUDDLE WELDS AT 24" ON CENTER MAXIMUM.
3. "SHEARED SIDE LAP" CONNECTION REFERS TO "PUNCHLOK" BY VERCO DECKING, INC. OR "DELTAGRIP" BY ASC STEEL DECK, OR PRE-APPROVED EQUAL.
4. MINIMUM DECK PROPERTIES AND WELD PATTERN SHOWN. PROVIDE HEAVIER GAGE AND/OR WELD PATTERN AS REQUIRED TO DEVELOP DIAPHRAGM SHEARS.
5. DIAPHRAGM TO BE CAPABLE OF RESISTING 5ØØ PLF OF SHEAR LOAD MINIMUM.

TYPICAL ROOF METAL DECK

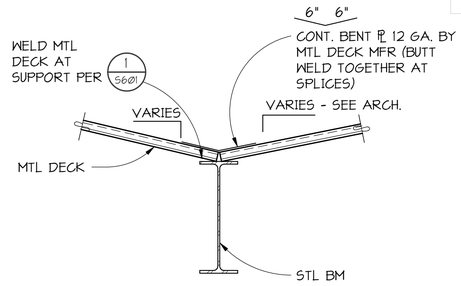
1 S6Ø1 **DETAIL**
NO SCALE

NOTES:
1. OPENINGS LESS THAN 6"x6" REQUIRE NO FRAMING.
2. FOR OPENINGS GREATER THAN 16" OR 75 POUNDS LOAD - SEE 5 S6Ø1
3. OPENINGS SHALL HAVE 2Ø" MINIMUM CLEARANCE BETWEEN THEM.



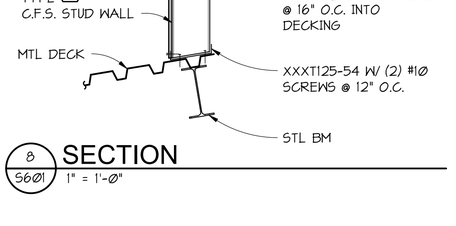
TYPICAL AT ISOLATED OPENINGS IN NON-COMPOSITE METAL DECK LESS THAN 16 INCH SQUARE

2 S6Ø1 **DETAIL**
NO SCALE



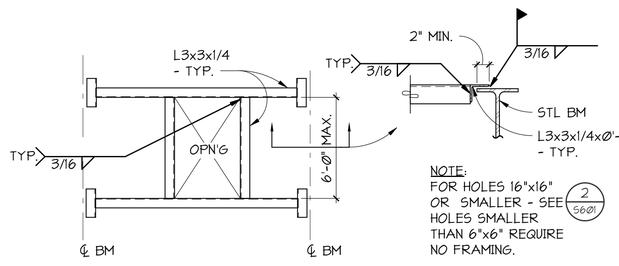
TYPICAL CONNECTION OF METAL DECK AT VALLEY

3 S6Ø1 **SECTION**
NO SCALE



ROOF ANCHOR AT STEEL BEAM: FR-1

4 S6Ø1 **SECTION**
NO SCALE

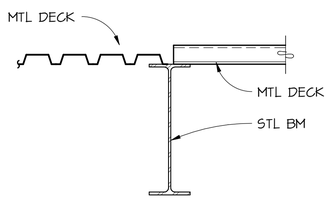


NOTE:
FOR HOLES 16"x16" OR SMALLER - SEE 2 S6Ø1 HOLES SMALLER THAN 6"x6" REQUIRE NO FRAMING.

TYPICAL FRAMING AT OPENINGS IN METAL ROOF DECK (MAXIMUM LOAD = 6ØØ POUNDS)

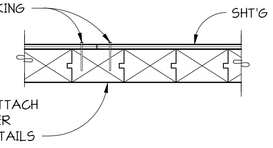
5 S6Ø1 **DETAIL**
NO SCALE

NOTE:
SIMILAR WHERE DECKING IS ORIENTED OPPOSITE DIRECTION



6 S6Ø1 **SECTION**
1" = 1'-Ø"

PROVIDE 10d NAILS @ 6" O.C. AROUND SHT'G EDGES & 12" O.C. IN EA. DIRECTION IN FIELD INTO DECKING



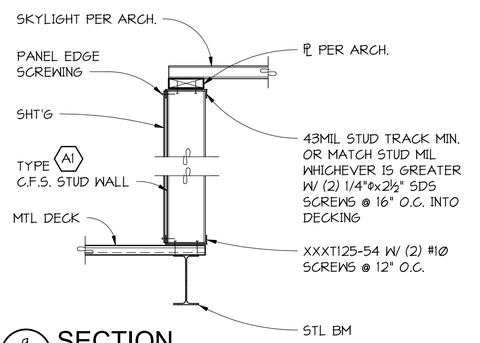
NOTE:
DECKING SHALL BE INSTALLED WITH WITH SIMPLE SPAN LAYUP AND WITH TONGUES UP THE SLOPE.

TYPICAL ROOF DECKING LAYUP AND FASTENERS

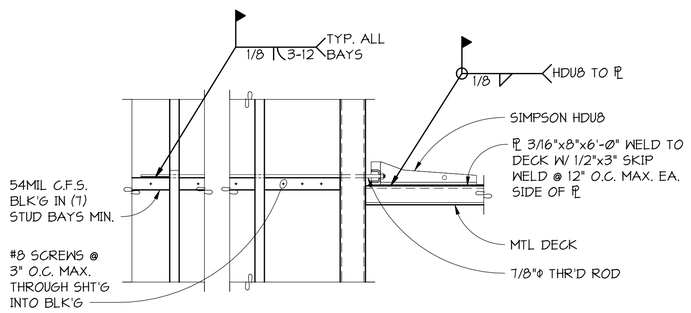
7 S6Ø1 **SECTION**
NO SCALE

NOTE:
FOR RAKE CONDITION - SEE 9 S6Ø1

8 S6Ø1 **SECTION**
1" = 1'-Ø"



9 S6Ø1 **SECTION**
1" = 1'-Ø"



10 S6Ø1 **SECTION**
1" = 1'-Ø"

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

LUKE A. HEATH
STATE OF WASHINGTON
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER

drawn by
DMY
checked by
SJW

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM 1 11/8/2019

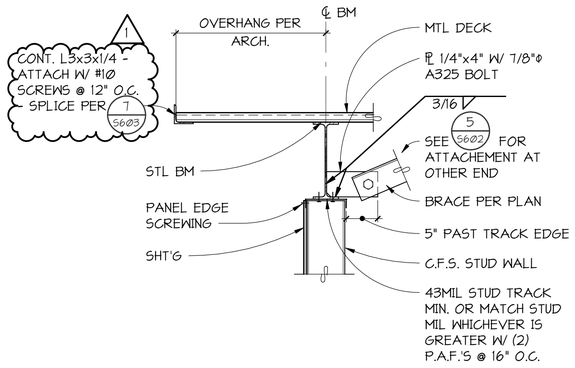
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

STEEL METAL DECK ROOF DETAILS

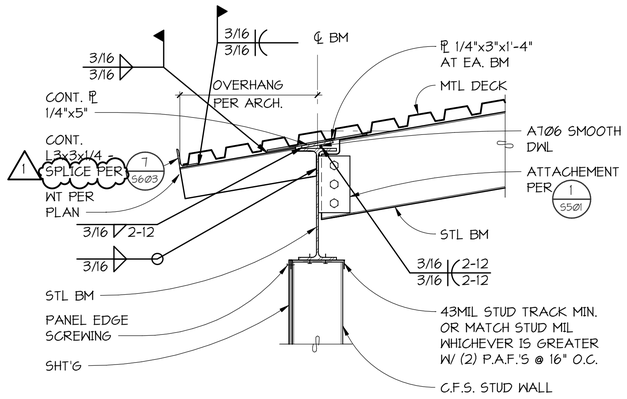
S601

Scale **As indicated**

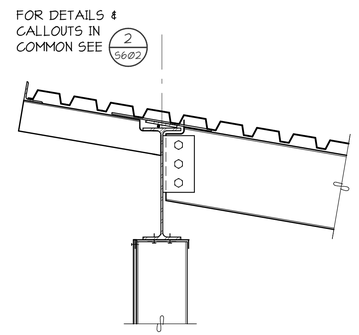
11/6/2019 12:45:14 PM C:_Revit Models\19190 Fir Grove Childrens Center r2019 (Central)_dhome@pcs-structural.com.rvt



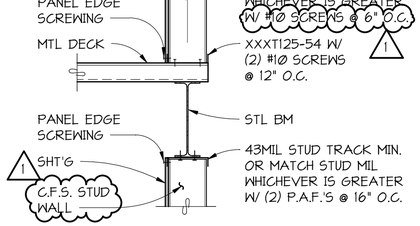
1 S602 **SECTION**
1" = 1'-Ø"



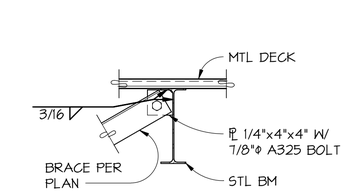
2 S602 **SECTION**
1" = 1'-Ø"



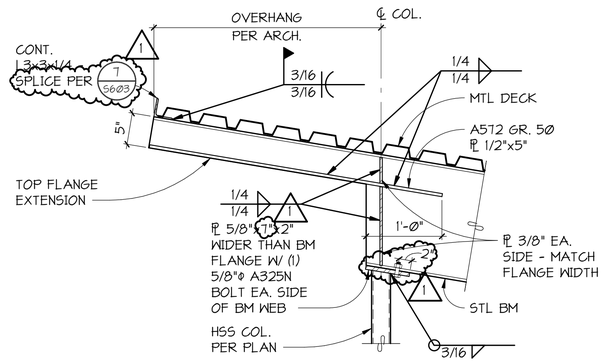
3 S602 **SECTION**
1" = 1'-Ø"



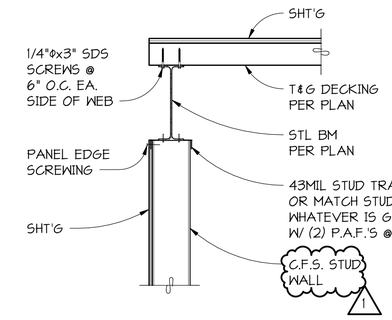
4 S602 **SECTION**
1" = 1'-Ø"



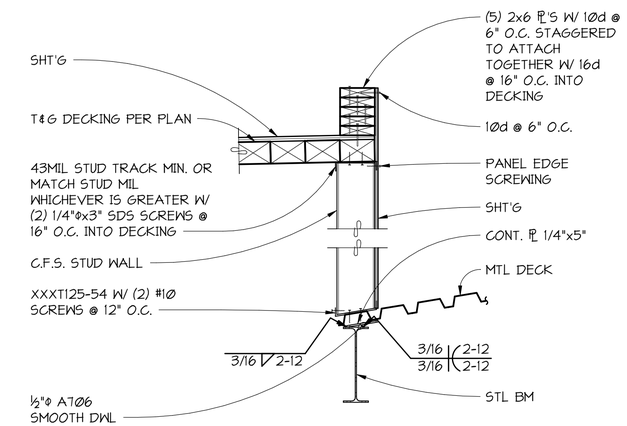
5 S602 **SECTION**
1" = 1'-Ø"



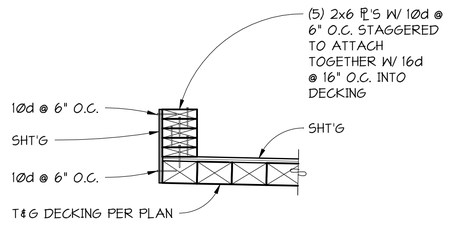
6 S602 **SECTION**
1" = 1'-Ø"



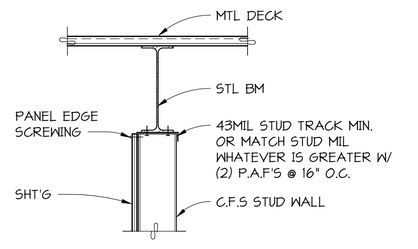
7 S602 **SECTION**
1" = 1'-Ø"



8 S602 **SECTION**
1" = 1'-Ø"



9 S602 **SECTION**
1" = 1'-Ø"



10 S602 **SECTION**
1" = 1'-Ø"

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

LUKE A. HEATH
STATE OF WASHINGTON
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER

drawn by
DMY
checked by
SJW

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM 1 11/8/2019

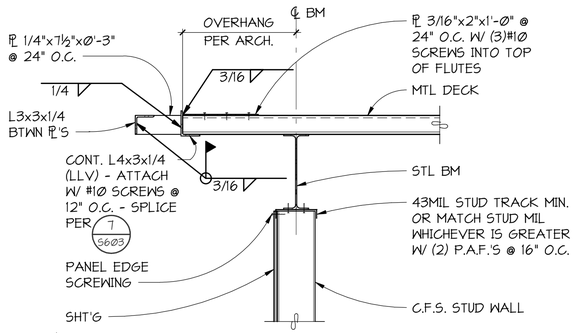
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

ROOF DETAILS

S602

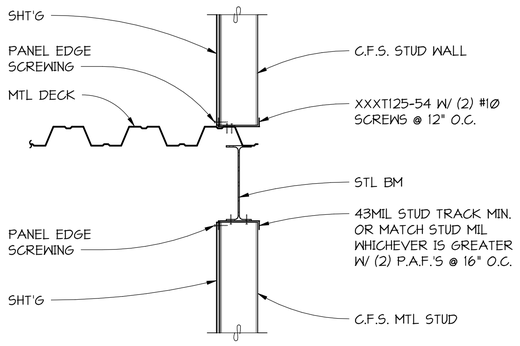
Scale **1" = 1'-0"**

11/6/2019 12:45:19 PM C:_Revit Models\19190 Fir Grove Childrens Center r2019 (Central)_dhorne@pcs-structural.com.rvt

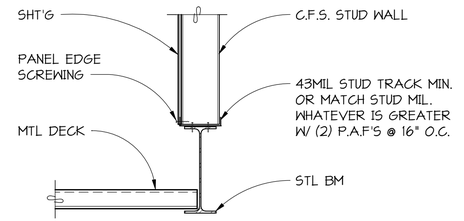


1/S603 SECTION
1" = 1'-Ø"

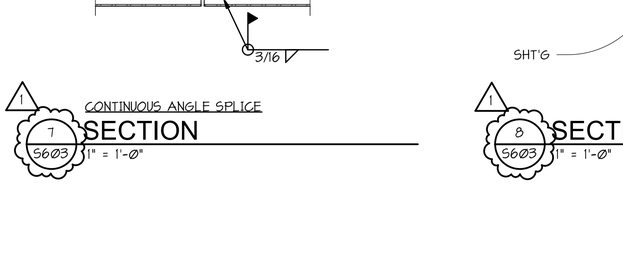
NOTE:
SIMILAR WHERE DECKING IS RUNNING
PERPENDICULAR TO STEEL BEAM



2/S603 SECTION
1" = 1'-Ø"



3/S603 SECTION
1" = 1'-Ø"



TYPICAL COILING/SLIDING DOOR OPENING

4/S603 ELEVATION
1/4" = 1'-Ø"

5/S603 SECTION
1" = 1'-Ø"

1/S603 6/S603 SECTION
1" = 1'-Ø"

CONTINUOUS ANGLE SPLICE

1/S603 7/S603 SECTION
1" = 1'-Ø"

1/S603 8/S603 SECTION
1" = 1'-Ø"

1/S603 9/S603 SECTION
1" = 1'-Ø"

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

LUKE A. HEATH
STATE OF WASHINGTON
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER

drawn by
DMY
checked by
SJW

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM 1 11/8/2019

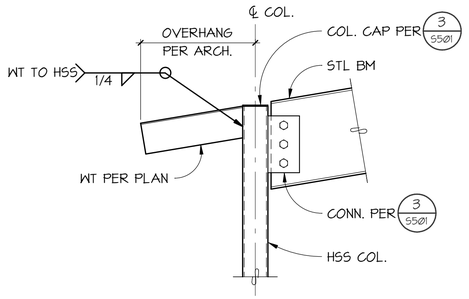
ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

ROOF DETAILS

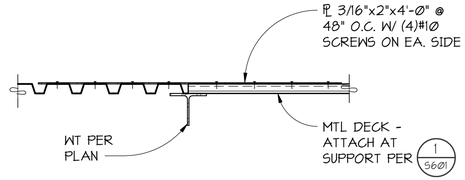
S603

Scale As indicated

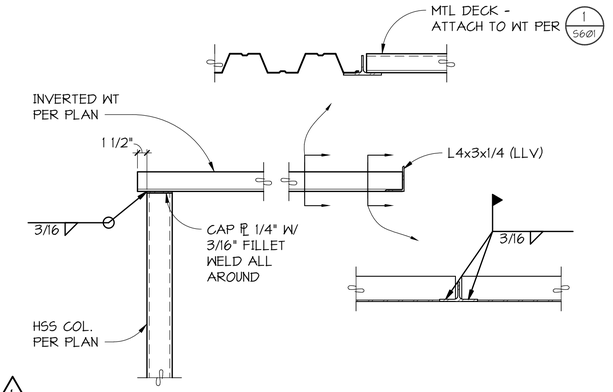
11/6/2019 12:45:23 PM C:_Revit Models\19190 Fir Grove Childrens Center r2019 (Central)_dhorne@pcs-structural.com.rvt



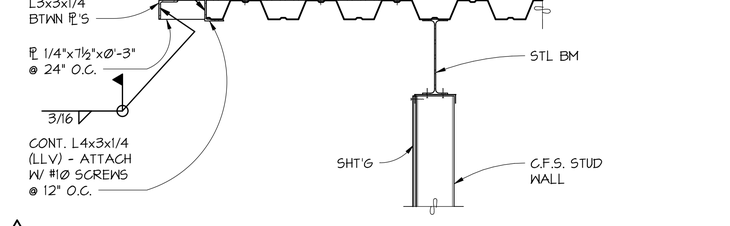
1/S604 SECTION
1" = 1'-0"



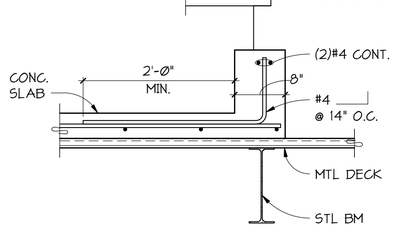
2/S604 SECTION
1" = 1'-0"



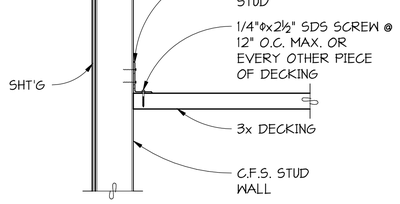
3/S604 SECTION
1" = 1'-0"



4/S604 SECTION
1" = 1'-0"



5/S604 SECTION
1" = 1'-0"



6/S604 SECTION
1" = 1'-0"

LSW ARCHITECTS
LSW Architects, PC
610 Esther St., Suite 200
Vancouver, WA 98660
360.694.8571
LSW-Architects.com

PCS Structural Solutions
Seattle | Tacoma | Portland
www.pcs-structural.com

drawn by
DMY
checked by
SJW

lsw job number
2018-0029

FIR GROVE CHILDREN'S CENTER
VANCOUVER PUBLIC SCHOOLS
3200 E 18TH ST
VANCOUVER, WA 98661

issue date
10/15/2019
BID/PERMIT SET

revisions
1 ADDENDUM 1 11/8/2019

ANY REPRODUCTION AND/OR MODIFICATION IN ANY FORM OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF LSW ARCHITECTS, PC

ROOF DETAILS

S604

Scale **1" = 1'-0"**

11/6/2019 12:45:27 PM C:_Revit Models\19190 Fir Grove Childrens Center r2019 (Central)_dhome@pcs-structural.com.rvt