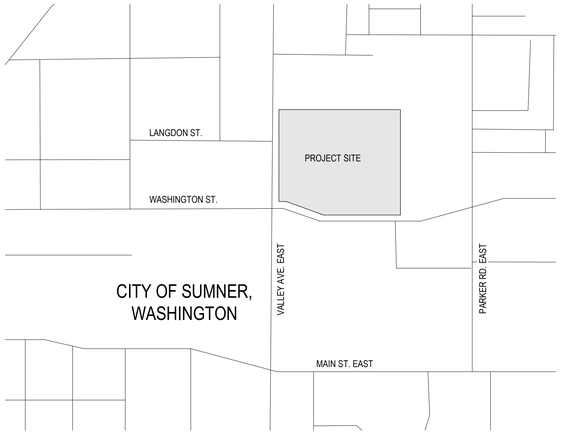
## Rendering of Proposed Exterior

NO SCALE
NOTE: THIS RENDERING IS FOR ILLUSTRATIVE PURPOSES ONLY. NOT TO BE USED FOR DESIGN, PERMITTING, BIDDING, OR CONSTRUCTION.

## Vicinity Map

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## Project Team


CLIENT: **CORPORATION OF THE CATHOLIC ARCHBISHOP OF SEATTLE**
710 9TH AVENUE
SEATTLE, WA 98104
ATTN: ED FOSTER
EDWARD.FOSTER@SEATTLEARCH.ORG

PARISH: **ST. ANDREW CATHOLIC CHURCH**
1401 VALLEY AVENUE EAST
SUMNER, WA 98390
ATTN: REV. JERRY BURNS
FRJERRY@STANDREWSUMNER.ORG
CHRISTINE TAPEC (PARISH ADMIN)
CHRISTINE@STANDREWSUMNER.ORG
CARL JONES (COMM. CHAIR)
CARLOFSUMNER@GMAIL.COM

ARCHITECT: **RMC ARCHITECTS, PLLC**
1223 RAILROAD AVENUE
BELLINGHAM, WA 98225
T 360 676 7733
ATTN: BRAD CORNWELL; ALLISON ROSS
BRAD.C@RMCARCHITECTS.COM
ALLISON.R@RMCARCHITECTS.COM

GENERAL CONTRACTOR: **HILGER CONSTRUCTION**
10905 25TH AVENUE EAST
TACOMA, WA 98445
T 253 584 4766
ATTN: NICK HILGER; DAVID MACK
NICK.HILGER@HILGERCONSTRUCTION.COM
DAVID.MACK@HILGERCONSTRUCTION.COM

STRUCTURAL ENGINEER: **PCS STRUCTURAL SOLUTIONS**
1250 PACIFIC AVENUE, SUITE 701
TACOMA, WA 98402
T 253 383 2797
ATTN: DON SCOTT, PE
DSCOTT@PCS-STRUCTURAL.COM

KITCHEN CONSULTANT: **BARGREEN ELLINGSON**
6626 TACOMA MAL BLVD, B
TACOMA, WA 98409
T 253 225 8325
ATTN: KARL SAWYER
KSAWYER@BARGREEN.COM

MECHANICAL ENGINEER: **HULTZ/BHU**
1111 FAWCETT AVENUE, SUITE 100
TACOMA, WA 98402
T 253 383 3257
ATTN: NICK HULTZ
NICKH@HULTZBHU.COM

ELECTRICAL ENGINEER: **HULTZ/BHU**
1111 FAWCETT AVENUE, SUITE 100
TACOMA, WA 98402
T 253 383 3257
ATTN: SCOTT MALLORY
SCOTTM@HULTZBHU.COM

CIVIL ENGINEER: **FREELAND & ASSOCIATES, INC.**
220 W. CHAMPION STREET, SUITE 200
BELLINGHAM, WA 98225
T 360 650 1408
ATTENTION: INGA DRECHSEL
IDRECHSEL@FREELANDENGINEERING.COM

LANDSCAPE ARCHITECT: **FREELAND & ASSOCIATES, INC.**
220 W. CHAMPION STREET, SUITE 200
BELLINGHAM, WA 98225
T 360 650 1408
ATTENTION: SCOTT RIGGINS
SRIGGINS@FREELANDENGINEERING.COM

GEOTECH: **GEO ENGINEERS, INC.**
1101 FAWCETT AVE SUITE 200
TACOMA, WA 98402
T 253 722 2446


## Project Information

**PROJECT DATA**

| | |
|---|---|
| PROJECT NAME: | ST. ANDREW CATHOLIC CHURCH PARISH HALL |
| PROJECT DESCRIPTION: | NEW, SINGLE STORY PARISH HALL, STRUCTURE, AND ASSOCIATED SITE WORK |
| OWNER: | CORPORATION OF THE CATHOLIC ARCHBISHOP OF SEATTLE<br>710 9TH AVENUE, SEATTLE, WA 98104, 206-382-4851 |
| SITE ADDRESS: | 1401 VALLEY AVE. E. SUMNER, WA 98390-2720 |
| PARCEL NUMBER: | 0520192161 |
| LEGAL DESCRIPTION: | PARCEL A OF CITY OF SUMNER LOT LINE ADJUSTMENT RECORDED FEBRUARY 9, 1999 UNDER RECORDING NUMBER 9902095001, RECORDS OF PIERCE COUNTY, WASHINGTON; EXCEPT THE SOUTH 110.00 FEET OF THE EAST 55.00 FEET THEREOF.<br>(BEING KNOWN AS REVISED PARCEL A OF CITY OF SUMNER BOUNDARY LINE ADJUSTMENT NO. PLN-2001-00-0037. RECORDED UNDER RECORDING NUMBER 200106200171.)<br>SITUATED IN THE COUNTY OF PIERCE. STATE OF WASHINGTON. |
| LOT AREA: | 11.48 ACRES OR 500,072 SF |
| ZONING: | CITY OF SUMNER, WA:<br>• LOW RISE RESIDENTIAL 8500 (LDR 8.5)<br>• INTENDED USE IS 'CONDITIONALLY PERMITTED' USE PER 18.12.40 |
| ZONING ALLOWABLE HEIGHT: | 50 FEET PER SMC 18.12.080-L CHURCHES ALLOWED TO BE 50;<br>(TYP. ZONING LIMIT 30') ✓ OK |
| PARKING: | EXISTING: 117 STANDARD + 9 ADA STALLS (126 TOTAL EXISTING)<br>PROPOSED NEW: 59 STANDARD + 4 ADA STALLS (63 TOTAL NEW)<br>189 TOTAL STALLS ON SITE |
| RELATED PERMITS: | 2019 - SEPA PERMIT PLN - 2019 - 0017<br>2019 - NPDES N.O.I # 21414<br>W.A.R. # XXXX<br>2019 - CONDITIONAL USE PERMIT PLN - 2019 - 0016<br>2019 - VARIANCE PLN - 2019 - 0107<br>2019 - SITE DEVELOPMENT PERMIT SIT - 2019 - 0039 |
| DEFERRED PERMIT SUBMITTALS: | 2019 - FIRE PROTECTION PERMITS |

**BUILDING CODE REQUIREMENTS**

| | |
|---|---|
| HEIGHT: | 1 STORY, 35'-8" PROPOSED , 2 STORIES, 50' ALLOWED PER ZONING, ✓ OK |
| AREA: | 9,404 SF PROPOSED, 24,500 ALLOWED, ✓ OK |
| CONSTRUCTION TYPE: | VB |
| OCCUPANCY: | A3, B OCCUPANCY @ KITCHEN<br>1 HOUR WALL SEPARATION BETWEEN KITCHEN AND A3 OCCUPANCIES |
| OCCUPANT LOAD: | HALL: 282<br>MEETING ROOMS: 75<br>KITCHEN: 3<br>TOTAL: 382 PERSONS |
| SPRINKLERS: | NEW NFPA (13) WET TYPE AND ASSOCIATED FIRE ALARM SYSTEM |
| FIRE RESISTANCE RATING: (TABLE 601) | **TYPE VB**<br>PRIMARY STRUCTURAL FRAME 0 HOURS<br>BEARING WALLS (INTERIOR AND EXTERIOR) 0 HOURS<br>NON-BEARING EXTERIOR WALLS TABLE 602<br>NON-BEARING INTERIOR WALLS 0 HOURS<br>FLOOR CONSTRUCTION / SECONDARY MEMBERS 0 HOURS<br>ROOF CONSTRUCTION / SECONDARY MEMBERS 0 HOURS |
| APPLICABLE CODES: | INTERNATIONAL BUILDING CODE (IBC), 2015 EDITION - CHAPTER 51-50 WAC<br>INTERNATIONAL MECHANICAL CODE (IMC), 2015 EDITION - CHAPTER 51-52 WAC<br>INTERNATIONAL FUEL GAS CODE (IFGC), 2015 EDITION - CHAPTER 51-52 WAC<br>INTERNATIONAL FIRE CODE (IFC), 2015 EDITION - CHAPTER 51-54 WAC<br>UNIFORM PLUMBING CODE (UPC), 2015 EDITION - CHAPTER 51-56, 51-57 WAC<br>WASHINGTON STATE ENERGY CODE (WSEC), 2015 EDITION<br>- USE ENV-UA & ENV-SHGC PATH<br>- C406.1.2 REDUCED LIGHTING POWER<br>- C406.1.7 ENHANCED ENVELOPE PERFORMANCE<br>INTERNATIONAL ENERGY CONSERVATION CODE (IECC) - CHAPTER 51-11C & 51-11R WAC<br><br>*NOTE: ALL CODES ARE SUBSEQUENTLY MODIFIED BY WASHINGTON ADMINISTRATIVE CODE (WAC) AMENDMENTS |
| DESIGN CRITERIA: | SEISMIC DESIGN: SITE CLASS D-1<br>WIND SPEED: PER ASCE / SEI 7-10 AT ULTIMATE FORCE LEVEL - 85 MPH EXPOSURE B*<br>SNOW LOAD: 25 LBS / SF - GROUND<br>RAIN: 2" / HOUR FOR ROOF DRAINAGE<br>SOILS: PER IBC SECTION 1804<br>FROST DEPTH: 18"<br>SOILD CLASSIFICATION TYPE: PER SITE PSECIFIC GEOTECH REPORT BY GEOENGINEERS<br><br>*UNLESS A GREATED VALUE IS REQUIRED UNDER SITE SPECIFIC CONDITIONS |


RMC ARCHITECTS

RMC Architects, PLLC • 1223 Railroad Avenue • Bellingham, WA 98225
P: 360.676.7733 • F: 360.738.0448 • rmc@rmcarchitects.com


6979 REGISTERED ARCHITECT
BRADLEY P. CORNWELL
STATE OF WASHINGTON

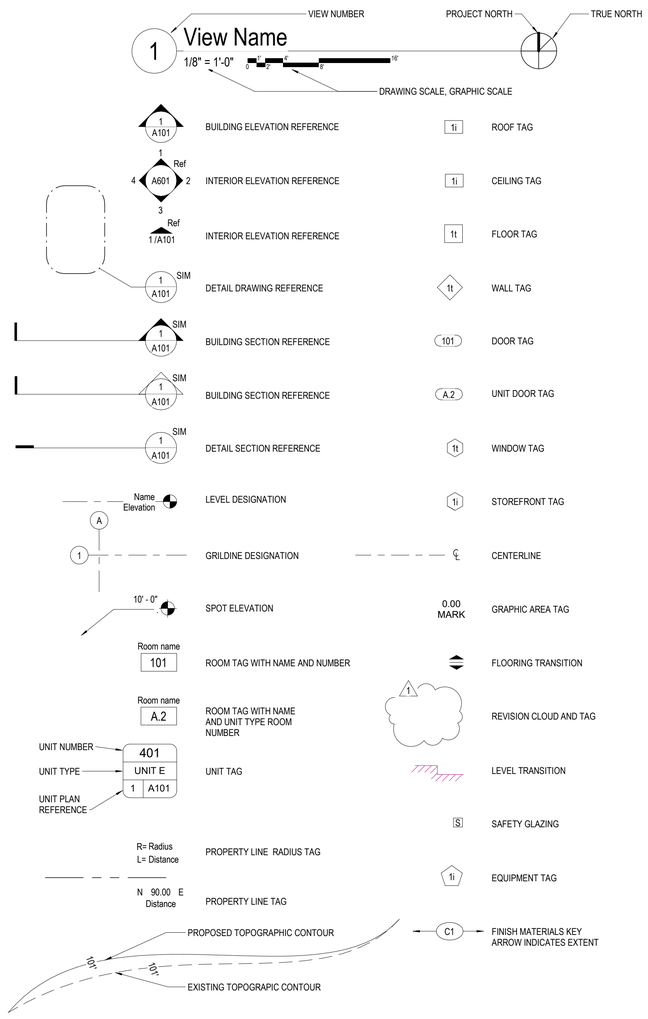
Archdiocese of Seattle
# St. Andrew Catholic Church Parish Hall
1401 Valley Avenue East
Sumner, WA 98390-2720

Job No: 1851 Date: 2020-02-07
File No: 1851.St. Andrew Parish Hall
Drawn By: AMR
Checked By: BPC
Issued for: PERMIT SET

COVER SHEET

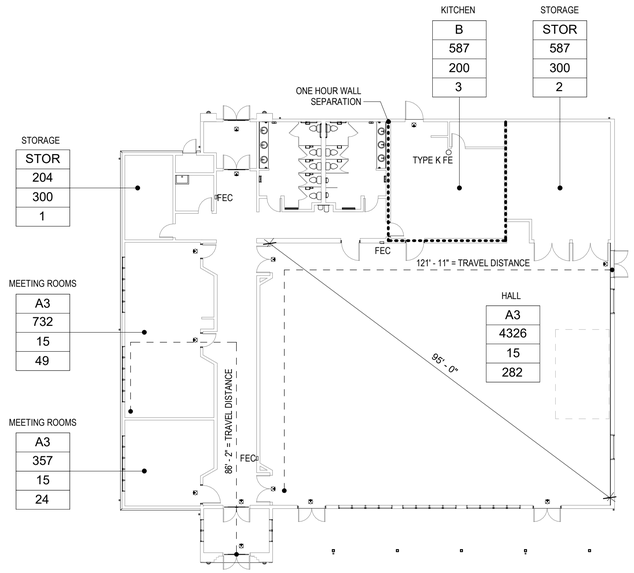
G001

# Architectural Symbols




# Fire Department Additional Information

| DISTRICT FIRE DEPARTMENT PERMIT CHECKLIST | |
|---|---|
| UNDERGROUND FIRE SERVICE MAIN | |
| FIRE SPRINKLERS | |
| FIRE ALARM SYSTEM | |
| FIRE STAND PIPE | N/A |
| FIRE APPARATUS ACCESS ROAD | N/A |




1 Life Safety Plan (SPRINKLERED STRUCTURE)
1/16" = 1'-0"

## WSEC CALCULATIONS

- TOTAL WALL AREA: 7,660 SF
- TOTAL FENESTRATION: 951 SF
- PERCENT OF OPENINGS: 7.5%
- MAX. AREA OF OPENINGS ALLOWED: 30.0% ✓ OK

- BUILDING SHALL PERFORM TO WSEC C103.2 AND C402.5.1.2 BUILDING AIR LEAKAGE TEST IN ACCORDANCE WITH ASTM E779 OR EQUIVALENT. MAX LEAKAGE RATE = 0.40 CFM/SQFT @ PRESSURE DIFFERENTIAL OF 0.3" WATER GAUGE.

- AIR ENVELOPE AREAS ARE:
  - ROOF: 9,404 SQ. FT.
  - NORTH: 1,669 SQ. FT.
  - WEST: 1,842 SQ. FT.
  - SOUTH: 1,867 SQ. FT.
  - EAST: 2,282 SQ. FT.
  - FLOOR: 9,404 SQ. FT.

1. SUBMIT AIR BARRIER TEST RESULTS TO ARCHDIOCESE OF SEATTLE AND AHJ.
2. IF TEST RESULTS EXCEED 0.40 CFM/FT² THEN VISUALLY INSPECT AIR BARRIER AND SEAL NOTED SOURCES OF LEAKAGE.
3. SUBMIT FOLLOW-UP REPORT TO ARCHDIOCESE AND AHJ NOTING CORRECTIVE MEASURES TAKEN.
4. INCLUDE TEST REPORT IN CLOSEOUT DOCUMENTATION.

## Plan Legend

| | |
|---|---|
| XX | OCCUPANCY GROUP |
| XX | AREA |
| XX | OCCUPANCY LOAD FACTOR |
| XX | OCCUPANCY LOAD |
| | COMMON PATH OF EGRESS TRAVEL DISTANCE |
| | ILLUMINATED EXIT SIGN (NEW OR EXISTING) |
| | DIRECTIONAL ILLUMINATED EXIT SIGN (NEW OR EXISTING) |
| FE | NEW WALL-MOUNTED FIRE EXTINGUISHER |
| FEC | FIRE EXTINGUISHER CABINET (EXISTING OR NEW) |


RMC ARCHITECTS
RMC Architects, PLLC • 1223 Railroad Avenue• Bellingham, WA 98225
P:360.676.7733 • F:360.738.0448 • rmc@rmcarchitects.com


6979 REGISTERED ARCHITECT
BRADLEY P. CORNWELL
STATE OF WASHINGTON

Archdiocese of Seattle
St. Andrew Catholic Church Parish Hall
1401 Valley Avenue East
Sumner, WA 98390-2720

Job No: 1851 Date: 2020-02-07
File No: 1851 St. Andrew Parish Hall
Drawn By: AMR
Checked By: BPC
Issued for: PERMIT SET

PROJECT AND CODE INFORMATION

G002

# ST. ANDREW CATHOLIC CHURCH PARISH HALL

## CIVIL SITE PLAN

**NW 1/4, SW 1/4, & SW 1/4, NW 1/4 SECTION 19, TOWNSHIP 20 NORTH, RANGE 5 EAST, W.M.**
**CITY OF SUMNER, PIERCE COUNTY, WASHINGTON**

## LEGEND

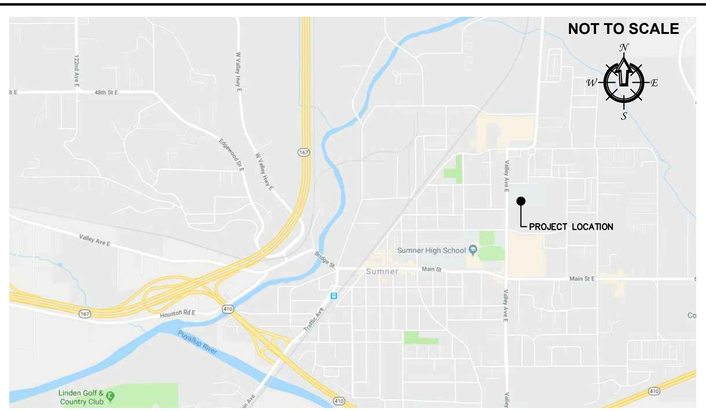
- = FND BRASS DISK MONUMENT
- = T.B.M. TOP OF R.R. SPIKE
- = FND CAPPED REBAR
- = FND NAIL AT PARCEL CORNER
- = SET CAPPED REBAR, MAN 2017 (PLS #9361)
- = EXIST SD CATCH BASIN (TYPE I)
- = EXIST SD CATCH BASIN (TYPE 2)
- = EXIST SD AREA DRAIN
- = EXIST SD CLEANOUT
- = EXIST SD CONTROL STRUCTURE
- = PROPOSED NYLOPLAST STORM DRAIN OVERFLOW
- = PROPOSED STORM DRAIN CLEANOUT
- = PROPOSED STORM DRAIN CATCH BASIN (TYPE 1)
- = PROPOSED STORM DRAIN CATCH BASIN (TYPE 2)
- = EXIST SANITARY SEWER MANHOLE
- = EXIST SANITARY SEWER CLEANOUT
- = EXIST SANITARY SEWER SERVICE
- = PROPOSED SANITARY SEWER SERVICE
- = PROPOSED SEWER CLEANOUT
- = PROPOSED SEWER MANHOLE
- = EXIST FIRE STAND PIPE
- = EXIST WATER BLOW-OFF VALVE
- = EXIST WATER METER BOX
- = EXIST WATER VALVE
- = EXIST FIRE HYDRANT
- = PROPOSED FIRE HYDRANT
- = PROPOSED FIRE DEPT. CONNECTION
- = PROPOSED POST INDICATOR VALVE
- = PROPOSED FITTINGS
- = PROPOSED WATER VALVE
- = PROPOSED BACKFLOW PREVENTION
- = PROPOSED WATER METER
- = EXIST POWER METER/STRUCTURE
- = EXIST POWER VAULT
- = PROPOSED POWER VAULT
- = PROPOSED BOLLARD W/LED
- = EXIST POWER/AND OR UTILITY POLE
- = EXIST GUY WIRE
- = EXIST STREET LIGHT POLE
- = EXIST ELECTRICAL J-BOX
- = EXIST TELEPHONE PEDESTAL
- = EXIST GAS VALVE
- = EXIST GAS METER
- = PROPOSED GAS METER
- = PROPOSED ASPHALT PAVEMENT
- = PROPOSED CONCRETE PAVEMENT
- = PROPOSED CONCRETE SIDEWALK
- = PROPOSED GRAVEL SURFACING
- = IRRIGATION CONTROL VALVE BOX

- = EXIST EDGE OF ASPHALT PAVEMENT
- = EXIST EDGE OF CONCRETE PAVEMENT
- = EXIST EDGE OF GRAVEL SURFACING
- = EXIST FIBER OPTIC LINE
- = EXIST OVERHEAD POWER
- = EXIST UNDERGROUND POWER
- = EXIST UNDERGROUND PHONE
- = EXIST OVERHEAD UTILITES (UNKNOWN)
- = EXIST UNDERGROUND TV CABLE
- = EXIST GAS MAIN
- = EXIST WATER LINE
- = EXIST SANITARY SEWER LINE
- = EXIST STORM DRAIN LINE
- = EXST CHAIN LINK FENCE
- = PROPOSED CHAIN LINK FENCE
- = EXIST CONTOUR (INDEX)
- = EXIST CONTOUR (NORMAL)
- = EXIST TOP OF BANK
- = EXIST TOE OF BANK
- = EXIST SWALE
- = EXIST EASEMENT LINE
- = PROPOSED EASEMENT LINE
- = PROPOSED SAN. SEWER LINE
- = PROPOSED STORM DRAIN LINE
- = PROPOSED PERF STORM DRAIN
- = PROPOSED GRASS LINED SWALE
- = PROPOSED ROOF DRAIN LINE
- = PROPOSED GAS SERVICE LINE
- = PROPOSED WATER LINE
- = PROPOSED IRRIGATION MAIN LINE
- = EXIST LIGHT POLE
- = PROP LIGHT POLE LUMINARE W/1 LIGHT
- = PROP LIGHT POLE W/SECURITY CAMERA
- = EXIST SIGN
- = PROPOSED SIGN
- = EXIST METAL PROTECTION BOLLARD
- = PROPOSED METAL PROTECTION BOLLARD
- = PROPOSED ADA PARKING STALL

- TS: 55.40 = PROPOSED SPOT ELEV @ TOP OF SIDEWALK
- TP: 55.50 = PROPOSED SPOT ELEV @ TOP OF PAVEMENT
- TC: 55.50 / TP: 55.00 = PROPOSED SPOT ELEV @ TOP OF CURB
- FG: 56.00 = PROPOSED SPOT ELEV @ TOP OF FINISHED GRADE
- A / C1 = DETAIL CALLOUT

## VICINITY MAP

NOT TO SCALE




## CITY OF SUMNER GENERAL NOTES

**CITY OF SUMNER GENERAL NOTES :**

1. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE MOST RECENT WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AND THE CITY OF SUMNER DEVELOPMENT SPECIFICATIONS. IN CASE OF CONFLICT, THE CITY DEVELOPMENT SPECIFICATIONS AND STANDARD DETAILS TAKE PRECEDENCE.
2. PRIOR TO ANY WORK COMMENCING, THE CONTRACTOR SHALL ATTEND A PRECONSTRUCTION MEETING TO BE ATTENDED BY ALL MAJOR CONTRACTORS, REPRESENTATIVES OF INVOLVED UTILITIES, AND THE CITY OF SUMNER. CALL (253) 299-5700 TO SCHEDULE A MEETING AT LEAST TWO (2) WORKING DAYS IN ADVANCE.
3. SITE OWNER IS TO OBTAIN ALL PERMITS REQUIRED FROM THE STATE TO INCLUDE BUT NOT TO BE LIMITED TO THE NPDES STORMWATER GENERAL PERMIT.
4. THE CONTRACTOR SHALL NOTIFY THE COUNTY AND/OR STATE, AND OBTAIN ALL NECESSARY PERMITS AND APPROVALS IF CONSTRUCTION IS TO TAKE PLACE IN COUNTY AND/OR STATE RIGHT-OF-WAY.
5. ALL WORK WITHIN THE CITY RIGHT-OF-WAY SHALL BE CONDUCTED BY A LICENSED, BONDED, AND INSURED CONTRACTOR. THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT A STREET OBSTRUCTION NOTIFICATION FORM, INCLUDING A TRAFFIC CONTROL PLAN IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND WSDOT SPECIFICATION SECTION 1-10, TO THE PUBLIC WORKS DEPARTMENT FOR REVIEW AND APPROVAL A MINIMUM OF TWO (2) FULL WORKING DAYS PRIOR TO STREET OBSTRUCTION. NOTE THAT THE DAY THE STREET OBSTRUCTION NOTIFICATION FORM IS SUBMITTED TO THE CITY SHALL NOT COUNT AS ONE OF THE TWO DAYS. A NEW FORM WILL BE REQUIRED IF THE TIME, DATE, OR LOCATION OF THE PROPOSED OBSTRUCTION CHANGES FROM THAT REPORTED ON THE ORIGINAL FORM. CERTIFIED COPIES OF THE CONTRACTOR'S BUSINESS LICENSE AND INSURANCE POLICY SHALL BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT BEFORE PERMIT ISSUANCE.
6. ANY STRUCTURE AND/OR OBSTRUCTION THAT NEED TO BE REMOVED OR RELOCATED AS A RESULT OF THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
7. ANY DISTURBANCE OR DAMAGE TO CRITICAL AREAS AND ASSOCIATED BUFFERS SHALL BE MITIGATED IN ACCORDANCE WITH A MITIGATION PLAN APPROVED BY THE SUMNER COMMUNITY DEVELOPMENT DEPARTMENT. THE PREPARATION AND IMPLEMENTATION OF THE MITIGATION PLAN SHALL BE AT THE DEVELOPER'S EXPENSE.
8. ALL MANHOLES AND CATCH BASINS SHALL BE COVERED WITH TEMPORARY COVERS TO PREVENT ENTRANCE OF DIRT AND DEBRIS DURING CONSTRUCTION.
9. BURIED UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THE CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO ANY CONSTRUCTION. CALL 1-800-424-5555 FOR "ONE CALL LOCATES."
10. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE ENGINEER OF RECORD AND THE CITY PUBLIC WORKS DEPARTMENT PRIOR TO IMPLEMENTATION IN THE FIELD.
11. TRAFFIC CONTROL SHALL BE MAINTAINED BY THE CONTRACTOR. CONSTRUCTION SIGNS, CONES, BARRICADES, AND FLAGGERS SHALL BE EMPLOYED AS SPECIFIED ON THE APPROVED TRAFFIC CONTROL PLANS OR AS REQUIRED BY THE PUBLIC WORKS DEPARTMENT.
12. AN APPROVED COPY OF THESE PLANS WITH REVISIONS MUST BE ON SITE WHENEVER CONSTRUCTION WORK IS IN PROGRESS.
13. THE PUBLIC WORKS DEPARTMENT REQUIRES THE CONTRACTOR TO PROVIDE ADEQUATE HORIZONTAL AND VERTICAL CONTROL AT ALL TIMES ON SITE FOR PERIODIC SPOT CHECKS BY CITY PERSONNEL. THIS CONTROL WILL CONSIST OF FRONT-PROPERTY CORNER OFFSETS (20 FEET) STAKED PERPENDICULAR TO THE ROAD CENTERLINE. ALL CURVE RADIUS POINTS WILL BE STAKED.
14. PRIVATE UTILITY EASEMENTS ARE REQUIRED ON THE FRONT 10 FEET OF EACH LOT.
15. IF WORKERS ENTER ANY TRENCH OR OTHER EXCAVATION, FOUR (4) FEET OR MORE IN DEPTH, THAT DOES NOT MEET THE OPEN PIT REQUIREMENTS OF WSDOT SECTION 2-09.3, THE TRENCH/EXCAVATION SHALL BE SHORED AND CRIBBED. THE CONTRACTOR ALONE SHALL BE RESPONSIBLE FOR WORKER SAFETY. ALL TRENCH SAFETY SYSTEMS SHALL MEET THE REQUIREMENTS OF THE WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT, CHAPTER 49 17 RCW.
16. EAST PIERCE FIRE AND RESCUE SHALL BE NOTIFIED IMMEDIATELY OF ALL GAS LINE BREAKS.
17. CONSTRUCTION HOURS ARE MONDAY THROUGH FRIDAY, 7:00 A.M. TO 6:00 P.M., AND SATURDAY, SUNDAY, AND HOLIDAYS, 10:00 A.M. TO 6:00 P.M.. WORK CONDUCTED OUTSIDE THESE HOURS SHALL BE APPROVED BY THE COMMUNITY DEVELOPMENT DEPARTMENT A MINIMUM OF TWO (2) WORKING DAYS IN ADVANCE. THE DAY OF SUBMITTAL SHALL NOT BE COUNTED AS ONE OF THE TWO REQUIRED DAYS. ALL CITY PERSONNEL OVERTIME INSPECTION FEES SHALL BE PAID BY THE CONTRACTOR.
18. BEFORE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE PUBLIC WORKS DEPARTMENT DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK LISTED SHALL BE SATISFACTORILY COMPLETED PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
19. RECORD DRAWINGS (MYLAR) WILL BE SUBMITTED TO THE CITY BEFORE FINAL ACCEPTANCE.
20. NO CONSTRUCTION WORK SHALL BEGIN UNTIL THE OWNER/DEVELOPER HAS ACQUIRED ALL REQUIRED RIGHT-OF-WAY AND/OR EASEMENTS, AND HAS PROVIDED THE PUBLIC WORKS DEPARTMENT WITH COPIES OF THE RECORDED DOCUMENTS.

1

## DEPARTMENT OF ECOLOGY (DOE) NOTES

**TOXICS CLEANUP**

THIS PROPERTY IS WITHIN A QUARTER MILE OF ONE CONTAMINATED SITE. THE SITE IS SUMNER AUTO REPAIR PETROSAVE, FACILITY SITE ID (FSID) 3501054. TO SEARCH AND ACCESS INFORMATION CONCERNING THE SITE, SEE HTTP://WWW.ECY.WA.GOV/FS/ AND HTTPS://FORTRESS.WA.GOV/ECY/GSP/SITESEARCHPAGE.ASPX.

IF CONTAMINATION OF SOIL OR GROUNDWATER IS READILY APPARENT, OR IS REVEALED BY SAMPLING, THE DEPARTMENT OF ECOLOGY MUST BE NOTIFIED. CONTACT THE ENVIRONMENTAL REPORT TRACKING SYSTEM COORDINATOR AT THE SOUTHWEST REGIONAL OFFICE AT (360) 407-6300. FOR ASSISTANCE AND INFORMATION ABOUT SUBSEQUENT CLEANUP AND TO IDENTIFY THE TYPE OF TESTING THAT WILL BE REQUIRED, CONTACT EVA BARBER WITH THE TOXICS CLEANUP PROGRAM AT THE SOUTHWEST REGIONAL OFFICE AT (360) 407-7094.

**SOLID WASTE MANAGEMENT**

ALL GRADING AND FILLING OF LAND MUST UTILIZE ONLY CLEAN FILL. ALL OTHER MATERIALS MAY BE CONSIDERED SOLID WASTE AND PERMIT APPROVAL MAY BE REQUIRED FROM THE LOCAL JURISDICTIONAL HEALTH DEPARTMENT PRIOR TO FILLING. ALL REMOVED DEBRIS RESULTING FROM THIS PROJECT MUST BE DISPOSED OF AT AN APPROVED SITE. CONTACT THE LOCAL JURISDICTIONAL HEALTH DEPARTMENT FOR PROPER MANAGEMENT OF THESE MATERIALS. SOLID WASTE MANAGEMENT: DEREK ROCKETT (360) 407-6287

## PUGET SOUND ENERGY (PSE) NOTES

1

1. THIS PROJECT WILL INCLUDE THE DESIGN AND INSTALLATION OF THE STREET ILLUMINATION AS NECESSARY TO MEET CITY STANDARDS ALONG ALL FRONTAGES. DESIGN AND INSTALLATION OF ILLUMINATION SYSTEM WILL BE PROVIDED BY PUGET SOUND ENERGY AT THE APPLICANT'S COST.

2. COORDINATE LOCATION AND DESIGN OF NEW POWER AND GAS SERVICE WITH THE MECHANICAL AND ELECTRICAL PLANS AND SPECIFICATIONS. INSTALLATION OF POWER AND GAS SERVICES SHALL MEET PSE INSTALLATION SPECIFICATIONS.

## SHEET INDEX


| | |
|---|---|
| C1 | COVER SHEET |
| C2 | EXISTING CONDITIONS |
| C3 | TEMPORARY EROSION & SEDIMENTATION CONTROL PLAN (TESC OVERVIEW) |
| C4 | TEMPORARY EROSION & SEDIMENTATION CONTROL PLAN |
| C5 | TESC DETAILS AND NOTES |
| C6 | STORMWATER POLLUTION PREVENTION PLAN (SWPPP) |
| C7 | SITE PLAN (OVERVIEW) |
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| C11 | SEWER, WATER, & FIRE PLAN |
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| C15 | STORMWATER DETENTION POND SECTION AND FLOW CONTROL DETAILS |
| C16 | STORMWATER DETENTION POND AND TREATMENT DETAILS |
| C17 | SANITARY SEWER DETAILS AND SEWER SYSTEM NOTES |
| C18 | WATER AND FIRE PROTECTION DETAILS AND WATER SYSTEM NOTES |
| C19 | FIRE PROTECTION DETAILS |


## PROJECT CONTACTS


**APPLICANT**
ST. ANDREW CATHOLIC CHURCH
CARL JONES
1401 VALLEY AVENUE EAST
SUMNER, WA 98309
(253) 988-2275
carlofsumner@gmail.com

**ARCHITECT**
RMC ARCHITECTS
BRAD CORNWELL, AIA, LEED AP
1223 RAILROAD AVENUE
BELLINGHAM, WA 982225
(360) 676-7733
brad.c@rmcarchitects.com

**SURVEYOR**
TRIAD ASSOCIATES
LONNIE E. CARLSON, PLS
12112 115TH AVE. NE
KIRKLAND, WA 98034-6929
(425) 821-8448

**OWNER**
CORPORATION OF THE CATHOLIC ARCHBISHOP OF SEATTLE
710 9TH AVENUE
SEATTLE, WA 98104
(206) 382-4851

**CIVIL ENGINEER**
FREELAND & ASSOCIATES, INC.
TONY FREELAND, PE
220 W. CHAMPION STREET
SUITE 200
BELLINGHAM, WA 98225
(360) 650-1408
tfreeland@freelandengineering.com

**SURVEYOR**
SADLER-BARNARD & ASSOCIATES, INC.
DALE E. OAKS, PLS
717 W. STEWART
PUYALLUP, WA 98371
(253) 848-5170

**LANDSCAPE ARCHITECT**
FREELAND & ASSOCIATES, INC.
SCOTT RIGGINS, PLA
220 W. CHAMPION STREET
SUITE 200
BELLINGHAM, WA 98225
(360) 650-1408
sriggins@freelandengineering.com


## SURVEY NOTES

**LEGAL DESCRIPTION**

PARCEL A OF CITY OF SUMNER LOT LINE ADJUSTMENT RECORDED FEBRUARY 9, 1999 UNDER RECORDING NUMBER 9902095001, RECORDS OF PIERCE COUNTY, WASHINGTON; EXCEPT THE SOUTH 110.00 FEET OF THE EAST 55.00 FEET THEREOF;

(BEING KNOWN AS REVISED PARCEL A OF CITY OF SUMNER BOUNDARY LINE ADJUSTMENT NO. PLN-2001-00-0037, RECORDED UNDER RECORDING NUMBER 200106200171).

SITUATE IN THE COUNTY OF PIERCE, STATE OF WASHINGTON.

**CALL BEFORE YOU DIG**
**FOR BURIED UTILITY LOCATIONS**
**1-800-424-5555**


RMC ARCHITECTS
RMC Architects, PLLC • 1223 Railroad Avenue • Bellingham, WA 98225
P:360.676.7733 • F:360.738.0448 • rmc@rmcarchitects.com

FREELAND & ASSOCIATES
220 West Champion Street, Suite 200 | 360.650.1408
Bellingham, WA 98225

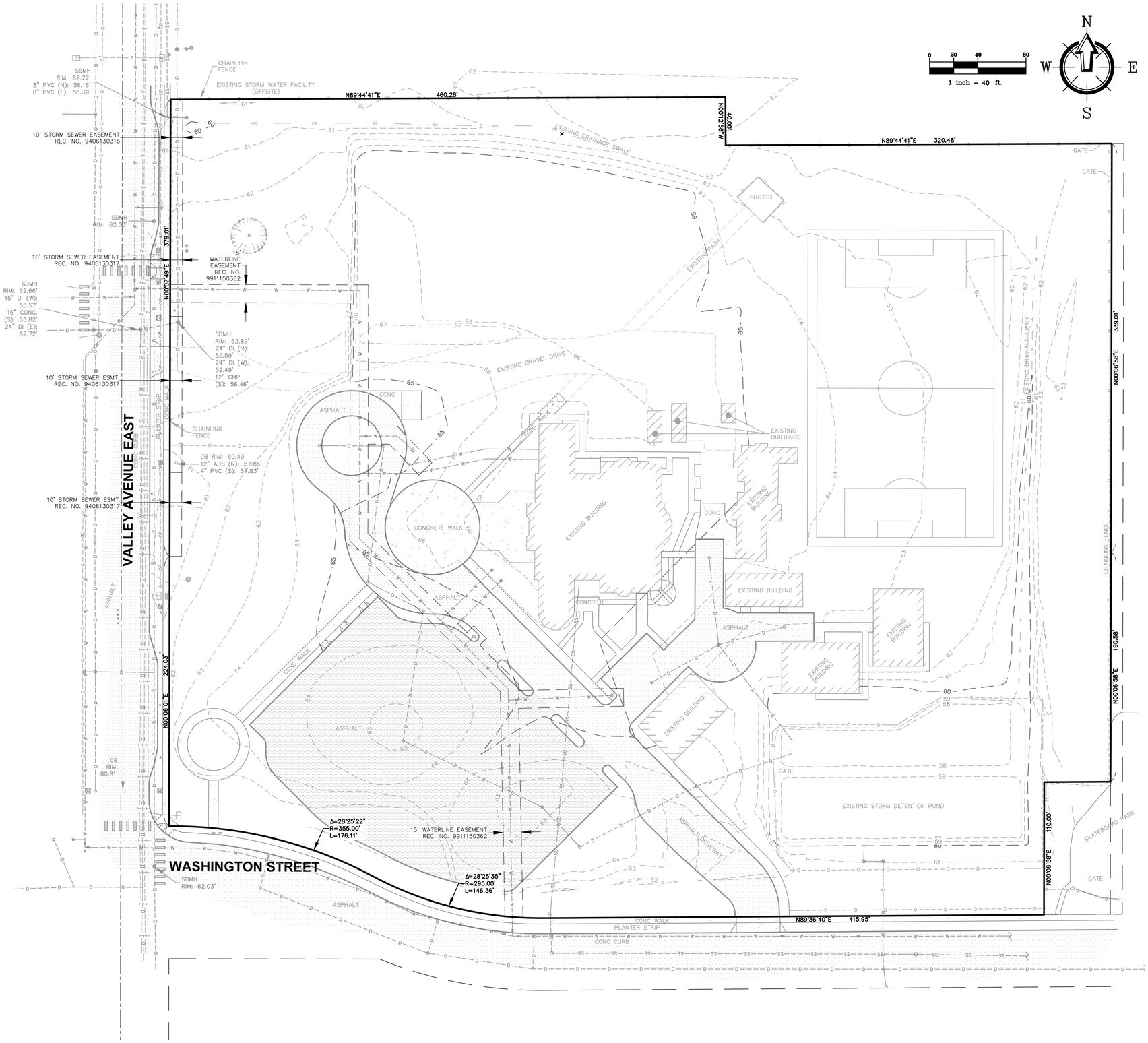
HAROLD A. FREELAND III — STATE OF WASHINGTON — 28619 — REGISTERED PROFESSIONAL ENGINEER


ARCHDIOCESE OF SEATTLE
St. Andrew Catholic Church Parish Hall
1401 Valley Avenue East, Sumner, Washington, 98390

Job No: 18126 Date: 02-07-2020
File No: 18126SP9
Drawn By: MID
Checked By: HAF
Issued for: PERMIT SET
1) UPDATED PLANS PER CITY REVIEW 2/4/2020

COVER SHEET

C1




# SURVEYORS NOTES

## TRIAD ASSOCIATES (SURVEY DATED 11/28/2012):

BASIS OF BEARING

HELD BEARING OF N 00°07'49" E ALONG CENTERLINE OF VALLEY AVENUE PER THE SURVEY AFN 9402040400

LEGAL DESCRIPTION

PARCEL A OF CITY OF SUMNER LOT LINE ADJUSTMENT RECORDED FEBRUARY 9, 1999 UNDER RECORDING NUMBER 9902095001, RECORDS OF PIERCE COUNTY, WASHINGTON;
EXCEPT THE SOUTH 110.00 FEET OF THE EAST 55.00 FEET THEREOF;

(BEING KNOWN AS REVISED PARCEL A OF CITY OF SUMNER BOUNDARY LINE ADJUSTMENT NO. PLN-2001-00-0037, RECORDED UNDER RECORDING NUMBER 200106200171).

SITUATE IN THE COUNTY OF PIERCE, STATE OF WASHINGTON.

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL COMPLY WITH CITY OF SUMNER DEVELOPMENT STANDARDS.
2. UTILITY LOCATIONS SHOWN ON THIS SURVEY DRAWING ARE BASED UPON CIVIL GRADING & DRAINAGE PLANS FOR ST. ANDREWS PARISH, CITY OF SUMNER PROJECT NO U98-130 AND PLANS FOR VALLEY AVENUE PHASE III IMPROVEMENTS CAPITAL IMPROVEMENT PROJECT 05-03 BY PARAMETRIX DATED MAY 2007. OTHER UNDERGROUND UTILITIES MAY EXIST. NO SUB-SURFACE EXPLORATION WAS DONE TO VERIFY UTILITY ROUTINGS. THE ROUTING OF ALL BURIED UTILITIES SHOULD BE CONFIRMED WITH THE UTILITY PURVEYOR AND EXPOSED IN AREAS CRITICAL TO DESIGN.
3. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
4. EXISTING SITE TOPOGRAPHY BY OTHERS, REFERENCE CIVIL GRADING & DRAINAGE PLANS FOR ST. ANDREWS PARISH, CITY OF SUMNER PROJECT NO U98-130. VERIFY PRIOR TO CONSTRUCTION.

## SADLER-BARNAR ASSOCIATES, INC. (SURVEY DATED 2019):

BASIS OF BEARING & GOVERNMENT LOT BREAKDOWN
(R1) RECORD OF SURVEY, REC. NO. 9402040400
(R2) RECORD OF SURVEY FOR LOT LINE ADJUSTMENT, REC. NO. 9902095001

LEGAL DESCRIPTION
PARCEL A OF CITY OF SUMNER LOT LINE ADJUSTMENT RECORDED FEBRUARY 9, 1999 UNDER RECORDING NUMBER 9902095001, RECORDS OF PIERCE COUNTY, WASHINGTON;

EXCEPTE THE SOUTH 110.00 FEET OF THE EAST 55.00 FEET THEREOF;

(BEING KNOWN AS REVISED PARCEL A OF CITY OF SUMNER BOUNDARY LINE ADJUSTMENT NO. PLN-2001-00-0037, RECORDED UNDER RECORDING NUMBER 200106200171).

SITUATE IN THE COUNTY OF PIERCE, STATE OF WASHINGTON.

TAX PARCEL NO.
052019-2166

SITE ADDRESS
1401 VALLEY AVENUE EAST
SUMNER, WASHINGTON 98390

VERTICAL DATUM
NGVD 1929, PIERCE COUNTY

SITE BENCH MARK
T.B.M.
R/R/ SPIKE IN EAST FACE OF POWER POLE AT THE SOUTHWEST CORNER OF INTERSECTION OF VALLEY AVENUE EAST AND WASHINGTON STREET
ELEV = 62.28'

SURVEYOR'S NOTES:
SURVEY PERFORMED BY FIELD TRAVERSE AND ELECTRONIC DATA COLLECTION USING A LEICA TS12P ROBOTIC TOTAL STATION AND LEICA CS20 DISCO FIELD CONTROLLER AND/OR BY GPS USING A LEICA GS16 PERFORMANCE SMART ANTENNA WITH LEICA SMARTNET NETWORK RTK SURVEY, WHICH USES GRS80 ELLIPSOID AND GEOID 09.

CLOSURES EXCEEDED THE MINIMUM REQUIREMENTS AS ESTABLISHED BY WAC 332-130-090.

PROPERTY CORNERS SET, EXCEPT AS NOTED, REPRESENT DEED LOCATIONS. OWNERSHIP LINES MAY BE DIFFERENT. OBVIOUS ENCROACHMENTS, IF ANY, ARE SHOWN. HOWEVER NO GUARANTEE OF OWNERSHIP IS EXPRESSED OR IMPLIED.

RMC ARCHITECTS
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P: 360.676.7733 • F: 360.738.0448 • rmc@rmcarchitects.com

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HAROLD A. FREELAND III
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Archdiocese of Seattle
St. Andrew Catholic Church Parish Hall
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| | |
|---|---|
| Job No: | 18126 Date: 02-07-2020 |
| File No: | 18126SP9 |
| Drawn By: | MID |
| Checked By: | HAF |
| Issued for: | PERMIT SET |

EXISTING CONDITIONS

C2

GRADING NOTE:
CONTRACTOR TO KEEP EXCAVATED SOIL ON-SITE. COORDINATE FINAL LOCATION WITH OWNER. CONTRACTOR TO PROVIDE TEMPORARY EROSION AND SEDIMENTATION CONTROL DURING CONSTRUCTION OF STOCK PILED SOILS. COVER WITH PLASTIC COVERING PER BMP C123. APPLY PERMANENT SOIL STABILIZATION (GRASS SEED MIX) TO AREAS WHERE RELOCATED TOPSOIL WAS SPREAD TO FORM PLAYFIELD. COORDINATE WITH OWNER.

0 20 40 80
1 inch = 40 ft.

N W E S

CONSTRUCT DETENTION FACILITY TO BE USED AS SEDIMENT SETTLING FACILITY AND TEMPORARY FLOW CONTROL AT THE BEGINNING OF CONSTRUCTION. CONTRACTOR TO REMOVE SEDIMENT FROM FACILITY PRIOR TO FINALIZING SITE WORK.

AREA SHOWN WITHIN BOLD DASHED LINE IS POTENTIAL TOPSOIL STOCKPILE AREA (COVER WITH PLASTIC). EARTHWORK CONTRACTOR SHALL SPREAD OUT STOCKPILED SOILS PRIOR TO LEAVING SITE TO FORM SLIGHTLY SLOPED PLAYFIELD. GRADE AND SLOPE TO EAST AT MAXIMUM OF 2.0%, TYPICAL.

TRACKING OF MUD AND DEBRIS ONTO CITY STREETS IS STRICTLY PROHIBITED. IF IT OCCURS, THOROUGHLY CLEAN SEDIMENT FROM EXISTING PAVEMENT AT THE END OF EACH WORK DAY. CLEANING SHALL REMOVE ALL VISIBLE TRACKOUT.

THOROUGHLY CLEAN SEDIMENT FROM EXISTING PAVEMENT AT THE END OF EACH WORK DAY. CLEANING SHALL REMOVE ALL VISIBLE TRACKOUT.

REMOVE EXISTING DRIVEWAY APPROACH

REMOVE EXISTING TRASH/REC. PAD AND FENCE, STORM DRAIN SYSTEM, ASPHALT, CONCRETE CURBING EXISTING FROM FIRE TRUCK TURNAROUND AREA, NORTH OF PROPOSED SAWCUT LINE SHOWN.

APPLY BMP T5.13 TO ALL DISTURBED TOPSOIL AREAS THAT WILL REMAIN LANDSCAPE BUT HAVE BEEN IMPACTED BY CONSTRUCTION ACTIVITY. EARTHWORK CONTRACTOR SHALL COORDINATE WORK WITH LANDSCAPE CONTRACTOR TO MEET REQUIRED DEPTH AND SOIL QUALITY SPECIFIED WITH BMP T5.13

T5.13 TO ALL DISTURBED TOPSOIL AREAS THAT WILL REMAIN LANDSCAPE BUT HAVE BEEN IMPACTED BY CONSTRUCTION ACTIVITY. EARTHWORK CONTRACTOR SHALL COORDINATE WORK WITH LANDSCAPE CONTRACTOR TO MEET REQUIRED DEPTH AND SOIL QUALITY SPECIFIED WITH BMP T5.13

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CONSTRUCT DETENTION FACILITY TO BE USED AS SEDIMENT SETTLING FACILITY AND TEMPORARY FLOW CONTROL AT THE BEGINNING OF CONSTRUCTION. CONTRACTOR TO REMOVE SEDIMENT FROM FACILITY PRIOR TO FINALIZING SITE WORK.

**PROPOSED HALL & ADMIN WING**

CONTRACTOR PARKING AND STAGING AREAS. COORDINATE LOCATION(S) WITH OWNER. CONTRACTOR TO RESTORE PRIOR TO FINALIZING SITE WORK.

PLAZA

PLAYFILED (SOCCER FILED SHOWN)

POND NO.2

POND NO.3

POND NO.1

VALLEY AVENUE EAST

WASHINGTON STREET

SSMH RIM: 62.22' 8" PVC (N): 56.16' 8" PVC (E): 56.39'

SDMH RIM: 62.03'

SDMH RIM: 62.66' 16" DI (W): 55.57' 16" CONC. (S): 53.82' 24" DI (E): 52.72'

CB RIM: 60.40' 12" ADS (N): 57.86' 4" PVC (S): 57.83'

CB RIM: 60.81'

SDMH RIM: 62.03'

## TESC CONTRACTOR RESPONSIBILITY

1. TEMPORARY EROSION CONTROL BMPs SHOWN IN THESE PLANS ARE THE MINIMUM NECESSARY FOR PERMIT APPROVALS. ADDITIONAL BMPs MAY BE REQUIRED DURING THE COURSE OF CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ADDITIONAL BMPs OR BMP MAINTENANCE THAT MAY BE REQUIRED DURING CONSTRUCTION.
2. THIS PROJECT WILL DISTURB MORE THAN ONE ACRE OF SOIL AND WILL REQUIRE A NATIONAL DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION GENERAL PERMIT FROM WASHINGTON DOE. THE OWNER WILL OBTAIN THE NPDES PERMIT AND WILL TRANSFER THE PERMIT TO THE CONTRACTOR PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS IN THE NPDES PERMIT. THE CONTRACTOR SHALL PREPARE AND MAINTAIN AN EROSION CONTROL LOG BOOK IN ACCORDANCE WITH NPDES PERMIT REQUIREMENTS. NO ADDITIONAL COMPENSATION WILL BE MADE FOR BMP MAINTENANCE OR REPAIRS THAT RESULT FROM COMPLIANCE WITH THE NPDES PERMIT. LIKEWISE, ANY ADDITIONAL BMPs THAT MAY BE REQUIRED FOR COMPLIANCE WITH THE NPDES PERMIT DURING CONSTRUCTION SHALL BE IMPLEMENTED AT THE CONTRACTOR'S EXPENSE.

## LEGEND:

| | | |
|---|---|---|
| VEG | WSDOE BMP C101 PRESERVING NATURAL (OR CROP) VEGETATION | |
| CE | WSDOE BMP C105 STABILIZED CONSTRUCTION EXIT | A C5 |
| PS | WSDOE BMP C120 TEMPORARY AND PERMANENT SEEDING | |
| MU | WSDOE BMP C121 MULCHING | |
| PC | WSDOE BMP C123 PLASTIC COVERING | |
| DC | WSDOE BMP C140 DUST CONTROL | |
| IP | WSDOE BMP C220 STORM DRAIN INLET PROTECTION | C C5 |
| SC | WSDOE BMP C152 SAWCUTTING & SURFACE POLLUTION PREVENTION | D C5 |
| SF | WSDOE BMP C233 SILT FENCE | B C5 |

## CONSTRUCTION SCHEDULING NOTE:

1. THE CESCL & CONTRACTOR SHALL MONITOR WEATHER CONDITIONS AND FORECASTS DURING CONSTRUCTION. THE AMOUNT OF SOIL THAT MAY BE EXPOSED AT ANY TIME DEPENDS ON THE CONTRACTOR'S AVAILABLE CREW, MATERIALS, AND EQUIPMENT.
2. CONTRACTOR SHALL SCHEDULE WORK SO THAT ALL EXPOSED SOIL (INCLUDING TRENCHES AND STOCKPILES) CAN BE COMPLETELY COVERED AND STABILIZED PRIOR TO ANY SIGNIFICANT RAINFALL EVENT ON SITE AND PRIOR TO WEEKENDS AND HOLIDAYS.
3. WET WEATHER WORK SHOULD BE AVOIDED IF POSSIBLE. CONSTRUCT ROAD IMPROVEMENTS IN MULTIPLE PHASES OR SEGMENTS IF NECESSARY.
4. REMOVE TESC BMP(S) WITHIN 30 DAYS AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED.

## CONSTRUCTION SEQUENCE:

1. HOLD THE PRE-CONSTRUCTION MEETING.
2. FLAG, PAINT, OR FENCE CLEARING LIMITS.
3. INSTALL TESC BMPS. CONTRACTOR SHALL COORDINATE WITH CITY OF SUMNER FOR INSPECTION AND APPROVAL OF ALL TESC MEASURES PRIOR TO BEGINNING SITE DISTURBANCE.
4. ALL DOWN GRADIENT PERIMETER SEDIMENT CONTROL BMPS (E.G. SEDIMENT POND, TEMPORARY OUTLET CONTROLS) MUST BE IN PLACE BEFORE ANY UP GRADIENT LAND-DISTURBING ACTIVITY BEGINS.
5. TOPSOIL FROM THE SITE IS OF MODERATE QUALITY AND SHALL BE FIELD AND LAB TESTED TO CONFIRM TOPSOIL SALVAGED WILL MEET BMP T5.13 SPECIFICATIONS. TEMPORARY STOCKPILE LOCATION SHOWN IS FOR SALVAGED TOPSOIL AND/OR TOPSOIL B (CONSTRUCTED TOPSOIL). COVER STOCKPILE PLASTIC COVERING (BMP C123) IF THE STOCKPILE TO BE WORKED DURING 24 HOUR PERIOD. DO NOT SIEVE STORED SOIL. DO NOT WORK (PLACE AND GRADE) TOPSOIL WHEN SATURATED (WET).
6. ROUGH GRADE THE SITE. COVER ALL AREAS THAT WILL BE UNWORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON (MAY 1 TO SEPTEMBER 30) OR TWO DAYS DURING THE WET SEASON (OCTOBER 1 TO APRIL 30) WITH STRAW, WOOD FIBER, COMPOST, PLASTIC COVERING, OR EQUIVALENT.
7. RELOCATE EROSION CONTROL MEASURES, OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH THE CITY OF SUMNER AND DOE EROSION AND SEDIMENT CONTROL STANDARDS.
8. SEED, STABILIZE, OR COVER ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
9. PERFORM ALL OTHER SITE IMPROVEMENTS IN A MANNER THAT MINIMIZES ADVERSE IMPACTS TO THE LOCATION AND FUNCTION OF THE STORMWATER BMP'S.
10. REMOVE THE TEMPORARY EROSION AND SEDIMENT CONTROLS WITHIN 30 DAYS AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED.

1

RMC ARCHITECTS
RMC Architects, PLLC • 1223 Railroad Avenue• Bellingham, WA 98225
P:360.676.7733 • F:360.738.0448 • rmc@rmcarchitects.com

FREELAND & ASSOCIATES
220 West Champion Street, Suite 200 | 360.650.1648
Bellingham, WA 98225

HAROLD A. FREELAND III
STATE OF WASHINGTON
28619
REGISTERED PROFESSIONAL ENGINEER

Archdiocese of Seattle
St. Andrew Catholic Church Parish Hall
1401 Valley Avenue East, Sumner, Washington, 98390

Job No: 18126 Date: 02-07-2020
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Drawn By: MID
Checked By: HAF
Issued for: PERMIT SET
1) UPDATED PLANS PER CITY REVIEW 2/4/2020

TEMPORARY EROSION AND SEDIMENTATION CONTROL PLAN (OVERVIEW)

C3

TRACKING OF MUD AND DEBRIS ONTO CITY STREETS IS STRICTLY PROHIBITED. IF IT OCCURS, THOROUGHLY CLEAN SEDIMENT FROM EXISTING PAVEMENT AT THE END OF EACH WORK DAY. CLEANING SHALL REMOVE ALL VISIBLE TRACKOUT.

THOROUGHLY CLEAN SEDIMENT FROM EXISTING PAVEMENT AT THE END OF EACH WORK DAY. CLEANING SHALL REMOVE ALL VISIBLE TRACKOUT.

REMOVE EXISTING DRIVEWAY APPROACH

SSMH
RIM: 62.22'
8" PVC (N): 56.16'
8" PVC (E): 56.39'

SDMH
RIM: 62.03'

SDMH
RIM: 62.66'
16" DI (W): 55.57'
CONC. (S): 53.82'
24" DI (E): 52.72'

CB RIM: 60.40'
12" ADS (N): 57.56'
4" PVC (S): 57.85'

POND NO. 2

CONSTRUCT DETENTION FACILITY TO BE USED AS SEDIMENT SETTLING FACILITY AND TEMPORARY FLOW CONTROL AT THE BEGINNING OF CONSTRUCTION. CONTRACTOR TO REMOVE SEDIMENT FROM FACILITY PRIOR TO FINALIZING SITE WORK.

CONSTRUCT DETENTION FACILITY TO BE USED AS SEDIMENT SETTLING FACILITY AND TEMPORARY FLOW CONTROL AT THE BEGINNING OF CONSTRUCTION. CONTRACTOR TO REMOVE SEDIMENT FROM FACILITY PRIOR TO FINALIZING SITE WORK.

T/R

POND NO.3

APPLY BMP T5.13 TO ALL DISTURBED TOPSOIL AREAS THAT WILL REMAIN LANDSCAPE BUT HAVE BEEN IMPACTED BY CONSTRUCTION ACTIVITY. EARTHWORK CONTRACTOR SHALL COORDINATE WORK WITH LANDSCAPE CONTRACTOR TO MEET REQUIRED DEPTH AND SOIL QUALITY SPECIFIED WITH BMP T5.13

BATHROOMS
KITCHEN
FIRE
MR

PROPOSED HALL
& ADMIN WING
FFE: 64.00

CONTRACTOR PARKING AND STAGING AREAS. COORDINATE LOCATION(S) WITH OWNER. CONTRACTOR TO RESTORE PRIOR TO FINALIZING SITE WORK.

FIRE LANE

COVERED ARCADE

PLAZA

EXISTING PATH

CONC

TRASH/REC

ASPHALT

CHAINLINK FENCE

VALLEY AVENUE EAST

REMOVE EXISTING TRASH/REC. PAD AND FENCE, STORM DRAIN SYSTEM, ASPHALT, CONCRETE CURBING EXISTING FROM FIRE TRUCK TURNAROUND AREA, NORTH OF PROPOSED SAWCUT LINE SHOWN.

POND NO.1

APPLY BMP T5.13 TO ALL DISTURBED TOPSOIL AREAS THAT WILL REMAIN LANDSCAPE BUT HAVE BEEN IMPACTED BY CONSTRUCTION ACTIVITY. EARTHWORK CONTRACTOR SHALL COORDINATE WORK WITH LANDSCAPE CONTRACTOR TO MEET REQUIRED DEPTH AND SOIL QUALITY SPECIFIED WITH BMP T5.13

CONSTRUCT DETENTION FACILITY TO BE USED AS SEDIMENT SETTLING FACILITY AND TEMPORARY FLOW CONTROL AT THE BEGINNING OF CONSTRUCTION. CONTRACTOR TO REMOVE SEDIMENT FROM FACILITY PRIOR TO FINALIZING SITE WORK.

N
W
E
S

0 10 20 40
1 inch = 20 ft.

GRADING NOTE:
CONTRACTOR TO KEEP EXCAVATED SOIL ON-SITE. COORDINATE FINAL LOCATION WITH OWNER. CONTRACTOR TO PROVIDE TEMPORARY EROSION AND SEDIMENTATION CONTROL DURING CONSTRUCTION OF STOCKPILED SOILS. COVER WITH PLASTIC COVERING PER BMP C123. APPLY PERMANENT SOIL STABILIZATION (GRASS SEED MIX) TO AREAS WHERE RELOCATED TOPSOIL WAS SPREAD TO FORM PLAYFIELD. COORDINATE WITH OWNER. SEE SHEECT C3 FOR PLAYFIELD LOCATION AND STOCKPILE LOCATION.

## CONSTRUCTION SCHEDULING NOTE:

1. THE CESCL & CONTRACTOR SHALL MONITOR WEATHER CONDITIONS AND FORECASTS DURING CONSTRUCTION. THE AMOUNT OF SOIL THAT MAY BE EXPOSED AT ANY TIME DEPENDS ON THE CONTRACTOR'S AVAILABLE CREW, MATERIALS, AND EQUIPMENT.
2. CONTRACTOR SHALL SCHEDULE WORK SO THAT ALL EXPOSED SOIL (INCLUDING TRENCHES AND STOCKPILES) CAN BE COMPLETELY COVERED AND STABILIZED PRIOR TO ANY SIGNIFICANT RAINFALL EVENT ON SITE AND PRIOR TO WEEKENDS AND HOLIDAYS.
3. WET WEATHER WORK SHOULD BE AVOIDED IF POSSIBLE. CONSTRUCT ROAD IMPROVEMENTS IN MULTIPLE PHASES OR SEGMENTS IF NECESSARY.
4. REMOVE TESC BMP(S) WITHIN 30 DAYS AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED.

## CONSTRUCTION SEQUENCE:

1. HOLD THE PRE-CONSTRUCTION MEETING.
2. FLAG, PAINT, OR FENCE CLEARING LIMITS.
3. INSTALL TESC BMPS. CONTRACTOR SHALL COORDINATE WITH CITY OF SUMNER FOR INSPECTION AND APPROVAL OF ALL TESC MEASURES PRIOR TO BEGINNING SITE DISTURBANCE.
4. ALL DOWN GRADIENT PERIMETER SEDIMENT CONTROL BMPS (E.G. SEDIMENT POND, TEMPORARY OUTLET CONTROLS) MUST BE IN PLACE BEFORE ANY UP GRADIENT LAND-DISTURBING ACTIVITY BEGINS.
5. TOPSOIL FROM THE SITE IS OF MODERATE QUALITY AND SHALL BE FIELD AND LAB TESTED TO CONFIRM TOPSOIL SALVAGED WILL MEET BMP T5.13 SPECIFICATIONS. TEMPORARY STOCKPILE LOCATION SHOWN IS FOR SALVAGED TOPSOIL AND/OR TOPSOIL B (CONSTRUCTED TOPSOIL). COVER STOCKPILE PLASTIC COVERING (BMP C123) IF THE STOCKPILE TO BE WORKED DURING 24 HOUR PERIOD. DO NOT SIEVE STORED SOIL. DO NOT WORK (PLACE AND GRADE) TOPSOIL WHEN SATURATED (WET).
6. ROUGH GRADE THE SITE. COVER ALL AREAS THAT WILL BE UNWORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON (MAY 1 TO SEPTEMBER 30) OR TWO DAYS DURING THE WET SEASON (OCTOBER 1 TO APRIL 30) WITH STRAW, WOOD FIBER, COMPOST, PLASTIC COVERING, OR EQUIVALENT.
7. RELOCATE EROSION CONTROL MEASURES, OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH THE CITY OF SUMNER AND DOE EROSION AND SEDIMENT CONTROL STANDARDS.
8. SEED, STABILIZE, OR COVER ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
9. PERFORM ALL OTHER SITE IMPROVEMENTS IN A MANNER THAT MINIMIZES ADVERSE IMPACTS TO THE LOCATION AND FUNCTION OF THE STORMWATER BMP'S.
10. REMOVE THE TEMPORARY EROSION AND SEDIMENT CONTROLS WITHIN 30 DAYS AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED.

## TESC CONTRACTOR RESPONSIBILITY

1. TEMPORARY EROSION CONTROL BMPs SHOWN IN THESE PLANS ARE THE MINIMUM NECESSARY FOR PERMIT APPROVALS. ADDITIONAL BMPs MAY BE REQUIRED DURING THE COURSE OF CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ADDITIONAL BMPs OR BMP MAINTENANCE THAT MAY BE REQUIRED DURING CONSTRUCTION.
2. THIS PROJECT WILL DISTURB MORE THAN ONE ACRE OF SOIL AND WILL REQUIRE A NATIONAL DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION GENERAL PERMIT FROM WASHINGTON DOE. THE OWNER WILL OBTAIN THE NPDES PERMIT AND WILL TRANSFER THE PERMIT TO THE CONTRACTOR PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS IN THE NPDES PERMIT. THE CONTRACTOR SHALL PREPARE AND MAINTAIN AN EROSION CONTROL LOG BOOK IN ACCORDANCE WITH NPDES PERMIT REQUIREMENTS. NO ADDITIONAL COMPENSATION WILL BE MADE FOR BMP MAINTENANCE OR REPAIRS THAT RESULT FROM COMPLIANCE WITH THE NPDES PERMIT. LIKEWISE, ANY ADDITIONAL BMPs THAT MAY BE REQUIRED FOR COMPLIANCE WITH THE NPDES PERMIT DURING CONSTRUCTION SHALL BE IMPLEMENTED AT THE CONTRACTOR'S EXPENSE.

## LEGEND:

| | | |
|---|---|---|
| VEG | WSDOE BMP C101<br>PRESERVING NATURAL (OR CROP) VEGETATION | |
| CE | WSDOE BMP C105<br>STABILIZED CONSTRUCTION EXIT | A C5 |
| PS | WSDOE BMP C120<br>TEMPORARY AND PERMANENT SEEDING | |
| MU | WSDOE BMP C121<br>MULCHING | |
| PC | WSDOE BMP C123<br>PLASTIC COVERING | |
| DC | WSDOE BMP C140<br>DUST CONTROL | |
| IP | WSDOE BMP C220<br>STORM DRAIN INLET PROTECTION | C C5 |
| SC | WSDOE BMP C152<br>SAWCUTTING & SURFACE POLLUTION PREVENTION | D C5 |
| SF | WSDOE BMP C233<br>SILT FENCE | B C5 |

RMC ARCHITECTS
RMC Architects, PLLC • 1223 Railroad Avenue• Bellingham, WA 98225
P:360.676.7733 • F:360.738.0448 • rmc@rmcarchitects.com

220 West Champion Street, Suite 200 | 360.650.1449
Bellingham, WA 98225
FREELAND & ASSOCIATES

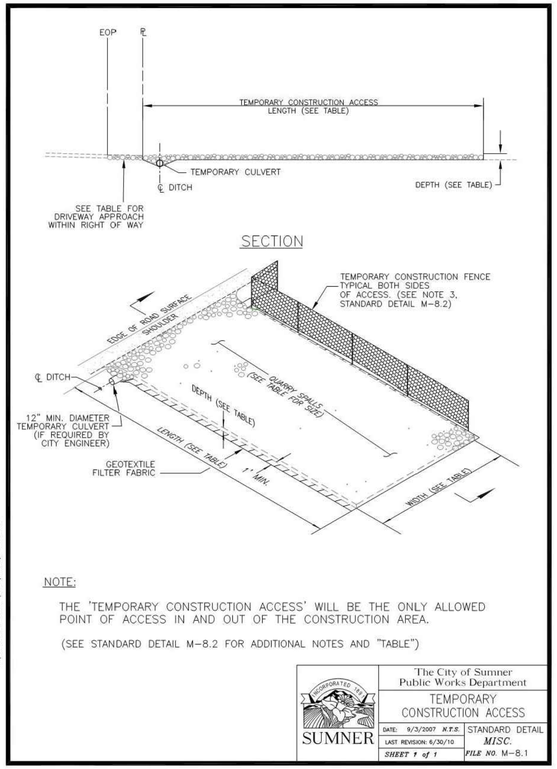
HAROLD A. FREELAND III
STATE OF WASHINGTON
28619
REGISTERED
PROFESSIONAL ENGINEER

Archdiocese of Seattle
St. Andrew Catholic Church Parish Hall
1401 Valley Avenue East, Sumner, Washington, 98390

Job No: 18126 Date: 02-07-2020
File No: 18126SSP9
Drawn By: MID
Checked By: HAF
Issued for: PERMIT SET

TEMPORARY EROSION & SEDIMENTATION CONTROL PLAN

C4




Ⓐ TEMPORARY CONSTRUCTION ACCESS
nts

| TEMPORARY CONSTRUCTION ENTRANCE CRITERIA FOR TESC, GRADE & FILL, SITE WORK & BUILDING CONSTRUCTION | | | | | CATEGORY |
|---|---|---|---|---|---|
| DESCRIPTION | TYPE 1 | TYPE 2 | TYPE 3 | TYPE 4 | |
| SITE SIZE IN ACRES | <1.0 | 1.0 to 3.0 | 3.0 to 6.0 | >6.0 | SITE SIZE CRITERIA |
| VOLUME OF CUT & FILL | <2,500 | <20,000 | <100,000 | >100,000 | |
| MINIMUM WIDTH IN FEET | 15 | 24 | 24 | 30 | GEOMETRY & DIMENSIONS OF ENTRANCE |
| MIN. DEPTH OF SPALLS (INCHES) | 8 | 12 | 12 | 18 | |
| MIN. LENGTH OF SPALL ENTRANCE | 50 | 75 | 100 | 150 | |
| MIN. RETURN RAD. OFF ST. (FT.) | 0 | 30 | 35 | 40 | |
| DEPTH OF HMA APPROACH IN ROW | 3 | 4 | 6 | 6 | |
| TYPE OF HMA FOR APPROACHES | CLASS 1/2" | CLASS 1/2" | CLASS 1/2" | CLASS 1/2" | MATERIAL SPECIFICATIONS FOR ENTRANCE IN RIGHT-OF-WAY |
| CONCRETE APPROACH THICKNESS | 6 | 6 | 7 | 7 | |
| TYPE OF CONCRETE CEMENT | 6 SACK-1 1/2 | 6 SACK-1 1/2 | 6 SACK-1 1/2 | 6 SACK-1 1/2 | |
| 28 DAY OF STRENGHT OF CONC. | 4,000 lb. | 4,000 lb. | 4,000 lb. | 4,000 lb. | |
| CONC. CEMENT REINFORCEMENT | FIBER MESH | #4@12"E.W. | #5@12"E.W. | #5@12"E.W. | |
| GEOTEXTILE REQUIRED | YES | YES | YES | YES | |
| SIZE OF QUARRY SPALLS | 2"-4" | 4"-6" | 4"-6" | 4"-6" | |

PURPOSE: THE PURPOSE OF CONSTRUCTION ENTRANCES IS TO REDUCE THE AMOUNT OF SEDIMENT TRANSPORTED OFF-SITE BY CONSTRUCTION VEHICLES, PROTECTION OF THE CITY'S STORM DRAINAGE SYSTEM FROM UN-DUE AMOUNTS OF SEDIMENT AND PROTECTION OF THE CITY'S STREETS AND ROADS. A HARD SURFACE APPROACH WITHIN THE LIMITS OF THE RIGHT-OF-WAY PROTECTS THE CITY STREET AND REDUCES THE POTENTIAL OF ROCKS GETTING ONTO THE STREETS.

NOTES:

1. ACP WILL BE USED WITHIN RIGHT-OF-WAY'S WHERE THE STREET IS A ROAD SECTION WITHOUT CURB & GUTTER.
2. FOR ACCESS OFF IMPROVED STREETS, PROVIDE CONCRETE DRIVEWAY IN R.O.W. AS SPECIFIED IN THE TABLE.
3. CURB CUTS SHALL MEET THE SAME MATERIAL REQUIREMENTS AS CONCRETE DRIVEWAY APPROACHES.
4. FOR ACP APPROACHES, EDGE OF ROAD SHALL BE SAW CUT, EDGE TACKED AND JOINT SEALED WITH AR4000.

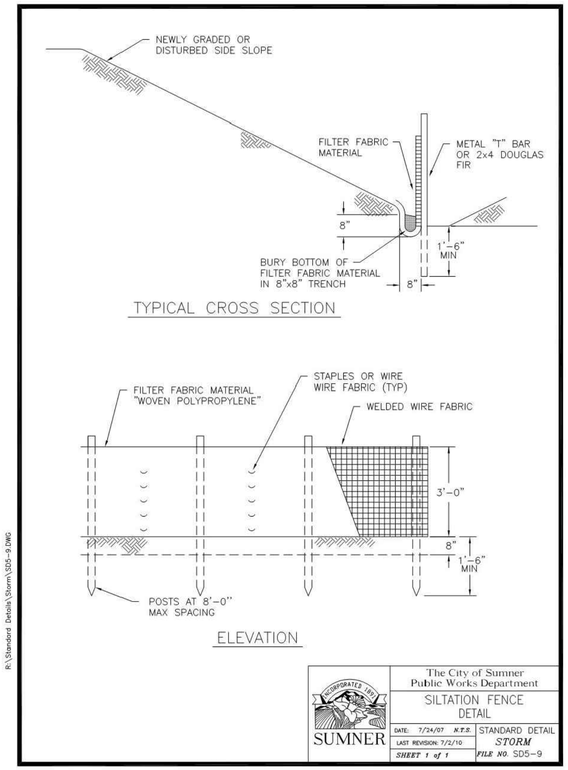
DESIGN AND INSTALLATION SPECIFICATIONS:

1. SEE SUMNER STANDARD DETAIL M-8.1 FOR LAYOUT OF ENTRANCE.
2. A SEPERATION GEOTEXTILE SHALL BE PLACED UNDER THE SPALLS TO PREVENT FINE SEDIMENTS FROM PUMPING UP INTO THE ROCK PAD. THE FABRIC SHALL CONFORM TO WSDOT STANDARD SPECIFICATION 9-33, TABLE 3 FOR SOIL STABILIZATION FABRIC.
3. FENCING SHALL BE INSTALLED AS NECESSARY TO RESTRICT TRAFFIC TO THE CONSTRUCTION ENTRANCE.
4. LOCATION OF CONSTRUCTION ENTRANCE TO BE APPROVED BY THE CITY ENGINEER. TYPE 1 AND 2 SITES WILL GENERALLY BE ALLOWED ONLY ONE ENTRANCE.
5. TRUCK ROUTES FOR TYPE 2, 3 AND 4 SITES SHALL BE SUBMITTED WITH THE PERMIT APPLICATION FOR REVIEW AND APPROVAL BY THE CITY ENGINEER.
6. PERMITEE SHALL POST STREET RESTORATION BOND FOR TYPE 2, 3 AND 4 SITES.

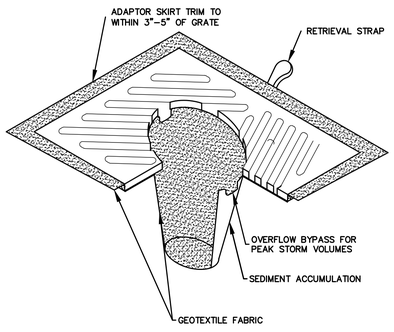
MAINTENCE STANDARDS:

1. QUARRY SPALLS SHALL BE ADDED IF THE PAD IS NO LONGER IN ACCORDANCE WITH THE SPECIFICATIONS.
2. IF THE ENTRANCE IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT, THEN ALTERNATIVE MEASURES SHALL BE REQUIRED WHICH MAY INCLUDE STREET SWEEPING, INCREASING DIMENSIONS OF THE ENTRANCE OR THE INSTALLATION OF A WHEEL WASH.
3. ANY SPALLS THAT ARE LOOSENED FROM THE PAD AND END UP IN THE ROADWAY SHALL BE REMOVED IMMEDIATELY.
4. DIRT TRACKED ONTO THE STREETS SHALL BE REMOVED BY SWEEPERS.
5. ADDITIONAL MAINTENANCE AS REQUIRED BY CITY REPRESENTATIVE.

P:\Standard Details\CAD\MISC\M-8.2.DWG
The City of Sumner
Public Works Department
TEMPORARY
CONSTRUCTION ACCESS - NOTES
DATE: 9/3/2007 N.T.S.
LAST REVISION: 7/2/10
SHEET 1 of 1
STANDARD DETAIL
MISC.
FILE NO. M-8.2




Ⓑ SILT FENCE
nts




NOTES:

1. INSERT SHALL BE INSTALLED PRIOR TO CLEARING AND GRADING ACTIVITY, OR UPON PLACEMENT OF A NEW CATCH BASIN.
2. SEDIMENT SHALL BE REMOVED FROM THE UNIT WHEN IT BECOMES HALF FULL .
3. SEDIMENT REMOVAL SHALL BE ACCOMPLISHED BY REMOVING THE INSERT, EMPTYING, AND RE-INSERTING IT INTO THE CATCH BASIN.

Ⓒ INLET PROTECTION
nts

**BMP C152: Sawcutting and Surfacing Pollution Prevention**

***Purpose***

Sawcutting and surfacing operations generate slurry and process water that contains fine particles and high pH (concrete cutting), both of which can violate the water quality standards in the receiving water. Concrete spillage or concrete discharge to surface waters of the State is prohibited. Use this BMP to minimize and eliminate process water and slurry created through sawcutting or surfacing from entering waters of the State.

***Conditions of Use***

Utilize these management practices anytime sawcutting or surfacing operations take place. Sawcutting and surfacing operations include, but are not limited to, the following:

- Sawing
- Coring
- Grinding
- Roughening
- Hydro-demolition
- Bridge and road surfacing

***Design and Installation Specifications***

- Vacuum slurry and cuttings during cutting and surfacing operations.
- Slurry and cuttings shall not remain on permanent concrete or asphalt pavement overnight.
- Slurry and cuttings shall not drain to any natural or constructed drainage conveyance including stormwater systems. This may require temporarily blocking catch basins.
- Dispose of collected slurry and cuttings in a manner that does not violate ground water or surface water quality standards.
- Do not allow process water generated during hydro-demolition, surface roughening or similar operations to drain to any natural or constructed drainage conveyance including stormwater systems. Dispose process water in a manner that does not violate ground water or surface water quality standards.
- Handle and dispose cleaning waste material and demolition debris in a manner that does not cause contamination of water. Dispose of sweeping material from a pick-up sweeper at an appropriate disposal site.

***Maintenance Standards***

Continually monitor operations to determine whether slurry, cuttings, or process water could enter waters of the state. If inspections show that a violation of water quality standards could occur, stop operations and immediately implement preventive measures such as berms, barriers, secondary containment, and vacuum trucks.



Ⓓ SAWCUTTING AND POLLUTION PREVENTION
nts

1. APPROVAL OF THIS STORMWATER SITE PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN.
2. THE IMPLEMENTATION OF THESE TESC BMPS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE TESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
4. THE TESC BMPS SHOWN MUST BE CONSTRUCTED PRIOR TO ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS.
5. THE PERMITTEE SHALL NOTIFY THE CITY ENGINEER OR DESIGNEE TO SCHEDULE INSPECTIONS AT THE COMPLETION OF THE FOLLOWING PHASES OF WORK:
   - PRECONSTRUCTION INSPECTION. PRIOR TO THE COMMENCEMENT OF ANY OTHER WORK, THE INSPECTION OF EROSION AND SEDIMENT CONTROL DEVICES SHALL TAKE PLACE WHEN INSTALLATION OF ALL THE EROSION AND SEDIMENT CONTROL DEVICES HAS BEEN COMPLETED ACCORDING TO APPROVED PLANS. ONLY THE MINIMUM AREA NECESSARY FOR INSTALLATION OF EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CLEARED AND/OR GRADED PRIOR TO THIS INSPECTION.
   - ROUGH GRADING INSPECTION. WHEN ALL ROUGH GRADING IS COMPLETE, INSPECTION OF THE SITE SHALL TAKE PLACE TO DETERMINE THE SATISFACTORY FUNCTIONING OF ALL EROSION AND SEDIMENT CONTROL DEVICES.
   - FINAL INSPECTION. UPON COMPLETION OF ALL CONSTRUCTION, INSPECTION OF THE SITE SHALL TAKE PLACE TO DETERMINE THAT ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES HAVE BEEN REMOVED AND THAT THE SITE HAS BEEN PERMANENTLY STABILIZED.
6. THE TESC BMPS SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE TESC FACILITIES SHALL BE UPGRADED (E.G., ADDITIONAL SUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.) AS NEEDED FOR UNEXPECTED STORM EVENTS AND AS THE CITY REQUIRES.
7. FROM OCTOBER 1 THROUGH APRIL 30, NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN 2 DAYS. FROM MAY 1 THROUGH SEPTEMBER 30, NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN 7 DAYS. THIS CONDITION APPLIES TO ALL SOILS ON SITE, WHETHER AT FINAL GRADE OR NOT. SEE THE DEPARTMENT OF ECOLOGY 2012 STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON, VOLUME II, FOR ADDITIONAL SOIL STABILIZATION REQUIREMENTS.
8. ANY AREA NEEDING TESC MEASURES, NOT REQUIRING IMMEDIATE ATTENTION, SHALL BE ADDRESSED WITHIN 15 DAYS.
9. AT NO TIME SHALL MORE THAN 1 FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
10. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
11. PROVISIONS SHALL BE MADE TO AVOID THE TRACKING OF SEDIMENT BY CONSTRUCTION VEHICLES ONTO PAVED PUBLIC ROADS. IF SEDIMENT IS DEPOSITED, THE ROADS ARE TO BE CLEANED EVERY DAY BY SWEEPING.
12. ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION-CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY AND SHALL BE CLEANED OUT ENTIRELY FOLLOWING PROJECT COMPLETION.
13. AS CONSTRUCTION PROGRESSES AND UNEXPECTED SEASONAL CONDITIONS DICTATE, AND AS THE CITY REQUIRES, THE PERMITTEE SHOULD ANTICIPATE THAT MORE TESC MEASURES WILL BE NECESSARY TO PROTECT ADJACENT PROPERTIES AND ENSURE ADEQUATE WATER QUALITY FOR SITE RUNOFF. IT SHALL BE THE RESPONSIBILITY OF THE ESC SUPERVISOR TO ADDRESS DEFICIENT TESC CONDITIONS AND PROVIDE ADDITIONAL FACILITIES, OVER AND ABOVE MINIMUM REQUIREMENTS OUTLINED ON THE APPROVED PLANS.
14. THE ESC SUPERVISOR SHALL INSPECT ALL TESC MEASURES MONTHLY DURING THE DRY SEASON (MAY 1 TO SEPTEMBER 30), WEEKLY DURING THE WET SEASON (OCTOBER 1 TO APRIL 30), AND IMMEDIATELY FOLLOWING SIGNIFICANT STORMS (0.4 INCHES OF PRECIPITATION IN 24 HOURS). WRITTEN RECORD OF THESE INSPECTIONS SHALL BE RETAINED ON SITE, WITH A COPY OF THE INSPECTION REPORT BEING FORWARDED TO THE CITY ENGINEER OR DESIGNEE WITHIN 48 HOURS OF EACH INSPECTION. ESC SUPERVISOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TESC BMPS AS NECESSARY TO ENSURE CONTINUED SATISFACTORY FUNCTION AND OPERATION.
15. RETURN SILTATION CONTROL AREAS TO ORIGINAL OR BETTER GROUND CONDITIONS AT PROJECT COMPLETION.

Ⓔ TESC NOTES
nts

RMC ARCHITECTS
RMC Architects, PLLC • 1223 Railroad Avenue• Bellingham, WA 98225
P:360.676.7733 • F:360.738.0448 • rmc@rmcarchitects.com

FREELAND & ASSOCIATES
220 West Champion Street, Suite 200 | 360.650.1449
Bellingham, WA 98225

HAROLD A. FREELAND III
STATE OF WASHINGTON
28619
REGISTERED
PROFESSIONAL ENGINEER

Archdiocese of Seattle
St. Andrew Catholic Church Parish Hall
1401 Valley Avenue East, Sumner, Washington, 98390

Job No: 18126 Date: 02-07-2020
File No: 18126SP9
Drawn By: MID
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Issued for: PERMIT SET

TESC DETAILS AND NOTES

C5

ELEMENT #1: MARK CLEARING LIMITS

CLEARING LIMITS AND NEARBY SENSITIVE AREAS AND THEIR BUFFERS, WILL BE CLEARLY MARKED PRIOR TO BEGINNING LAND DISTURBING ACTIVITIES, WHICH INCLUDES CLEARING AND GRADING. THESE AREAS WILL BE CLEARLY MARKED N THE FIELD TO PREVENT DAMAGE AND OFFSITE IMPACTS.

WASHINGTON STATE DEPARTMENT OF ECOLOGY BMP'S CONSIDERED FOR ELEMENT #1 INCLUDE:
- BMP C101: PRESERVING NATURAL VEGETATION
- BMP C103: HIGH VISIBILITY PLASTIC OR METAL FENCE
- BMP C104: STAKE AND WIRE FENCE

ELEMENT #2: ESTABLISH CONSTRUCTION ACCESS

IT IS RECOMMENDED THAT THE PROPOSED DRIVEWAY FROM VALLEY AVENUE BE ESTABLISHED AS THE SITE ACCESS POINT, CONTRACTOR PARKING, AND MATERIAL STORAGE. THIS AREA MUST BE STABILIZED, MONITORED FOR SEDIMENT, AND MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS. EARTHWORK EQUIPMENT WILL REMAIN WITHIN THE DISTURBED AREA TO THE MAXIMUM EXTENT PRACTICABLE. CONSTRUCTION TRAFFIC THAT WILL ROUTINELY LEAVE THE SITE (E.G. WORK TRUCKS, PERSONAL VEHICLES) MUST REMAIN ON PAVED SURFACES TO THE MAXIMUM EXTENT PRACTICABLE. PAVED ROADS & PARKING AREAS MUST BE CLEANED AT THE END OF EACH DAY. SEDIMENT TRANSPORTED TO ROADS FROM THE SITE MUST BE SWEPT AND DISPOSED OF AT A CONTROLLED SEDIMENT DISPOSAL AREA ON SITE OR REMOVED OFF SITE AND DISPOSED AT AN APPROVED FILL SITE. IF STREET WASHING IS NEEDED, IT WILL ONLY OCCUR AFTER SEDIMENT HAS BEEN REMOVED AS DESCRIBED. THE RESULTING WASH WASTEWATER WOULD THEN BE CONTROLLED BY PUMPING IT BACK ON SITE. ALL CONSTRUCTION ACCESS POINTS WILL BE RESTORED TO PRE-CONSTRUCTION OR PROPOSED CONDITIONS.

WASHINGTON STATE DEPARTMENT OF ECOLOGY BMPS CONSIDERED FOR ELEMENT #2 INCLUDE:
- BMP C105: STABILIZED CONSTRUCTION ENTRANCE
- HOUSEKEEPING/MAINTENANCE BMP: DAILY STREET SWEEPING
- HOUSEKEEPING/MAINTENANCE BMP: BMP C140 DUST CONTROL

ELEMENT #3: CONTROL FLOW RATES

FLOW RATES MUST BE CONTROLLED TO THE MAXIMUM EXTENT PRACTICAL. DETENTION SYSTEMS ARE REQUIRED FOR THIS PROJECT. THE PROPOSED DETENTION FACILITY SHALL BE EXCAVATED AS EARLY AS POSSIBLE IN THE CONSTRUCTION PROCESS. THE PROPOSED DETENTION FACILITY SHALL BE FUNCTIONAL FOR EROSION CONTROL PRIOR TO CONSTRUCTION OF OTHER IMPERVIOUS SURFACES ON SITE. THE DETENTION STRUCTURE SHALL BE THOROUGHLY CLEANED AND ALL SEDIMENT SHALL BE REMOVED FROM THE VAULT AFTER THE SITE IS STABILIZED. DISCHARGE WILL BE CONVEYED TO CITY OF SUMNER MUNICIPAL DRAINAGE SYSTEMS LOCATED WITHIN VALLEY AVENUE NORTH OF THE SITE.

WASHINGTON STATE DEPARTMENT OF ECOLOGY BMPS CONSIDERED FOR ELEMENT #3 INCLUDE:
- BMP C241: TEMPORARY SEDIMENT POND

ELEMENT #4: INSTALL SEDIMENT CONTROLS

THE DUFF LAYER, NATIVE TOPSOIL, AND NATURAL AND EXISTING VEGETATION WILL BE RETAINED IN AN UNDISTURBED STATE TO THE MAXIMUM EXTENT PRACTICABLE. ELEMENT #1 OF THIS PLAN, INCLUDING IMPLEMENTING PRESERVING NATURAL VEGETATION, WILL HELP RETAIN SOME AREAS IN AN UNDISTURBED STATE. SILT FENCING WILL BE INSTALLED DOWNHILL FROM DISTURBED AREAS TO TRAP AND RETAIN SEDIMENT ON SITE. OTHER SEDIMENT CONTROLS, SUCH AS TEMPORARY SEDIMENT TRAPS, SUMPS, GRAVEL FILLER BERMS, STRAW WATTLES, ETC. MAY BE INSTALLED IF WARRANTED AS CONDITIONS CHANGE ON SITE DURING CONSTRUCTION. TEMPORARY FILTRATION (BAKER TANKS OR SEDIMENT PONDS) WILL LIKELY BE NECESSARY.

WASHINGTON STATE DEPARTMENT OF ECOLOGY BMPS CONSIDERED FOR ELEMENT #4 INCLUDE:
- BMP C233: SILT FENCE
- BMP C208: TRIANGULAR SILT DIKE
- BMP C241: TEMPORARY SEDIMENT POND
- BMP C251: CONSTRUCTION STORMWATER FILTRATION

ELEMENT #5: STABILIZE SOILS

IF CONSTRUCTION OCCURS IN THE DRY SEASON, (5/1 THROUGH 9/30) SOILS WILL NOT REMAIN EXPOSED AND UNWORKED FOR MORE THAN 7 DAYS. IF CONSTRUCTION OCCURS IN THE WET SEASON (10/1 THROUGH 4/30) SOILS WILL NOT REMAIN EXPOSED AND UNWORKED FOR MORE THAN 2 DAYS. WHEN ACTIVE GRADING IS IN PROGRESS, THE DEADLINE FOR SOIL STABILIZATION MAY BE EXTENDED UPON DETERMINING THAT THE LIKELIHOOD OF EROSION IMPACTS IS LOW BASED ON THE TYPE AND AMOUNT OF SOIL EXPOSED, SITE TOPOGRAPHY, POTENTIAL FOR DISCHARGE TO CRITICAL AREAS AND LAKES, AND OTHER FACTORS. IN ADDITION, WEATHER CONDITIONS WILL CONTINUALLY BE MONITORED, INCLUDING BEFORE HOLIDAYS AND WEEKENDS, FOR PURPOSES OF PREPARING THE SITE FOR PREDICTED WEATHER CONDITIONS. BMPS THAT ARE EFFECTIVE IN STABILIZING SOILS AND PROTECTING THEM FROM EXPOSURE TO RAIN AND WIND OR OTHER CLIMATIC CONDITIONS WILL BE IMPLEMENTED THROUGHOUT THE PROJECT. EVALUATION AND MONITORING OF BMP EFFECTIVENESS WILL OCCUR ON A DAILY BASIS. IN ADDITION, IN THE EVENT OF FORECASTED PRECIPITATION EVENTS, ADDITIONAL MEASURES TO STABILIZE SOILS WILL BE TAKEN.

BMPS THAT WILL BE CONSIDERED THROUGHOUT CONSTRUCTION INCLUDE BUT ARE NOT LIMITED TO TEMPORARY AND PERMANENT SEEDING, SODDING, MULCHING, PLASTIC COVERING, EROSION CONTROL FABRICS AND MATTING, THE EARLY APPLICATION OF GRAVEL BASE ON AREAS TO BE PAVED, AND DUST CONTROL.

WASHINGTON STATE DEPARTMENT OF ECOLOGY BMPS CONSIDERED FOR ELEMENT #5 INCLUDE:
- BMP C120: TEMPORARY AND PERMANENT SEEDING
- BMP C121: MULCHING
- BMP C122: NETS AND BLANKETS
- BMP C123: PLASTIC COVERING
- BMP C124: SODDING
- BMP C125: TOPSOILING
- BMP C140: DUST CONTROL

ELEMENT #6: PROTECT SLOPES

SIGNIFICANT CUT OR FILL SLOPES ARE NOT PROPOSED AS PART OF THIS PROJECT.

ELEMENT #7: PROTECT DRAIN INLETS

STORM DRAIN INLETS ARE PROPOSED AS PART OF THIS PROJECT. OPERABLE STORM DRAIN INLETS ON THE SITE AND WITHIN 500 FEET DOWNSTREAM OF THE CONSTRUCTION AREA ROADS WILL BE PROTECTED SO THAT STORMWATER RUNOFF DOES NOT ENTER THE CONVEYANCE SYSTEM WITHOUT FILTRATION OR OTHER TREATMENT FOR SEDIMENT. STORM DRAIN INLET PROTECTION WILL BE USED TO DETERMINE THE MOST APPROPRIATE INLET PROTECTION DESIGN FOR THE SITE AND THE DOWNSTREAM AREA.

INLETS WILL BE INSPECTED WEEKLY AT A MINIMUM AND DAILY DURING STORM EVENTS. INLET PROTECTION DEVICES MUST BE CLEANED OR REMOVED AND REPLACED BEFORE SIX INCHES OF SEDIMENT CAN ACCUMULATE. CONSTRUCTION ACCESS POINTS AND APPROACHES WILL BE MONITORED AND SWEPT TO MINIMIZE THE POTENTIAL OF SEDIMENT TRANSPORT. IF STREET WASHING OCCURS, THE WASH WASTEWATER WILL BE PUMPED BACK ON SITE.

WASHINGTON STATE DEPARTMENT OF ECOLOGY BMPS CONSIDERED FOR ELEMENT #7 INCLUDE:
- BMP C220: STORM DRAIN INLET PROTECTION

ELEMENT #8: STABILIZE CHANNELS AND OUTLETS

A DRAINAGE CONVEYANCE SYSTEM WILL BE USED AS PART OF THIS PROJECT TO CONVEY NON TURBID STORMWATER RUNOFF FROM THE LOT TO CITY OF SUMNER MUNICIPAL DRAINAGE SYSTEM LOCATED IN VALLEY AVENUE. OUTLETS OF ALL CONVEYANCE SYSTEMS WILL BE PROTECTED AND STABILIZED TO PREVENT EROSION OF OUTLETS AND SWALES. OUTLET PROTECTION WILL BE CONSIDERED FOR PURPOSES OF DESIGNING AND IMPLEMENTING THE MOST EFFECTIVE OUTLET PROTECTION APPROACH.

WASHINGTON STATE DEPARTMENT OF ECOLOGY BMPS CONSIDERED FOR ELEMENT #8 INCLUDE:
- BMP C202: CHANNEL LINING
- BMP C209: OUTLET PROTECTION

ELEMENT #9: CONTROL POLLUTANTS

WASTE MATERIALS GENERATED ON SITE WILL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER; INCLUDING COVERING SOIL STOCKPILES. ROUTINE INSPECTIONS OF THE WASTE MATERIAL STORAGE AREAS WILL BE CONDUCTED TO MAKE SURE THAT LEAKS OR SPILLS DO NOT OCCUR. ANY LEAKAGE OR SPILLS WILL BE CLEANED UP IMMEDIATELY.

MAINTENANCE OF HEAVY EQUIPMENT INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, SOLVENT AND DE-GREASING CLEANING AND/OR OTHER ACTIVITIES THAT MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO STORMWATER RUNOFF WILL BE CONDUCTED WITH SPILL PREVENTION MEASURES IN PLACE, INCLUDING CONDUCTING MAINTENANCE ON A TEMPORARY PAD THAT CAN BE USED TO CAPTURE LARGE SPILLS AND THE USE OF DRIP PANS. IN THE EVENT THAT EMERGENCY REPAIRS NEED TO BE PERFORMED AND CLIMATIC CONDITIONS MAY RESULT IN A PRECIPITATION EVENT PRIOR TO THE REPAIR BEING COMPLETED, THE REPAIR AREA, WHICH INCLUDES THE VEHICLE, WILL BE COVERED WITH TARPS OR OTHER PLASTIC SHEETING. DISCHARGES, SPILLS, OR LEAKS WILL BE CLEANED IMMEDIATELY. THE NOTIFICATION PROCEDURE OUTLINED IN THE PERMANENT SITE SWPPP IS AS FOLLOWS:

ALL SPILLS WILL BE REPORTED TO THE DEPARTMENT OF ECOLOGY, SPILL RESPONSE PROGRAM (425) 649-7000.

BMPS CONSIDERED FOR ELEMENT #9 INCLUDE: SPILL CLEANUP AND RESPONSE PRACTICES

ELEMENT #10: CONTROL DE-WATERING

BASED ON THE SOILS EXPLORATIONS, DEWATERING MAY BE NECESSARY AS PART OF THIS PROJECT. IF NECESSARY, CLEAN, NON-TURBID DE-WATERING WATER, SUCH AS WELL-POINT GROUND WATER, CAN BE DISCHARGED TO SYSTEMS TRIBUTARY TO STATE SURFACE WATERS, PROVIDED THE DE-WATERING FLOW DOES NOT CAUSE EROSION OR FLOODING OF RECEIVING WATERS. THESE CLEAN WATERS SHOULD NOT BE ROUTED THROUGH A STORMWATER SEDIMENT POND.

HIGHLY TURBID OR CONTAMINATED DEWATERING WATER FROM CONSTRUCTION EQUIPMENT OPERATION, CONCRETE TREMIE, POUR, OR WORK INSIDE A COFFERDAM MUST BE HANDLED SEPARATELY FROM STORMWATER.

OTHER DISPOSAL OPTIONS, DEPENDING ON SITE CONSTRAINTS, MAY INCLUDE:
- INFILTRATION
- TRANSPORT OFF SITE IN VEHICLE, SUCH AS A VACUUM FLUSH TRUCK, FOR LEGAL DISPOSAL IN A MANNER THAT DOES NOT POLLUTE STATE WATERS,
- ON-SITE TREATMENT USING CHEMICAL TREATMENT OR OTHER SUITABLE TREATMENT TECHNOLOGIES,
- SANITARY SEWER DISCHARGE WITH LOCAL SEWER DISTRICT APPROVAL, OR
- USE OF A SEDIMENTATION BAG WITH OUTFALL TO A DITCH OR SWALE FOR SMALL VOLUMES OF LOCALIZED DEWATERING.

ELEMENT #11: MAINTAIN BMPS

ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL BMPS WILL BE INSPECTED BY THE CESCL, AND MUST BE MAINTAINED, AND REPAIRED BY THE CONTRACTOR TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. MAINTENANCE AND REPAIR MUST BE CONDUCTED IN ACCORDANCE WITH THE RELEVANT BMP IDENTIFIED IN ELEMENTS #1 THROUGH #10. TEMPORARY EROSION AND SEDIMENT CONTROLS IDENTIFIED ABOVE WILL BE INSPECTED DAILY DURING THE WET SEASON. NEEDED REPAIRS AND MAINTENANCE WILL OCCUR WITHIN SEVEN (7) DAYS OR, IN THE EVENT OF A FORECAST OF INCLEMENT WEATHER, REPAIRS AND MAINTENANCE WILL OCCUR IMMEDIATELY.

TEMPORARY EROSION AND SEDIMENT CONTROL BMPS WILL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY BMPS ARE NO LONGER NEEDED. TRAPPED SEDIMENT WILL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL RESULTING FROM REMOVAL OF BMPS OR VEGETATION MUST BE PERMANENTLY STABILIZED.

ELEMENT #12: MANAGE THE PROJECT

CONSTRUCTION

EXPOSED AREAS DURING THE CLEARING AND GRADING PROCESS WILL BE MULCHED AS PART OF THE CLEARING AND GRADING ACTIVITIES. CLEARING AND GRADING ACTIVITIES WILL OCCUR AFTER THE APPLICABLE PERMITS HAVE BEEN OBTAINED. REVEGETATION OF EXPOSED AREAS AND MAINTENANCE OF THAT VEGETATION WILL OCCUR AS A PART OF THE PLANTING PHASE OF THE PROJECT TO BE INSTALLED AFTER SUB-GRADE ROAD BASE MATERIAL HAS BEEN INSTALLED AND PRIOR TO FINAL GRAVEL SURFACING.

SEASONAL WORK LIMITATIONS

FROM MAY 1 THROUGH SEPTEMBER 30, SOIL WILL NOT BE EXPOSED/UNWORKED FOR 7 DAYS. FROM OCTOBER 1 THROUGH APRIL 30, SOIL WILL NOT REMAIN EXPOSED AND UNWORKED FOR MORE THAN 2 DAYS. IN ADDITION, WEATHER CONDITIONS WILL CONTINUALLY BE MONITORED INCLUDING BEFORE HOLIDAYS AND WEEKENDS FOR PURPOSES OF PREPARING THE SITE FOR PREDICTED WEATHER CONDITIONS. BMPS THAT ARE EFFECTIVE IN STABILIZING SOILS AND PROTECTING THEM FROM EXPOSURE TO RAIN AND WIND OR OTHER CLIMATIC CONDITIONS WILL BE IMPLEMENTED THROUGHOUT THE PROJECT. INSPECTION AND EVALUATION OF THE EFFECTIVENESS OF THE BMPS WILL OCCUR ON A DAILY BASIS. IN ADDITION, IN THE EVENT OF FORECASTED PRECIPITATION EVENTS, ADDITIONAL MEASURES TO STABILIZE SOILS WILL BE TAKEN.

COORDINATION WITH UTILITIES AND OTHER CONTRACTORS

THE STORMWATER MANAGEMENT REQUIREMENTS FOR ALL ASPECTS OF THE CONSTRUCTION PROJECT, INCLUDING UTILITIES, WERE CONSIDERED IN PREPARING THE CONSTRUCTION SWPPP.

INSPECTION AND MONITORING

AS PREVIOUSLY MENTIONED, ALL BMPS WILL BE INSPECTED, MAINTAINED, AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. IN THE EVENT THAT INSPECTION AND/OR MONITORING REVEALS THAT THE BMPS IDENTIFIED IN THIS CONSTRUCTION SWPPP ARE INADEQUATE, DUE TO THE ACTUAL DISCHARGE OF OR POTENTIAL TO DISCHARGE A SIGNIFICANT AMOUNT OF ANY POLLUTANT, THIS SWPPP MUST BE MODIFIED, AS APPROPRIATE, IN A TIMELY MANNER.

MAINTENANCE OF THE CONSTRUCTION SWPPP

THE CONSTRUCTION SWPPP WILL BE RETAINED ON-SITE AND WILL BE UPDATED ON A REGULAR BASIS. MODIFICATIONS TO THE CONSTRUCTION SWPPP WILL BE MADE WHENEVER THERE IS A SIGNIFICANT CHANGE IN THE DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF ANY BMP.

ELEMENT #13: PROTECT LOW IMPACT DEVELOPMENT BMPS

STORMWATER DETENTION POND FACILITIES ARE PROPOSED FOR THIS SITE. PROTECT ALL DETENTION POND FACILITIES FROM SEDIMENTATION DURING CONSTRUCTION THROUGH INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL BMPS ON PORTIONS OF THE SITE THAT DRAIN INTO THE BIORETENTION BMPS. RESTORE THE BMPS TO THEIR FULLY FUNCTIONING CONDITION IF THEY ACCUMULATE SEDIMENT DURING CONSTRUCTION. RESTORING THE BMP MUST INCLUDE REMOVAL OF SEDIMENT FROM PROPOSED DETENTION PONDS IF NECESSARY, AND REPLACING THE REMOVED SOILS WITH SOILS MEETING THE DESIGN SPECIFICATION.

PREVENT COMPACTING STORMWATER DETENTION POND(S) BMPS BY EXCLUDING EQUIPMENT CONSTRUCTION EQUIPMENT AND FOOT TRAFFIC FROM ENTERING THE POND FOOTPRINT AREA AFTER SUBGRADE ELEVATION AND LOOSENING OF SUBGRADE HAS BEEN PREFORMED BY LANDSCAPE CONTRACTOR. TOPSOIL APPLICATION SHALL ALSO INCLUDE INCORPORATION OF LOOSENEND SUBGRADE WITH FIRST TOPSOIL LIFT. SEE BMP T5.13. PROTECT COMPLETED LAWN AND LANDSCAPED AREAS FROM COMPACTION AFTER HYDRO-SEED HAS BEEN APPLIED BY INSTALLING ORANGE CONSTRUCTION BARRIER FENCING OR SILT FENCE.

A STORMWATER POLLUTION PREVENTION PLAN

nts

RMG ARCHITECTS
RMG Architects, PLLC • 1223 Railroad Avenue• Bellingham, WA 98225
P:360.676.7733 • F:360.738.0448 • rmg@rmgarchitects.com

220 West Champion Street, Suite 200 | 360.650.1445
Bellingham, WA 98225
FREELAND & ASSOCIATES

HAROLD A. FREELAND III
STATE OF WASHINGTON
28619
REGISTERED
PROFESSIONAL ENGINEER

Archdiocese of Seattle
St. Andrew Catholic Church
1401 Valley Avenue East, Sumner, Washington, 98390

Job No: 18126 Date: 02-07-2020
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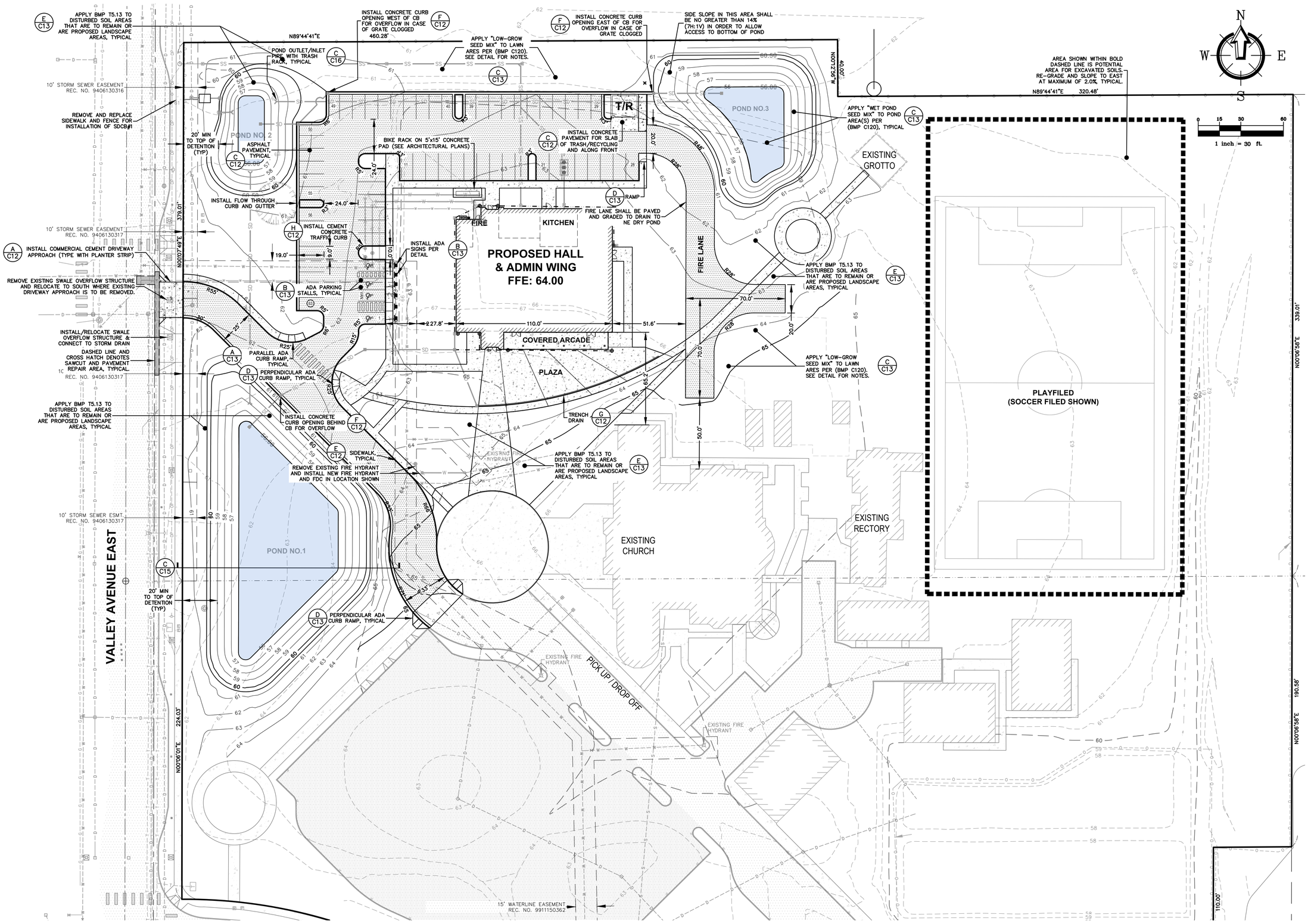
STORMWATER POLLUTION PREVENTION PLAN

C6

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SITE PLAN (OVERVIEW)

C7

POT HOLE NOTE:
EXISTING 24"ø STORM DRAIN INVERT ELEVATION IS APPROXIMATE. CONTRACTOR SHALL POT HOLE AND VERIFY INVERT ELEVATION PRIOR TO INSTALLING STORM DRAIN SYSTEM AND STORMWATER VAULT. INTENT IS FOR PROPOSED 12" STORM DRAIN TO CONNECT TO THE EXISTING DRAINAGE SYSTEM NO LOWER THAN TOP OF THE EXISTING 24" STORM DRAIN. CONTACT PROJECT ENGINEER IF EXISTING 24" INVERT ELEVATION IS HIGHER THAN 51.85.

PROPOSED MODULAR WETLAND SYSTEM (BIOFILTRATION SYSTEM) RIM: 61.00 12" INV (E): 55.00 12" INV (W): 53.00

10' STORM SEWER EASEMENT REC. NO. 9406130316

SDCB #1, TYPE 2-54" W/RING & COVER RIM: 60.76± (FIELD FIT FLUSH) 12" INV E): 52.85± 24" INV (S): 51.85± 24" INV (N): 51.85± *SEE POT HOLE NOTE

SDCB #2, TYPE 2-54" OVERFLOW STRUCTURE W/BEEHIVE GRATE RIM: 60.50 12" INV (S): 56.00 12" INV (W): 56.00

SDCB #3, TYPE 2-54" FLOW CONTROL STRUCTURE RIM: 60.50 12" INV (E): 56.50 12" INV (N): 56.50

7 LF 18"ø CPP @ 14.28%

10 LF 18"ø CPP @ 5.00%

9 LF 18"ø CPP @ 5.55%

12" SD IE: 56.00 INSTALL TRASH RACK, (TYP)

18" SD IE: 56.00 END CUT TO MATCH 5:1 SIDE SLOPE (INSTALL TRASH RACK)

SDCB #6, TYPE 1 W/HERRINGBONE GRATE RIM: 60.68 8" INV (SW): 58.20

118 LF 18"ø CPP @ 0.00%

30 LF 8"ø DI @ 7.00%

27 LF 8"ø DI @ 13.33%

SDCB #5, TYPE 1 W/HERRINGBONE GRATE RIM: 60.59 8" INV (NE): 57.60 8" INV (W): 55.90

POND NO. 2

56.00

60.50

161 LF 18"ø CPP @ 0.00%

SDCB #4, TYPE 1 W/HERRINGBONE GRATE RIM: 56.00 12" INV (W): 52.30

SDMH RIM: 62.03'

10' STORM SEWER EASEMENT REC. NO. 9406130317

15' WATERLINE EASEMENT REC. NO. 9911150362

CROSSING: FG ELEV: 62.50 8" WA IE: 58.80 18" SD IE: 56.00

CROSSING: FG ELEV: 62.50 2" WA IE: 59.30 18" SD IE: 56.00

REMOVE EXISTING SWALE OVERFLOW STRUCTURE AND RELOCATE TO SOUTH WHERE EXISTING DRIVEWAY APPROACH IS TO BE REMOVED.

ADJUST RIM ELEVATION

SDMH RIM: 62.66' 16" DI (W): 55.57' 16" CONC. (S): 53.82' 24" DI (E): 52.72'

INSTALL/RELOCATE SWALE OVERFLOW STRUCTURE & CONNECT TO STORM DRAIN

DASHED LINE AND CROSS HATCH DENOTES SAWCUT AND PAVEMENT REPAIR AREA, TYPICAL.

10' STORM SEWER ESMT. REC. NO. 9406130317

REMOVE EXISTING CONCRETE APPROACH AND INSTALL NEW CURB. EXTEND SWALE FROM SOUTH AND APPLY GRASS SEED MIX.

CONC CURB

PLANTER STRIP

CONC WALK

ASPHALT

10' STORM SEWER ESMT. REC. NO. 9406130317

VALLEY AVENUE EAST

CB RIM: 60.40' 12" ADS (N): 57.86' 4" PVC (S): 57.85'

SDCB #12, TYPE 1 W/HERRINGBONE GRATE RIM: 61.42 12" INV (NE): 56.50 12" INV (SW): 56.50

67 LF 12"ø CPP @ 2.00%

32 LF 12"ø CPP @ 7.03%

SDCB #13, TYPE 1 W/HERRINGBONE GRATE RIM: 56.00 12" INV (NE): 54.25

18" SD IE: 56.00 END CUT TO MATCH 5:1 SIDE SLOPE (INSTALL TRASH RACK)

POND NO.1

SDCB #7, TYPE 2-48" W/RING & COVER RIM: 61.48 18" INV (E): 56.00 18" INV (W): 56.00

CROSSING TP ELEV: 62.00 6" SS IE: 59.30 18" SD IE: 56.00

168 LF 18"ø CPP @ 0.00%

SDCB #8, TYPE 1 W/HERRINGBONE GRATE RIM: 60.51 8" INV (E): 56.51

SDCB #9, TYPE 1 W/HERRINGBONE GRATE RIM: 56.00 8" INV (W): 52.30

48 LF 8"ø PVC @ 8.77%

56.00

18" SD IE: 56.00 END TAPER TO MATCH SIDE SLOPE, TYPICAL (INSTALL TRASH RACK)

POND NO.3

T/R

GROTTO

DOWNSPOUT IN LANDSCAPE, (TYP)

6" SDCO RIM: 63.50 IE: 61.50

FIRE

MR

BATHROOMS

KITCHEN

PROPOSED HALL & ADMIN WING FFE: 64.00

FIRE LANE

PROVIDE 3' MINIMUM COVER OVER EXISTING WATER MAIN. CONTRACTOR TO POTHOLE TO VERIFY.

8" SDCO RIM: 63.50 IE: 59.19

SDCB #11 ,TYPE 1 W/ SOLID COVER RIM: 62.00 12" INV (E): 57.84 12" INV (SW): 57.84

SDCB #10 ,TYPE 1 W/ SOLID COVER RIM: 63.00 6" INV (E): 59.25 6" INV (SW): 59.05 8" INV (N): 59.05 12" INV (W): 58.75

6" SDCO RIM: 63.76 IE: 60.33

11 LF 8"ø PVC @ 1.00%

63 LF 12"ø CPP @ 1.44%

COVERED ARCADE

PLAZA

43 LF 8"ø PVC @ 1.74%

DOWNSPOUT IN PAVEMENT, (TYP)

INSTALL 133 LF TRENCH DRAIN RIM: VARIES (63.35 TO 63.00) BTM. DRAIN: SLOPE @ 0.5% (EAST TO WEST)

TRENCH DRAIN CB (BY MANUFACTURE) RIM: 63.30 6" INV (NW): 59.80

EXISTING FIRE HYDRANT

VERIFY GRADE AND CONTACT PROJECT ENGINEER IF ELEVATION IS GREATER THAN 66.10. LONGITUDINAL SLOPE SHALL NOT BE GREATER THAN 5.0%

CONCRETE WALK

EXISTING BUILDING

EXISTING BUILDING

EXISTING BUILDING

ASPHALT

CHAINLINK FENCE

(OFFSITE)

N W E S

0 10 20 40

1 inch = 20 ft.

RMC ARCHITECTS
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FREELAND & ASSOCIATES
220 West Champion Street, Suite 200 | 360.650.1445
Bellingham, WA 98225

HAMILL A. FREELAND III
STATE OF WASHINGTON
28619
REGISTERED
PROFESSIONAL ENGINEER

Archdiocese of Seattle
# St. Andrew Catholic Church Parish Hall
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1) UPDATED PLANS PER CITY REVIEW 2/4/2020

DRAINAGE PLAN

C8

N
W E
S

0 10 20 40
1 inch = 20 ft

PROPOSED HALL
& ADMIN WING
FFE: 64.00

MR
FIRE
BATHROOMS
KITCHEN
COVERED ARCADE
PLAZA
T/R
FIRE LANE
GROTTO
CONCRETE WALK
EXISTING FIRE HYDRANT
EXISTING BUILDING
ASPHALT
CHAINLINK FENCE
CONC CURB
CONC WALK
PLANTER STRIP

POND NO. 2
POND NO.3
POND NO.1

10' STORM SEWER EASEMENT
REC. NO. 9406130316

10' STORM SEWER EASEMENT
REC. NO. 9406130317

15' WATERLINE EASEMENT
REC. NO. 9911150362

10' STORM SEWER ESMT.
REC. NO. 9406130317

10' STORM SEWER ESMT.
REC. NO. 9406130317

VALLEY AVENUE EAST

SSMH
RIM: 62.22'
8" PVC (N): 56.16'
8" PVC (E): 56.39'

SDMH
RIM: 62.03'

SDMH
RIM: 62.66'
16" DI (W): 55.57'
16" CONC. (S): 53.82'
24" DI (E): 52.72'

CB RIM: 60.40'
12" ADS (N): 57.56'
4" PVC (S): 57.85'

MATCHLINE
(SEE C10)

MATCHLINE
(SEE C10)

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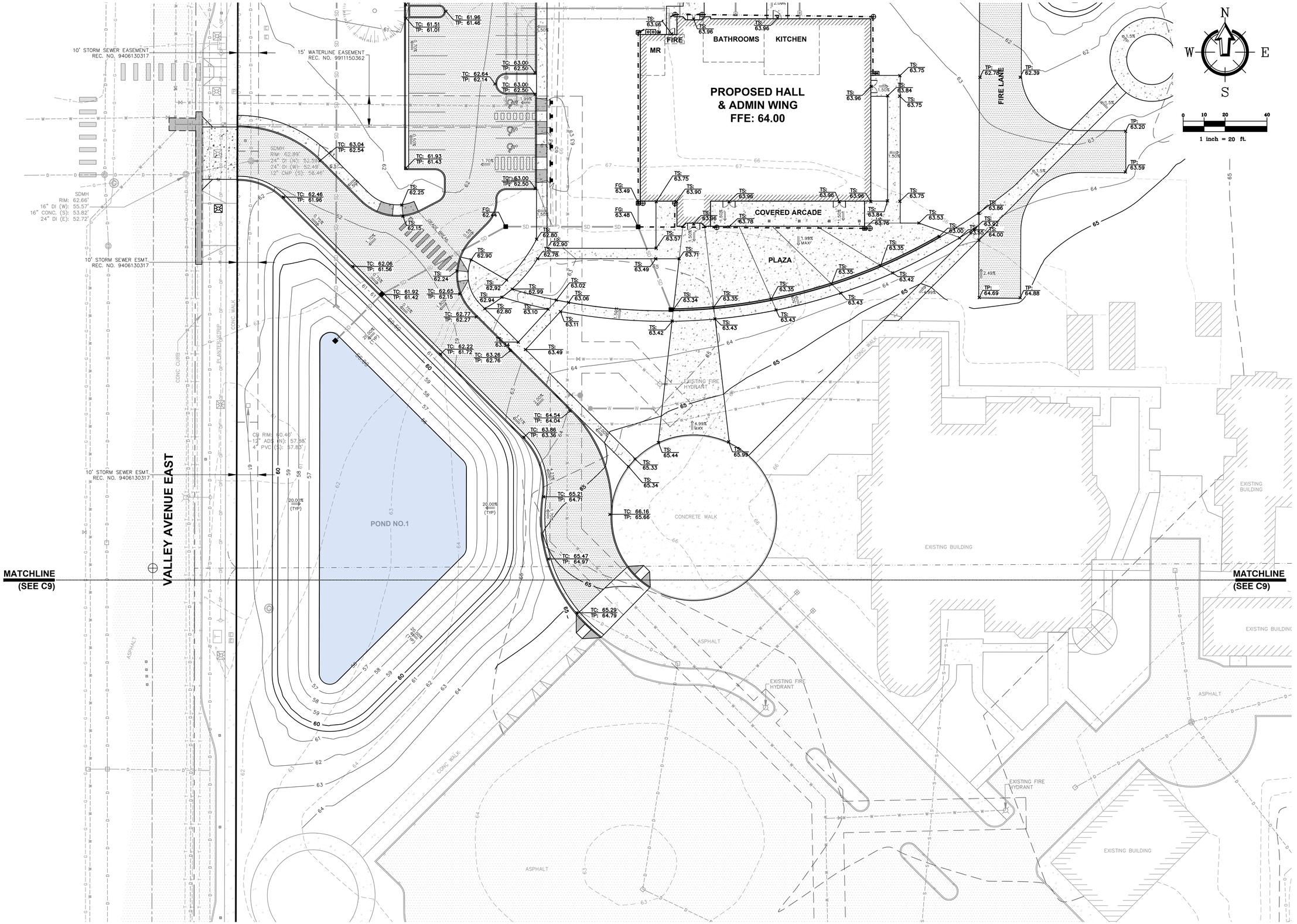
GRADING PLAN - NORTH

C9

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GRADING PLAN - SOUTH

C10

EXISTING STORM WATER FACILITY (OFFSITE)

SSMH RIM: 62.22' 8" PVC (N): 56.16' 8" PVC (E): 56.39'

6" SSCO RIM: 61.0± (FIELD FIT FLUSH) IE: 58.21 — C/C17

S89°44'41"E 460.28'

6" SSCO RIM: 60.63 IE: 57.21 — C/C17

100 LF 6" PVC @ 1.00%

95 LF 6" PVC @ 1.00%

6" SSCO RIM: 61.33 IE: 59.16 — C/C17

CHAINLINK FENCE

30 LF 6" PVC @ 1.66%±

CONNECT TO EXISTING 8" SIDE SEWER STUB IE: 56.71±

10' STORM SEWER EASEMENT REC. NO. 9406130316

POND NO. 2

6" SS IE: 59.47

43 LF 6" PVC @ 1.00%

T/R

POND NO.3

GROTTO

100 LF 6" DI RESTRAINED JOINT FIREMAIN

100 LF 6" PVC @ 1.00%

6" SSCO RIM: 62.51 (FIELD FIT FLUSH) IE: 59.90 — C/C17

6 LF 6" PVC @ 1.00% MIN

86 LF 6" DI RESTRAINED JOINT FIREMAIN

GREASE INTERCEPTOR (1,750 GALLON) ACCESS RIM(S): 62.84 (IN) IE: 59.79 (S) (OUT) IE: 59.96 (N) — E/C17

6" SSCO RIM: 63.50 IE: 60.16 — C/C17

21 LF 6" PVC @ 2.57%

6" SSCO RIM: 63.50 IE: 60.50 — C/C17

SDMH RIM: 62.03'

10' STORM SEWER EASEMENT REC. NO. 9406130317

15' WATERLINE EASEMENT REC. NO. 9911150362

379.01'

N00°07'49"E

PROPOSED 1" WATER METER — B/C18

D/C19 C/C19 (1)– FIRE DEPARTMENT CONNECTION

A/C18 (1)– FIRE HYDRANT ASSEMBLY

INSTALL: (2)–6" 90° BEND [RJ] (2)– THRUST BLOCK

37 LF 6" DI RESTRAINED JOINT WATERMAIN

47 LF 6" DI RESTRAINED JOINT FIREMAIN

(1)–6" POST INDICATOR VALVE [RJ]

FIRE

MR

BATHROOMS

KITCHEN

INSTALL: (2)–6" 90° BEND [RJ] (2)– THRUST BLOCK (2)– 20 LF 6" DI FIREMAIN

PROPOSED HALL & ADMIN WING FFE: 64.00

FIRE LANE

259 LF 2" POLY WATER SERVICE

(1)– 6"X8" TAPPING VALVE AND SLEEVE ASSEMBLY

(1)– 6"X8" TAPPING VALVE AND SLEEVE ASSEMBLY

SDMH RIM: 62.66' 16" DI (W): 55.57' 16" CONC. (S): 53.82' 24" DI (E): 52.72'

COVERED ARCADE

PLAZA

WHERE CURBING IS NOT PRESENT: PROVIDE A RED 6–INCH MINIMUM WIDE STRIPE WITH WHITE "NO PARKING — FIRE LANE" ON THE STRIPE AT MINIMUM 50–FOOT INTERVALS. COORDINATE WITH FIRE DEPARTMENT PRIOR TO FINAL OCCUPANCY. — 1

10' STORM SEWER ESMT. REC. NO. 9406130317

VALLEY AVENUE EAST

CONC CURB — PLANTER STRIP — CONC WALK

BEGIN FIRE LANE MARKING: PROVIDE APPROVED RED CURBS WITH WHITE "NO PARKING — FIRE LANE" ON THE FACE AT MINIMUM 50–FOOT INTERVALS. COORDINATE WITH FIRE DEPARTMENT PRIOR TO FINAL OCCUPANCY. — 1

D/C19 C/C19 INSTALL: (1)–FIRE HYDRANT ASSEMBLY (1)– 6"X8" TAPPING VALVE AND SLEEVE ASSEMBLY (1)–6" DI SPOOL

A/C18 INSTALL NEW (UPDATED) FDC HYDRANT TO BACK OF WALK

ABANDON 6" WATERMAIN: CAP/PLUG AT TEE AND REMOVE 6" DI WATERMAIN. REMOVE EXISTING HYDRANT.

EXISTING FIRE HYDRANT

29 LF 6" DI RESTRAINED JOINT FIREMAIN

CB RIM: 60.40' 12" ADS (N): 57.35' 4" PVC (S): 57.85'

POND NO.1

END FIRE LANE MARKING — 1

CONCRETE WALK

EXISTING BUILDING

EXISTING BUILDING

N00°12'56"W 40.00'

0 10 20 40

1 inch = 20 ft.


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220 West Cranston Street, Suite 200 | 360.650.1445
Bellingham, Washington

FREELAND & ASSOCIATES

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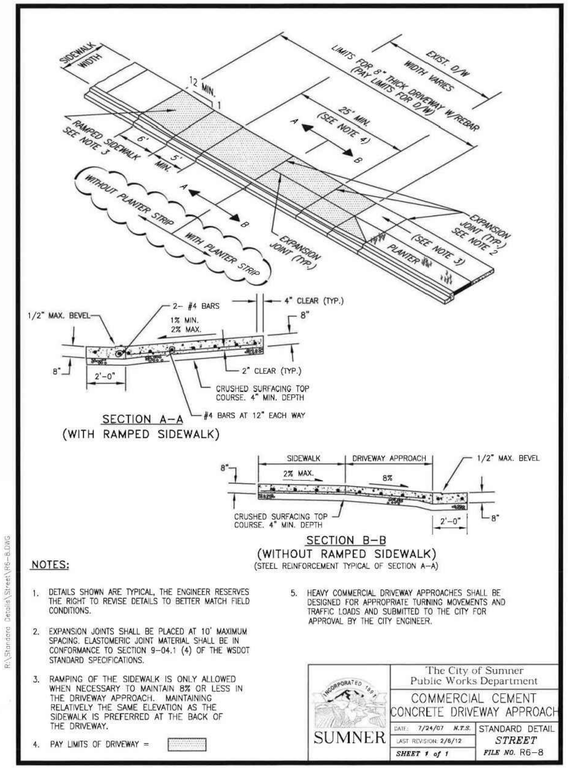
1) UPDATED PLANS PER CITY REVIEW 2/4/2020

SEWER, WATER, & FIRE PLAN

C11



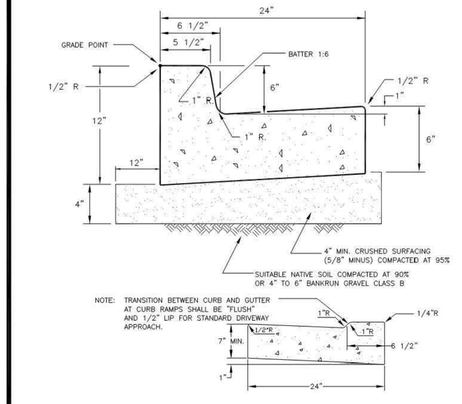

NOTES:

1. DETAILS SHOWN ARE TYPICAL, THE ENGINEER RESERVES THE RIGHT TO REVISE DETAILS TO BETTER MATCH FIELD CONDITIONS.
2. EXPANSION JOINTS SHALL BE PLACED AT 10' MAXIMUM SPACING. ELASTOMERIC JOINT MATERIAL SHALL BE IN CONFORMANCE TO SECTION 9-04.1 (4) OF THE WSDOT STANDARD SPECIFICATIONS.
3. RAMPING OF THE SIDEWALK IS ONLY ALLOWED WHEN NECESSARY TO MAINTAIN 8% OR LESS IN THE DRIVEWAY APPROACH. MAINTAINING RELATIVELY THE SAME ELEVATION AS THE SIDEWALK IS PREFERRED AT THE BACK OF THE DRIVEWAY.
4. PAY LIMITS OF DRIVEWAY =
5. HEAVY COMMERCIAL DRIVEWAY APPROACHES SHALL BE DESIGNED FOR APPROPRIATE TURNING MOVEMENTS AND TRAFFIC LOADS AND SUBMITTED TO THE CITY FOR APPROVAL BY THE CITY ENGINEER.

R:\Standard Details\Street\R6-8.DWG

| The City of Sumner Public Works Department | |
|---|---|
| SUMNER | COMMERCIAL CEMENT CONCRETE DRIVEWAY APPROACH |
| DATE: 7/24/07 N.T.S. | STANDARD DETAIL |
| LAST REVISION: 2/6/12 | STREET |
| SHEET 1 of 1 | FILE NO. R6-8 |

## A COMMERCIAL CEMENT CONCRETE DRIVEWAY
nts




TYPICAL SECTION
DEPRESSED CURB AND GUTTER

NOTES:

1. CONTRACTION JOINTS SHALL BE 1/2" x 2 1/4" ASPHALT SATURATED EXPANSION JOINT PLACED IN ALL EXPOSED SURFACES OF CURB AND GUTTER AND SPACED AT 10' O.C.
2. THRU JOINTS SHALL BE 1/2" ASPHALT SATURATED EXPANSION JOINT PLACED AT POINTS OF TANGENCY ON CURVES, AT CATCH BASINS, AND AT EDGES OF ALLEY AND DRIVEWAYS. THE MAXIMUM DISTANCE BETWEEN THRU JOINTS SHALL BE 100'. ALL JOINTS SHALL BE CLEAN AND IN GUTTER SECTIONS THEY SHALL BE EDGED.
3. CONCRETE SHALL BE COMMERCIAL CONCRETE MIX PER WSDOT 6-02.3(2)B.
4. FORMS SHALL BE STEEL AND SHALL BE SET TRUE TO LINE AND GRADE AND SECURELY STAKED PRIOR TO CONCRETE PLACEMENT. FULL DEPTH DIVISION PLATES ARE ONLY TO BE USED WHERE THRU JOINTS ARE TO BE PLACED.
5. THE 1" RADIUS ON THE UPPER FACE OF THE CURB MAY BE FORMED BY AN EDGER TOOL OR BUILT INTO THE FACE FORM. THE 1" RADIUS AT THE BOTTOM FACE OF THE CURB SHALL BE FORMED BY THE FACE FORM.
6. ALL CONSTRUCTION SHALL CONFORM TO THESE SPECIFICATIONS AND TO THE WSDOT STANDARD SPECIFICATIONS SECTION 8-04, METHOD OF CURING TO BE APPROVED BY CITY ENGINEER.
7. NO CALCIUM IS ALLOWED IN CEMENT CONCRETE MIX FOR STRUCTURES CONSTRUCTED IN THE RIGHT-OF-WAY.

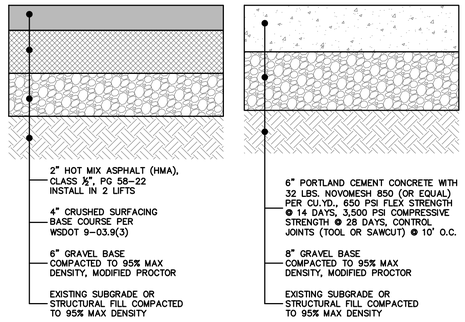
R:\Standard Details\Street\R6-7.DWG

| The City of Sumner Public Works Department | |
|---|---|
| SUMNER | CURB AND GUTTER |
| DATE: 8/6/07 N.T.S. | STANDARD DETAIL |
| LAST REVISION: 6/25/10 | STREET |
| SHEET 1 of 1 | FILE NO. R6-7 |

## B CURB AND GUTTER
nts

NOTES:

1. ALL DEPTHS REPRESENT COMPACTED THICKNESSES.
2. CONTROL JOINTS SHALL BE 1/4 DEPTH OF SLAB.
3. ALL CONSTRUCTION JOINTS SHALL BE DOWELED.




ASPHALT CONCRETE PAVEMENT

CEMENT CONCRETE PAVEMENT

SUBGRADE AND GRAVEL BASE NOTES:

1. STRUCTURAL FILL SHALL BE PLACED IN HORIZONTAL LIFTS APPROXIMATELY 8 TO 10 INCHES IN LOOSE THICKNESS AND THOROUGHLY COMPACTED. THE FILL SHALL BE COMPACTED TO A MINIMUM OF 92 PERCENT, EXCEPT THE UPPER 24 INCHES OF SUBGRADE, WHICH SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY.
2. STRUCTURAL FILL SHALL CONSIST OF CLEAN, WELL-GRADED SANDY GRAVEL, GRAVELLY SAND, OR OTHER APPROVED NATURALLY OCCURRING GRANULAR MATERIAL (PIT RUN) WITH AT LEAST 40 PERCENT RETAINED ON THE NO. 4 SIEVE, OR A WELL-GRADED CRUSHED ROCK.
3. DRY WEATHER STRUCTURAL FILL MAY CONTAIN UP TO 10% FINES PASSING THE U.S. NO. 200 SIEVE. WET WEATHER STRUCTURAL FILL MAY NOT CONTAIN MORE THAN 5 PERCENT FINES PASSING THE U.S. NO. 200 SIEVE. THE CONTRACTOR SHALL MONITOR THE WEATHER AND DETERMINE THE APPROPRIATE FILL TO UTILIZE ON SITE TO ENSURE THAT THE ABOVE COMPACTION REQUIREMENTS ARE MET.
4. IF APPROVED BY A GEOTECHNICAL ENGINEER, STRUCTURAL FILL NOT MEETING THE ABOVE REQUIREMENTS CAN BE USED FOR FILL BELOW 24" OF FINAL GRADE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IN WRITING. GEOTECHNICAL RECOMENDATIONS/APPROVAL SHALL ACCOMPANY THE NOTIFICATION.

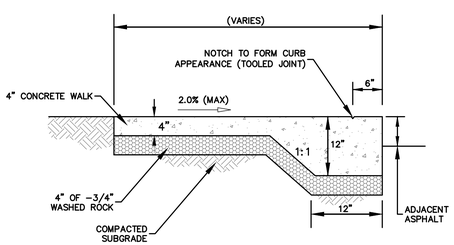
## C PAVEMENT SECTIONS
nts

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST EDITIONS OF THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AND THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION STANDARDS, EXCEPT AS AMENDED OR SUPERSEDED BY THE CITY OF SUMNER DEVELOPMENT SPECIFICATIONS AND STANDARD DETAILS.
2. THE CONTRACTOR SHALL OBTAIN ALL APPROVALS AND PERMITS REQUIRED BY THE CITY OF SUMNER PRIOR TO THE START OF CONSTRUCTION.
3. ANY REVISIONS MADE TO THESE DRAWINGS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER OF RECORD AND THE CITY OF SUMNER PRIOR TO IMPLEMENTATION IN THE FIELD.
4. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION, CALL 1-800-424-5555 FOR "ONE CALL LOCATES."
5. ANY STRUCTURE AND/OR OBSTRUCTION THAT REQUIRE RELOCATION OR REMOVAL AS A RESULT OF THIS PROJECT SHALL BE DONE AT THE DEVELOPER'S EXPENSE.
6. SIGNING AND TRAFFIC CONTROL DEVICES ARE SAFETY ITEMS THAT SHALL BE CONSTRUCTED PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY. ALL SIGNING SHALL BE IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
7. ROADWAY GRADIENTS THAT EXCEED THE MAXIMUM LONGITUDINAL SLOPE MUST BE APPROVED BY THE FIRE MARSHAL. APPROVAL MAY INCLUDE THE REQUIREMENT THAT FIRE SUPPRESSION SPRINKLER SYSTEMS BE INSTALLED IN ALL RESIDENTIAL STRUCTURES THAT HAVE SOLE ACCESS FROM THAT ROADWAY.
8. AT THE INTERSECTION OF TWO DISSIMILARLY CLASSIFIED STREETS, THE LARGER CURB RETURN RADIUS SHALL BE USED. TWO-CENTERED OR THREE-CENTERED CURVES SHOULD BE USED ON OBLIQUE ANGLE INTERSECTIONS, OR IN ORDER TO ACCOMMODATE WB-63 OR WB-50 VEHICLES.

## D ROADWAY NOTES
nts

NOTES:

1. WHEN SET FLUSH TO PAVEMENT THE SIDEWALK EDGE SHALL BE THICKENED IN ORDER TO PREVENT CRACKING DUE TO LARGE TRUCK/VEHICLE TIRE CROSSING.
2. EDGE DOES NOT NEED TO BE THICKENED IN AREAS WHERE ADJACENT TO PLANTING/LANDSCAPE AREAS OR BUILDING FOUNDATION.
3. TOOLED JOINTS SPACED TO MATCH SIDEWALK WIDTH – EXPANSION JOINTS SPACED 100' MAX. & WHERE WALK JOINS DRIVEWAY OR CURB. VARIES 6"-0"
4. NOTCH TO FORM CURB APPEARANCE IS NOT REQUIRED WHEN SIDEWALK IS ADJACENT TO LANDSCAPING.




## E SIDEWALK
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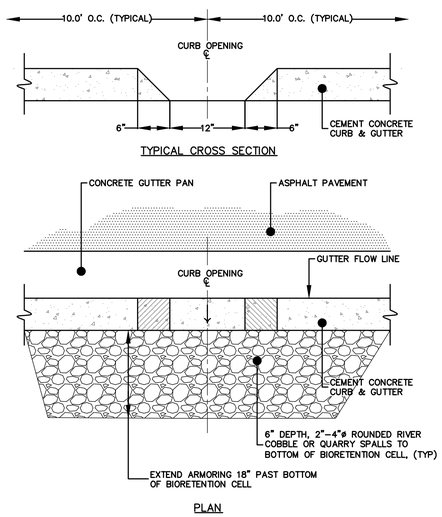


TYPICAL CROSS SECTION

PLAN

## F CONCRETE CURB OPENING
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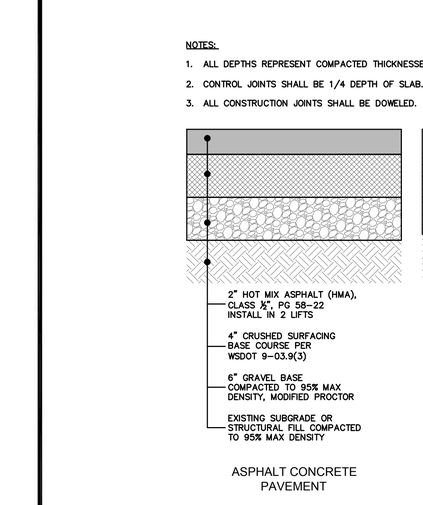


## G PRE-FORMED TRENCH DRAIN
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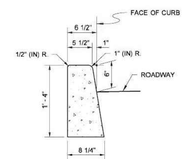



CEMENT CONCRETE TRAFFIC CURB

EDWARD PATRICK BARRY STATE OF WASHINGTON 24363 REGISTERED PROFESSIONAL ENGINEER

Barry, Ed
May 6 2014 3:31 PM

CEMENT CONCRETE CURBS

STANDARD PLAN F-10.12-03

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Bakersfield, District
Jan 31 2014 1:25 PM
STATE DESIGN ENGINEER
Washington State Department of Transportation

## H CEMENT CONCRETE TRAFFIC CURB
nts

RMC ARCHITECTS
RMC Architects, PLLC • 1223 Railroad Avenue • Bellingham, WA 98225
P: 360.676.7733 • F: 360.738.0448 • rmc@rmcarchitects.com

220 West Mercer Street, Suite 200 | 98119-1645
Seattle, WA 98119
FREELAND & ASSOCIATES

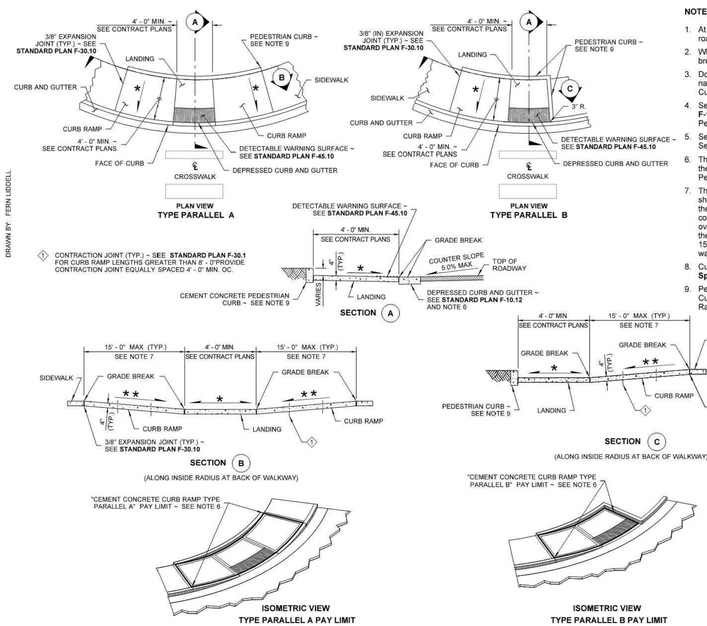
HAROLD A. FREELAND III
STATE OF WASHINGTON
28619
REGISTERED PROFESSIONAL ENGINEER

Archdiocese of Seattle
St. Andrew Catholic Church Parish Hall
1401 Valley Avenue East, Sumner, Washington, 98390

Job No: 18126 Date: 02-07-2020
File No: 18126SP9
Drawn By: MID
Checked By: HAF
Issued for: PERMIT SET

PAVING DETAILS AND ROADWAY NOTES

C12




NOTES

1. At marked crosswalks, the connection between the landing and the roadway must be contained within the width of the crosswalk markings.
2. Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush.
3. Do not place Gratings, Junction Boxes, Access Covers, or other appurtenances on any part of the Curb Ramp or Landing, or in the Depressed Curb and Gutter where the Landing connects to the roadway.
4. See Contract Plans for the curb design specified. See **Standard Plan F-10.12** for Curb, Curb and Gutter, Depressed Curb and Gutter, and Pedestrian Curb details.
5. See **Standard Plan F-30.10** for Cement Concrete Sidewalk Details. See Contract Plans for width and placement of sidewalk.
6. The Bid Item "Cement Concrete Curb Ramp Type __" does not include the adjacent Curb, Curb and Gutter, Depressed Curb and Gutter, Pedestrian Curb, or Sidewalks.
7. The Curb Ramp length is not required to exceed 15 feet (unless otherwise shown in the Contract Plans). When applying the 15-foot max. length, the running slope of the curb ramp is allowed to exceed 8.3%. Use a single constant slope from bottom of ramp to top of ramp to match into the sidewalk over a horizontal distance of 15 feet. Do not include abutting landing(s) in the15-foot max. measurement. When a ramp is constructed on a radius, the 15-foot max. length is measured on the inside radius along the back of the walkway.
8. Curb Ramps and Landings shall receive a broom finish. See **Standard Specifications 8-14.**
9. Pedestrian Curb may be omitted if the ground surface at the back of the Curb Ramp and/or Landing will be at the same elevation as the Curb Ramp or Landing and there will be no material to retain.

R. SCOTT ZELLER STATE OF WASHINGTON 28819 REGISTERED PROFESSIONAL ENGINEER

Zeller, Scott Jun 24 2016 7:19 AM

**PARALLEL CURB RAMP**

**STANDARD PLAN F-40.12-03**

SHEET 1 OF 1 SHEET

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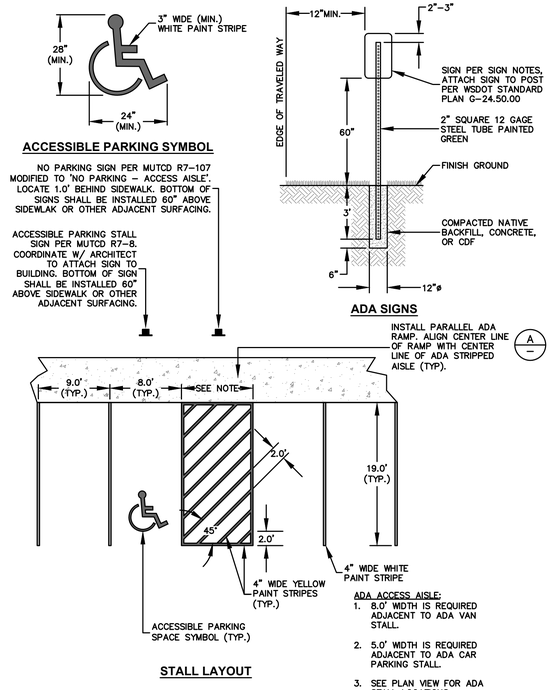
Carpenter, Jeff 1 signature.pdf Jun 29 2016 7:23 PM
STATE DESIGN ENGINEER
Washington State Department of Transportation

## A PARALLEL CURB RAMP
nts




ADA ACCESS AISLE:

1. 8.0' WIDTH IS REQUIRED ADJACENT TO ADA VAN STALL.
2. 5.0' WIDTH IS REQUIRED ADJACENT TO ADA CAR PARKING STALL.
3. SEE PLAN VIEW FOR ADA STALL LOCATIONS.

## B ADA ACCESSIBLE STALL AND ADA SIGN
nts

SEED APPLICATION NOTES:

1. LAWN/GRASS SEED AREAS SHALL COMPLY WITH BMP T5.13 AND SHALL MEET LANDSCAPE SPECIFICATIONS DEFINED IN "329200 – TURF & GRASSES".
2. LAWN AREAS SHALL RECEIVE 'LOW–GROW TURF SEED MIX' OR 'LANDSCAPING SEED MIX'; OWNER TO DETERMINE PRIOR TO SEEDING AND BASED ON IRRIGATION SYSTEM COVERAGE AND NON–COVERED AREAS.
3. DETENTION POND AREAS ARE TO RECEIVE WADOE 'WET AREA SEED MIX'; APPLY WET AREA SEED MIX FROM BOTTOM OF POND TO TOP OF LIVE STORAGE ELEVATION (59.00').
4. LANDSCAPE SPECIFICATIONS DEFINE RATE OF APPLICATION, HYDRO–SEED MULCH, FERTILIZER, TACKIFIER TYPE, TIME OF YEAR FOR SEEDING, SUB–GRADE AND TOPSOIL PREPARATION, AND MAINTENANCE PERIOD.



**2019 Stormwater Management Manual for Western Washington**

BMP C120 | No Filters

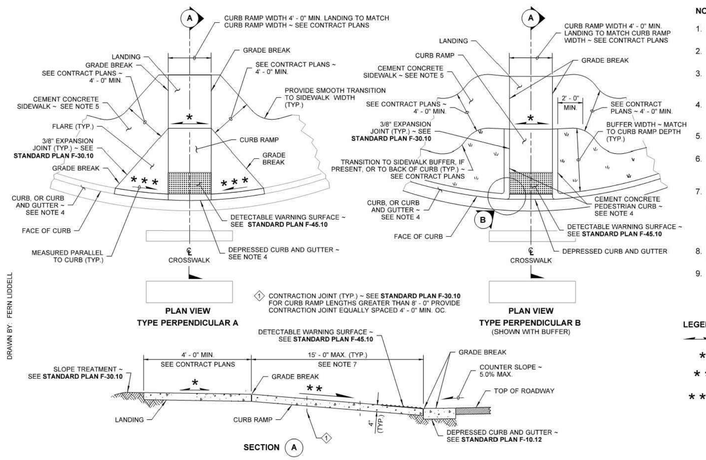
| | | | | |
|---|---|---|---|---|
| Redtop or colonial bentgrass | *Agrostis alba* or *Agrostis tenuis* | 5 | 92 | 85 |
| White dutch clover | *Trifolium repens* | 5 | 98 | 90 |
| **Landscaping Seed Mix** A recommended mix for landscaping seed. | | | | |
| Perennial rye blend | *Lolium perenne* | 70 | 98 | 90 |
| Chewings and red fescue blend | *Festuca rubra var. commutata* or *Festuca rubra* | 30 | 98 | 90 |
| **Low-Growing Turf Seed Mix** A turf seed mix for dry situations where there is no need for watering. This mix requires very little maintenance. | | | | |
| Dwarf tall fescue (several varieties) | *Festuca arundinacea var.* | 45 | 98 | 90 |
| Dwarf perennial rye (Barclay) | *Lolium perenne var. barclay* | 30 | 98 | 90 |
| Red fescue | *Festuca rubra* | 20 | 98 | 90 |
| Colonial bentgrass | *Agrostis tenuis* | 5 | 98 | 90 |
| **Bioswale Seed Mix** A seed mix for bioswales and other intermittently wet areas. | | | | |
| Tall or meadow fescue | *Festuca arundinacea* or *Festuca elatior* | 75-80 | 98 | 90 |
| Seaside/Creeping bentgrass | *Agrostis palustris* | 10-15 | 92 | 85 |
| Redtop bentgrass | *Agrostis alba* or *Agrostis gigantea* | 5-10 | 90 | 80 |
| **Wet Area Seed Mix** A low-growing, relatively non-invasive seed mix appropriate for very wet areas that are not regulated wetlands. Consult Hydraulic Permit Authority (HPA) for seed mixes if applicable. | | | | |
| Tall or meadow fescue | *Festuca arundinacea* or *Festuca elatior* | 60-70 | 98 | 90 |
| Seaside/Creeping bentgrass | *Agrostis palustris* | 10-15 | 98 | 85 |
| Meadow foxtail | *Alopecurus pratensis* | 10-15 | 90 | 80 |
| Alsike clover | *Trifolium hybridum* | 1-6 | 98 | 90 |
| Redtop bentgrass | *Agrostis alba* | 1-6 | 92 | 85 |
| **Meadow Seed Mix** A recommended meadow seed mix for infrequently maintained areas or non-maintained areas where colonization by native plants is desirable. Likely applications include rural road and utility right-of-way. Seeding should take place in September or very early October in order to obtain adequate establishment prior to the winter months. Consider the appropriateness of clover, a fairly invasive species, in the mix. Amending the soil can reduce the need for clover. | | | | |
| Redtop or Oregon bentgrass | *Agrostis alba* or *Agrostis oregonensis* | 20 | 92 | 85 |
| Red fescue | *Festuca rubra* | 70 | 98 | 90 |
| White dutch clover | *Trifolium repens* | 10 | 98 | 90 |

**Roughening and Retotlling**

- The seedbed should be firm and rough. Roughen all soil no matter what the slope. Track walk slopes before seeding if engineering purposes require compaction. Backblading or smoothing of slopes greater than 4H:1V is not allowed if they are to be seeded.



## C BMP C120 - PERMANENT SEEDING
nts




NOTES

1. At marked crosswalks, the connection between the curb ramp and the roadway must be contained within the width of the crosswalk markings.
2. Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush.
3. Do not place Gratings, Junction Boxes, Access Covers, or other appurtenances on any part of the Curb Ramp or Landing, or in front of the Curb Ramp where it connects to the roadway.
4. See Contract Plans for the curb design specified. See **Standard Plan F-10.12** for Curb, Curb and Gutter, Depressed Curb and Gutter, and Pedestrian Curb details.
5. See **Standard Plan F-30.10** for Cement Concrete Sidewalk Details. See Contract Plans for width and placement of sidewalk.
6. The Bid Item "Cement Concrete Curb Ramp Type __" does not include the adjacent Curb, Curb and Gutter, Depressed Curb and Gutter, Pedestrian Curb, or Sidewalks.
7. The Curb Ramp length is not required to exceed 15 feet (unless shown otherwise in the Contract Plans). When applying the 15-foot max. length, the running slope of the Curb Ramp is allowed to exceed 8.3%. Use a single constant slope from bottom of ramp to top of ramp to match into the landing over a horizontal distance of 15 feet. Do not include the abutting landing in the 15-foot max. measurement.
8. Curb Ramps and Landings shall receive a broom finish. See **Standard Specifications 8-14.**
9. Pedestrian Curb may be omitted if the ground surface at the back of the Curb Ramp and/or Landing will be at the same elevation as the Curb Ramp or Landing and there will not be material to retain.

LEGEND

- SLOPE IN EITHER DIRECTION
- * 1.5 OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (2% MAX.)
- ** 7.5% OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (8.3% MAX.)
- *** 9.5% OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (10% MAX.)

R. SCOTT ZELLER STATE OF WASHINGTON 28819 REGISTERED PROFESSIONAL ENGINEER

Zeller, Scott Jun 24 2016 7:20 AM

**PERPENDICULAR CURB RAMP**

**STANDARD PLAN F-40.15-03**

SHEET 1 OF 1 SHEET

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STATE DESIGN ENGINEER
Washington State Department of Transportation

## D PERPENDICULAR CURB RAMP
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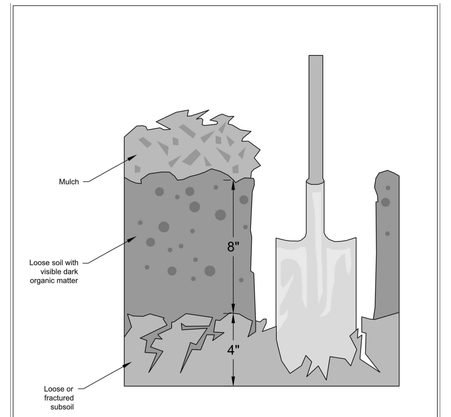


Reprinted from *Guidelines and Resources For Implementing Soil Quality and Depth BMP T5.13 in WDOE Stormwater Management Manual for Western Washington*, 2010, Washington Organic Recycling Council

NOT TO SCALE

DEPARTMENT OF ECOLOGY State of Washington

Figure V-5.3.3
Planting Bed Cross-Section

Revised January 2016

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## E BMP T5.13 - SOIL AMENDMENTS
nts

GENERAL NOTES

1. GENERAL CONTRACTOR AND LANDSCAPE CONTRACTOR SHALL EXAMINE ALL PLANTING AREAS FOR THE CONDITIONS WHICH WOULD ADVERSELY AFFECT THE LANDSCAPING INSTALLATION AND LONG–TERM HEALTH OF PLANTS AND LAWN. COMMENCEMENT OF LANDSCAPING (LOOSENING OF SUBGRADE PER SOIL PREPARATION BMP T5.13), TOPSOIL INCORPORATION, PLANTING, HYDRO–SEEDING, AND MULCHING SHALL BE APPROVED BY THE PROJECT LANDSCAPE ARCHITECT PRIOR INITIATING THE LANDSCAPE CONTRACTOR SUBGRADE AND TOPSOIL PREPARATION AND INSTALLATION OF WORK. THAT IS, THE SUBGRADE ELEVATION, WHICH IS TO BE SET BY THE EARTHWORK OR GENERAL CONTRACTOR, SHALL BE APPROVED PRIOR TO LANDSCAPE CONTRACTOR COMMENCEMENT OF WORK.
2. GENERAL CONTRACTOR AND LANDSCAPE CONTRACTOR AND LANDSCAPE CONTRACTOR SHALL LOOK FOR REMNANTS OF PUDDLE FORMATIONS, LOW SPOTS, OVER COMPACTION FROM CONSTRUCTION EQUIPMENT TRAFFIC, DEAD–END DRAINAGE AREAS WITH NO DRAINAGE SYSTEM INLET, AND UNINCORPORATED LAYERS OF SOIL. EARTHWORK CONTRACTOR OR GENERAL CONTRACTOR SHALL REMEDY PROBLEM AREAS PRIOR TO LOOSENING OF SUBGRADE.
3. SUBGRADE: LANDSCAPE CONTRACTOR SHALL INSPECT PLANTING AREAS FOR CONDITION (SOIL TEXTURE, COMPACTION, APPROPRIATE SUBGRADE ELEVATION, DEPTH TO HARDPAN, POSITIVE DRAINAGE, CONSTRUCTION MATERIAL & SPOILS, AND NOXIOUS/WEED ROOT FRAGMENTS) PRIOR TO LOOSENING SUBGRADE PER SOIL PREPARATION BMP T5.13. IN AREAS WHERE EXISTING BUILDINGS OR PAVEMENT WERE LOCATED, THE SUBGRADE IS TO BE SET 6" LOWER THAN NOTED IN SOIL PREPARATION BMP T5.13. IN ORDER TO INCREASE THE SUBGRADE PARENT MATERIAL SOIL QUALITY AND QUANTITY.
4. ESTABLISHING A MINIMUM SOIL QUALITY AND DEPTH IS NOT THE SAME AS PRESERVATION OF NATURALLY OCCURRING SOIL AND VEGETATION. HOWEVER, ESTABLISHING A MINIMUM SOIL QUALITY AND DEPTH WILL PROVIDE IMPROVED ON–SITE MANAGEMENT OF STORMWATER FLOW AND WATER QUALITY. SOIL ORGANIC MATTER CAN BE ATTAINED THROUGH NUMEROUS MATERIALS SUCH AS COMPOST, COMPOSTED WOODY MATERIAL, BIOSOLIDS, AND FOREST PRODUCT RESIDUALS. IT IS IMPORTANT THAT THE MATERIALS USED TO MEET THE SOIL QUALITY AND DEPTH BMP BE APPROPRIATE AND BENEFICIAL TO THE PLANT COVER TO BE ESTABLISHED. LIKEWISE, IT IS IMPORTANT THAT IMPORTED TOPSOILS IMPROVE SOIL CONDITIONS AND DO NOT HAVE AN EXCESSIVE PERCENT OF CLAY FINES. THIS BMP CAN BE CONSIDERED INFEASIBLE ON TILL SOIL SLOPES GREATER THAN 33 PERCENT.

DESIGN GUIDELINES

SOIL RETENTION: RETAIN, IN AN UNDISTURBED STATE, THE DUFF LAYER AND NATIVE TOPSOIL TO THE MAXIMUM EXTENT PRACTICABLE. IN ANY AREAS REQUIRING GRADING REMOVE AND STOCKPILE THE DUFF LAYER AND TOPSOIL ON SITE IN A DESIGNATED, CONTROLLED AREA, NOT ADJACENT TO PUBLIC RESOURCES AND CRITICAL AREAS, TO BE REAPPLIED TO OTHER PORTIONS OF THE SITE WHERE FEASIBLE.

SOIL QUALITY: ALL AREAS SUBJECT TO CLEARING AND GRADING THAT HAVE NOT BEEN COVERED BY IMPERVIOUS SURFACE, INCORPORATED INTO A DRAINAGE FACILITY OR ENGINEERED AS STRUCTURAL FILL OR SLOPE SHALL, AT PROJECT COMPLETION, DEMONSTRATE THE FOLLOWING:

1. A TOPSOIL LAYER WITH A MINIMUM ORGANIC MATTER CONTENT OF 10% DRY WEIGHT IN PLANTING BEDS, AND 5% ORGANIC MATTER CONTENT IN TURF AREAS, AND A PH FROM 6.0 TO 8.0 OR MATCHING THE PH OF THE UNDISTURBED SOIL. THE TOPSOIL LAYER SHALL HAVE A MINIMUM DEPTH OF EIGHT INCHES EXCEPT WHERE TREE ROOTS LIMIT THE DEPTH OF INCORPORATION OF AMENDMENTS NEEDED TO MEET THE CRITERIA. SUBSOILS BELOW THE TOPSOIL LAYER SHOULD BE SCARIFIED AT LEAST 4 INCHES WITH SOME INCORPORATION OF THE UPPER MATERIAL TO AVOID STRATIFIED LAYERS, WHERE FEASIBLE.
2. MULCH PLANTING BEDS WITH 3 INCHES OF ORGANIC MATERIAL
3. USE COMPOST AND OTHER MATERIALS THAT MEET THESE ORGANIC CONTENT REQUIREMENTS:
   a. THE ORGANIC CONTENT FOR "PRE–APPROVED" AMENDMENT RATES CAN BE MET ONLY USING COMPOST MEETING THE COMPOST SPECIFICATION FOR BIORETENTION (BMP T7.30), WITH THE EXCEPTION THAT THE COMPOST MAY HAVE UP TO 35% BIOSOLIDS OR MANURE. THE COMPOST MUST ALSO HAVE AN ORGANIC MATTER CONTENT OF 40% TO 65%, AND A CARBON TO NITROGEN RATION BELOW 25:1. THE CARBON TO NITROGEN RATION MAY BE AS HIGH 35:1 FOR PLANTINGS COMPOSED ENTIRELY OF PLANTS NATIVE TO THE PUGET SOUND LOWLANDS REGION.
   b. CALCULATED AMENDMENT RATES MAY BE MET THROUGH USE OF COMPOSTED MATERIALS MEETING (A.) ABOVE; OR OTHER ORGANIC MATERIALS AMENDED TO MEET THE CARBON TO NITROGEN RATIO REQUIREMENTS, AND MEETING THE CONTAMINANT STANDARDS OF GRADE A COMPOST.

THE RESULTING SOIL SHOULD BE CONDUCIVE TO THE TYPE OF VEGETATION TO BE ESTABLISHED.

IMPLEMENTATION OPTIONS: THE SOIL QUALITY DESIGN GUIDELINES LISTED ABOVE CAN BE MET BY USING ONE OF THE METHODS LISTED BELOW:

1. LEAVE UNDISTURBED NATIVE VEGETATION AND SOIL, AND PROTECT FROM COMPACTION DURING CONSTRUCTION.
2. AMEND EXISTING SITE TOPSOIL OR SUBSOIL EITHER AT DEFAULT 'PRE–APPROVED' RATES, OR AT CUSTOM CALCULATED RATES BASED ON TESTS OF THE SOIL AND AMENDMENT.
3. STOCKPILE EXISTING TOPSOIL DURING GRADING, AND REPLACE IT PRIOR TO PLANTING. STOCKPILED TOPSOIL MUST ALSO BE AMENDED IF NEEDED TO MEET THE ORGANIC MATTER OR DEPTH REQUIREMENTS, EITHER AT A DEFAULT 'PRE–APPROVED' RATE OR AT A CUSTOM CALCULATED RATE.
4. IMPORT TOPSOIL MIX OF SUFFICIENT ORGANIC CONTENT AND DEPTH TO MEET THE REQUIREMENTS.

MORE THAN ONE METHOD MAY BE USED ON DIFFERENT PORTIONS OF THE SAME SITE. SOIL THAT ALREADY MEETS THE DEPTH AND ORGANIC MATTER QUALITY STANDARDS, AND IS NOT COMPACTED, DOES NOT NEED TO BE AMENDED.

RMC ARCHITECTS
RMC Architects, PLLC • 1223 Railroad Avenue • Bellingham, WA 98225
P: 360.676.7733 • F: 360.738.0448 • rmc@rmcarchitects.com

FREELAND & ASSOCIATES
220 West Champion Street, Suite 200 | 360.650.1449
Bellingham, WA 98225

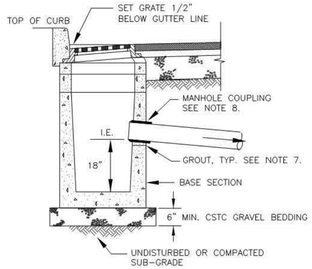
HAROLD A. FREELAND III STATE OF WASHINGTON 28619 REGISTERED PROFESSIONAL ENGINEER

Archdiocese of Seattle
St. Andrew Catholic Church
1401 Valley Avenue East, Sumner, Washington, 98390

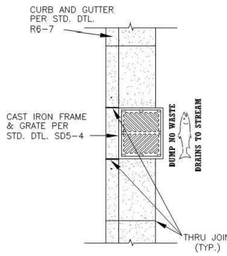
Job No: 18126 Date: 02-07-2020
File No: 18126SP9
Drawn By: MID
Checked By: HAF
Issued for: PERMIT SET

PAVING AND DRAINAGE DETAILS

C13




SECTION VIEW




PLAN VIEW

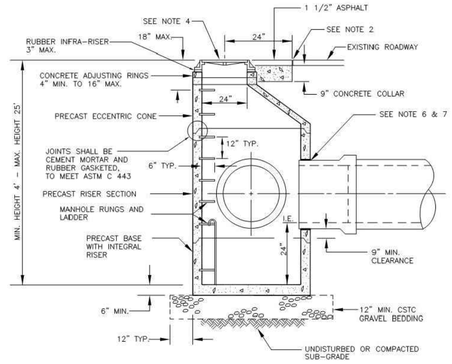
NOTES:

1. MAXIMUM LENGTH OF PIPE BETWEEN CATCH BASINS SHALL BE 400'.
2. MAXIMUM GUTTER LINE FLOW LENGTH SHALL BE 300'.
3. TYPE I CATCH BASIN IS USED FOR DEPTHS LESS THAN 5'-0" FROM TOP OF GRATE TO I.E.(PIPE INVERT).
4. PRECAST BASE SECTION SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN. KNOCKOUTS SHALL BE ON 4 SIDES WITH A MAXIMUM DIAMETER OF 20" TO PROVIDE FOR A MINIMUM SUMP DEPTH OF 18".
5. CATCH BASIN SHALL BE ALIGNED WITHIN 6" OF FACE OF CURB MAX.
6. CATCH BASIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C 478 (AASHTO M 199) AND ASTM C 890 UNLESS OTHERWISE NOTED.
7. GROUT SHALL BE PORTLAND CEMENT AND SAND. PER WSDOT 9-04.3. NO CALCIUM ALLOWED. NO JET-SET ALLOWED.
8. SAND COLLAR SHALL BE USED WITH PVC STORM PIPE.
9. GROUT SHALL BE PLACED BETWEEN EACH ADJUSTMENT SECTION AND AT THE TOP OF THE STRUCTURE WITH 100% COVERAGE.
10. ALL GRATED INLETS SHALL BE STENCILED WITH "DUMP NO WASTE – DRAINS TO STREAM" STENCIL.

R:\Standard Details\Storm\SD5-2.DWG

| The City of Sumner Public Works Department | |
|---|---|
| CATCH BASIN TYPE I (GUTTER DRAIN) | |
| DATE: 7/24/07 N.T.S. | STANDARD DETAIL |
| LAST REVISION: 6/30/10 | STORM |
| SHEET 1 of 1 | FILE NO. SD5-2 |

A CATCH BASIN TYPE I (GUTTER PAN)
nts



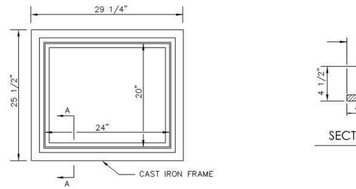

NOTES:

1. THE CONSTRUCTION AND INSTALLATION OF STORM SEWER MANHOLES SHALL CONFORM TO THE REQUIREMENTS OF WSDOT SPEC. SECTION 7-05 AND ASTM C 478.
2. THE FACE OF NEAT LINE CUTS IN EXISTING ASPHALT PAVEMENTT SHALL BE TACK COATED AND THE TOP OF THE JOINT SHALL BE SEALED WITH A HOT PAVING GRADE ASPHALT.
3. THERE SHALL BE NO PIPE JOINTS WITHIN 10' OF STRUCTURE.
4. THE MANHOLE COVER SHALL BE MARKED WITH "STORM" OR "DRAIN" WITH 2 INCH RAISED LETTERS. MANHOLE RING AND COVER SHALL CONFORM TO CITY STANDARD DETAIL SS4-2.1.
5. MANHOLE STEP AND LADDER SHALL CONFORM TO CITY STANDARD DETAIL SS4-3.
6. GROUT SHALL BE PORTLAND CEMENT AND SAND PER WSDOT 9-04.3. NO CALCIUM ALLOWED. NO JET-SET ALLOWED.
7. SAND COLLAR SHALL BE USED WITH PVC STORM PIPE.
8. GROUT SHALL BE PLACED BETWEEN EACH ADJUSTMENT RING AND AT THE TOP OF THE STRUCTURE WITH 100% COVERAGE. ADDITIONAL GROUT SHALL BE PLACED ON THE INTERIOR JOINTS OF THE ADJUSTMENT SECTIONS AND RINGS.

R:\Standard Details\Storm\SD5-1.DWG

| CITY OF SUMNER WASHINGTON | The City of Sumner Public Works Department |
|---|---|
| | CATCH BASIN TYPE II |
| ADOPTED DATE: 12/16/03 | STANDARD DETAIL |
| LAST REVISION: 08/21/15 | STORM |
| DRAWN BY: S.H. N.T.S. | FILE NO. SD5-1 |

B CATCH BASIN TYPE II
nts

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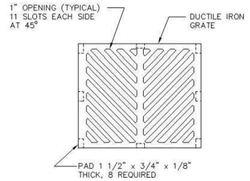



GRATE

NOTES:

1. MATERIAL SHALL CONFORM TO SECTION 9-05.15 "METAL CASTINGS" OF THE "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION" PUBLISHED BY THE STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER.
2. ALL GRATED INLETS SHALL BE STENCILED WITH "DUMP NO WASTE – DRAINS TO STREAM" STENCIL SEE STANDARD DETAIL SD5-2.

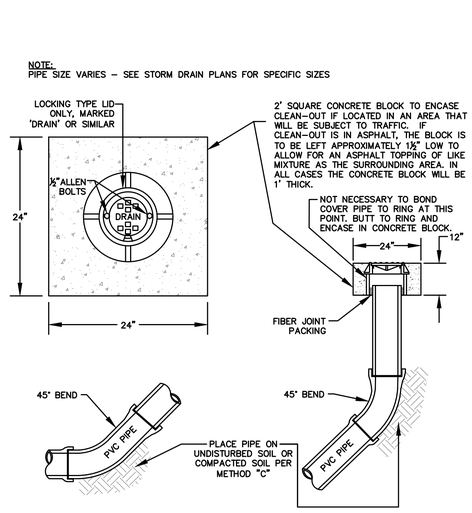
R:\Standard Details\Storm\SD5-4.DWG

| The City of Sumner Public Works Department | |
|---|---|
| CATCH BASIN FRAME AND GRATE | |
| DATE: 7/24/07 N.T.S. | STANDARD DETAIL |
| LAST REVISION: 7/2/10 | STORM |
| SHEET 1 of 1 | FILE NO. SD5-4 |

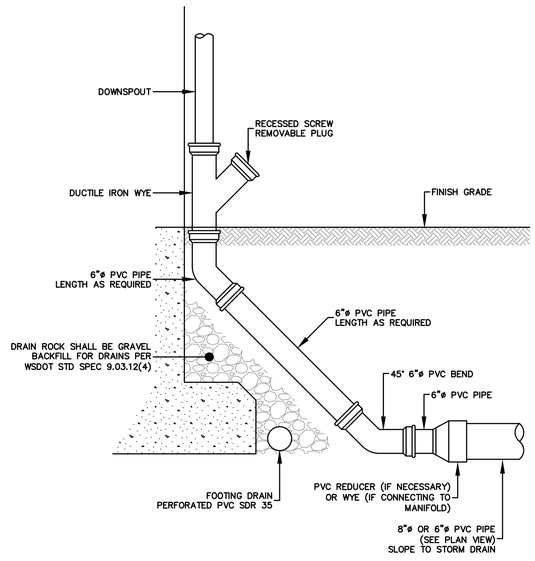
C CATCH BASIN FRAME AND GRATE
nts

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN CONFORMANCE WITH THE CITY OF SUMNER DEVELOPMENT SPECIFICATIONS AND STANDARD DETAILS, THE MOST CURRENT COPY OF THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, THE ECOLOGY MANUAL, AND THE 2009 KING COUNTY SURFACE WATER DESIGN MANUAL.
2. ALL MANHOLES AND CATCH BASINS SHALL BE COVERED WITH TEMPORARY COVERS TO PREVENT DIRT AND DEBRIS FROM BEING PUSHED INTO THEM DURING CONSTRUCTION.
3. PROVISIONS SHALL BE MADE TO AVOID THE TRACKING OF SEDIMENT BY CONSTRUCTION VEHICLES ONTO PAVED PUBLIC ROADS. IF SEDIMENT IS DEPOSITED, IT IS TO BE CLEANED EVERY DAY BY SWEEPING.
4. CITY INSPECTION SHALL BE REQUIRED AT THE FOLLOWING STAGES OF CONSTRUCTION:
   - COMPLETION OF FLOW ATTENUATION OR WATER QUALITY STRUCTURES.
   - UPON COMPLETION OF EXCAVATION OF THE DETENTION FACILITIES SUBFOUNDATION AND INSTALLATION OF STRUCTURAL SUPPORTS OR REINFORCEMENT, AS REQUIRED BY THE APPROVED PLANS.
   - DURING PLACEMENT OF STRUCTURAL FILL OR CONCRETE.
   - DURING PIPING AND CATCH BASIN INSTALLATION.
   - DURING BACKFILL OF FOUNDATIONS OR TRENCHES.
   - DURING CONSTRUCTION OF EMBANKMENTS.
   - UPON COMPLETION OF FINAL GRADING AND PERMANENT STABILIZATION.
5. ALL APPROVALS AND PERMITS REQUIRED BY THE CITY OF SUMNER SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
6. STORMWATER PIPE BEDDING AND BACKFILL MATERIALS AND PRACTICES SHALL BE IN ACCORDANCE WITH THE CITY OF SUMNER DEVELOPMENT SPECIFICATIONS AND STANDARD DETAILS.
7. ALL STORMWATER IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE APPROVED PLANS. ANY DEVIATION FROM THESE PLANS SHALL REQUIRE APPROVAL FROM THE OWNER, ENGINEER OF RECORD, AND THE CITY.
8. NATIVE MATERIAL SHALL NOT BE ALLOWED FOR BACKFILL UNLESS IT CONFORMS TO THE CITY OF SUMNER BACKFILL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LABORATORY ANALYSIS AND ASSOCIATED COSTS REQUIRED TO VERIFY CONFORMANCE.
9. THE CONTRACTOR SHALL ADJUST ALL CATCH BASIN RIMS FLUSH WITH FINAL GRADE.
10. THE CONTRACTOR SHALL PROVIDE A MINIMUM 3-FOOT-HORIZONTAL AND 0.5-FOOT-VERTICAL SEPARATION BETWEEN STORM LINES AND ALL OTHER UTILITIES.
11. ALL PIPE AND APPURTENANCES SHALL BE LAID ON A PROPERLY PREPARED FOUNDATION IN ACCORDANCE WITH WSDOT SECTION 7-08. THIS SHALL INCLUDE LEVELING AND COMPACTING THE TRENCH BOTTOM, THE TOP OF THE FOUNDATION MATERIAL, AND ANY REQUIRED PIPE BEDDING TO A UNIFORM GRADE SO THAT THE ENTIRE PIPE IS SUPPORTED BY A UNIFORMLY DENSE, UNYIELDING BASE.
12. ALL DRAINAGE STRUCTURES, SUCH AS CATCH BASINS AND MANHOLES, NOT LOCATED WITHIN A TRAVELED ROADWAY OR SIDEWALK SHALL HAVE SOLID LOCKING LIDS.
13. ALL DRIVEWAY CULVERTS LOCATED WITHIN CITY OF SUMNER RIGHT-OF-WAY SHALL BE OF SUFFICIENT LENGTH TO PROVIDE A MINIMUM 3:1 SLOPE FROM THE EDGE OF THE DRIVEWAY TO THE BOTTOM OF THE DITCH. CULVERTS SHALL HAVE BEVELED END SECTIONS TO MATCH THE SIDE SLOPE, AND SHALL BE INSTALLED WITH A TRASH RACK ON THE UPSTREAM END.
14. ROCK FOR EROSION PROTECTION OF ROADWAY DITCHES, WHERE REQUIRED, MUST BE OF SOUND QUARRY ROCK, PLACED TO A DEPTH OF 1 FOOT.
15. STORM STUB-OUTS SHALL BE PROVIDED FOR EACH INDIVIDUAL LOT. STUB-OUTS ON EACH LOT SHALL BE LOCATED WITH A 5-FOOT-HIGH, 2-INCH BY 4-INCH STAKE, MARKED "STORM" OR "DRAIN." THE STUB-OUT SHALL EXTEND ABOVE SURFACE LEVEL, BE VISIBLE, AND BE SECURED TO THE STAKE.

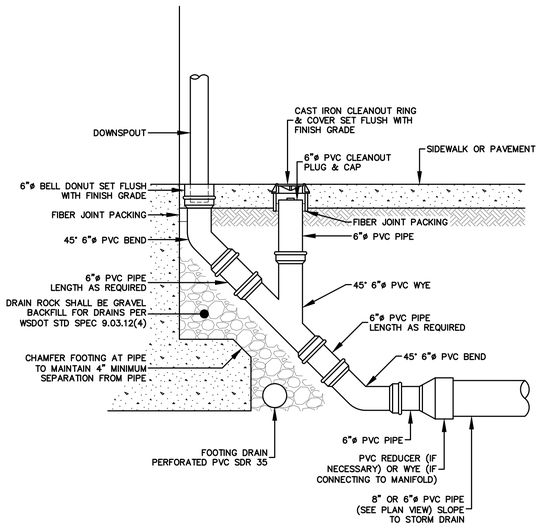
D STORMWATER SITE PLAN NOTES
nts




E TYPICAL STORMWATER CLEANOUT
nts




F DOWNSPOUT CLEANOUT IN LANDSCAPING
nts




G DOWNSPOUT CLEANOUT IN PAVEMENT
nts

RMC ARCHITECTS
RMC Architects, PLLC • 1223 Railroad Avenue • Bellingham, WA 98225
P:360.676.7733 • F:360.738.0448 • rmc@rmcarchitects.com

220 West Cranston Street, Suite 200 | 360.650.1445
Bellingham, WA 98225
FREELAND & ASSOCIATES

HAROLD A. FREELAND III
STATE OF WASHINGTON
REGISTERED
28019
PROFESSIONAL ENGINEER

Archdiocese of Seattle
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Job No: 18126 Date: 02-07-2020
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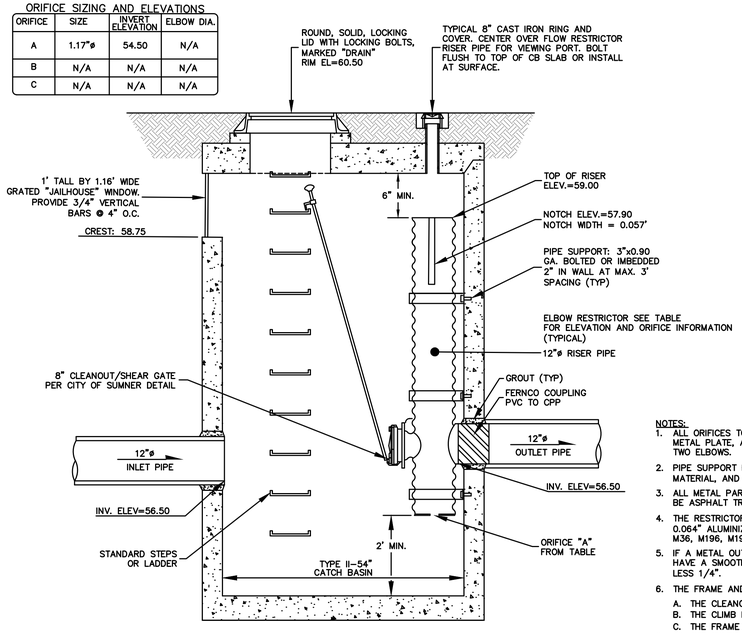
Issued for: PERMIT SET

DRAINAGE DETAILS AND STORMWATER SITE PLAN NOTES

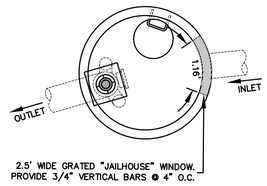
C14

ORIFICE SIZING AND ELEVATIONS

| ORIFICE | SIZE | INVERT ELEVATION | ELBOW DIA. |
|---|---|---|---|
| A | 1.17"ø | 54.50 | N/A |
| B | N/A | N/A | N/A |
| C | N/A | N/A | N/A |



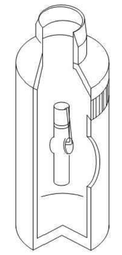

STRUCTURE SECTION VIEW



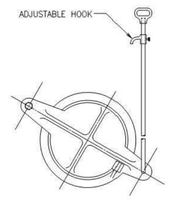

STRUCTURE PLAN VIEW

NOTES:
1. ALL ORIFICES TO BE FABRICATED BY SHOP DRILLING HOLES OF APPROPRIATE DIAMETER IN METAL PLATE, AND WELDING IT INTO PLACE AT THE BOTTOM OF THE MAIN RISER AND THE TWO ELBOWS.
2. PIPE SUPPORT BRACKETS AND THE RESTRICTOR/SEPARATOR SHALL BE OF THE SAME MATERIAL, AND BE ANCHORED AT 3' MAXIMUM SPACING.
3. ALL METAL PARTS SHALL BE CORROSION RESISTANT. ALL GALVANIZED STEEL PARTS SHALL BE ASPHALT TREATMENT 1 COATED.
4. THE RESTRICTOR/SEPARATOR STANDPIPE SHALL BE FABRICATED FROM 0.060" ALUMINUM, 0.064" ALUMINIZED STEEL, OR 0.064" GALVANIZED STEEL, IN ACCORDANCE WITH AASHTO M36, M196, M197 AND M274. GALVANIZED STEEL SHALL BE ASPHALT TREATMENT 1 COATED.
5. IF A METAL OUTLET PIPE CONNECTS TO A CEMENT CONCRETE PIPE, THE OUTLET PIPE SHALL HAVE A SMOOTH OUTSIDE DIAMETER EQUAL TO THE INSIDE DIAMETER OF THE CONCRETE PIPE LESS 1/4".
6. THE FRAME AND LADDER (OR STEPS) SHALL OFFSET SO THAT:
   A. THE CLEANOUT GATE IS VISIBLE FROM THE TOP.
   B. THE CLIMB DOWN CLEAR SPACE OF 2 FEET IS BETWEEN THE RISER AND CLEANOUT GATE.
   C. THE FRAME IS CLEAR OF THE CURB. (IF APPLICABLE)
7. LOCATE ELBOW RESTRICTOR(S) AS NECESSARY TO PROVIDE 2' MINIMUM CLEARANCE BETWEEN ELBOW AND INLET PIPES OR LADDER.
8. LOCATE ADDITIONAL LADDER RUNGS IN STRUCTURES USED AS ACCESS TO TANKS OR VAULTS TO ALLOW ACCESS WHEN CATCH BASIN IS FILLED WITH WATER.

A FLOW CONTROL RESTRICTOR MANHOLE DETAIL
nts



ISOMETRIC
NO SCALE




SHEAR GATE
NO SCALE

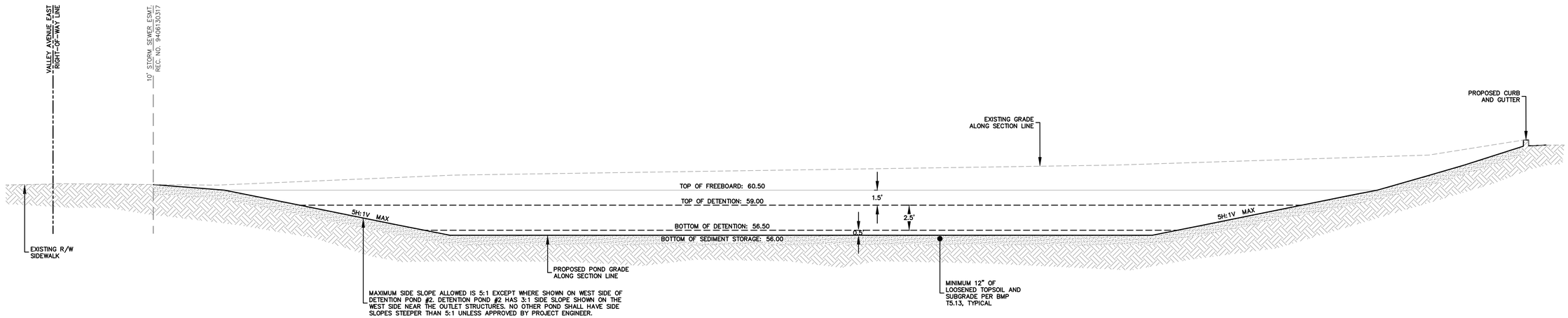
NOTES:
1. USE MIN. 48" DIA. CATCH BASIN TYPE 2. SEE STANDARD DETAIL SD5-1.
2. OUTLET CAPACITY: DEVELOPED DESIGN FLOW.
3. METAL PARTS: CORROSION RESISTANT.
4. FRAME & LADDER OR STEPS OFFSET SO:
   A: CLEANOUT GATE IS VISIBLE FROM TOP.
   B: CLIMB-DOWN SPACE IS CLEAR OF RISER AND CLEANOUT GATE.
   C: FRAME IS CLEAR OF CURB.
5. IF METAL OUTLET PIPE CONNECTS TO CEMENT CONCRETE PIPE: OUTLET PIPE TO HAVE SMOOTH I. D. EQUAL TO CONCRETE PIPE I.D. LESS 1/4".
6. PROVIDE AT LEAST ONE 3" X .090 GAGE SUPPORT BRACKET ANCHORED CONCRETE WALL (MAX. 3'-0" VERTICAL SPACING).
7. ALL METAL PARTS AND SURFACE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR GALVANIZED.
8. THE SHEAR GATE SHALL BE MADE OF ALUMINUM ALLOY IN ACCORDANCE WITH ASTM B 26M AND ASTM B 275, DESIGNATION ZG32A; OR CAST IRON IN ACCORDANCE WITH ASTM A 48, CLASS 30B.
9. GATE SHALL BE 8" DIAMETER UNLESS OTHERWISE SPECIFIED.
10. GATE SHALL BE JOINED TO TEE SECTION BY BOLTING (THROUGH FLANGE), WELDING, OR OTHER SECURE MEANS.
11. LIFT ROD: AS SPECIFIED BY MANUFACTURER WITH HANDLE EXTENDING TO WITHIN ONE FOOT OF COVER AND ADJUSTABLE HOOK LOCK FASTENED TO FRAME OR UPPER HANDHOLD.

* SEE STD. DET. SD5-3.1

R:\Standard Details\Storm\SD5-3.2.DWG

| | The City of Sumner Public Works Department | |
|---|---|---|
| SUMNER | FLOW CONTROL STRUCTURE – DETAILS | |
| | DATE: 12-5-07 N.T.S. | STANDARD DETAIL STORM |
| | LAST REVISION: 1/23/09 | |
| | SHEET 1 of 1 | FILE NO. SD5-3.2 |

B FLOW CONTROL STURCTURE
nts




C TYPICAL STORMWATER POND SECTION
nts

RMC ARCHITECTS
RMC Architects, PLLC • 1223 Railroad Avenue • Bellingham, WA 98225
P:360.676.7733 • F:360.738.0448 • rmc@rmcarchitects.com

FREELAND & ASSOCIATES
220 West Champion Street, Suite 200 | 360.650.1445
Bellingham, WA 98225

HAROLD A. FREELAND III
STATE OF WASHINGTON
28619
REGISTERED PROFESSIONAL ENGINEER

Archdiocese of Seattle
St. Andrew Catholic Church Parish Hall
1401 Valley Avenue East, Sumner, Washington, 98390

Job No: 18126 Date: 02-07-2020
File No: 18126SP9
Drawn By: MID
Checked By: HAF
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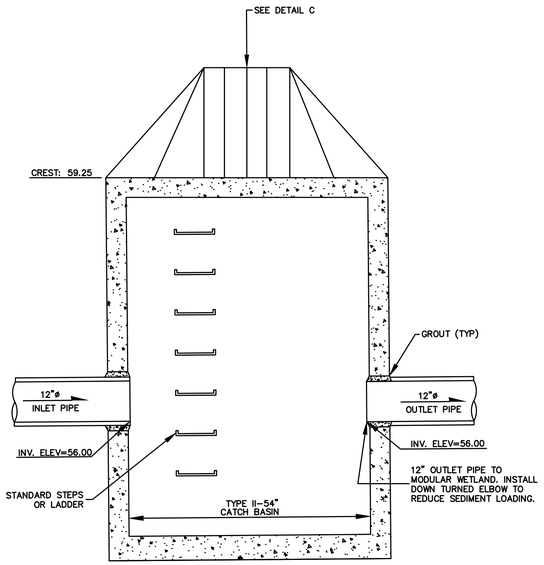
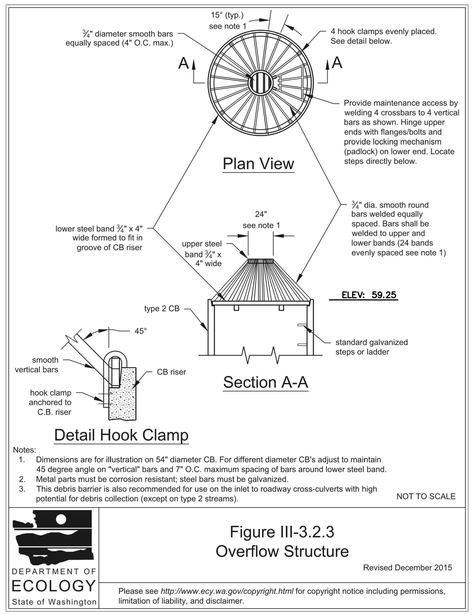
STORMWATER DETENTION POND SECTION AND FLOW CONTROL DETAILS

C15




STRUCTURE SECTION VIEW

## A EMERGENCY OVERFLOW STRUCTURE
nts




Notes:
1. Dimensions are for illustration on 54" diameter CB. For different diameter CB's adjust to maintain 45 degree angle on "vertical" bars and 7" O.C. maximum spacing of bars around lower steel band.
2. Metal parts must be corrosion resistant; steel bars must be galvanized.
3. This debris barrier is also recommended for use on the inlet to roadway cross-culverts with high potential for debris collection (except on type 2 streams).

NOT TO SCALE

DEPARTMENT OF ECOLOGY
State of Washington

Figure III-3.2.3
Overflow Structure

Revised December 2015

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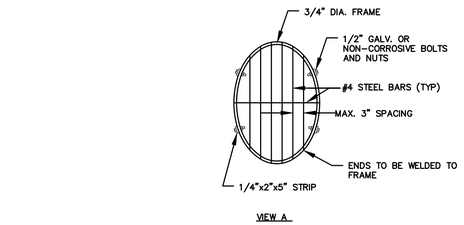
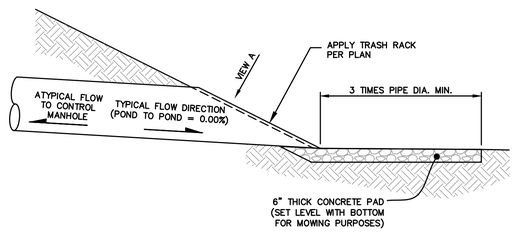
## B PERMANENT EMERGENCY OVERFLOW
nts

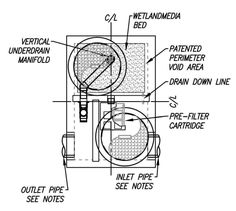



VIEW A

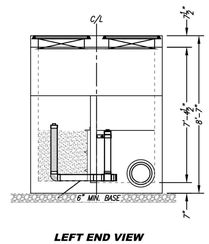



## C POND OUTLET DETAIL
nts

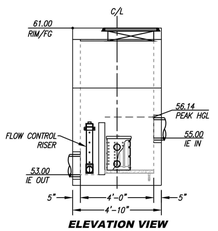
| SITE SPECIFIC DATA | | | |
|---|---|---|---|
| PROJECT NUMBER | | 10365 | |
| PROJECT NAME | | ST. ANDREWS PARISH HALL | |
| PROJECT LOCATION | | SEMNER, WA | |
| TREATMENT REQUIRED | | | |
| VOLUME BASED (CF) | | 2-YEAR RELEASE RATE (CFS) | |
| | | 0.0557 | |
| PEAK BYPASS REQUIRED (CFS) - IF APPLICABLE | | | 1.657 |
| PIPE DATA | I.E. | MATERIAL | DIAMETER |
| INLET PIPE | 55.00 | TBD | 12" |
| OUTLET PIPE | 53.00 | TBD | 12" |
| | PRETREATMENT | BIOFILTRATION | DISCHARGE |
| RIM ELEVATION | 61.00 | 61.00 | 61.00 |
| SURFACE LOAD | PEDESTRIAN | PEDESTRIAN | PEDESTRIAN |
| FRAME & COVER | ø30" | ø30" | N/A |
| WETLANDMEDIA VOLUME (CY) | | | 1.00 |
| ORIFICE SIZE (DIA. INCHES) | | | 5 EA ø0.60" |
| NOTES: PRELIMINARY NOT FOR CONSTRUCTION. | | | |



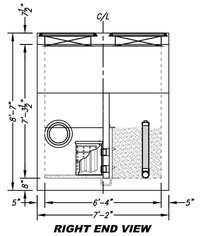

PLAN VIEW




LEFT END VIEW




ELEVATION VIEW




RIGHT END VIEW

INSTALLATION NOTES

1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURERS SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURERS CONTRACT.
2. UNIT MUST BE INSTALLED ON LEVEL BASE. MANUFACTURER RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE TO VERIFY PROJECT ENGINEERS RECOMMENDED BASE SPECIFICATIONS.
4. CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE. (PIPES CANNOT INTRUDE BEYOND FLUSH). INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR. ALL PIPES SHALL BE SEALED WATER TIGHT PER MANUFACTURERS STANDARD CONNECTION DETAIL.
5. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL RISERS, MANHOLES, AND HATCHES. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.
6. VEGETATION SUPPLIED AND INSTALLED BY OTHERS. ALL UNITS WITH VEGETATION MUST HAVE DRIP OR SPRAY IRRIGATION SUPPLIED AND INSTALLED BY OTHERS.
7. CONTRACTOR RESPONSIBLE FOR CONTACTING BIO CLEAN FOR ACTIVATION OF UNIT. MANUFACTURERS WARRANTY IS VOID WITH OUT PROPER ACTIVATION BY A BIO CLEAN REPRESENTATIVE.

GENERAL NOTES

1. MANUFACTURER TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS AND ACCESSORIES PLEASE CONTACT BIO CLEAN.

INTERNAL BYPASS DISCLOSURE:

*THE DESIGN AND CAPACITY OF THE PEAK CONVEYANCE METHOD TO BE REVIEWED AND APPROVED BY THE ENGINEER OF RECORD. HGL(S) AT PEAK FLOW SHALL BE ASSESSED TO ENSURE NO UPSTREAM FLOODING. PEAK HGL AND BYPASS CAPACITY SHOWN ON DRAWING ARE USED FOR GUIDANCE ONLY.*

| | |
|---|---|
| 2-YEAR RELEASE RATE (CFS) | 0.0557 |
| OPERATING HEAD (FT) | 2.7 |
| PRETREATMENT LOADING RATE (GPM/SF) | 2.0 |
| WETLAND MEDIA LOADING RATE (GPM/SF) | 1.0 |

THE PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS: 5,452,955; 5,470,162; 5,624,576; 8,702,963; RELATED FOREIGN PATENTS OR PATENT PENDING.

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Bio Clean
A Forterra Company

MWS-L-4-6.33-7'-4"-V-UG
STORMWATER BIOFILTRATION SYSTEM
STANDARD DETAIL

## D MODULAR WETLAND SYSTEM
nts

RMC ARCHITECTS
RMC Architects, PLLC • 1223 Railroad Avenue • Bellingham, WA 98225
P: 360.676.7733 • F: 360.738.0448 • rmc@rmcarchitects.com

220 West Cramton Street, Suite 200 | 360.650.1445
Bellingham, WA 98225
FREELAND & ASSOCIATES

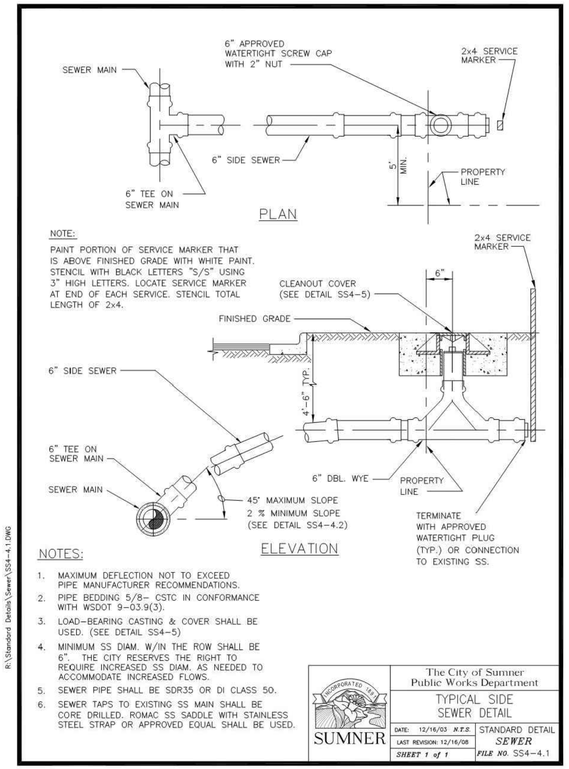
HAROLD A. FREELAND III
STATE OF WASHINGTON
28619
REGISTERED PROFESSIONAL ENGINEER

Archdiocese of Seattle
St. Andrew Catholic Church
1401 Valley Avenue East, Sumner, Washington, 98390

Job No: 18126 Date: 02-07-2020
File No: 18126SP9
Drawn By: MID
Checked By: HAF
Issued for: PERMIT SET

STORMWATER DETENTION POND AND TREATMENT DETAILS

C16




NOTES:

1. MAXIMUM DEFLECTION NOT TO EXCEED PIPE MANUFACTURER RECOMMENDATIONS.
2. PIPE BEDDING 5/8– CSTC IN CONFORMANCE WITH WSDOT 9–03.9(3).
3. LOAD–BEARING CASTING & COVER SHALL BE USED. (SEE DETAIL SS4–5)
4. MINIMUM SS DIAM. W/IN THE ROW SHALL BE 6". THE CITY RESERVES THE RIGHT TO REQUIRE INCREASED SS DIAM. AS NEEDED TO ACCOMMODATE INCREASED FLOWS.
5. SEWER PIPE SHALL BE SDR35 OR DI CLASS 50.
6. SEWER TAPS TO EXISTING SS MAIN SHALL BE CORE DRILLED, ROMAC SS SADDLE WITH STAINLESS STEEL STRAP OR APPROVED EQUAL SHALL BE USED.

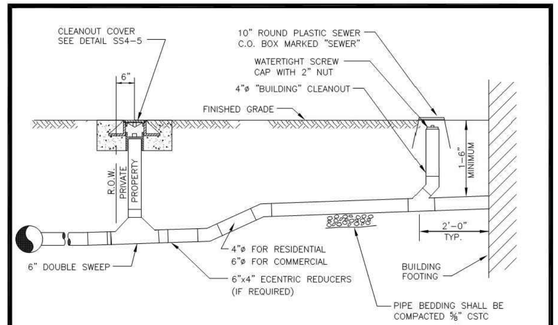
R:\Standard Details\Sewer\SS4-4.1.DWG

The City of Sumner Public Works Department

TYPICAL SIDE SEWER DETAIL

DATE: 12/16/03 N.T.S. | STANDARD DETAIL
LAST REVISION: 12/16/08 | SEWER
SHEET 1 of 1 | FILE NO. SS4–4.1

A TYPICAL SIDE SEWER DETAIL
nts




NOTES:

1. ELBOWS SHALL NOT BE GREATER THAN 45°
2. A CLEAN OUT IS REQUIRED FOR PIPE RUNS GREATER THAN 100' AND FOR EACH 90° ACCUMULATED BEND/100' OF LENGTH
3. RIGHT–OF–WAY RESTORATION SHALL MATCH OR EXCEED ORIGINAL CONDITIONS.
4. TRENCH BACKFILL BENEATH PAVED SURFACE SHALL BE 5/8" MINUS CRUSHED SURFACING TOP COURSE, COMPACTED IN 12" LIFTS
5. ALL PLUMBING OUTLETS SHALL BE CONNECTED TO THE SEWER. NO DOWNSPOUTS OR STORM DRAINAGE SHALL BE CONNECTED TO THE SANITARY SYSTEM.
6. 4'–6" TYPICAL PIPE COVER AT PROPERTY LINE.
7. LAY PIPE IN STRAIGHT LINE BETWEEN BENDS. MAKE ALL CHANGES IN GRADE OR LINE WITH AN ELBOW OR WYE.
8. 6" SEWER PIPE MINIMUM SIZE IN RIGHT–OF–WAY. LAY AT 2% MINIMUM GRADE, 45% MAXIMUM GRADE.
9. 4" SEWER PIPE MINIMUM SIZE ON PRIVATE RESIDENTIAL PROPERTY. 2% SLOPE MINIMUM. 6" SEWER PIPE MINIMUM SIZE ON COMMERCIAL PROPERTIES. 1% MINIMUM SLOPE, 45° MAXIMUM. THE CITY RESERVES THE RIGHT TO REQUIRE INCREASED SS DIAM. AS NEEDED TO ACCOMMODATE INCREASED FLOWS.
10. CONSTRUCTION IN RIGHT–OF–WAY SHALL BE PERFORMED BY A REGISTERED LICENSED CONTRACTOR. ACQUIRE CITY PERMIT.
11. ALL CONSTRUCTION REQUIRES A PERMIT AND PAYMENT OF FEE.
12. AS–BUILT DRAWING SHOWING LOCATION OF SIDE SEWER IN RELATION TO THE HOUSE AND EXISTING UTILITIES IS REQUIRED AFTER INSTALLATION.
13. SEWER PIPE SHALL BE PVC SDR 35 OR D.I. CL 50.

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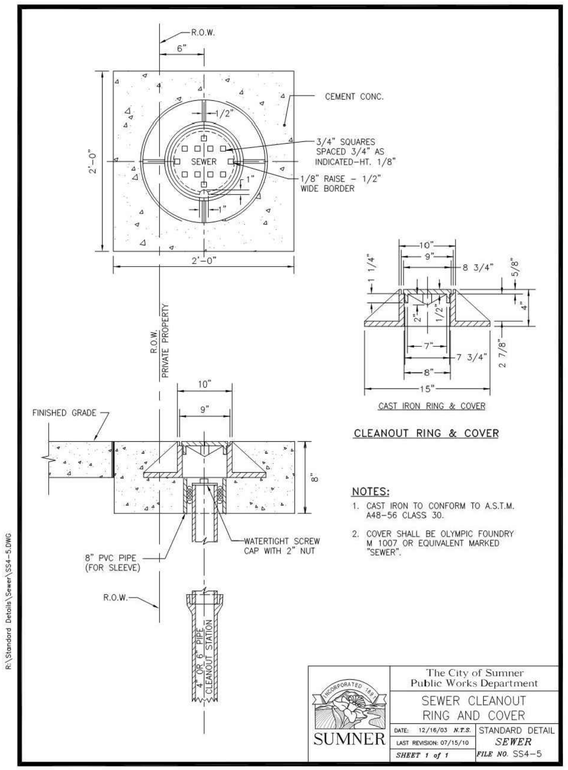
The City of Sumner Public Works Department

PRIVATE SIDE SEWER INSTALLATION

DATE: 12/16/03 N.T.S. | STANDARD DETAIL
LAST REVISION: 07/15/10 | SEWER
SHEET 1 of 1 | FILE NO. SS4–4.2

B PRIVATE SIDE SEWER INSTALLATION
nts




NOTES:

1. CAST IRON TO CONFORM TO A.S.T.M. A48–56 CLASS 30.
2. COVER SHALL BE OLYMPIC FOUNDRY M 1007 OR EQUIVALENT MARKED "SEWER".

R:\Standard Details\Sewer\SS4-5.DWG

The City of Sumner Public Works Department

SEWER CLEANOUT AND RING COVER

DATE: 12/16/03 N.T.S. | STANDARD DETAIL
LAST REVISION: 07/15/10 | SEWER
SHEET 1 of 1 | FILE NO. SS4–5

C SEWER CLEANOUT AND RING COVER
nts

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF SUMNER DEVELOPMENT SPECIFICATIONS AND STANDARD DETAILS AND THE MOST CURRENT COPY OF THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
2. ALL APPROVALS AND PERMITS REQUIRED BY THE CITY OF SUMNER SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
3. THE CITY OF SUMNER PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE OF A TAP CONNECTION TO AN EXISTING MAIN. A PUBLIC WORKS DEPARTMENT REPRESENTATIVE SHALL BE PRESENT AT THE TIME OF THE TAP.
4. ALL PLASTIC PIPE AND SERVICES SHALL BE INSTALLED WITH CONTINUOUS TRACER TAPE INSTALLED 12 TO 18 INCHES UNDER THE PROPOSED FINISHED SUBGRADE. THE MARKER SHALL BE PLASTIC NONBIODEGRADABLE, METAL CORE, OR BACKING MARKED "SEWER," WHICH CAN BE DETECTED BY A STANDARD METAL DETECTOR. IN ADDITION, STEP SYSTEMS, GRINDER SYSTEMS, GRAVITY SERVICE LATERALS, AND FORCE MAINS SHALL BE INSTALLED WITH 12–GAUGE DIRECT–BURY RATED COPPER WIRE WRAPPED AROUND ALL PLASTIC PIPE AND BROUGHT UP AND TIED OFF AT THE VALVE BODY. TAPE SHALL BE TERRA TAPE "D" OR APPROVED EQUAL. THE TAPE AND WIRE SHALL BE FURNISHED BY THE CONTRACTOR.
5. BEDDING OF THE SEWER MAIN AND COMPACTION OF THE BACKFILL MATERIAL SHALL BE REQUIRED IN ACCORDANCE WITH SECTIONS 4.4.1.6 AND 4.4.1.7 OF THE CITY OF SUMNER DEVELOPMENT SPECIFICATIONS AND STANDARD DETAILS.
6. NATIVE MATERIAL SHALL NOT BE USED FOR BACKFILL MATERIAL UNLESS IT CONFORMS TO THE CITY OF SUMNER TRENCH BACKFILL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LABORATORY ANALYSES AND ASSOCIATED COSTS REQUIRED TO VERIFY CONFORMANCE.
7. TEMPORARY STREET PATCHING SHALL BE ALLOWED FOR AS APPROVED BY THE CITY ENGINEER. TEMPORARY STREET PATCHING SHALL BE PROVIDED BY PLACEMENT AND COMPACTION OF 2 INCHES MINIMUM ASPHALT CONCRETE COLD MIX. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AS REQUIRED.
8. ALL STEP MAINS SHALL BE HYDROSTATICALLY TESTED IN CONFORMANCE WITH THE CITY OF SUMNER DEVELOPMENT SPECIFICATIONS AND STANDARD DETAILS. IN ADDITION, ALL STEP MAINS SHALL BE PIGGED/CLEANED IN THE PRESENCE OF A PUBLIC WORKS DEPARTMENT REPRESENTATIVE PRIOR TO PLACING STEP MAIN IN SERVICE.
9. PRIOR TO BACKFILL, ALL MAINS AND APPURTENANCES SHALL BE INSPECTED AND APPROVED BY THE CITY OF SUMNER. APPROVAL SHALL NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY FOR CORRECTING ANY DEFICIENCIES AND/OR FAILURES AS DETERMINED BY SUBSEQUENT TESTING AND INSPECTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CITY OF SUMNER OF THE REQUIRED INSPECTIONS.
10. INSPECTIONS FOR ON–SITE STEP INSTALLATIONS ARE REQUIRED. A 48–HOUR NOTICE TO THE PUBLIC WORKS DEPARTMENT IS REQUIRED PRIOR TO THE INSPECTION.
11. GRAVITY SEWER PIPE MAINS AND LATERALS SHALL BE PVC OR DUCTILE IRON IN ACCORDANCE WITH THE CITY OF SUMNER DEVELOPMENT SPECIFICATIONS AND STANDARD DETAILS.
12. SIDE SEWERS SHALL BE TESTED FOR ACCEPTANCE AT THE SAME TIME THE MAIN SEWER IS TESTED.
13. SEWER MAIN CONNECTION TO THE EXISTING CITY SYSTEM SHALL BE PROHIBITED UNTIL THE EXTENSION HAS BEEN CLEANED TO THE SATISFACTION OF THE SUMNER PUBLIC WORKS DEPARTMENT.
14. NEW CONNECTIONS TO EXISTING MANHOLES OR SEWER LINES SHALL BE SEALED OFF UNTIL UPSTREAM CONSTRUCTION IS SATISFACTORILY TESTED AND ACCEPTED BY THE CITY PUBLIC WORKS DEPARTMENT.
15. CONTRACTOR SHALL ADJUST MANHOLE RIMS TO FLUSH WITH THE FINAL FINISH GRADE. ALL MANHOLE RINGS AND COVERS SHALL BE PER THE CITY OF SUMNER STANDARD DETAILS.
16. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 10–FOOT–HORIZONTAL AND 1.5–FOOT–VERTICAL SEPARATION BETWEEN ALL WATER AND SEWER LINES. ANY CONFLICTS SHALL BE REPORTED TO THE CITY ENGINEER PRIOR TO CONSTRUCTION.
17. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (1–800–424–5555) AT LEAST 48 HOURS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER OF RECORD SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
18. WHEN REPLACING AN EXISTING SEWER MAIN, THE FOLLOWING SHALL ALSO BE REPLACED TO CURRENT CITY STANDARDS:

A) MANHOLES AND FRAMES AND COVERS, AND
B) SIDE SEWERS FROM THE NEW MAIN TO THE RIGHT–OF–WAY LINE.

D SEWER NOTES
nts

1. LOCATE STRUCTURE ADJACENT TO DRIVE FOR ACCESS BY MAINTENANCE VEHICLE.
2. FILL WITH CLEAN WATER PRIOR TO START UP OF SYSTEM.
3. INTERCEPTOR AND APPURTENANCES TO CLEANOUT SHALL BE MAINTAINED BY PRIVATE OWNER AND AN ANNUAL MAINTENANCE REPORT SHALL BE SUBMITTED TO THE CITY OF SUMNER PUBLIC WORKS DEPARTMENT.
4. CONNECTIONS TO VAULT WALLS WITH PVC PIPE SHALL BE MADE USING KOR–N–SEAL BOOT OR EQUAL. SEAL ALL PIPE CONNECTIONS WITH NON–SHRINK GROUT.
5. 6" PVC SHALL BE USED THROUGHOUT. TOP OF "TEES" TO BE KEPT OPEN.
6. A BALLCENTRIC VALVE SHALL BE LOCATED IN THE DISCHARGE PIPING. A MAXIMUM OF 3 FEET FROM THE GREASE INTERCEPTOR UPSTREAM OF THE CLEANOUT. THIS VALVE SHALL BE CLOSED WHEN CLEANING OR SERVICING THE DEVICE.
7. GRAY WATER ONLY. BLACK WATER SHALL BE CARRIED BY SEPARATE SIDE SEWER.
8. A CLEAN–OUT SHALL BE INSTALLED DOWNSTREAM OF BALLCENTRIC VALVE.
9. THE PLANS SHALL ILLUSTRATE PROPERTY BOUNDARIES, PIPING/DRAINAGE DETAILS AND CONNECTIONS TO THE SANITARY SEWER. DETAIL AND ELEVATION DRAWINGS OF THE GREASE INTERCEPTOR SHALL INCLUDE UPC APPENDIX 'H' DESIGN CALCULATIONS TO SHOW CAPACITY, DETENTION TIME AND REMOVAL EFFICIENCIES.
   NUMBER OF MEALS/PEAK HOUR X WASTE FLOW RATE X RETENTION TIME X STORAGE FACTOR = CAPACITY IN GALLONS.
10. EFFLUENT FROM GREASE INTERCEPTORS SHALL NOT EXCEED 100 MG/L FAT, OIL, AND GREASE DISCHARGED TO THE SANITARY SEWER.
11. GREASE INTERCEPTORS INSTALLED IN PAVED AREAS SHALL COMPLY WITH H–20 LOADING.
12. PLUMBING/PIPE SHALL BE CONSTRUCTED TO ESTABLISH "PARALLEL FLOW" (90 TO THE TANK BAFFLE) THROUGH THE GREASE INTERCEPTOR. NO RADIUS, BEND OR ELBOW SHALL BE ALLOWED IN THE INLET PIPE, FOR A MINIMUM OF 10 FEET OR 20 PIPE DIAMETERS, WHICHEVER IS GREATER, UPSTREAM OF THE INTERCEPTOR.
13. OPTIONAL VENTING OF THE INTERCEPTOR SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE UNIFORM PLUMBING CODE.
14. FINAL INSPECTION IS REQUIRED BY THE CITY ENGINEER OR HIS REPRESENTATIVE PRIOR TO CONNECTION TO THE SANITARY SEWER.
15. CONCRETE: 28 DAY COMPRESSIVE STRENGTH fc = 4500 psi
16. REBAR: ASTM A–615 GRADE 60
17. MESH: ASTM A–185 GRADE 65
18. DESIGN: ACI–318–83 BUILDING CODE ASTM C–857 "MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES"

E EXTERIOR GREASE INTERCEPTOR NOTES
nts

RMC ARCHITECTS
RMC Architects, PLLC • 1223 Railroad Avenue• Bellingham, WA 98225
P:360.676.7733 • F:360.738.0448 • rmc@rmcarchitects.com

FREELAND & ASSOCIATES
220 West Champion Street, Suite 200 | 360.650.1445
Bellingham, WA 98225

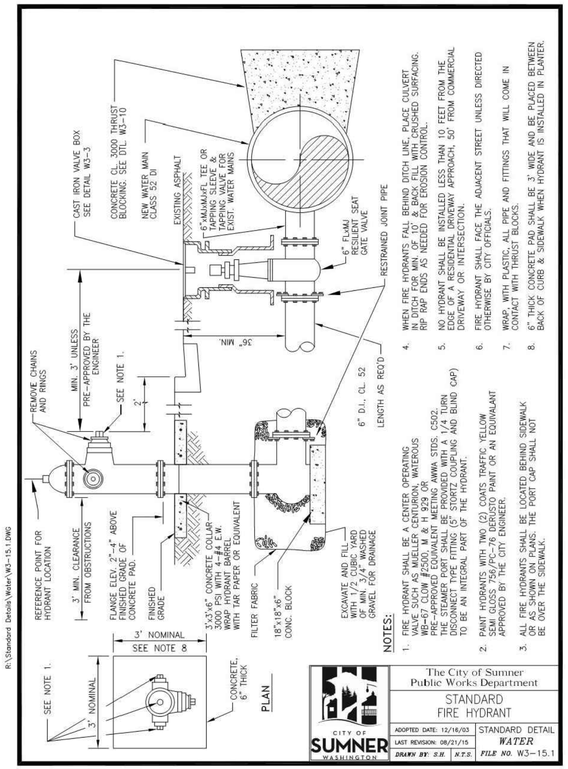
HAROLD A. FREELAND III
STATE OF WASHINGTON
28619
REGISTERED PROFESSIONAL ENGINEER

Archdiocese of Seattle
St. Andrew Catholic Church Parish Hall
1401 Valley Avenue East, Sumner, Washington, 98390

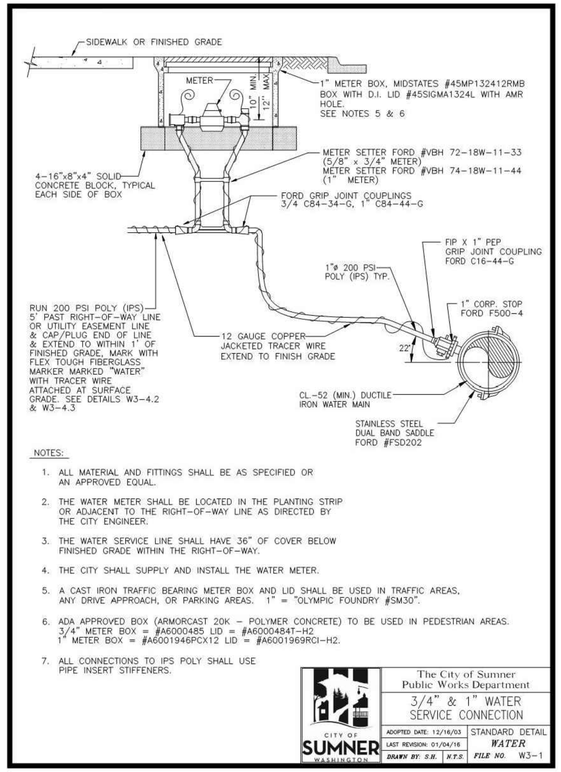
Job No: 18126 Date: 02-07-2020
File No: 18126SP9
Drawn By: MID
Checked By: HAF
Issued for: PERMIT SET

SANITARY SEWER DETAILS AND SEWER SYSTEM NOTES

C17




A STANDARD FIRE HYDRANT
nts




B 1" WATER SERVICE CONNECTION
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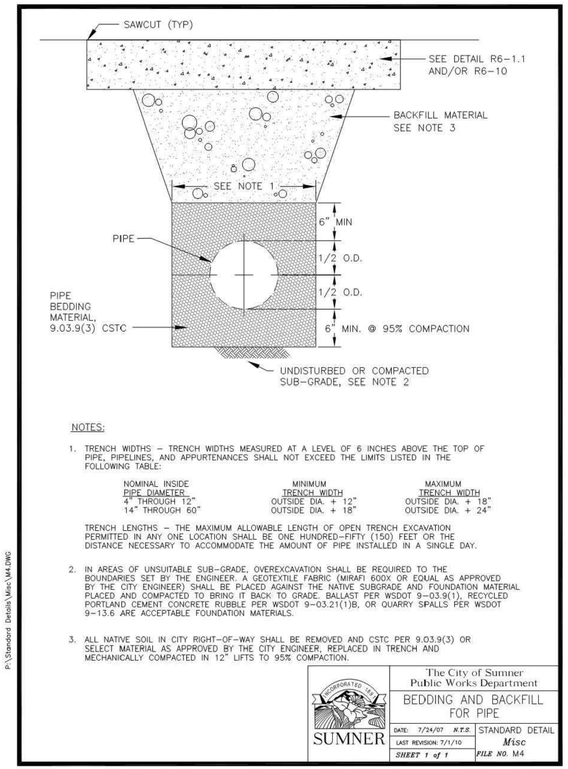


C BEDDING AND BACKFILL FOR PIPE
nts

1. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY OF SUMNER DEVELOPMENT SPECIFICATIONS AND STANDARD DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
2. THE CITY SHALL COLLECT BIOLOGICAL TEST SAMPLES FOLLOWING SATISFACTORY SYSTEM FLUSHING, HYDROSTATIC TESTING, AND DISINFECTION.
3. WATER MAIN PIPE SHALL BE DUCTILE IRON. DUCTILE IRON PIPE SHALL CONFORM TO AWWA C151. DUCTILE IRON PIPE SHALL HAVE CEMENT MORTAR LINING CONFORMING TO AWWA C104. DUCTILE IRON PIPE SHALL CONFORM TO AWWA C150 SPECIAL THICKNESS CLASS 52.
4. PIPE JOINTS FOR DUCTILE IRON PIPE SHALL BE MECHANICAL OR PUSH-ON JOINTS WITH RUBBER GASKETS CONFORMING TO AWWA C111. RUBBER GASKETS FOR DUCTILE IRON PIPE JOINTS SHALL CONFORM TO AWWA C111.
5. FITTINGS FOR DUCTILE IRON PIPE SHALL BE GASKETED AND CONFORM TO AWWA C110 OR AWWA C153. DUCTILE IRON PIPE FITTINGS SHALL HAVE CEMENT MORTAR LINING CONFORMING TO AWWA C104.
6. ALL WATER MAINS AND APPURTENANCES SHALL BE HYDROSTATICALLY TESTED AT MINIMUM 225 PSI IN ACCORDANCE WITH THE METHODS OUTLINED IN WSDOT SECTION 7-09.3(23).
7. WATER METERS UP TO AND INCLUDING 2-INCH DIAMETER WILL BE PROVIDED BY THE CITY PUBLIC WORKS DEPARTMENT FOLLOWING SATISFACTORY COMPLETION OF HYDROSTATIC AND BACTERIOLOGICAL TESTING.
8. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF SUMNER DEVELOPMENT SPECIFICATIONS AND STANDARD DETAILS, AWWA STANDARDS, WSDOT STANDARD SPECIFICATIONS, AND THE APPROVED PLANS. ANY DEVIATION FROM THE PLANS WILL REQUIRE APPROVAL FROM THE OWNER, ENGINEER OF RECORD, AND APPROPRIATE PUBLIC AGENCIES.
9. ALL NEW CONNECTIONS TO THE EXISTING WATER SYSTEM SHALL BE IN STRICT CONFORMANCE WITH THE APPROPRIATE SUBSECTIONS OF SECTION 7-09 OF THE WSDOT SPECIFICATIONS. NO CONNECTION SHALL BE MADE BETWEEN THE NEW MAIN AND THE EXISTING MAINS UNTIL THE NEW PIPING HAS BEEN SATISFACTORILY PRESSURE TESTED, CLEANED, FLUSHED, DISINFECTED, AND PURITY TESTED. TEMPORARY PLUGS OR CAPS AND BLOCKING SHALL BE INSTALLED AT THE POINTS OF CONNECTION TO THE EXISTING SYSTEM. THE CONTRACTOR SHALL CONTACT THE CITY OF SUMNER PUBLIC WORKS DEPARTMENT AT LEAST TWO (2) WORKING DAYS PRIOR TO THE PROPOSED CONNECTION OF THE EXISTING MAIN. THE PUBLIC WORKS DEPARTMENT WILL ARRANGE FOR SHUTDOWNS. THE CONTRACTOR SHALL EXPOSE THE EXISTING MAIN AND PROVIDE ALL NECESSARY FITTINGS FOR THE CONNECTIONS. A REPRESENTATIVE OF THE PUBLIC WORKS DEPARTMENT SHALL BE PRESENT WHEN THE ACTUAL CONNECTION IS MADE.
10. PRESSURE AND PURITY TESTING SHALL BE DONE IN THE PRESENCE OF AND UNDER THE SUPERVISION OF THE CITY OF SUMNER PUBLIC WORKS DEPARTMENT. THE CONTRACTOR SHALL PROVIDE PLUGS AND/OR TEMPORARY BLOW-OFF ASSEMBLIES FOR TESTING, FLUSHING, AND PURITY SAMPLING. ALL WATER MAINS SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH AWWA STANDARD C651 AND THE CITY OF SUMNER DEVELOPMENT SPECIFICATIONS AND STANDARD DETAILS.
11. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE ENGINEER OF RECORD AND THE PUBLIC WORKS DEPARTMENT PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
12. ANY STRUCTURE AND/OR OBSTRUCTION THAT REQUIRE REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
13. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (1-800-424-5555) AT LEAST 48 HOURS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER OF RECORD SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
14. ALL MATERIALS USED FOR CONSTRUCTION SHALL BE NEW AND UNDAMAGED AND SHALL BE INSPECTED AND APPROVED BY THE CITY OF SUMNER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL PROVIDE THE CITY OF SUMNER WITH A CERTIFICATE OF MATERIALS FROM THE SUPPLIER IF REQUESTED. ALL PIPES, FITTINGS, VALVES, HYDRANTS, JOINTS, AND RELATED APPURTENANCES SHALL CONFORM TO THE LATEST STANDARDS ISSUED BY THE CITY OF SUMNER, WSDOT, APWA, AND AWWA.

C WATER SYSTEM NOTES
nts

RMC ARCHITECTS
RMC Architects, PLLC • 1223 Railroad Avenue • Bellingham, WA 98225
P: 360.676.7733 • F: 360.738.0448 • rmc@rmcarchitects.com
220 West Champion Street, Suite 201 | 360.650.1445
Bellingham, WA 98225
FREELAND & ASSOCIATES
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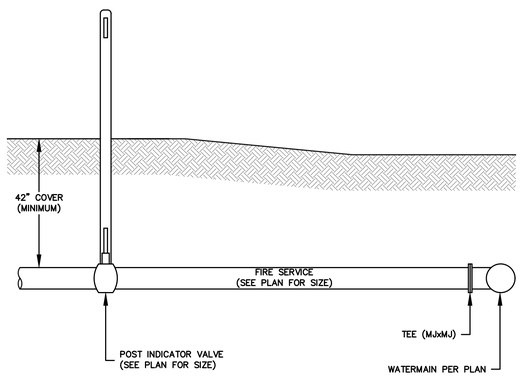
WATER AND FIRE PROTECTION DETAILS AND WATER SYSTEM NOTES

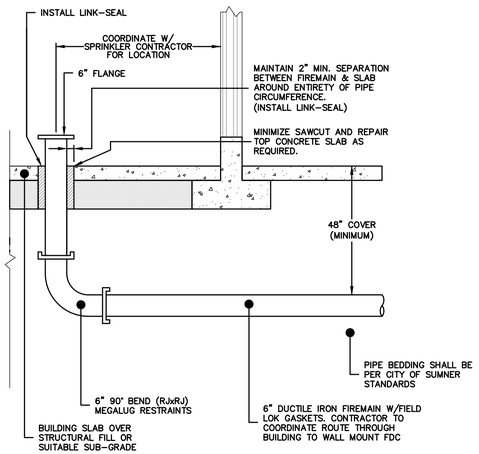
C18

1. ALL WORK SHALL CONFORM TO NFPA 24 AND THE INTERNATIONAL FIRE CODE.
2. BACKFLOW PREVENTOR AND FDC CHECK VALVE SHALL BE LOCATED IN THE BUILDING.
3. INSTALLER MUST BE A LEVEL "U" CERTIFICATE HOLDER.
4. IN THE UNCOVERED DITCH, THE COMPLETED UNDERGROUND FIRE LINE SHALL BE HYDROSTATICALLY TESTED TO 200 PSI FOR 2 HOURS, AND COMPLETELY FLUSHED IN THE PRESENCE OF A FIRE DEPARTMENT INSPECTOR.
5. A TAMPER SECURITY SWITCH SHALL BE INSTALLED ON THE POST INDICATOR VALVE.
6. CONTACT ENGINEER OF RECORD IF FIELD CONDITIONS DO NOT MATCH CONDITIONS SHOWN ON THE DETAIL.

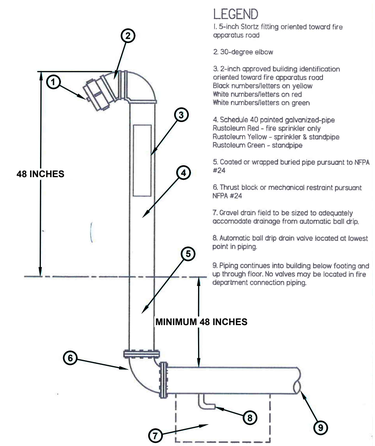



## A FIRE LINE DETAIL
nts

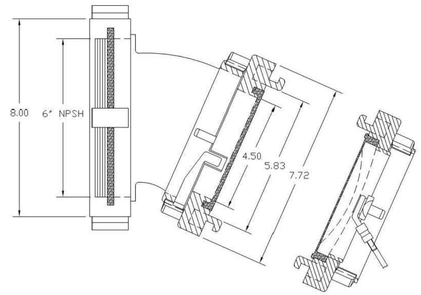
1. ALL WORK SHALL CONFORM TO NFPA 24 AND THE INTERNATIONAL FIRE CODE.
2. FDC CHECK VALVE SHALL BE LOCATED IN THE BUILDING.
3. INSTALLER MUST BE A LEVEL "U" CERTIFICATE HOLDER.
4. IN THE UNCOVERED DITCH, THE COMPLETED UNDERGROUND FIRE LINE SHALL BE HYDROSTATICALLY TESTED TO 200 PSI FOR 2 HOURS, AND COMPLETELY FLUSHED IN THE PRESENCE OF A FIRE DEPARTMENT INSPECTOR.
5. A TAMPER SECURITY SWITCH SHALL BE INSTALLED ON THE POST INDICATOR VALVE.
6. CONTACT ENGINEER OF RECORD IF FIELD CONDITIONS DO NOT MATCH CONDITIONS SHOWN ON THE DETAIL.




## B FIRE CONNECT INSIDE BUILDING DETAIL
nts




## C FIRE DEPARTMENT CONNECTION
nts




| | | |
|---|---|---|
| Harrington, Inc. 2630 W. 21st Street Erie, PA 16506 | DWG NO.: H30E-50-60NPSH/CAP | |
| | DESCRIPTION: 30° ELBOW 5" STORZ X 6" NPSH FEMALE SWIVEL with STORZ CAP w/CABLE | |
| | DATE: 11/6/07 | DATE: MFC / REV: 00 |
| | SCALE: NTS | SHEET 1 OF 1 |

## D FDC CAP AND ELBOW
nts

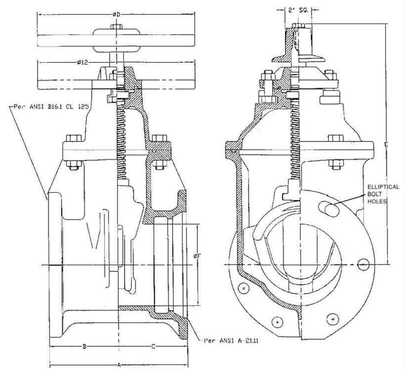
**3"-12" R/S VALVE NRS FLANGED X MECHANICAL JOINT ENDS GENERAL DIMENSIONS**

KENNEDY VALVE MODEL KS-RW

LISTED · APPROVED · LISTED

Complies with applicable requirements of AWWA C515

**7572SS STANDARD**
**7702SS W/POST PLATE**




ELLIPTICAL BOLT HOLE DESIGN ELIMINATES THE NEED FOR ANTI-ROTATIONAL BOLTS

| VALVE SIZE | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| 3 | 8 1/4 | 4 | 4 1/4 | 10 | 12 3/8 | 3 |
| 4 | 9 1/4 | 4 1/2 | 4 3/4 | 10 | 14 3/4 | 4 1/4 |
| 6 | 10 1/2 | 5 1/4 | 5 1/4 | 12 | 19 | 6 1/4 |
| 8 | 12 5/16 | 5 3/4 | 6 9/16 | 14 | 22 1/2 | 8 1/4 |
| 10 | 14 1/4 | 6 1/2 | 7 3/4 | 16 | 26 1/2 | 10 1/4 |
| 12 | 15 | 7 | 8 | 18 | 30 | 12 1/4 |

Updated 05/11/11

5-11 Kennedy Valve/KS-RW 515

## E VALVE DETAIL
nts

866. DIP. PIPE

# TYTON JOINT® Pipe

NSF 61 | 2010 EDITION | P 13

### Thickness Class – Thicknesses, Dimensions and Weight

| SIZE Inches | THICKNESS CLASS | THICKNESS Inches | OUTSIDE DIAMETER* Inches | 18-FOOT LAYING LENGTH AVG. WEIGHT LENGTH† Pounds | 18-FOOT LAYING LENGTH WEIGHT PER FOOT†† Pounds | 20-FOOT LAYING LENGTH AVG. WEIGHT LENGTH† Pounds | 20-FOOT LAYING LENGTH WEIGHT PER FOOT†† Pounds |
|---|---|---|---|---|---|---|---|
| 4 | 51 | 0.26 | 4.80 | 215 | 11.3 | — | — |
| 4 | 52 | 0.29 | 4.80 | 235 | 12.6 | — | — |
| 4 | 53 | 0.32 | 4.80 | 260 | 13.8 | — | — |
| 4 | 54 | 0.35 | 4.80 | 280 | 15.0 | — | — |
| 4 | 55 | 0.38 | 4.80 | 300 | 16.1 | — | — |
| 4 | 56 | 0.41 | 4.80 | 320 | 17.3 | — | — |
| 6 | 50 | 0.25 | 6.90 | 305 | 16.0 | 335 | 16.0 |
| 6 | 51 | 0.28 | 6.90 | 335 | 17.8 | 370 | 17.8 |
| 6 | 52 | 0.31 | 6.90 | 370 | 19.6 | 410 | 19.6 |
| 6 | 53 | 0.34 | 6.90 | 400 | 21.4 | 445 | 21.4 |
| 6 | 54 | 0.37 | 6.90 | 435 | 23.2 | 480 | 23.2 |
| 6 | 55 | 0.40 | 6.90 | 465 | 25.0 | 515 | 25.0 |
| 6 | 56 | 0.43 | 6.90 | 495 | 26.7 | 550 | 26.7 |
| 8 | 50 | 0.27 | 9.05 | 430 | 22.8 | 475 | 22.8 |
| 8 | 51 | 0.30 | 9.05 | 475 | 25.2 | 525 | 25.2 |
| 8 | 52 | 0.33 | 9.05 | 520 | 27.7 | 575 | 27.7 |
| 8 | 53 | 0.36 | 9.05 | 560 | 30.1 | 620 | 30.1 |
| 8 | 54 | 0.39 | 9.05 | 605 | 32.5 | 670 | 32.5 |
| 8 | 55 | 0.42 | 9.05 | 650 | 34.8 | 720 | 34.8 |
| 8 | 56 | 0.45 | 9.05 | 690 | 37.2 | 765 | 37.2 |
| 10 | 50 | 0.29 | 11.10 | 570 | 30.1 | 630 | 30.1 |
| 10 | 51 | 0.32 | 11.10 | 625 | 33.2 | 690 | 33.2 |
| 10 | 52 | 0.35 | 11.10 | 680 | 36.2 | 750 | 36.2 |
| 10 | 53 | 0.38 | 11.10 | 730 | 39.2 | 810 | 39.2 |
| 10 | 54 | 0.41 | 11.10 | 785 | 42.1 | 870 | 42.1 |
| 10 | 55 | 0.44 | 11.10 | 840 | 45.1 | 930 | 45.1 |
| 10 | 56 | 0.47 | 11.10 | 890 | 48.0 | 990 | 48.0 |

**NOTE:** *Thicknesses and dimensions of 4" through 64" Ductile Iron pipe conform to ANSI/AWWA C151/A21.51. Weights may vary from the standard because of differences in bell weights.*

**Tolerance of O.D. of spigot end: 4-12 in., ±0.06 in.; 14-24 in., +0.05 in., -0.08 in.; 30-48 in., +0.08 in., -0.06 in.; 54-64 in., +0.04 in., -0.10 in.*
*† Including bell; calculated weight of pipe rounded off to nearest 5 lbs.*
*†† Including bell; average weight, per foot, based on calculated weight of pipe before rounding.*

**Table continued on next page.**



## F PIPE SPECIFICATIONS
nts

866. DIP. PIPE 4"–24"

# FIELD LOK 350® GASKET

NSF 61 | 2012 EDITION | P 3

### FIELD LOK 350® Gasket

Restrained joint pipe and fittings are used in pressurized Ductile Iron pipelines to prevent the joints of the line from separating due to thrust forces. Thrust forces generally occur at changes of direction in the line. Usually, a calculated length of pipeline extending from the location of the thrust force is restrained in the joints so that this force can be transmitted to the soil surrounding the line. The entire pipeline is often restrained for installations in poor soil or for critical lines.

U.S. Pipe's FIELD LOK 350 Gasket has proven to be an extremely successful, trouble-free means of joint restraint for well over one million Ductile Iron pipe and fitting joint assemblies across North America. By simply inserting a FIELD LOK 350 Gasket into the socket of a TYTON JOINT® Pipe, Fitting or Valve, restraint is instantly achieved when the joint is assembled. Stainless steel locking segments volcanized into the FIELD LOK 350 Gasket grip the pipe to prevent joint separation.

FIELD LOK 350 Gaskets, utilizing patented improvements, are rated by U.S. Pipe for operating pressures up to 350 psi — a rating that now matches that of Pressure Class 350 pipe — giving the engineer and user new flexibility in designing piping systems.

Underwriters Laboratories lists the 4"–24" sizes for 350 psi. Factory Mutual, utilizing a safety factor of 4, approves the 4"–16" sizes for 250 psi and the 18"–24" sizes for 200 psi service.

With the use of the FIELD LOK 350 Gasket, push-on joint Ductile Iron TYTON JOINT Pipe or Fittings can be quickly and securely restrained as the joint is assembled. The restraint provided shall be a boltless, integral restraining system and shall be rated for 350 psi in accordance with the performance requirements of ANSI/AWWA C111/A21.11. Field cut pipe are no longer a problem to restrain. No pipe surface preparation* or grooving is required for field cut pipe other than the cut end needing to be beveled as required for any push-on joint spigot end. With the FIELD LOK 350 Gasket in place, the joints are restrained without thrust blocks, bolts, grooves, rods, clamps or retainer glands, resulting in savings of labor, material and time.

**CAUTION:** *U.S. Pipe does not recommend FIELD LOK 350 Gaskets for use above ground. The long-term effect of cyclical movements can be gradual joint separation to the point that the seal on the gasket bulb is compromised. Sources of cyclical movements include vibration as may be found on bridge crossings, and thermal expansion and contraction resulting from atmospheric temperature changes. These conditions are not experienced with buried pipe lines.*

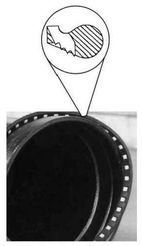
**See note on page 5 regarding pipe with thick coatings or tape wrap.*

*FIELD LOK®, FIELD LOK 350®, TYTON®, TYTON JOINT® and TR FLEX® are Registered Trademarks of U.S. Pipe and Foundry Company.*

**ANSI/AWWA Standards**

**ANSI/AWWA C111/A21.11 Standard for Rubber-Gasket Joints for Ductile Iron Pressure Pipe and Fittings.**

FIELD LOK 350 Gaskets are available in 4"–24" sizes and the pressure rating is based on the performance requirements of ANSI/AWWA C111/A21.11.



**NOTE:** *If specifiers and users believe that corrosive soils will be encountered where products are to be installed, please refer to ANSI/AWWA C105/A21.5 Polyethylene Encasement for Ductile Iron Pipe Systems for proper external protection procedures.*

Pressure Rating: The working pressure rating of the FIELD LOK 350 Gasket Restrained Joint System does not exceed that of the working pressure rating of the pipe in which it is installed.



## G FIELD LOK 350 GASKET
nts

RMC ARCHITECTS
RMC Architects, PLLC • 1223 Railroad Avenue • Bellingham, WA 98225
P: 360.676.7733 • F: 360.738.0448 • rmc@rmcarchitects.com

220 West Champion Street, Suite 200 | 360.650.1449
Bellingham, WA 98225
FREELAND & ASSOCIATES

HAROLD A. FREELAND III
STATE OF WASHINGTON
28519
REGISTERED
PROFESSIONAL ENGINEER

Archdiocese of Seattle
St. Andrew Catholic Church Parish Hall
1401 Valley Avenue East, Sumner, Washington, 98390

Job No: 18126 Date: 02-07-2020
File No: 18126SP9
Drawn By: MID
Checked By: HAF
Issued for: PERMIT SET

FIRE PROTECTION DETAILS

C19

N89°44'41"E 460.28'

N00°12'56"W 40.00'

PROPOSED HALL
& ADMIN WING
FFE: 64.00

BATHROOMS | KITCHEN | MR | FIRE

COVERED ARCADE

PLAZA

FIRE LANE

POND NO. 2

POND NO.3

POND NO.1

EXISTING GROTTO

EXISTING CHURCH

PARCEL "A"

VALLEY AVENUE EAST

N00°07'49"E 379.01'

MATCHLINE (SEE L2)

MATCHLINE (SEE L2)

RESTORE EXISTING LAWN AREA

10' STORM SEWER EASEMENT REC. NO. 9406130316

10' STORM SEWER EASEMENT REC. NO. 9406130317

15' WATERLINE EASEMENT REC. NO. 9611150362

PRESERVE EXISTING WESTERN RED CEDAR. GENERAL CONTRACTOR SHALL INSTALL ORANGE CONSTRUCTION FENCING OR SIMILAR PHYSICAL BARRIER PRIOR TO ROUGH GRADING IN ORDER TO LIMIT IMPACTS TO ROOT ZONE AND PREVENT STORAGE OF CONSTRUCTION EQUIPMENT AND/OR MATERIAL WITHIN THE CRITICAL ROOT ZONE.

EXISTING LAWN AREA TO REMAIN (RESTORE LAWN AS NECESSARY)

LANDSCAPE CONTRACTOR SHALL ENSURE SUBGRADE IS NOT TIGHT/COMPACTED AND IS LOOSENED TO DEPTH SPECIFIED WITH BMP T5.13. PRIOR TO INSTALLING TOPSOIL, TYPICAL

5'x15' CONCRETE PAD FOR BIKE RACK (SEE ARCHITECTURAL PLANS)

INSTALL FLOWERING KWANZAN CHERRY TREES. INTENT IS TO MATCH EXISTING PARKING LOT TREES AT ENTRANCE AND IN PROPOSED PARKING LOT.

INSTALL PNW LAWN SEED MIX AND ORANGE MONARCH CROCUS. INSTALL CROCUS IN GROUPS OF 15–25 THROUGH OUT THE LAWN AREA. SPACE GROUPS 15'–30'. SEE LANDSCAPE NOTES FOR ADDITIONAL CROCUS INSTALLATION SPECIFICATIONS, TYPICAL.

ROUNDED RIVER BOULDER(S), TYPICAL

SEE CIVIL ENGINEERING PLANS FOR SEED MIX REQUIRED WITHIN POND AREA, TYPICAL

INSTALL SEVERAL JOAN SENIOR DAYLILY AND MT VERNON LAUREL IN GAPS BETWEEN EXISTING SHRUBS. INTENT IS TO INCORPORATE PROPOSED LANDSCAPE ELEMENTS WITH EXISTING LANDSCAPE, TYPICAL

AN EXTRA FLOWERING KWANZAN CHERRY TREE IS INCLUDE IN THIS DESIGN. INTENT IS TO REPLACE A RECENTLY INSTALLED TREE IN EXISTING PARKING LOT WITH KWANZAN TO TREES IN PARKING LOTS ARE CONSISTENT.

INSTALL STREET TREES (PACIFIC SUNSET MAPLE) AT 30.0' O.C., TYPICAL

EXISTING FIRE HYDRANT

CONCRETE WALK

ASPHALT

CONC. WALK

CONC. CURB

PLANTER STRIP

0 10 20 40
1 inch = 20 ft.

## PLANT SCHEDULE

| Botanical Name | Common Name | Qty. | Size | Spacing | H20 Req'd |
|---|---|---|---|---|---|
| Acer griseum* | Paperbark Maple | 13 | 7'-8' b&b | 10'-15' o.c. | DR-DT |
| Acer palmatum 'Bloodgood'* | Bloodgood Japansese Maple | 4 | 7'-8' b&b | 10'-15' o.c. | DR-DT |
| Acer truncatum x A. platanoides 'Warrenred' | Pacific Sunset® Maple | 16 | 1.5" cal. | 30' o.c. | DT |
| Arbutus unedo 'Compacta' | Dwarf Stawberry Tree | 70 | 3 gal. | 4' o.c. | DT |
| Cedrus deodara 'Prostrate Beauty' | Prostrate Beauty Deodara Cedar | 13 | 3 gal. | 5' o.c. | DT |
| Chamaecyparis nootkatensis 'Pendula' | Weeping Alaskan Cedar | 4 | 8' b&b | 10' o.c. | DT |
| Cotoneaster dammeri 'Coral Beauty' | Coral Beauty Contoneaster | 100 | 1 gal. | 2' o.c. | DT |
| Crocus vernus 'Jeanne d'Arc' | Dutch Crocus | 1000 | bulb | 3"-4" o.c. | DT |
| Erica carnea 'Springwood Pink' | Springwood Pink Heath | 48 | 2 gal. | 2' o.c. | MD-DR |
| Erica carnea 'Springwood White' | Springwood White Heath | 16 | 2 gal. | 2' o.c. | MD-DR |
| Euonymus fortunei 'Roemertwo' | Gold Splash Wintercreeper | 44 | 2 gal. | 2' o.c. | DR-DT |
| Forsythia 'Gold Cluster' | Gold Cluster Forsythia | 11 | 2 gal. | 4' o.c. | DT |
| Hemerocallis x 'Joan Senior' | Joan Senior Daylily | 85 | quart | 2' o.c. | DT |
| Myrica californica | Pacific Wax Myrtle | 11 | 3 gal. | 8' o.c. | DT |
| Pieris japonica 'Forest flame' | Forest Flame Pieris | 8 | 3 gal. | 4' o.c. | DT |
| Prunus laurocerasus 'Mount Vernon' | Dwarf English Laurel | 62 | 2 gal. | 3' o.c. | DT |
| Prunus serrulata 'Kwanzan' | Kwanzan Flowering Cherry | 8 | 1.5" cal. | 10'-15' o.c. | DT |
| Rhododendron 'Chionoides' | Chionoides Rhododendron | 15 | 3 gal. | 4' o.c. | MD-DR |
| Rhododendron 'Rose Elf' | Rose Elf Dwarf Rhody | 50 | 3 gal. | 2' o.c. | MD-DR |
| Viburnum davidii | David Viburnum | 33 | 3 gal. | 4' o.c. | DT |
| PNW Lawn Seed Mix | Fescue and Perennial Rye Mix | 400 lbs | seed | 5 lbs/1000 sf | MD-DR |

**NOTES:**

1. DT = DROUGHT TOLERANT. DR = DROUGHT RESISTANT. MD = MOISTURE DEPENDENT.
2. * = MULTI-STEMMED TREES (CITY OF SUMNER REQUIRES 7' HT MINIMUM AT TIME OF INSTALLATION).

RMC ARCHITECTS
RMC Architects, PLLC • 1223 Railroad Avenue• Bellingham, WA 98225
P:360.676.7733 • F:360.738.0448 • rmc@rmcarchitects.com

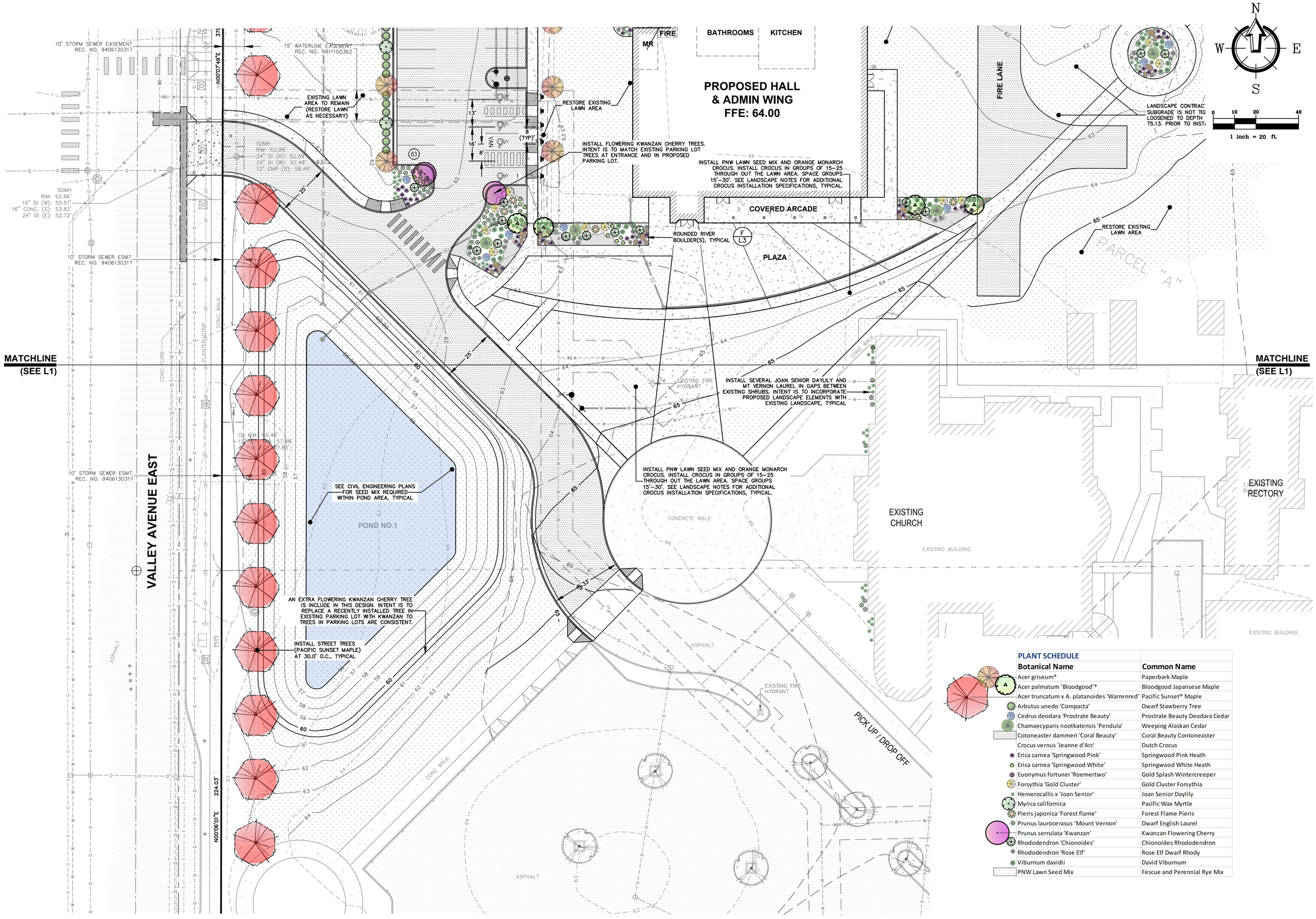
STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
SCOTT CHRISTOPER RIGGINS
CERTIFICATE NO. 1254

Archdiocese of Seattle
# St. Andrew Catholic Church Parish Hall
1401 Valley Avenue, Sumner, Washington, 98390

Job No: 18126 Date: 02-07-2020
File No: 18126LA7.DWG
Drawn By: SCR
Checked By: HAF
Issued for: PERMIT SET

LANDSCAPE PLAN (NORTH)

L1




| PLANT SCHEDULE | |
|---|---|
| **Botanical Name** | **Common Name** |
| Acer griseum* | Paperbark Maple |
| Acer palmatum 'Bloodgood'* | Bloodgood Japansese Maple |
| Acer truncatum x A. platanoides 'Warrenred' | Pacific Sunset® Maple |
| Arbutus unedo 'Compacta' | Dwarf Stawberry Tree |
| Cedrus deodara 'Prostrate Beauty' | Prostrate Beauty Deodara Cedar |
| Chamaecyparis nootkatensis 'Pendula' | Weeping Alaskan Cedar |
| Cotoneaster dammeri 'Coral Beauty' | Coral Beauty Contoneaster |
| Crocus vernus 'Jeanne d'Arc' | Dutch Crocus |
| Erica carnea 'Springwood Pink' | Springwood Pink Heath |
| Erica carnea 'Springwood White' | Springwood White Heath |
| Euonymus fortunei 'Roemertwo' | Gold Splash Wintercreeper |
| Forsythia 'Gold Cluster' | Gold Cluster Forsythia |
| Hemerocallis x 'Joan Senior' | Joan Senior Daylily |
| Myrica californica | Pacific Wax Myrtle |
| Pieris japonica 'Forest flame' | Forest Flame Pieris |
| Prunus laurocerasus 'Mount Vernon' | Dwarf English Laurel |
| Prunus serrulata 'Kwanzan' | Kwanzan Flowering Cherry |
| Rhododendron 'Chionoides' | Chionoides Rhododendron |
| Rhododendron 'Rose Elf' | Rose Elf Dwarf Rhody |
| Viburnum davidii | David Viburnum |
| PNW Lawn Seed Mix | Fescue and Perennial Rye Mix |

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LANDSCAPE PLAN (SOUTH)

L2

LANDSCAPE CONTRACTOR SHALL ENSURE SUBGRADE IS NOT TIGHT/COMPACTED AND IS LOOSENED TO DEPTH SPECIFIED WITH BMP T5.13. PRIOR TO INSTALLING TOPSOIL, TYPICAL

5'x15' CONCRETE PAD FOR BIKE RACK (SEE ARCHITECTURAL PLANS)

RESTORE EXISTING LAWN AREA

INSTALL FLOWERING KWANZAN CHERRY TREES. INTENT IS TO MATCH EXISTING PARKING LOT TREES AT ENTRANCE AND IN PROPOSED PARKING LOT.

INSTALL PNW LAWN SEED MIX AND ORANGE MONARCH CROCUS. INSTALL CROCUS IN GROUPS OF 15–25 THROUGH OUT THE LAWN AREA. SPACE GROUPS 15'–30'. SEE LANDSCAPE NOTES FOR ADDITIONAL CROCUS INSTALLATION SPECIFICATIONS, TYPICAL.

ROUNDED RIVER BOULDER(S), TYPICAL

**PROPOSED HALL & ADMIN WING**
**FFE: 64.00**

BATHROOMS
KITCHEN
COVERED ARCADE
PLAZA
FIRE
MR
GM
VAN
13'
16'
8'
8' (TYP)'

| PLANT SCHEDULE | |
|---|---|
| **Botanical Name** | **Common Name** |
| Acer griseum* | Paperbark Maple |
| Acer palmatum 'Bloodgood'* | Bloodgood Japansese Maple |
| Acer truncatum x A. platanoides 'Warrenred' | Pacific Sunset® Maple |
| Arbutus unedo 'Compacta' | Dwarf Stawberry Tree |
| Cedrus deodara 'Prostrate Beauty' | Prostrate Beauty Deodara Cedar |
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| Crocus vernus 'Jeanne d'Arc' | Dutch Crocus |
| Erica carnea 'Springwood Pink' | Springwood Pink Heath |
| Erica carnea 'Springwood White' | Springwood White Heath |
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| Forsythia 'Gold Cluster' | Gold Cluster Forsythia |
| Hemerocallis x 'Joan Senior' | Joan Senior Daylily |
| Myrica californica | Pacific Wax Myrtle |
| Pieris japonica 'Forest flame' | Forest Flame Pieris |
| Prunus laurocerasus 'Mount Vernon' | Dwarf English Laurel |
| Prunus serrulata 'Kwanzan' | Kwanzan Flowering Cherry |
| Rhododendron 'Chionoides' | Chionoides Rhododendron |
| Rhododendron 'Rose Elf' | Rose Elf Dwarf Rhody |
| Viburnum davidii | David Viburnum |
| PNW Lawn Seed Mix | Fescue and Perennial Rye Mix |

N W E S

0 5 10 20
1 inch = 10 ft.

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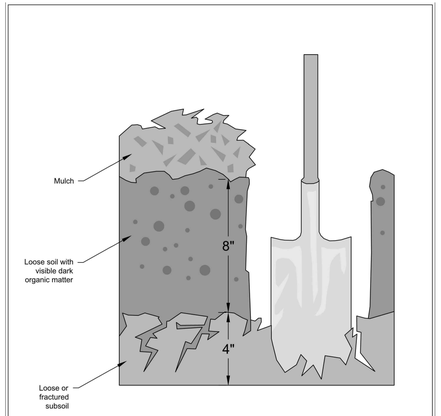
PARKING LOT AND BUILDING PLANT LAYOUT PLAN

L3




*Reprinted from Guidelines and Resources For Implementing Soil Quality and Depth BMP T5.13 in WDOE Stormwater Management Manual for Western Washington*, 2010, Washington Organic Recycling Council

NOT TO SCALE

DEPARTMENT OF ECOLOGY
State of Washington

Figure V-5.3.3
Planting Bed Cross-Section
Revised January 2016

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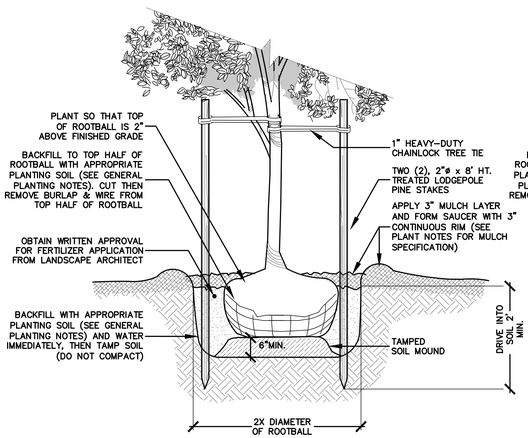
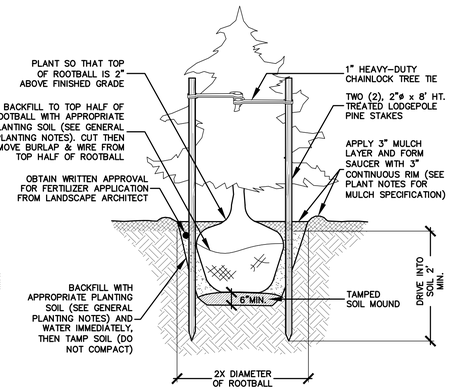
A SOIL AMENDMENTS - BMP T5.13
nts

NOTE:
PLANTING HOLE SHALL BE 2X AS WIDE AS ROOTBALL AND AS DEEP OR SLIGHTLY DEEPER THAN HEIGHT OF ROOTBALL



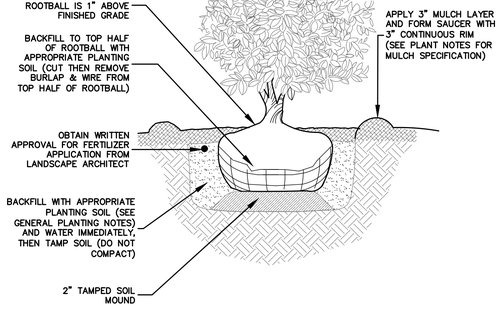

B DECIDUOUS TREE
nts

NOTE:
PLANTING HOLE SHALL BE 2X AS WIDE AS ROOTBALL AND AS DEEP OR SLIGHTLY DEEPER THAN HEIGHT OF ROOTBALL

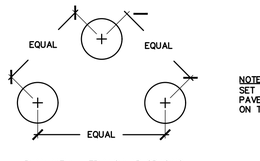



C CONIFEROUS TREE
nts

NOTE:
PLANTING HOLE SHALL BE 2X AS WIDE AS ROOTBALL AND AS DEEP OR SLIGHTLY DEEPER THAN HEIGHT OF ROOTBALL

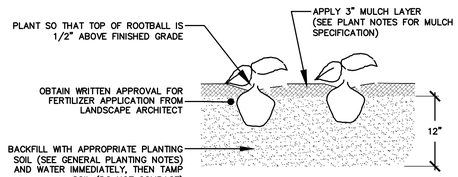



D SHRUB
nts




NOTE:
SET GROUNDCOVER 1' FROM ADJACENT PAVEMENT EDGE AND SPACE AS INDICATED ON TRIANGULAR SPACING DIAGRAM

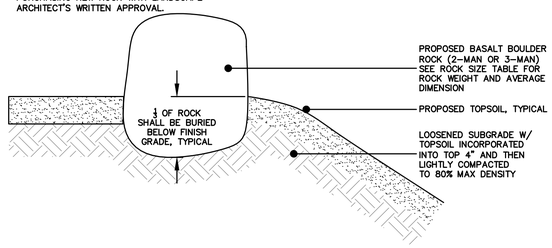
PLAN VIEW – TRIANGULAR SPACING




E GROUNDCOVER
nts

NOTES:
1. TOTAL OF (20) BOULDERS ARE SHOWN. INSTALL (5) 4–MAN, (10) 3–MAN, (5) 2–MAN. LANDSCAPE ARCHITECT SHALL BE ON–SITE AT TIME OF INSTALLATION TO ADVICE IN PLACEMENT/ARRANGEMENT.
2. EXISTING ROCK/BOULDERS UNEARTHED DURING EARTHWORK AND EXCAVATION OF BUILDING FOOTINGS THAT MEET THE SIZE REQUIREMENTS MAY BE RELOCATED AND INSTALLED IN LIEU OF PURCHASING NEW ROCK WITH LANDSCAPE ARCHITECT'S WRITTEN APPROVAL.

| Rock Size | Rock Weight (lbs) | Average Dimension (in.) |
|---|---|---|
| One Man | 50 to 200 | 12 to 18 |
| Two Man | 200 to 700 | 18 to 28 |
| Three Man | 700 to 2,000 | 28 to 36 |
| Four Man | 2,000 to 4,000 | 36 to 48 |
| Five Man | 4,000 to 6,000 | 48 to 54 |
| Six Man | 6,000 to 8,000 | 54 to 60 |




F BOULDER INSTALLATION AND SIZE SPECIFICATIONS
nts

## TOPSOIL NOTES

TOPSOIL "A"/IMPORTED TOPSOIL:
IMPORTED SHALL BE WINTERMIX BY GREEN EARTH TECHNOLOGY, LLC (360.354.4936) OR APPROVED EQUAL. IMPORTED TOPSOIL SHALL BE FREE OF NOXIOUS WEED MATERIAL (SEEDS, RHIZOMES, AND/OR ROOTS). IMPORTED TOPSOIL SHALL BE FREE OF DELETERIOUS MATERIALS, ROCKS, AND DEBRIS WHICH WILL NOT PASS THROUGH THREE–QUARTER INCH 3/4" SCREEN. THE COMPONENTS OF THE SOIL MUST BE EVENLY DISTRIBUTED THROUGHOUT THE TOPSOIL MIX.

TOPSOIL "B"/CONSTRUCTED TOPSOIL:
CONTRACTOR SHALL CONSTRUCT TOPSOIL B ON–SITE USING COMBINATION OF NATIVE TOPSOIL AND IMPORTED COMPOST. NATIVE TOPSOIL SHALL BE TAKEN FROM VEGETATED/LANDSCAPE AREAS WITHIN PROJECT WORK LIMITS. THE TOP TWELVE (12") OF THE SOIL COLUMN SHALL BE USED IN THE TOPSOIL B MIX AND STOCKPILED IN DESIGNATED AREA(S). STOCKPILED MATERIAL SHALL BE FREE OF NOXIOUS WEEDS. GRASS AREAS STRIPPED FOR WALKWAY OR BUILDING FOOTPRINT SHALL BE USED FOR TOPSOIL B MIX AND SHALL BE DISTRIBUTED IN FUTURE LAWN AREAS ONLY. TOPSOIL B SHALL BE FREE OF NOXIOUS WEED MATERIAL (SEEDS, RHIZOMES, AND/OR ROOTS). NATIVE SOIL TO IMPORTED COMPOST RATIO SHALL BE THREE TO ONE (3 NATIVE SOIL : 1 COMPOST). THE COMPONENTS OF THE CONSTRUCTED TOPSOIL MUST BE EVENLY DISTRIBUTED THROUGHOUT THE TOPSOIL MIX.

TOPSOIL "C"/AMENDED SOIL:
SHALL LOOSEN/TILL DISTURBED LAWN/GRASS AREAS AND THEN APPLY 2" LAYER OF COMPOST. COMPOST SHALL BE INCORPORATED INTO UPPER 4" OF DISTURBED SOIL. COMPOST SHALL BE FROM YARD TRIMMINGS OR SIMILAR ORGANIC MATTER COMPOSTED THROUGH AEROBIC DECOMPOSITION AS AVAILABLE AT GREEN EARTH TECHNOLOGY, LLC (360.354.4936) OR APPROVED EQUAL. IMPORTED COMPOST SHALL BE COMPOSTED IN ACCORDANCE WITH WAC 173–350–220 AND FREE OF NOXIOUS WEED MATERIAL. PROVIDE ONE–GALLON (1–GALLON) SAMPLE AND SOURCE FOR APPROVAL BY ARCHITECT PRIOR TO DELIVERY TO SITE.

GROWING MEDIUM/TOPSOIL A, B, AND C SHALL CONFORM TO THE FOLLOWING SOIL CHARACTERISTICS:

1. SOIL QUALITY – ALL AREAS SUBJECT TO CLEARING AND GRADING THAT HAVE NOT BEEN COVERED BY IMPERVIOUS SURFACE, INCORPORATED INTO A DRAINAGE FACILITY OR ENGINEERED AS STRUCTURAL FILL OR SLOPE SHALL, AT PROJECT COMPLETION, DEMONSTRATE:
   - CONSTRUCTION MATERIAL(S) SHALL NOT BE PRESENT.
   - SOIL MEDIA SHALL HAVE A SANDY–LOAM TO LOAM TEXTURE PER USDA TEXTURAL TRIANGLE. CLAY CONTENT SHALL NOT EXCEED 5% TOPSOIL MIXTURE SHALL BE 85%–90% SANDY–LOAM (GRADATION PER ASTM D 422) AND A MINIMUM ORGANIC MATTER CONTENT OF 10% DRY WEIGHT IN PLANTING BEDS, AND 5% ORGANIC MATTER CONTENT IN TURF AREAS.
   - TOPSOIL SHALL HAVE PH FROM 6.0 TO 8.0 OR MATCH THE PH OF ORIGINAL UNDISTURBED SOIL.
   - TOPSOIL LAYER IN TREE, SHRUB AND GROUND COVER PLANTING BEDS SHALL HAVE MINIMUM DEPTH OF 12" TO 14" AFTER FIRMING (COMPACT TO 80% TO 85% STANDARD PROCTOR DENSITY); EXCEPT WHERE TREE ROOTS LIMIT THE DEPTH OF INCORPORATION OF AMENDMENTS NEEDED TO MEET THE CRITERIA.
   - TOPSOIL LAYER IN LAWN ARES (HYDROSEED OR SOD) SHALL HAVE MINIMUM DEPTH OF 8" TO 10" AFTER FIRMING (COMPACT/ROLL TO 80% TO 85% STANDARD PROCTOR DENSITY).
   - SUBSOILS BELOW THE TOPSOIL LAYER SHALL BE SCARIFIED TO 4" WITH SOME INCORPORATION OF THE UPPER MATERIAL TO AVOID STRATIFIED LAYERS. (THE INTENT IS TO PROVIDE A LOOSE PLANTING MEDIUM WITH TOTAL DEPTH OF LOOSENED SOIL 16" TO 18" IN PLANTING BEDS AND 12" TO 14" IN LAWN/GRASS AREAS).
   - COMPOST OR OTHER MATERIAL USED FOR SOIL AMENDMENTS (ORGANIC MATTER CONTENT) SHALL BE "COMPOSTED MATERIALS" IN WAC 173–350–220. THE COMPOST MUST ALSO HAVE ORGANIC MATTER CONTENT 35% TO 65% AND A CARBON TO NITROGEN RATIO BELOW 25:1 OR 35:1.

G TOPSOIL SPECIFICATIONS
nts

## GENERAL PLANTING NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARITY WITH ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF SAID UTILITIES. VERIFY ALL UTILITY LOCATIONS, PADS, AND APPURTENANCES PRIOR TO PLANTING ACTIVITY. DO NOT BLOCK ACCESS TO UTILITY STRUCTURES. IDENTIFY DISCREPANCIES IMMEDIATELY TO LANDSCAPE ARCHITECT.
2. ESTABLISH SUB–GRADE ELEVATIONS THAT WILL ACCOMMODATE FULL PLANTING SOIL DEPTHS AS SPECIFIED IN SPECIFICATIONS SECTION "SOIL PREPARATION 32 94 00" AND LANDSCAPE PLAN GENERAL PLANTING NOTES, ACCOMMODATE DEPTHS TO ALLOW FOR COMPOST ADDED FOR SUBGRADE PREPARATION AND SUBGRADE OPERATIONS.
3. SUB–GRADE PREPARATION FOR PLANTING BEDS AND SEEDED AREAS SHALL BE AS FOLLOWS:
   - RIP/LOOSEN SUB–GRADE TO A DEPTH OF 4".
   - REMOVE CONCRETE, ASPHALT, AND OTHER CONSTRUCTION DEBRIS DEBRIS.
   - INCORPORATE/TILL FIRST LIFT OF TOPSOIL "A", TOPSOIL "B", OR SOIL AMENDMENT MEDIUM (ORGANIC COMPOST) INTO THE SUB–GRADE. TILLING THE COMPOST INTO THE SOIL SHALL BE ACCOMPLISHED BY TILLING IT TWICE, THE SECOND TIME PERPENDICULAR TO THE FIRST.
5. LANDSCAPE AREAS SHALL RECEIVE ONE OF THREE TOPSOIL TYPES PREPARED PER SOIL PREPARATION SPECIFICATIONS 32–9400 OR OTHERWISE NOTED ON THE LANDSCAPE PLANS. PLANTING SOIL SHALL BE PLACED IN TWO EQUAL LIFTS. THE FIRST LIFT SHALL BE INCORPORATED/ROTOTILLED INTO PREPARED SUBGRADE TO A MINIMUM 4" DEPTH. ALL AREAS SHALL BE FINAL GRADED TO AVOID HIGH OR LOW SPOTS, AND PROVIDE POSITIVE DRAINAGE.
6. ALL PLANT MATERIAL SHALL BE NURSERY GROWN (NOT FIELD COLLECTED), CONTAINERIZED OR BALLED AND BURLAPPED. PROVIDE ONLY SOUND, HEALTHY, VIGOROUS PLANTS, FREE OF DEFECTS, DISEASE, AND ALL FORMS OF INFESTATION. MEASUREMENTS, CALIPER, BRANCHING, GRADING QUALITY, BALLING AND BURLAPPING PLANT MATERIAL SHALL CONFORM TO MINIMUM STANDARDS OF ANSI Z60.0, LATEST EDITION.
7. ALL CONTAINER GROWN NURSERY STOCK SHALL BE HEALTHY, VIGOROUS, WELL–ROOTED, AND ESTABLISHED IN THE CONTAINER IN WHICH IT IS GROWN. CONTAINER GROWN NURSERY STOCK SHALL HAVE A WELL–ESTABLISHED ROOT SYSTEM REACHING THE SIDES OF THE CONTAINER TO MAINTAIN A FIRM BALL WHEN THE CONTAINER IS REMOVED, BUT SHALL NOT HAVE EXCESSIVE ROOT GROWTH ENCIRCLING THE INSIDE OF THE CONTAINER.
8. PLANTS SHALL NOT BE PRUNED PRIOR TO DELIVERY. PRUNE PLANTS ONLY AFTER PLANTING AND ACCORDING TO STANDARD HORTICULTURAL PRACTICE TO PRESERVE THE NATURAL CHARACTER OF THE TREE. REMOVE ALL DEAD WOOD, SUCKERS AND BROKEN OR BADLY BRUISED BRANCHES. USE ONLY CLEAN SHARP TOOLS.
9. PLANTS SHALL BE TRUE TO SPECIES AND VARIETY AND SHALL CONFORM TO SPECIFIED MEASUREMENTS, HOWEVER, LARGER PLANTS MAY BE USED IF APPROVED BY LANDSCAPE ARCHITECT. USE OF SUCH PLANTS SHALL NOT INCREASE CONTRACT PRICE. SPECIFIED HEIGHT AND AND SPREAD DIMENSIONS REFER TO MAIN BODY OF PLANT AND NOT BRANCH TIP TO TIP. CALIPER MEASUREMENT SHALL BE TAKEN AT A POINT ON THE TRUNK 6 INCHES ABOVE THE NATURAL GROUND LINE FOR TREES UNDER 4 INCHES IN CALIPER, AND AT A POINT 12 INCHES ABOVE THE GROUND FOR TREES 4 INCHES OR GREATER IN CALIPER. IF A RANGE OF SIZES IS GIVEN, NO PLANT SHALL BE LESS THAN THE MINIMUM SIZE AND NO LESS THAN 40% OF THE PLANTS SHALL BE AS LARGE AS THE MAXIMUM SIZE SPECIFIED.PRIOR TO INSTALLATION, ALL PLANT MATERIAL PROPOSED FOR USE ON THE PROJECT SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT AT THE TIME OF DELIVERY TO THE SITE FOR CONFORMANCE WITH THE REQUIREMENTS OF THE PLANT SCHEDULE, PLANT SPECIFICATIONS, AND STORAGE AND HANDLING REQUIREMENTS. CONTRACTOR IS TO PROVIDE A MINIMUM OF TWO WEEKS NOTICE PRIOR TO DELIVERY TO THE LANDSCAPE ARCHITECT.
10. LAYOUT OF PLANTING BEDS AND PLACEMENT OF TREES, SHRUBS, GROUNDCOVERS, SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
11. TREES SHALL BE PLACED FIRST, THEN SHRUBS, AND THEN GROUNDCOVERS. TREES SHALL BE STAKED OR GUYED PER DETAILS WITHIN 24 HOURS OF INSTALLATION. TREE TRUNKS SHALL BE LOCATED NO CLOSER THAN 5' FROM BUILDING WALLS, SHRUBS SHALL BE LOCATED SO THAT AT MATURITY THERE WILL BE A MINIMUM 3' CLEAR BETWEEN TRUNK AND BUILDING WALL.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL COMPLETE PLANT COUNTS TO COVER AREAS AT THE SPECIFIED SPACING.
13. DURING INSTALLATION, NOTIFY THE OWNER'S REPRESENTATIVE OF ANY CONDITIONS THAT MAY BE HARMFUL TO PLANT LIFE SUCH AS; POOR DRAINAGE, HAZARDOUS MATERIALS, ECT. MAKE RECOMMENDATIONS TO ADDRESS THE SPECIFIC SITUATION IMMEDIATELY TO THE OWNER'S REPRESENTATIVE.
14. TOPSOIL "A" (IMPORTED TOPSOIL) SHALL BE APPLIED IN LANDSCAPE AREAS AROUND THE BUILDING WHERE TREES, SHRUBS, AND GROUND COVER ARE TO BE INSTALLED. TOPSOIL "B" CAN BE USED IN LIEU OF TOPSOIL "A" (IMPORTED SOIL) IN AREAS THAT ARE DESIGNATED FOR LAWN/GRASS SEED MIX OR AREAS APPROVED BY LANDSCAPE ARCHITECT. TOPSOIL "C"/AMENDED SOIL AREAS CONSIST OF LANDSCAPE/GRASS AREAS WHERE CONSTRUCTION ACTIVITIES CAUSED DISTURBANCE TO SOIL AND RESTORATION OF GRASS AND TOPSOIL IS REQUIRED.
15. MULCH SHALL BE MEDIUM TO COARSE PARTICLE SIZE, SHREDDED WOOD MULCH. INTENT IS TO MATCH EXISTING MULCH CURRENTLY APPLIED TO LANDSCAPE AREAS.
16. FINISH GRADE (TOP OF MULCH) IN PLANTING BEDS AND FINISH GRADE OF TURF SHALL BE 1/2" BELOW FINISHED SURFACE OF ADJACENT WALK OR PAVED AREAS. LAWN/GRASS AREAS NEAR PAVED/HARD SURFACES SHALL BE AT 1/2" BELOW ADJACENT SURFACES.
17. ALL AREAS OF BARE SOIL, OR AREAS IMPACTED BY VEHICULAR USE OF ANY KIND, OR STORAGE OF MATERIALS SHALL RECEIVE FULL SUBGRADE PREPARATION, INCLUDING COMPOST AMENDMENTS AND SHALL RE–ESTABLISH PRE–CONSTRUCTION GRADE, ELEVATION, AND SURFACING TYPE AND SHALL BE AT CONTRACTOR'S COST.
18. THE CONTRACTOR SHALL BEGIN MAINTENANCE IMMEDIATELY FOLLOWING PLANT INSTALLATION. THE CONTRACTOR SHALL MAINTAIN THE PLANTED AREAS FOR 90 DAYS AFTER ACHIEVING COMPLETION OF PLANTING.
19. PLANT ESTABLISHMENT/MAINTENANCE PROCEDURES SHALL INCLUDE WATERING, PROTECTION FROM INSECTS OR DISEASE, WEEDING, PRUNING, MOWING, AND OTHER ACTIVITIES AS MAY BE REQUIRED AND AS IDENTIFIED IN SECTION 32–9300 AND OTHER RELATED SECTIONS. CONTRACTOR SHALL IMMEDIATELY REPLACE ANY PLANT MATERIALS THAT ARE NOT VIGOROUS OR TYPICAL OF SIZE AND SPECIES. TREE STAKES SHALL BE KEPT SECURE AT ALL TIMES. DEFECTIVE MATERIALS AS DETERMINED BY THE LANDSCAPE ARCHITECT SHALL BE REPLACED IMMEDIATELY WITH PLANT MATERIALS OF THE SAME SPECIES AT A SIZE TO MATCH EXISTING ADJACENT MATERIALS.
20. STANDARD COMMERCIAL GRADE FERTILIZERS AND HERBICIDES SHALL NOT BE APPLIED UNLESS THE CONTRACTOR HAS DEEMED IT NECESSARY TO PROMOTE HEALTHY AND SUSTAINABLE GROWTH. THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECT BEFORE APPLYING FERTILIZERS AND HERBICIDES.
21. TREES SHALL HAVE A MINIMUM OF ONE (1)–15 GALLON TREEGATOR OR SIMILAR SLOW RELEASE WATERING DEVICE ATTACHED TO EACH TRUNK FOR HAND AND/OR ADDITIONAL WATERING DURING DRY SEASON IF IRRIGATION IS OFF–LINE DURING THE DRY SEASON. 10–GALLONS OF WATER PER 1–INCH CALIPER IS REQUIRED PER TREE PER WEEK (3" CALIPER TREES OR GREATER SHALL HAVE 2–BAG SLOW RELEASE SYSTEM INSTALLED).
22. A MAJORITY OF THE PLANTS SELECTED ARE ALL DROUGHT TOLERANT OR DROUGHT RESISTANT, HOWEVER THEY REQUIRE WATER FOR THE FIRST TWO GROWING SEASONS IN ORDER TO ESTABLISH A VIGOROUS ROOT SYSTEM. PLANT ESTABLISHMENT SHALL BE ACHIEVED BY WATERING UTILIZING THE EXISTING IRRIGATION SYSTEM. LANDSCAPE CONTRACTOR SHALL EXTEND THE EXPAND THE EXISTING SYSTEM BY ADDING ZONES FED BY LATERAL LINES FROM AN EXTENDED MAIN LINE. THE EXISTING CONTROLLER SHALL BE REPLACED WITH LARGER/EXPANDABLE UNIT IN ORDER TO ACCOMMODATE THE NUMBER OF ZONES ADDED. SYSTEM SHALL BE A DESIGN/BUILD SYSTEM AND SHALL DELIVER UNIFORM DISTRIBUTION OF ADEQUATE WATER TO ESTABLISH ALL PLANTS AND TO ESTABLISH HEALTHY, VIGOROUS LANDSCAPE AREAS. IN ADDITION TO DISTRIBUTION AND CONVEYANCE COMPONENTS, PROVIDE AND INSTALL PROPER BACK FLOW PREVENTION TO SATISFY CODE REQUIREMENTS, PROVIDE AND INSTALL PROPER FILTRATION TO ENSURE CLOG FREE PERFORMANCE. INSTALL 4" PVC PIPE SLEEVING WITH 2' OF COVER BELOW PAVED AREAS. IF NECESSARY, GENERAL CONTRACTOR SHALL INSTALL NEW IRRIGATION WATER METER TO SUPPLY THE TEMPORARY IRRIGATION SYSTEM IF EXISTING IRRIGATION SYSTEM IS NOT EXPANDABLE.
23. ALL DISTURBED AREAS SHALL BE RE–VEGETATED WITH PNW LAWN MIX OR COMBINATION OF MULCH & PLANTS SPECIFIED IN PLANTING SCHEDULE. HYDRO–SEED MIX APPLICATION SHALL TAKE PLACE PRIOR TO BEGINNING OF WET SEASON (LATE SEPTEMBER TO MID–OCTOBER) AND SHALL BE WATERED AS NECESSARY. FENCE OR TAPE–OFF SEEDED AREAS TO PREVENT FOOT TRAFFIC FROM ENTERING THE SEEDED AREAS. THE FENCE OR SIMILAR BARRIER SHALL BE REMOVED AFTER MEADOW SEED ESTABLISHMENT.
24. CROCUS INSTALLATION AND PROTECTION AS FOLLOWS:
   - CHOOSE A LOCATION WITH PLENTY OF SUN AND INSTALL IN MIDDLE OF FALL.
   - TURN THE SOIL IN THE NEW SITE TO A DEPTH OF 4 INCHES AND DIG HOLES 3 TO 4 INCHES APART.
   - PLACE BONE MEAL OR BULB FERTILIZER IN THE BOTTOM OF EACH HOLE.
   - PLACE BULBS IN THE HOLE TIP SIDE UP AND 2 TO 3 INCHES DEEP. 2" FOR SMALLER BULBS. 3" FOR LARGER BULBS.
   - WATER THE PLANTING AREA THOROUGHLY AND COVER WITH 3 INCHES OF ORGANIC MULCH (LEAF MATTER) AND TOPSOIL MIX.
   - NEWLY–PLANTED CROCUS BULBS ARE A TREAT FOR SQUIRRELS AND CHIPMUNKS. PROTECT CROCUS BULBS FROM PESTS BY PLACING WIRE MESH (CHICKEN WIRE) OVER THE AREA BEFORE COVERING WITH SOIL TO PREVENT ANIMALS FROM BEING ABLE TO DIG UP THE BULBS.
25. AREAS USED FOR CONSTRUCTION WORKER VEHICULAR PARKING OR STORAGE THAT DEGRADE EXISTING LANDSCAPE OR HARDSCAPE CONDITIONS SHALL BE RE–ESTABLISHED TO PRE–EXISTING GRADE, ELEVATION, AND SURFACING TYPE AND SHALL BE AT CONTRACTOR'S COST.
26. UPON COMPLETION OF THE TWO–YEAR WARRANTY PERIOD, THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR FINAL INSPECTION TO THE ARCHITECT. AN INSPECTION SHALL BE CONDUCTED WITH THE LANDSCAPE ARCHITECT, OWNER'S REPRESENTATIVE, AND THE CONTRACTOR PRESENT. FOLLOWING REPLACEMENT OR REPAIR OF DEFICIENT ITEMS NOTED IN THE INSPECTION; A NOTIFICATION OF ACCEPTANCE OF WORK SHALL BE ISSUED BY THE ARCHITECT.

H GENERAL PLANTING NOTES
nts

RMG ARCHITECTS
RMG Architects, PLLC • 1223 Railroad Avenue• Bellingham, WA 98225
P:360.676.7733 • F:360.738.0448 • rmg@rmgarchitects.com

STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
SCOTT CHRISTOPER RIGGINS
CERTIFICATE NO. 1254

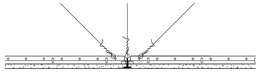
Archdiocese of Seattle
St. Andrew Catholic Church Parish Hall
1401 Valley Avenue, Sumner, Washington, 98390

Job No: 18126 Date: 02-07-2020
File No: 1812SLA7.DWG
Drawn By: SCR
Checked By: HAF
Issued for: PERMIT SET

LANDSCAPE DETAILS AND NOTES

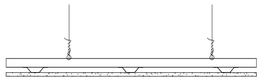
L4

## CEILING ASSEMBLIES



C2

**CEILING ASSEMBLY - LAY-IN ACOUSTIC CEILING TILE**
- LAY-IN ACOUSTIC CEILING TILE GRID AND SUPPORT SYSTEM
- ACOUSTIC CEILING TILE PER FINISH SCHEDULE



C1

**CEILING ASSEMBLY - GYPSUM CEILING & SOFFIT**
- TRANSVERSE RUNNER TRACK HUNG BY SPACED HANGER WIRE
- METAL FURRING CHANNELS AT 16" O.C.
- 1/2" GYPSUM WALL BOARD



C3

**GYPSUM CEILING WITH GLUE-ON TILES**
- JOIST OR TRUSS PER STRUCTURAL
- 1/2" GYPSUM WALL BOARD
- GLUE-ON ACOUSTIC CEILING TILES PER SPEC

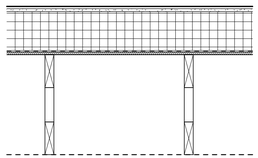
*SEE REFLECTED CEILING PLAN FOR CEILING PANEL LAYOUT

C4

**FRAMED STRUCTURE WITH GYPSUM CEILING**
- WOOD FRAMING*
- 1/2" GYPSUM WALL BOARD

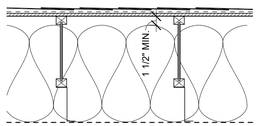
*SEE WALL SECTIONS AND DETAILS FOR SOFFIT FRAMING

## ROOF ASSEMBLIES - STANDARD FRAMING



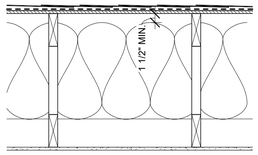
R3

**ROOF / CEILING ASSEMBLY**
- FULLY ADHERED TPO ROOF
- FULLY ANCHORED 1/2" GLASS MAT COVER BOARD
- 6 1/2" RIGID INSULATION (R-38)
- VAPOR BARRIER
- PLYWOOD SHEATHING PER STRUCTURAL
- MANUFACTURED TRUSS PER STRUCTURAL
- CEILING BELOW PER REFLECTED CEILING PLAN




R2

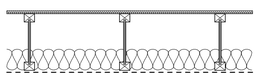
**ROOF / CEILING ASSEMBLY**
- LAMINATED ASPHALTIC SHINGLES
- WEATHER RESISTIVE BARRIER
- PLYWOOD ROOF SHEATHING PER STRUCTURAL
- TJI PER STRUCTURAL
- 1-1/2" CONTINUOUS AIR GAP
- R-60 FACED BATT INSULATION WITH VINYL STRAPPING, STAGGER BATT JOINTS, TYPICAL
- METAL Z FURRING CHANNEL
- CEILING BELOW PER REFLECTED CEILING PLAN




R1

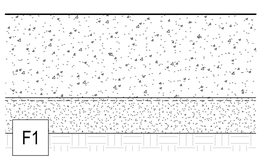
**ROOF / CEILING ASSEMBLY**
- LAMINATED ASPHALTIC SHINGLES
- WEATHER RESISTIVE BARRIER
- PLYWOOD ROOF SHEATHING PER STRUCTURAL
- MANUFACTURED TRUSS PER STRUCTURAL
- 1-1/2" CONTINUOUS AIR GAP
- R-60 FACED BATT INSULATION WITH VINYL STRAPPING, STAGGER BATT JOINTS, TYPICAL
- CEILING BELOW PER REFLECTED CEILING PLAN

## FLOOR ASSEMBLIES



F2

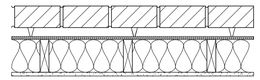
**MECHANICAL PLATFORM FLOOR/CEILING**
- PLYWOOD SHEATHING - SEE STRUCTURAL
- 11 1/8" I-JOISTS - SEE STRUCTURAL
- 3 1/2" ACOUSTICAL BATT INSULATION IN JOIST BAY
- CEILING PER REFLECTED CEILING PLAN



F1

**CONCRETE MAT SLAB**
- FLOOR FINISH PER FINISH PLAN
- 14" REINFORCED CONCRETE MAT SLAB - SEE STRUCTURAL
- UNDER SLAB VAPOR RETARDER
- 6" PEA GRAVEL CAPILLARY BREAK
- MIN. 18" COMPACTED STRUCTURAL FILL PER GEOTECH REPORT

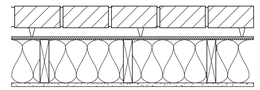
## EXTERIOR WALL ASSEMBLIES - STANDARD FRAMING



E6

**EXTERIOR WALL WITH BRICK VENEER**
- BRICK VENEER TO MATCH CHURCH
- 1-1/2" AIR GAP WITH SEISMIC TIES
- VAPOR PERMEABLE WEATHER RESISTANT BARRIER
- PLYWOOD SHEATHING
- 2X6 WOOD STUDS PER STRUCTURAL
- R-21 BATT INSULATION
- 5/8" GYPSUM WALL BOARD

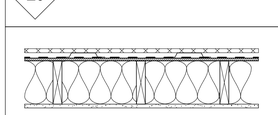
**LOAD-BEARING**



E5

**EXTERIOR WALL WITH BRICK VENEER**
- BRICK VENEER TO MATCH CHURCH
- 1-1/2" AIR GAP WITH SEISMIC TIES
- VAPOR PERMEABLE WEATHER RESISTANT BARRIER
- PLYWOOD SHEATHING
- 2X8 WOOD STUDS PER STRUCTURAL
- R-25 BATT INSULATION
- 5/8" GYPSUM WALL BOARD

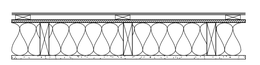
**LOAD-BEARING**



E4

**EXTERIOR WALL WITH STUCCO SIDING**
- STUCCO
- METAL LATH
- 3/4" VERTICAL GALVANIZED HAT CHANNELS
- VAPOR PERMEABLE WEATHER RESISTANT BARRIER
- PLYWOOD SHEATHING
- 2X8 WOOD STUDS PER STRUCTURAL / FURRING
- R-25 BATT INSULATION
- 5/8" GYPSUM WALL BOARD

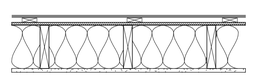
**LOAD-BEARING**



E3

**EXTERIOR WALL WITH SIDING**
- SIDING PER ELEVATION
- 3/4" VERTICAL FURRING STRIPS
- VAPOR PERMEABLE WEATHER RESISTANT BARRIER
- PLYWOOD SHEATHING
- 2X6 WOOD STUDS PER STRUCTURAL
- R-21 BATT INSULATION
- 5/8" GYPSUM WALL BOARD

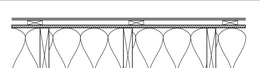
**LOAD-BEARING**



E2

**2X8 OR LVL EXTERIOR WALL WITH SIDING**
- SIDING PER ELEVATION
- 3/4" VERTICAL FURRING STRIPS
- VAPOR PERMEABLE WEATHER RESISTANT BARRIER
- PLYWOOD SHEATHING
- 2X8 WOOD STUDS PER STRUCTURAL
- R-25 BATT INSULATION
- 5/8" GYPSUM WALL BOARD

**LOAD-BEARING**



E1

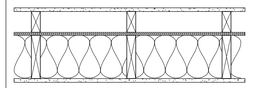
**2X10 OR LVL EXTERIOR WALL WITH SIDING**
- SIDING PER ELEVATION
- 3/4" VERTICAL FURRING STRIPS
- VAPOR PERMEABLE WEATHER RESISTANT BARRIER
- PLYWOOD SHEATHING
- 2X10 WOOD STUDS PER STRUCTURAL
- R-25 BATT INSULATION
- 5/8" GYPSUM WALL BOARD

**LOAD-BEARING**

## INTERIOR WALL ASSEMBLIES - STANDARD FRAMING

W6

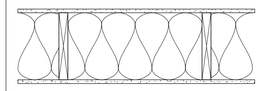
**INTERIOR FURRING WALL**
- 2x STUDS
- 5/8" TYPE X GYPSUM WALL BOARD



W5

**2X8 AND 2X4 WOOD FRAMED COMPOUND SHEAR WALL**
- 5/8" TYPE X GYPSUM WALL BOARD
- 2x4 STUDS PER STRUCTURAL
- 1/2" PLYWOOD SHEATHING
- 2X8 STUDS PER STRUCTURAL
- UNFACED GLASS FIBER SOUND BATT INSULATION, FULL STUD DEPTH
- 5/8" TYPE X GYPSUM WALL BOARD

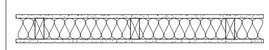
**1-HOUR FIRE RATED AT KITCHEN LOCATION**



W4

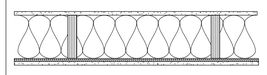
**INTERIOR WALL ASSEMBLY**
- 5/8" TYPE X GYPSUM WALL BOARD
- 2x12 STUDS PER STRUCTURAL
- UNFACED GLASS FIBER SOUND BATT INSULATION, FULL STUD DEPTH
- 5/8" TYPE X GYPSUM WALL BOARD

**1-HOUR FIRE RATED AT KITCHEN LOCATION**



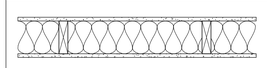
W3

**INTERIOR WALL ASSEMBLY**
- 5/8" TYPE X GYPSUM WALL BOARD
- 2x4 STUDS PER STRUCTURAL
- UNFACED GLASS FIBER SOUND BATT INSULATION, FULL STUD DEPTH
- 5/8" TYPE X GYPSUM WALL BOARD



W2

**INTERIOR SHEAR WALL**
- 5/8" TYPE X GYPSUM WALL BOARD
- LVL PER STRUCTURAL
- GLASS FIBER SOUND BATT INSULATION
- 1/2" PLYWOOD SHEATHING
- 5/8" TYPE X GYPSUM WALL BOARD



W1

**INTERIOR WALL ASSEMBLY**
- 5/8" TYPE X GYPSUM WALL BOARD
- 2x6 STUDS PER STRUCTURAL
- GLASS FIBER SOUND BATT INSULATION
- 5/8" TYPE X GYPSUM WALL BOARD

**1-HOUR FIRE RATED AT KITCHEN LOCATION**

RMC ARCHITECTS

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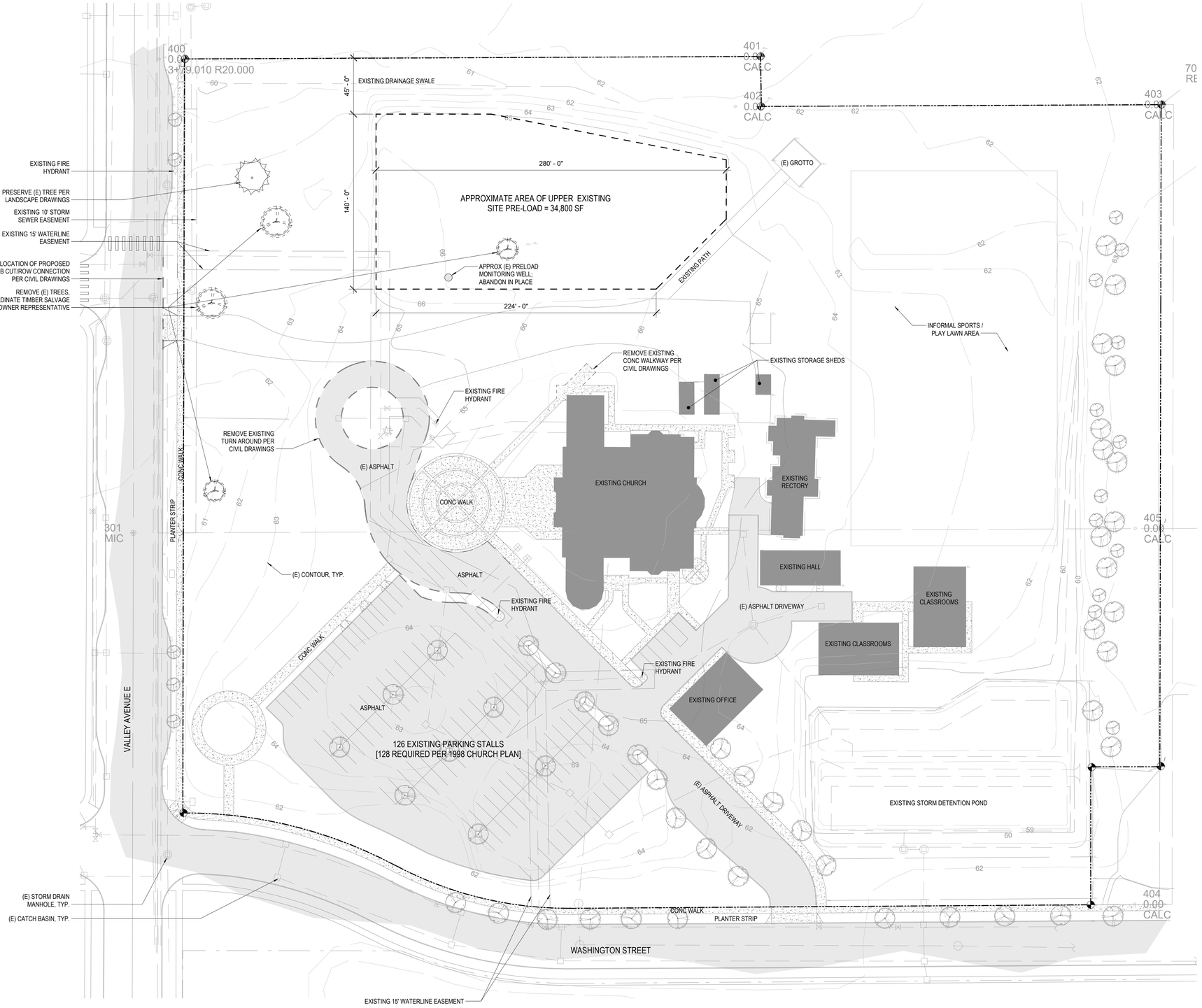
8979 REGISTERED ARCHITECT
BRADLEY P. CORNWELL
STATE OF WASHINGTON

Archdiocese of Seattle
St. Andrew Catholic Church Parish Hall
1401 Valley Avenue East
Sumner, WA 98390-2720

Job No: 1851 Date: 2020-02-07
File No: 1851 St. Andrew Parish Hall
Drawn By: AMR
Checked By: BPC
Issued for: PERMIT SET

ASSEMBLIES

A001




## SHEET NOTES

1. REFER TO CIVIL DRAWINGS FOR ADDITIONAL EXISTING SITE ELEMENTS, SITE CONDITIONS, AND PROPOSED NEW IMPROVEMENTS.
2. PROTECT ALL EXISTING STRUCTURES AND UTILITIES.
3. SEE LANDSCAPE DRAWINGS FOR ALL NEW LANDSCAPE AND IRRIGATION IMPROVEMENTS.
4. ALL GENERAL NOTES HEREIN APPLY TO ALL TRADES FOR THE PROJECT AMENDED ELSEWHERE TO INCLUDE ISOLATED CONDITIONS.
5. THE DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN, AND EXTENT OF THE WORK AND ARE PARTLY DIAGRAMMATIC - THEY ARE NOT INTENDED TO BE SCALED.
6. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSIDERED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.
7. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY ALL GRADE LINES, LEVELS, CONDITIONS, AND DIMENSIONS AT THE JOB SITE AND AS SHOWN ON THE DRAWINGS. THEY SHALL REPORT ANY ERRORS OF INCONSISTENCIES IN THE ABOVE TO THE OWNER / ARCHITECT BEFORE COMMENCING WORK.
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   A. THE CONTRACTOR IS RESPONSIBLE AND SHALL COMPLY WITH THE REQUIREMENTS OF THE BUILDING CODE HAVING JURISDICTION AND ALL LOCAL, STATE, AND FEDERAL LAWS.
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2 Existing Site Plan
1" = 40'-0"

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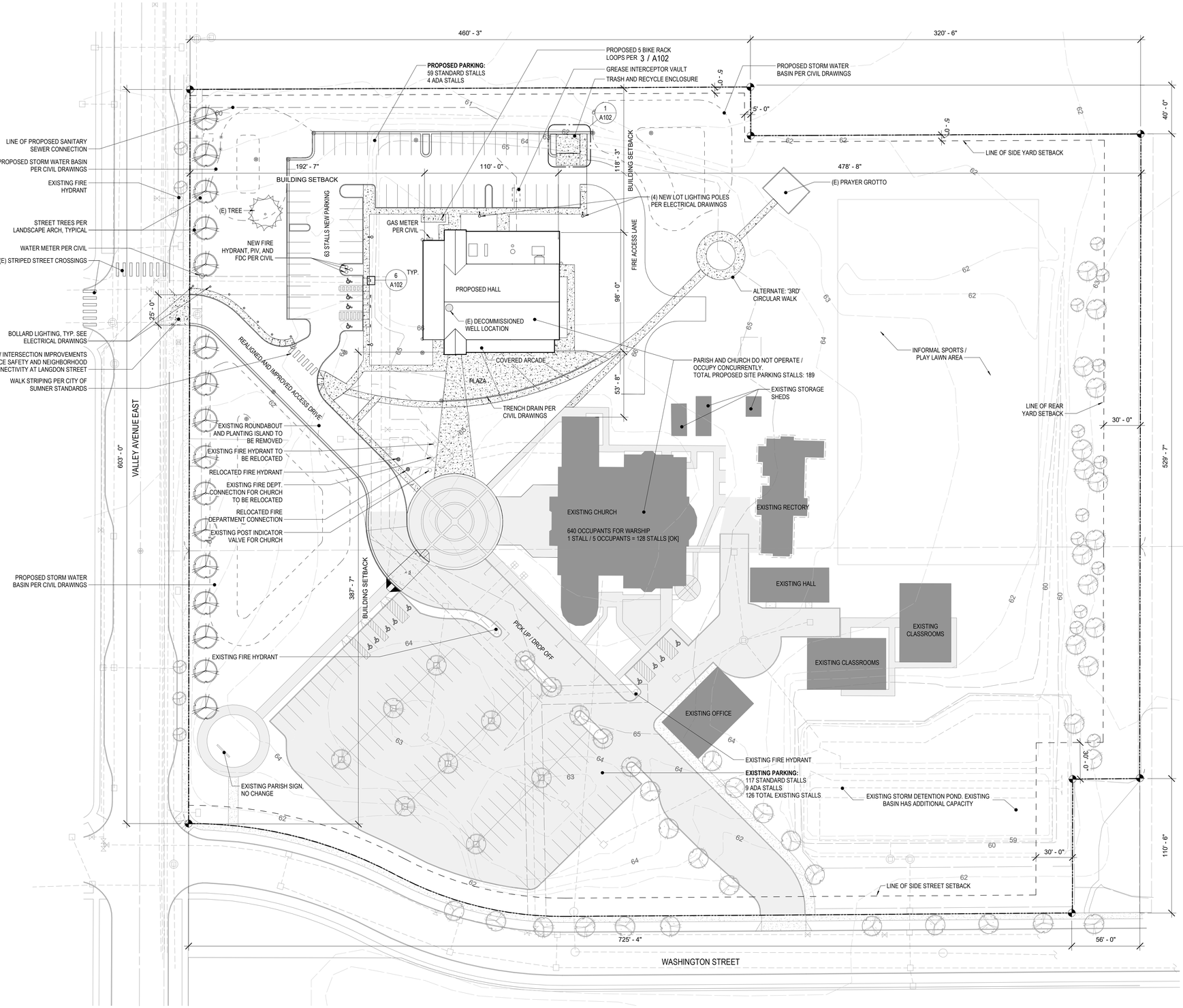
Archdiocese of Seattle
St. Andrew Catholic Church Parish Hall
1401 Valley Avenue East
Sumner, WA 98390-2720

Job No: 1851 Date: 2020-02-07
File No: 1851 St. Andrew Parish Hall
Drawn By: JW, AMR
Checked By: BPC
Issued for: PERMIT SET

EXISTING SITE PLAN

A100




1 Site Plan
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6979 REGISTERED ARCHITECT
BRADLEY P. CORNWELL
STATE OF WASHINGTON

Archdiocese of Seattle
# St. Andrew Catholic Church Parish Hall
1401 Valley Avenue East
Sumner, WA 98390-2720

Job No: 1851 Date: 2020-02-07
File No: 1851 St. Andrew Parish Hall
Drawn By: AMR
Checked By: BPC
Issued for: PERMIT SET

SITE PLAN

A101

## SHEET NOTES

1. DIMENSIONS SHOWN ARE FROM FACE OF STRUCTURE, TYPICAL, UNLESS NOTED OTHERWISE. SEE ASSEMBLIES FOR ADDITIONAL INFORMATION.
2. PROVIDE WALL BACKING AT LOCATIONS PER PLAN, ENLARGED PLANS, AND INTERIOR ELEVATIONS, TYPICAL AT ALL CASEWORK AND WALL MOUNTED ITEMS. CONTRACTOR TO COORDINATE LOCATIONS AND EXTENTS OF WALL BACKING WITH PLANS, ENLARGED PLANS, AND INTERIOR ELEVATIONS.
3. PROVIDE FIRE CAULKING AND FIRE STOPPING AT PENETRATIONS IN FIRE RESISTANCE RATED ASSEMBLES.
4. PROVIDE STAINLESS STEEL 'C' OR 'U' CORNER GUARDS, EXTEND 48" ABOVE FINISHED FLOOR, TYPICAL.
5. SEE CIVIL FOR ALL EXTERIOR PAVING, WALKS, CURBS, APRONS, AND GRADING
6. SEE SPECIFICATIONS FOR ALL FOIO ITEMS, TYPICAL.
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13. THE CONTRACTOR SHALL USE THE VENDOR / STRUCTURAL DRAWINGS TOGETHER WITH THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS TO LOCATE DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENINGS, REGLETS, BOLT SETTINGS, SLEEVES, DIMENSIONS, ETC. POTENTIAL CONFLICTS SHALL BE TRANSMITTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
14. SOME CONNECTIONS INDICATED IN THE DRAWINGS ARE SCHEMATIC, SECURE ALL COMPONENTS RIGIDLY TO STRUCTURE AND EACH OTHER. USE FASTENERS DESIGNED FOR EACH INSERVICE CONNECTION
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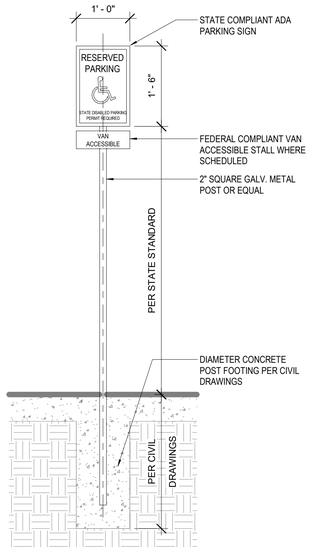
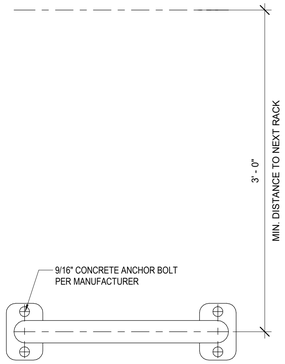
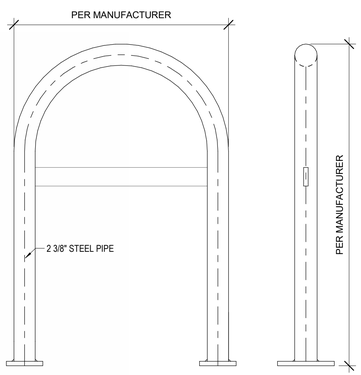



6 ADA Parking Sign
3/4" = 1'-0"






PRODUCT DETAILS:

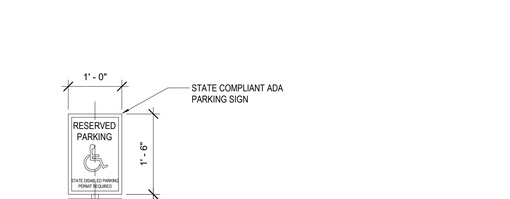
MANUFACTURER: URBAN RACKS

MODEL: URBAN STAPLE - UB-1000-STD

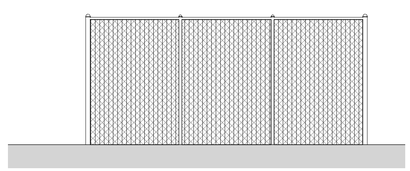
INSTALLATION: SURFACE MOUNT

FINISH: GALVANIZED

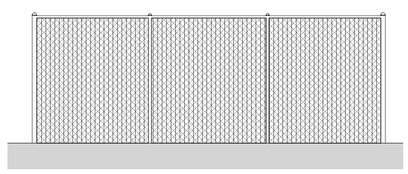
3 Bike Rack Detail
1 1/2" = 1'-0"



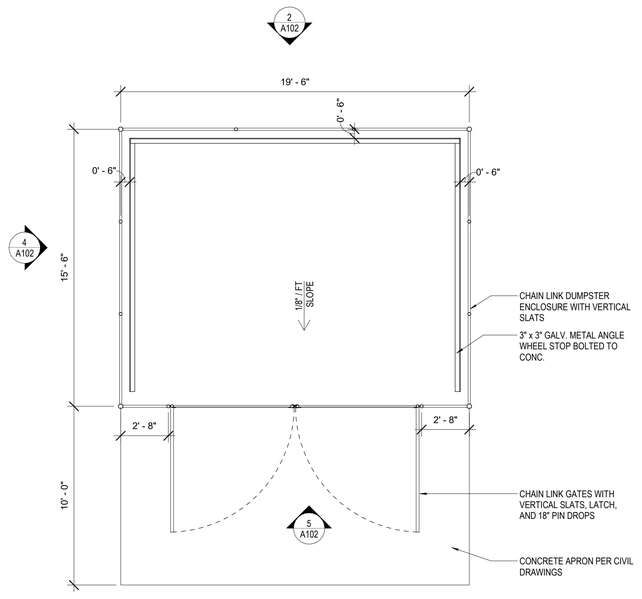

5 Dumpster Enclosure South
1/4" = 1'-0"



4 Dumpster Enclosure West (EAST SIM.)
1/4" = 1'-0"



2 Dumpster Enclosure North
1/4" = 1'-0"




1 Dumpster Enclosure
1/4" = 1'-0"

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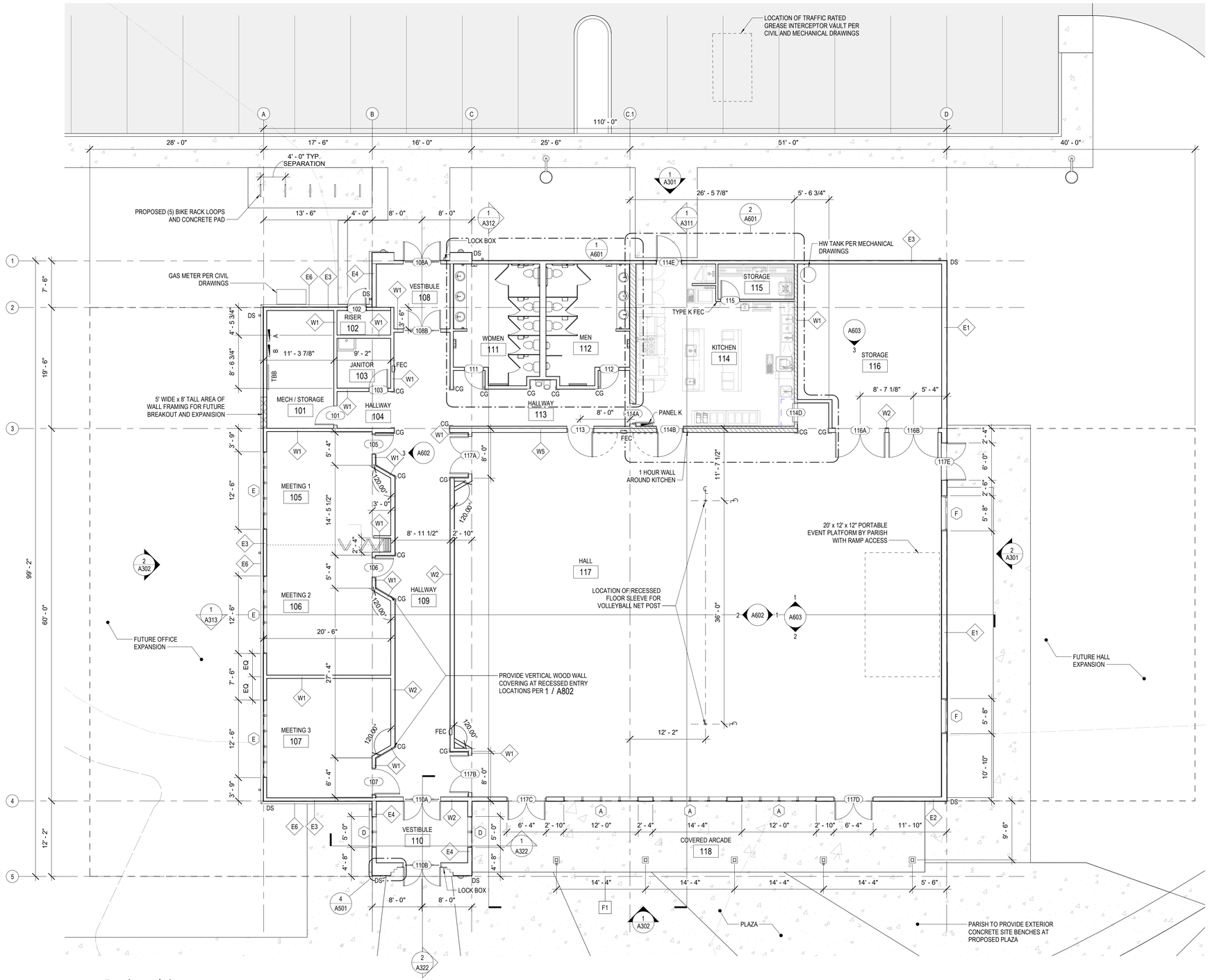
8979 REGISTERED ARCHITECT
BRADLEY P. CORNWELL
STATE OF WASHINGTON

Archdiocese of Seattle
St. Andrew Catholic Church Parish Hall
1401 Valley Avenue East
Sumner, WA 98390-2720

Job No: 1851 Date: 2020-02-07
File No: 1851 St. Andrew Parish Hall
Drawn By: AMR
Checked By: BPC
Issued for: PERMIT SET

SITE DETAILS

A102




1 Level 1
1/8" = 1'-0"

## SHEET NOTES

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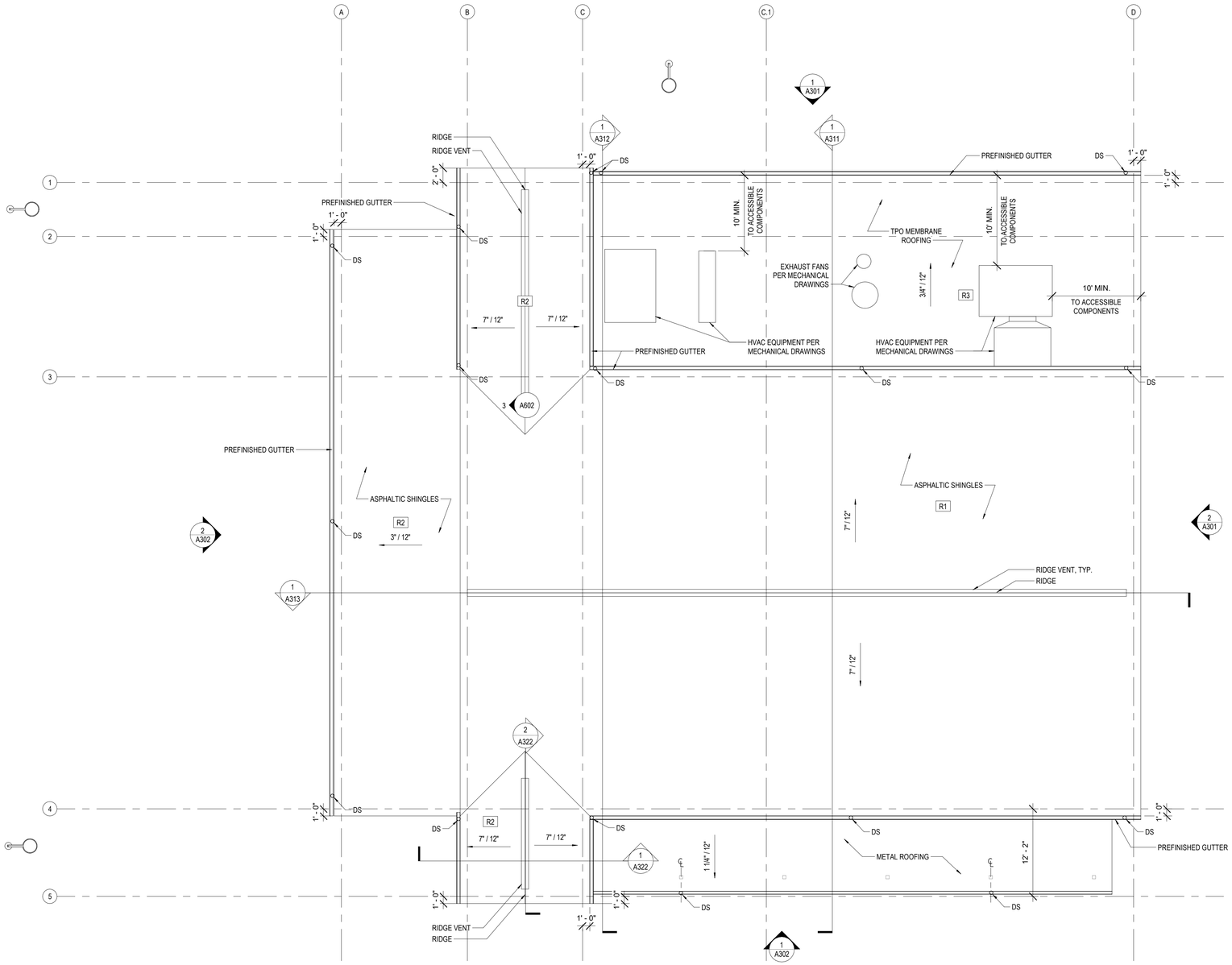
Job No: 1851 Date: 2020-02-07
File No: 1851 St. Andrew Parish Hall
Drawn By: AMR
Checked By: BPC
Issued for: PERMIT SET

FLOOR PLAN

A201




1 Roof Plan

1/8" = 1'-0"

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Job No: 1851 Date: 2020-02-07
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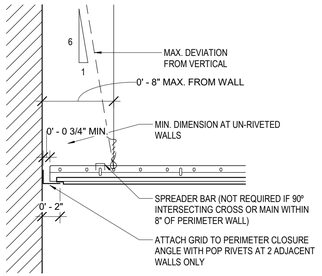
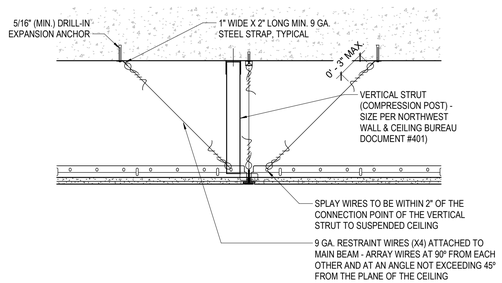
ROOF PLAN

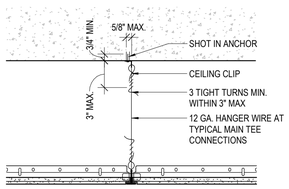
A202



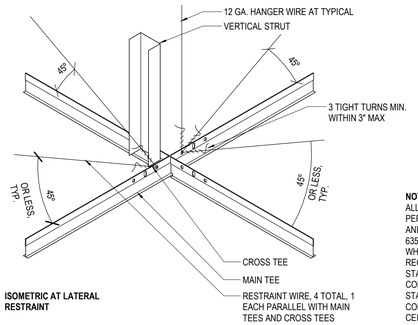

**SUSPENDED CEILING LATERAL BRACING AT WALL**




**SUSPENDED CEILING LATERAL RESTRAINT AT 12'-0" O.C. MAX.**




**SUSPENDED CEILING MAIN TEE HANGER AT 4'-0" O.C.**

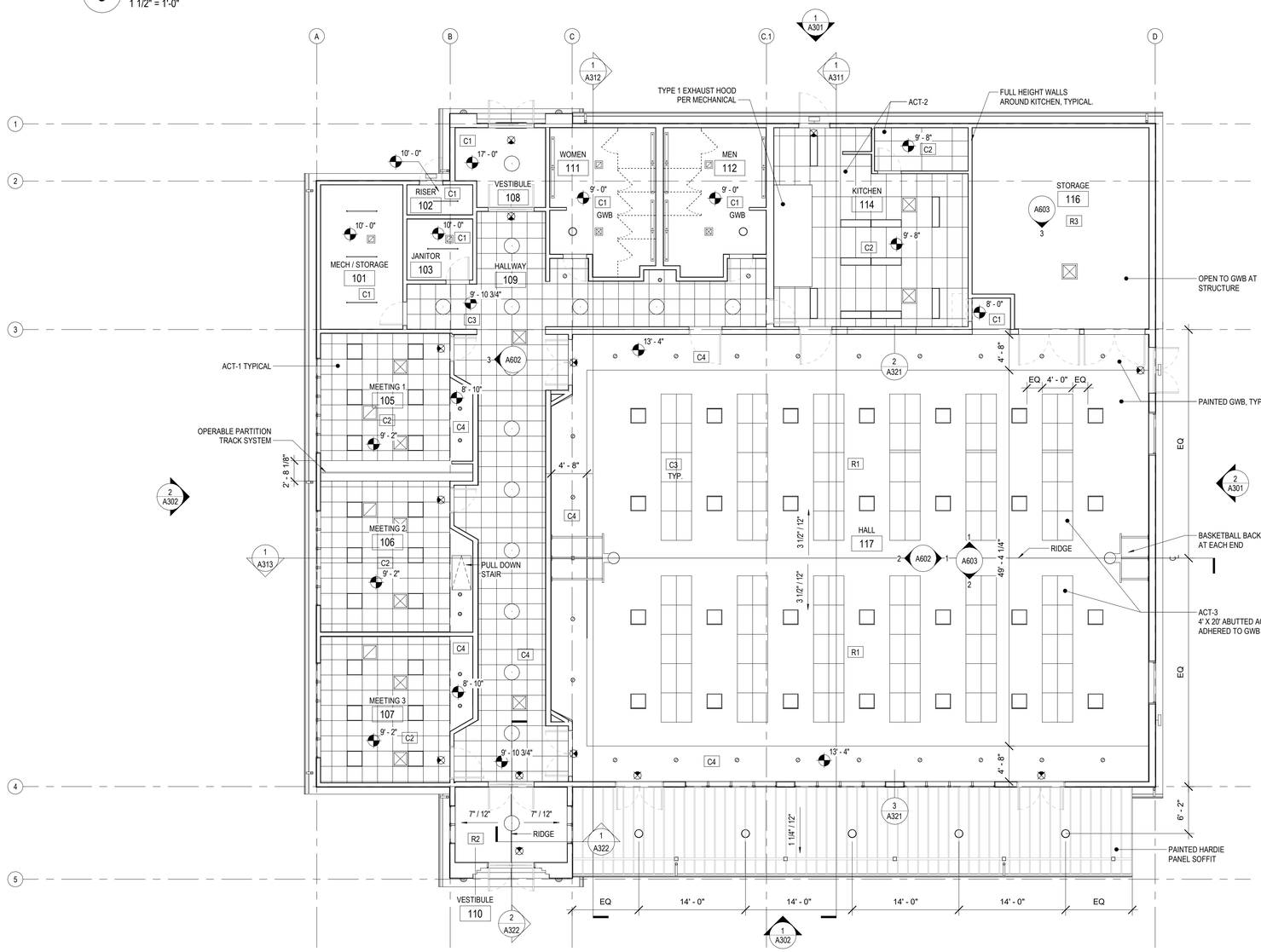



**ISOMETRIC AT LATERAL RESTRAINT**

**NOTE:**
ALL NEW SUSPENDED CEILINGS ARE TO BE CONSTRUCTED PER IBC VERTICAL AND LATERAL RESTRAINT REQUIREMENTS AND ASCE 7-10 13.5.6.2.2 AND THE APPLICABLE ASTM (ASTM C 635, ASTM C 636, ASTM E 580/E 580M) AND CISCA STANDARDS. WHERE IBC, ASCE, ASTM, AND CISCA STANDARDS AND REQUIREMENTS CONFLICT WITH THE DRAWINGS THE NOTED STANDARDS AND REQUIREMENTS SHALL GOVERN. CONTRACTOR IS TO VERIFY ALL REQUIREMENTS. REFERENCE STANDARDS PER HIERARCHY: IBC, ASCE, ASTM, CISCA. CONSULT NWCB TECHNICAL DOCUMENT 401 "SUSPENDED CEILINGS" FOR ADDITIONAL INFORMATION.

## 3 Lateral Support of Suspanded Ceiling

1 1/2" = 1'-0"




## 1 Reflected Ceiling Plan

1/8" = 1'-0"

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## RCP Legend

- LED FIXTURE
- RECESSED CAN
- WALL SCONCE
- EXIT FIXTURE
- SURFACE MOUNT
- RECESSED WALL WASHER
- LED OR XENON STRIP
- TRACK LIGHT
- EXTERIOR SCONCE
- PENDANT LARGE
- PENDANT MEDIUM
- PENDANT SMALL, DIRECTIONAL
- CEILING FAN, PENDANT STEM HUNG
- EMERGENCY EXIT LIGHTING AND SIGNAGE

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REFLECTED CEILING PLAN

A210

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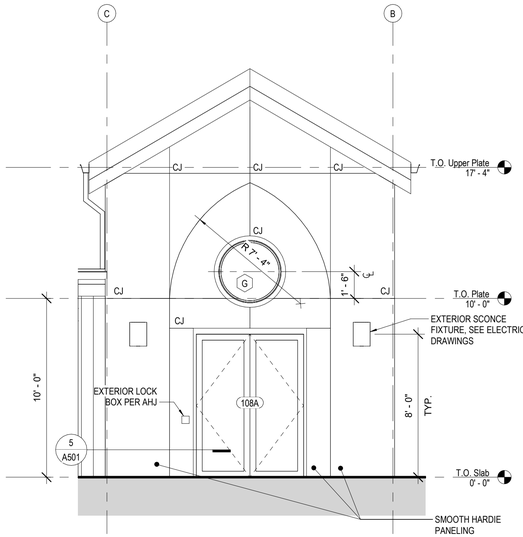


3 Enlarged North Entrance Elevation
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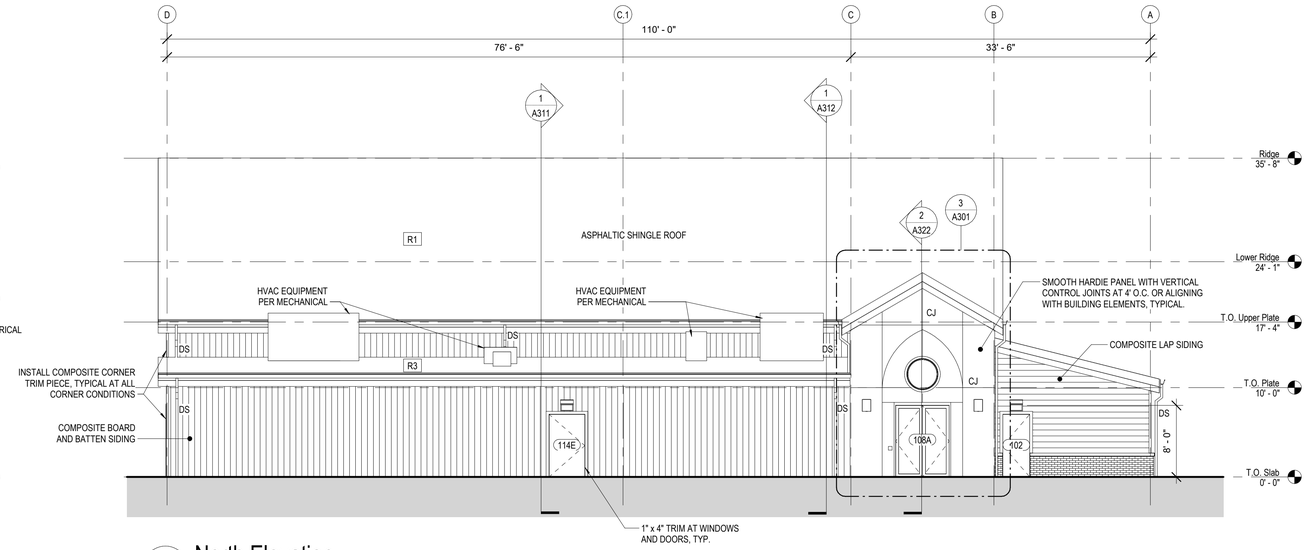


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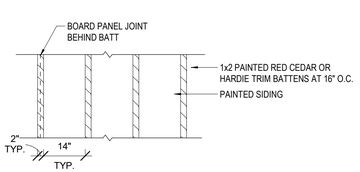
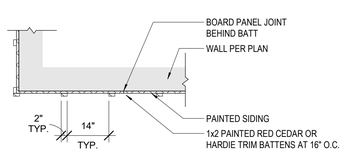
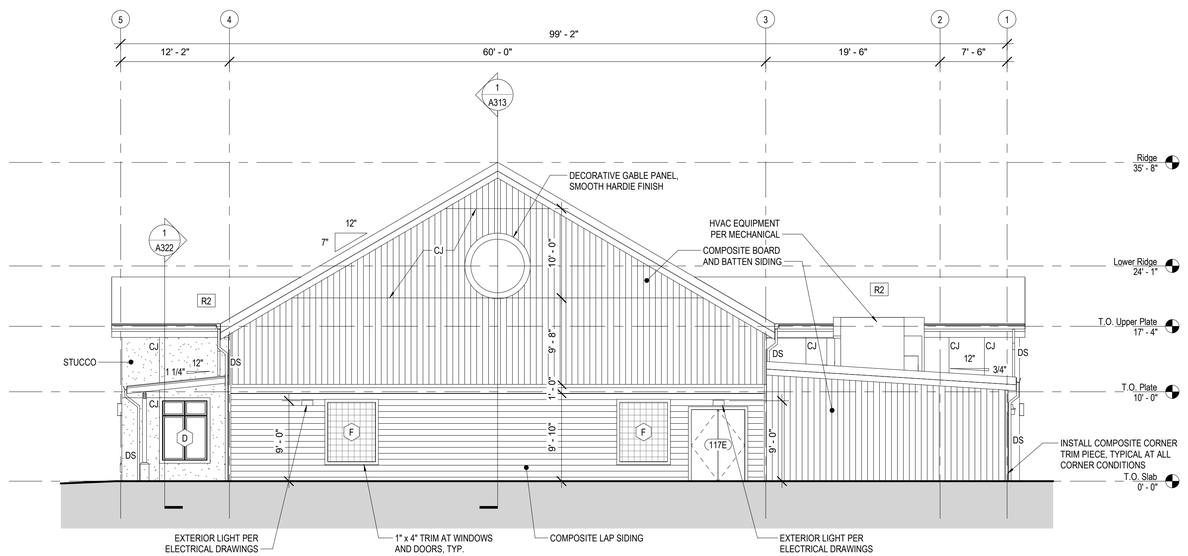
1/8" = 1'-0"




4 Board and Batten Pattern
1/2" = 1'-0"




5 Outside Corner Siding
1/2" = 1'-0"




2 East Elevation
1/8" = 1'-0"

- STUCCO, WITH CONTROL JOINTS PER ELEVATION
- SMOOTH HARDIE PANELING WITH CONTROL JOINTS PER ELEVATION
- COMPOSITE LAP SIDING
- COMPOSITE BOARD AND BATTEN SIDING
- BRICK VENEER


RMC ARCHITECTS
RMC Architects, PLLC • 1223 Railroad Avenue• Bellingham, WA 98225
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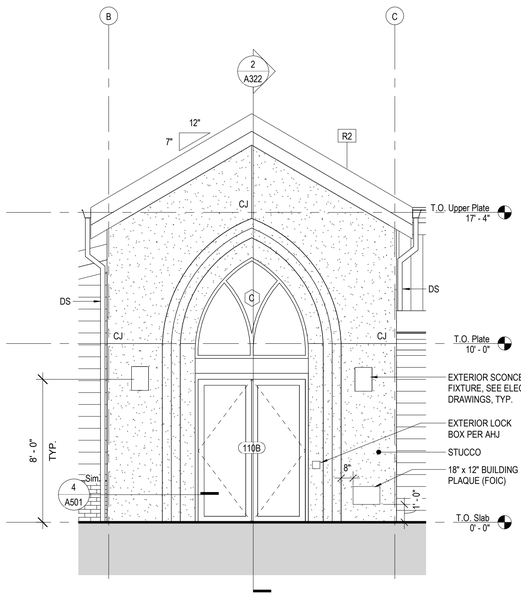
6979 REGISTERED ARCHITECT
BRADLEY P. CORNWELL
STATE OF WASHINGTON

Archdiocese of Seattle
St. Andrew Catholic Church Parish Hall
1401 Valley Avenue East
Sumner, WA 98390-2720

Job No: 1851 Date: 2020-02-07
File No: 1851 St. Andrew Parish Hall
Drawn By: AMR
Checked By: BPC
Issued for: PERMIT SET

BUILDING ELEVATIONS

A301

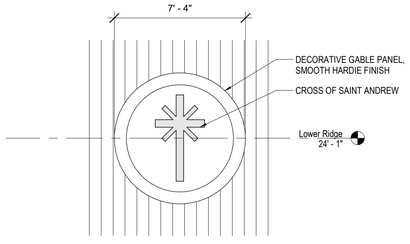



## 3 Enlarged South Entrance Elevation

1/4" = 1'-0"

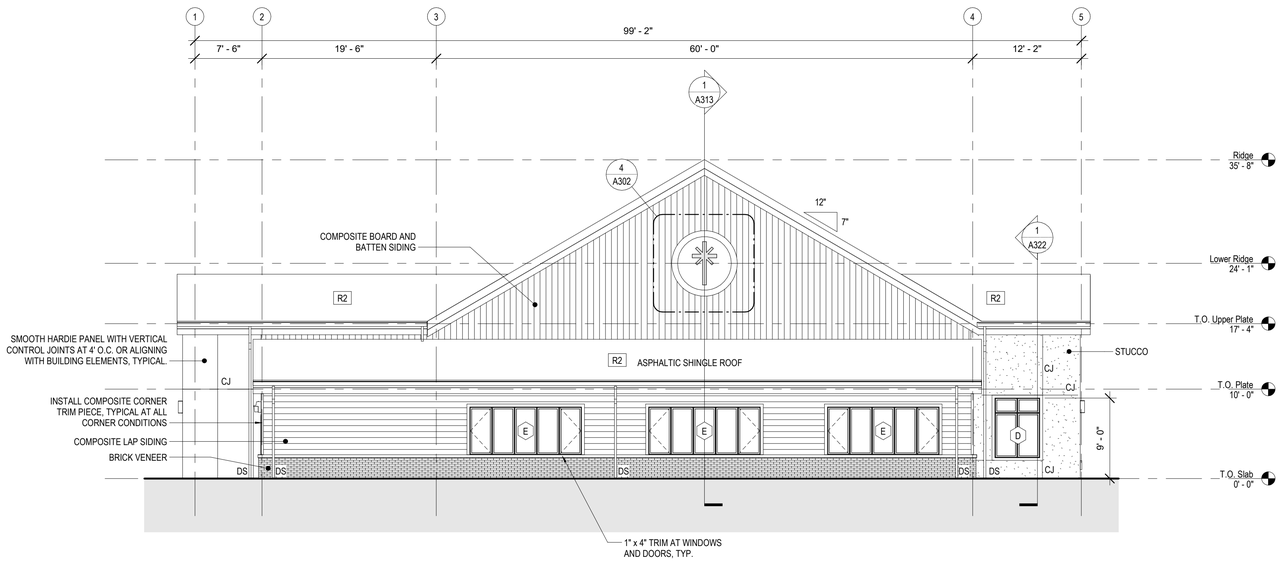
## 1 South Elevation

1/8" = 1'-0"




## 4 Enlarged Decorative Gable Cross

1/4" = 1'-0"




## 2 West Elevation

1/8" = 1'-0"

STUCCO, WITH CONTROL JOINTS PER ELEVATION

SMOOTH HARDIE PANELING WITH CONTROL JOINTS PER ELEVATION

COMPOSITE LAP SIDING

COMPOSITE BOARD AND BATTEN SIDING

BRICK VENEER

## SHEET NOTES

1. DIMENSIONS SHOWN ARE FROM FACE OF STRUCTURE, TYPICAL, UNLESS NOTED OTHERWISE. SEE ASSEMBLIES FOR ADDITIONAL INFORMATION.
2. PROVIDE WALL BACKING AT LOCATIONS PER PLAN, ENLARGED PLANS, AND INTERIOR ELEVATIONS, TYPICAL AT ALL CASEWORK AND WALL MOUNTED ITEMS. CONTRACTOR TO COORDINATE LOCATIONS AND EXTENTS OF WALL BACKING WITH PLANS, ENLARGED PLANS, AND INTERIOR ELEVATIONS.
3. PROVIDE FIRE CAULKING AND FIRE STOPPING AT PENETRATIONS IN FIRE RESISTANCE RATED ASSEMBLES.
4. SEE CIVIL FOR ALL EXTERIOR PAVING, WALKS, CURBS, APRONS, AND GRADING
5. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY ALL GRADE LINES, LEVELS, CONDITIONS, AND DIMENSIONS AT THE JOB SITE AND AS SHOWN ON THE DRAWINGS. THEY SHALL REPORT ANY ERRORS OF INCONSISTENCIES IN THE ABOVE TO THE OWNER / ARCHITECT BEFORE COMMENCING WORK.
6. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL LAY OUT THEIR WORK FROM ESTABLISHED REFERENCE POINTS AND BE ESTABLISHED REFERENCE POINTS AND BE RESPONSIBLE FOR ALL LINES, ELEVATIONS, AND MEASUREMENTS IN CONNECTION WITH THEIR OWN SCOPE.
7. IF ANY UNCERTAINTIES APPEAR IN THE DRAWINGS, SPECIFICATIONS, OR OTHER DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE PROJECT MGR. / ARCHITECT IN WRITING OF SUCH ITEMS PRIOR TO PROCEEDING WITH ANY WORK WHICH APPEARS IN QUESTION. IN THE EVENT OF THE CONTRACTOR'S FAILING TO GIVE SUCH NOTICE, THEY SHALL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH OMISSIONS AND THE COST OF RECTIFYING THE SAME. THE CONTRACTOR SHALL HAVE ALL ITEMS OR DETAILS CLARIFIED WITH THE PROJECT MGR. / ARCHITECT PRIOR TO SUBMITTING A BID; OTHERWISE THE ARCHITECT'S INTERPRETATION SHALL BE FINAL.
8. THE CONTRACTOR SHALL USE THE VENDOR / STRUCTURAL DRAWINGS TOGETHER WITH THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS TO LOCATE DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENINGS, REGLETS, BOLT SETTINGS, SLEEVES, DIMENSIONS, ETC. POTENTIAL CONFLICTS SHALL BE TRANSMITTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
9. SOME CONNECTIONS INDICATED IN THE DRAWINGS ARE SCHEMATIC, SECURE ALL COMPONENTS RIGIDLY TO STRUCTURE AND EACH OTHER. USE FASTENERS DESIGNED FOR EACH INSERVICE CONNECTION
10. OBTAIN CLARIFICATION AND INTERPRETATION OF DRAWINGS AND SPECIFICATIONS, INCLUDING ADDITIONAL DETAIL, DIRECTLY FROM ARCHITECT / PROJECT MANAGER.

RMC ARCHITECTS
RMC Architects, PLLC • 1223 Railroad Avenue• Bellingham, WA 98225
P:360.676.7733 • F:360.738.0448 • rmc@rmcarchitects.com

6979 REGISTERED ARCHITECT
BRADLEY P. CORNWELL
STATE OF WASHINGTON

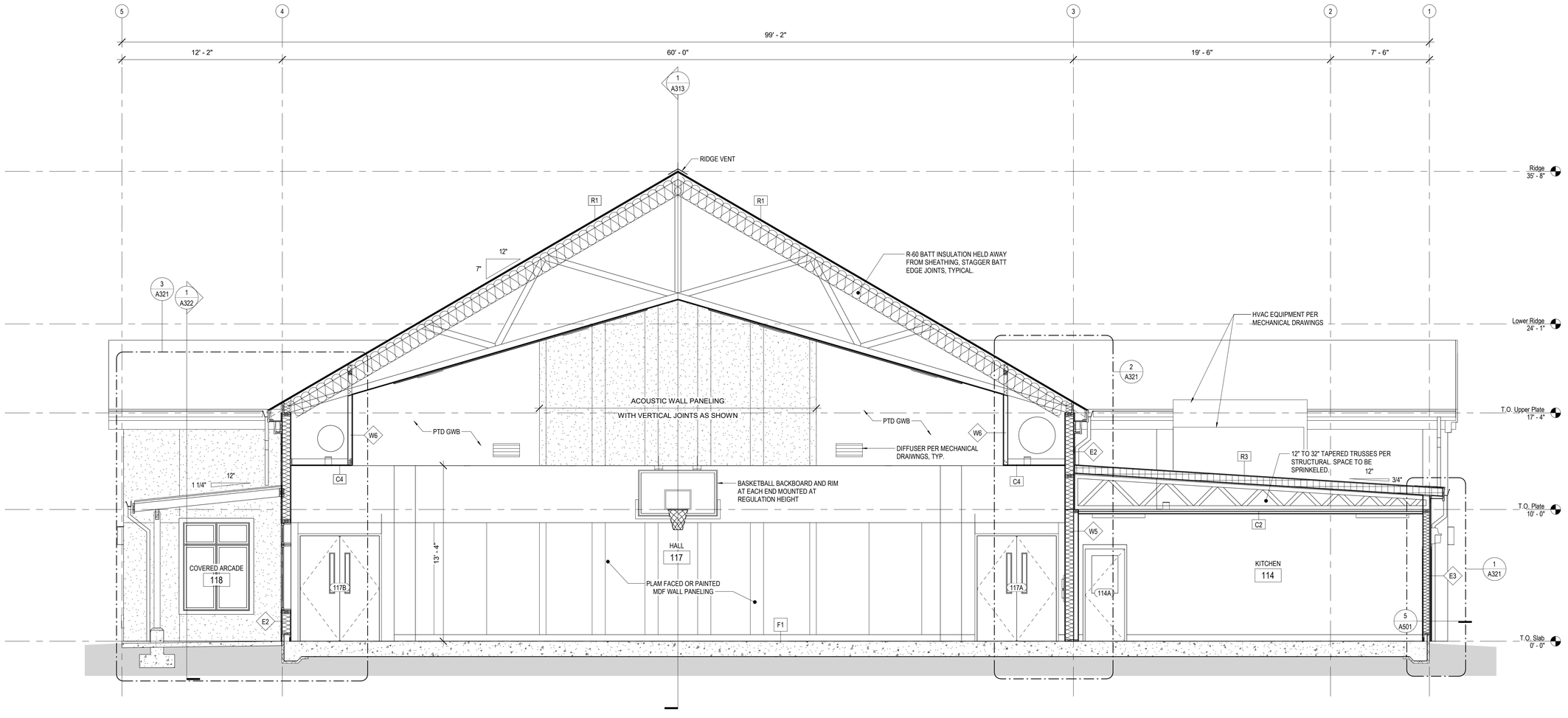
Archdiocese of Seattle
# St. Andrew Catholic Church
1401 Valley Avenue East
Sumner, WA 98390-2720

Parish Hall

Job No: 1851 Date: 2020-02-07
File No: 1851 St. Andrew Parish Hall
Drawn By: AMR
Checked By: BPC
Issued for: PERMIT SET

BUILDING ELEVATIONS

A302




1 N-S Section 1

1/4" = 1'-0"

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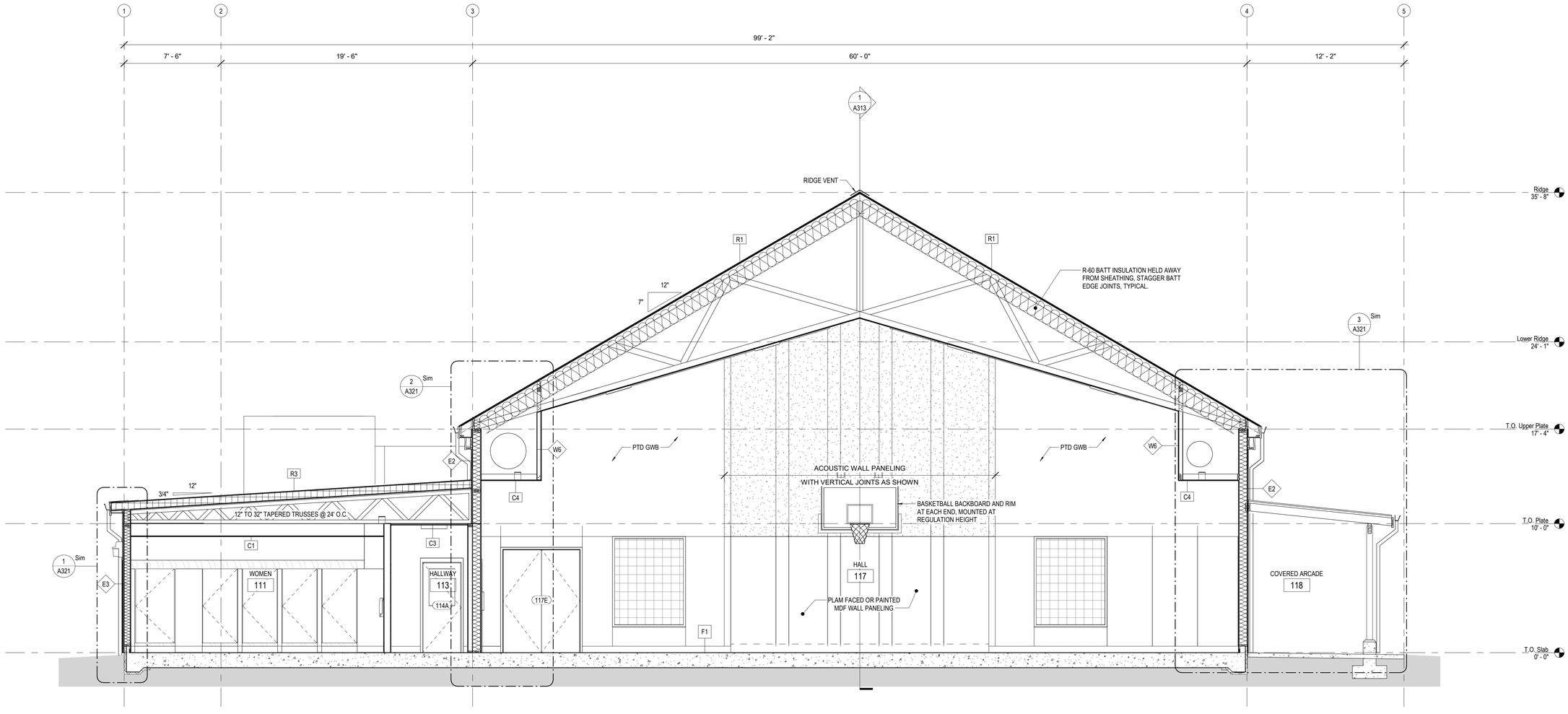
# St. Andrew Catholic Church Parish Hall
1401 Valley Avenue East
Sumner, WA 98390-2720

Job No: 1851 Date: 2020-02-07
File No: 1851 St. Andrew Parish Hall
Drawn By: AMR
Checked By: BPC
Issued for: PERMIT SET

BUILDING SECTIONS

A311




1 N-S Section 2

1/4" = 1'-0"

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Archdiocese of Seattle

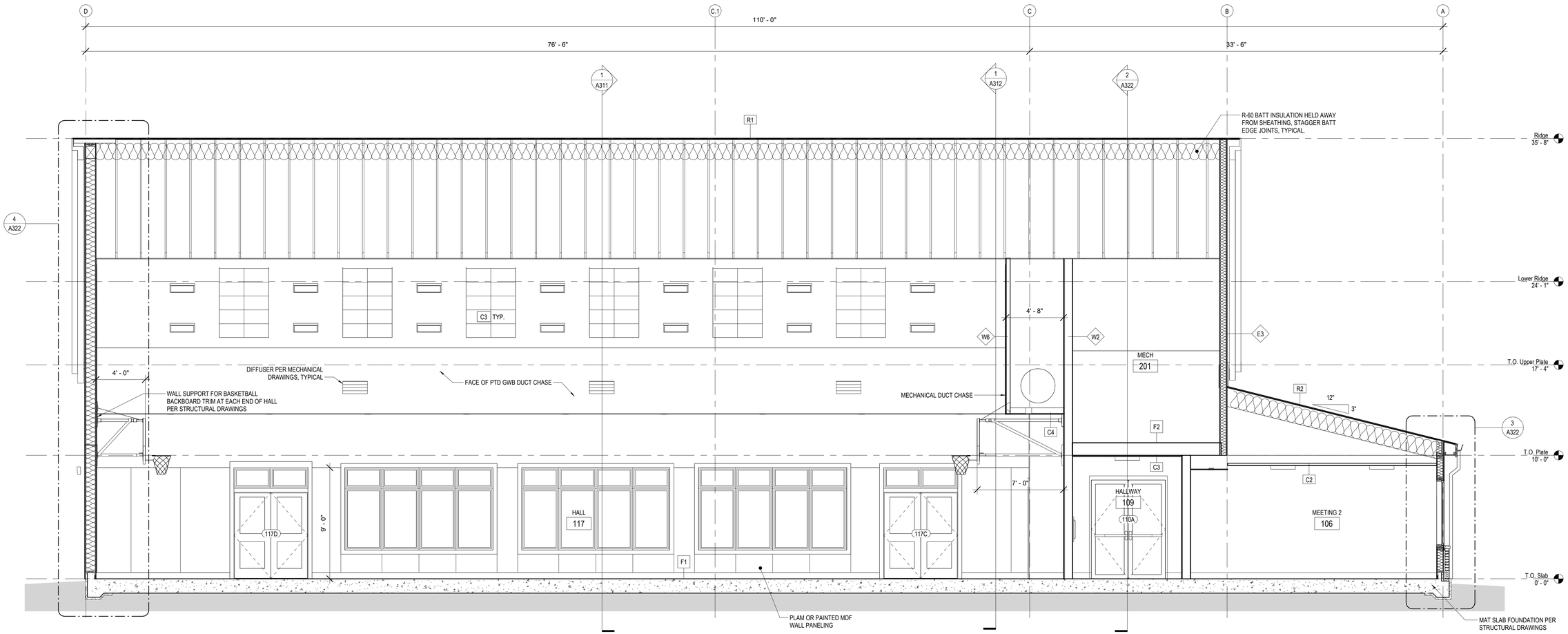
# St. Andrew Catholic Church Parish Hall

1401 Valley Avenue East
Sumner, WA 98390-2720

Job No: 1851 Date: 2020-02-07
File No: 1851 St. Andrew Parish Hall
Drawn By: AMR
Checked By: BPC
Issued for: PERMIT SET

BUILDING SECTIONS

A312




1 E-W Section 1

1/4" = 1'-0"

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Archdiocese of Seattle
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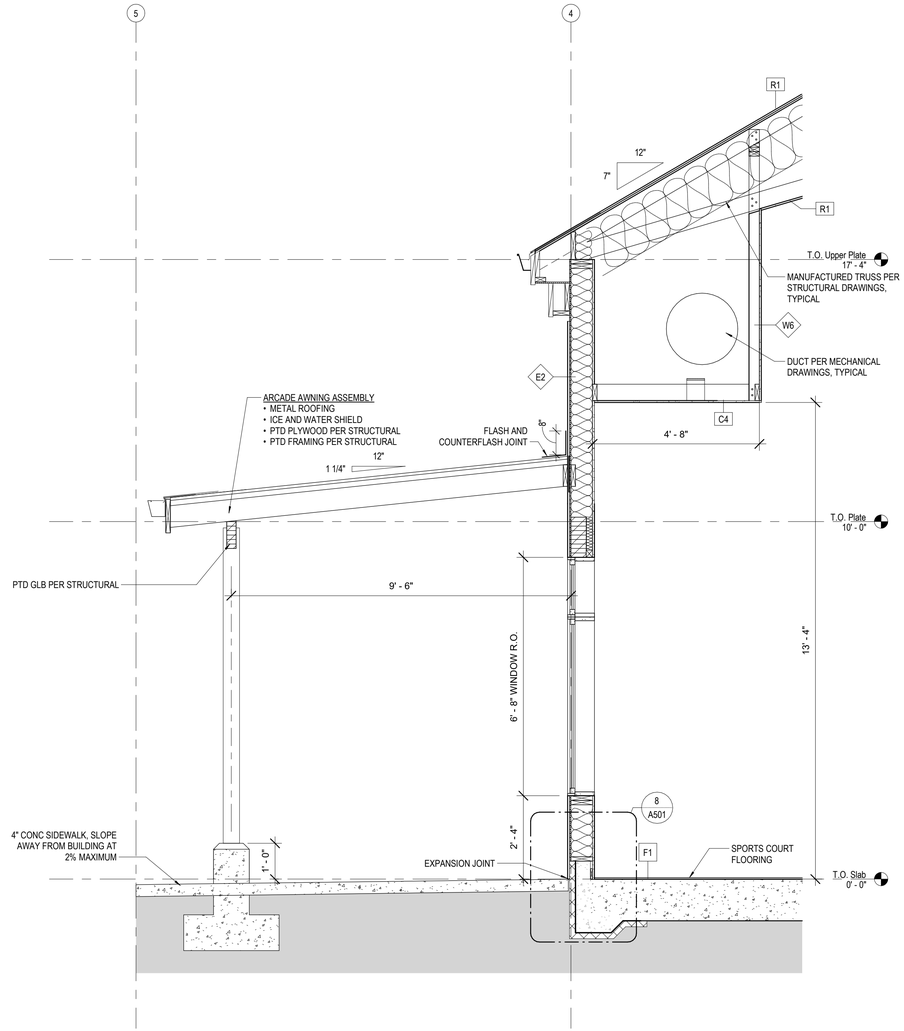
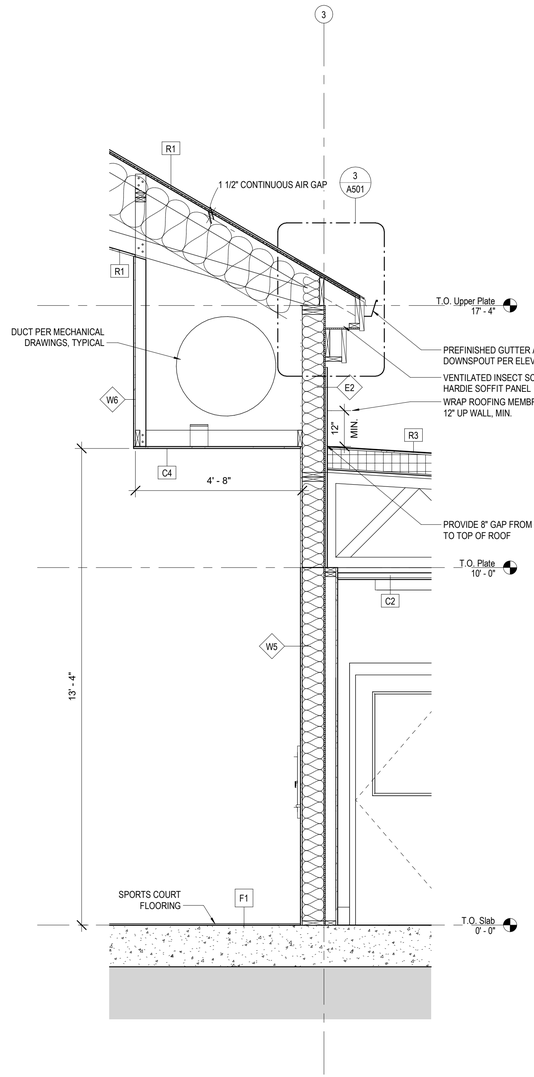
BUILDING SECTIONS

A313



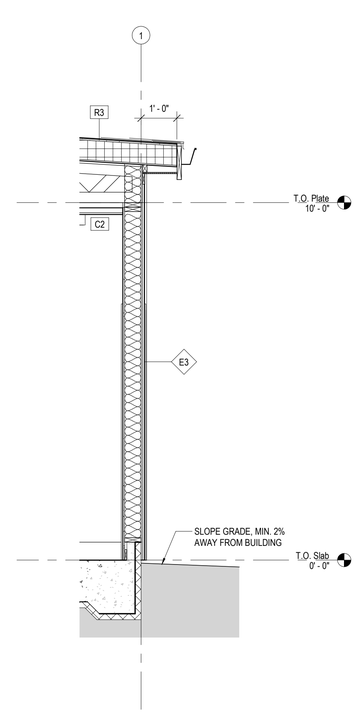

3 Wall Section at Covered Arcade

1/2" = 1'-0"




2 Wall Section along Grid 3

1/2" = 1'-0"




1 Wall Section at Membrane Roof

1/2" = 1'-0"

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Archdiocese of Seattle
St. Andrew Catholic Church Parish Hall
1401 Valley Avenue East
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Job No: 1851 Date: 2020-02-07
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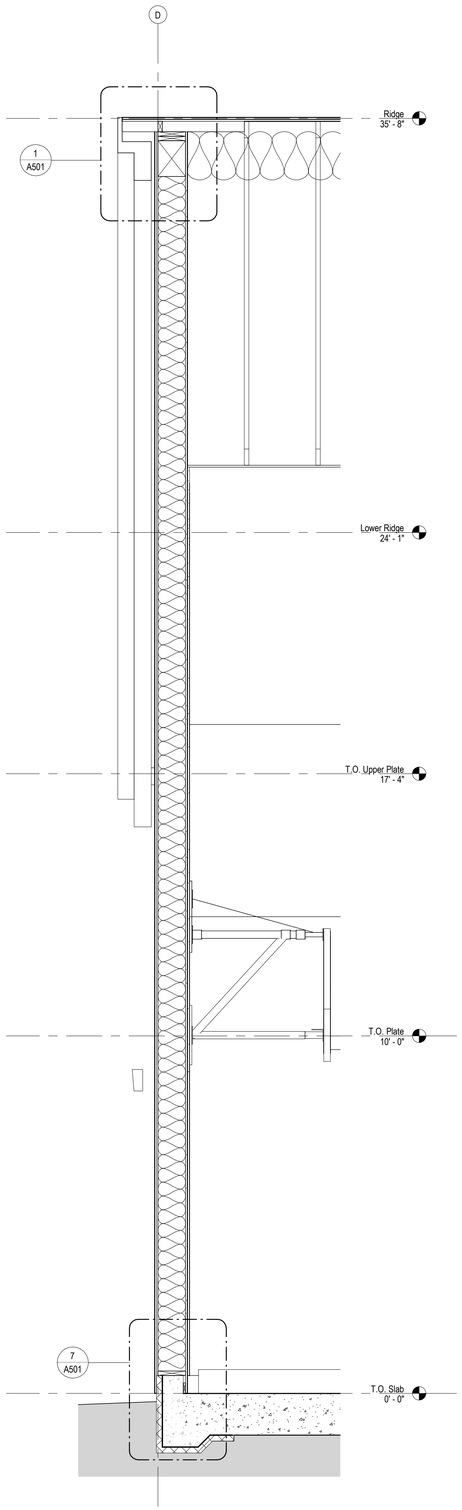
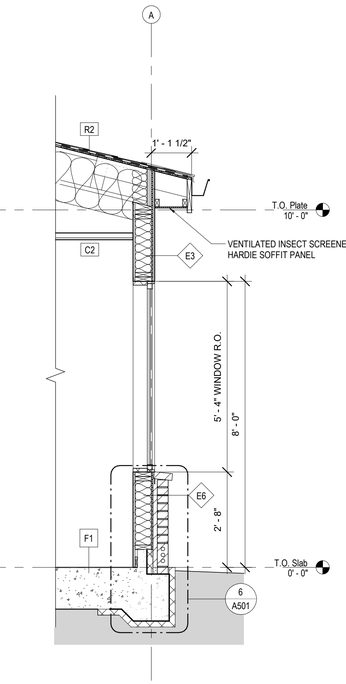
WALL SECTIONS

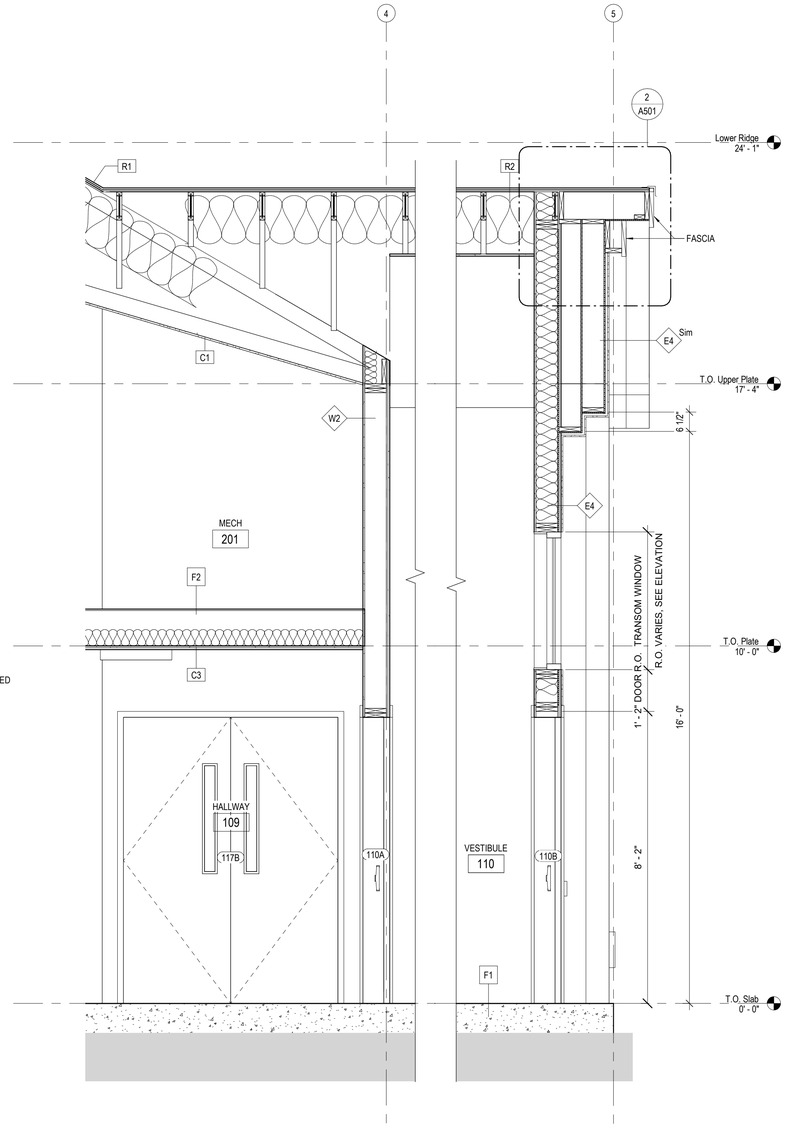
A321



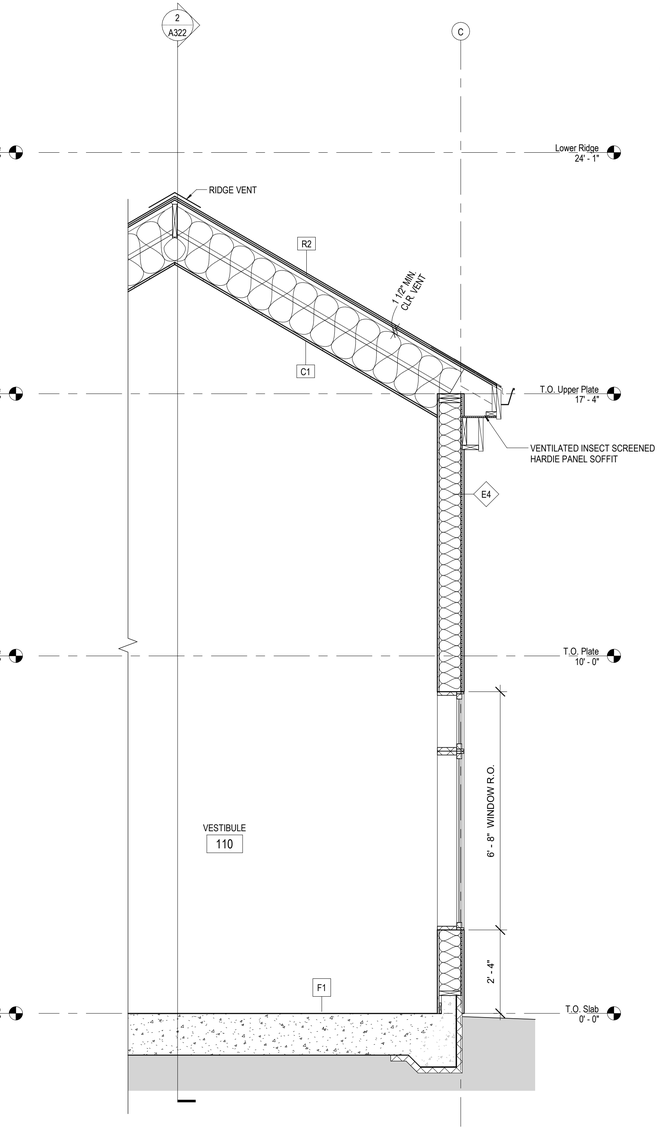

4 E-W Wall Section
1/2" = 1'-0"




3 Wall Section at West
1/2" = 1'-0"




2 N-S Section through Entry Vestibule
1/2" = 1'-0"




1 E-W Section through Entry Vestibule
1/2" = 1'-0"

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6979 REGISTERED ARCHITECT
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Archdiocese of Seattle
# St. Andrew Catholic Church Parish Hall
1401 Valley Avenue East
Sumner, WA 98390-2720

Job No: 1851 Date: 2020-02-07
File No: 1851 St. Andrew Parish Hall
Drawn By: AMR
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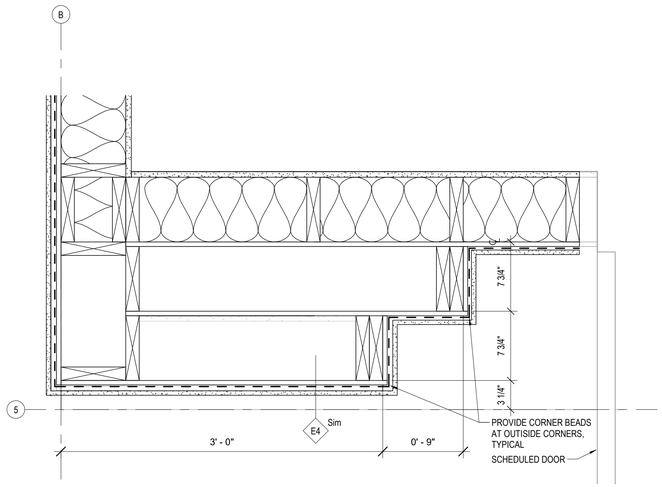
Issued for: PERMIT SET

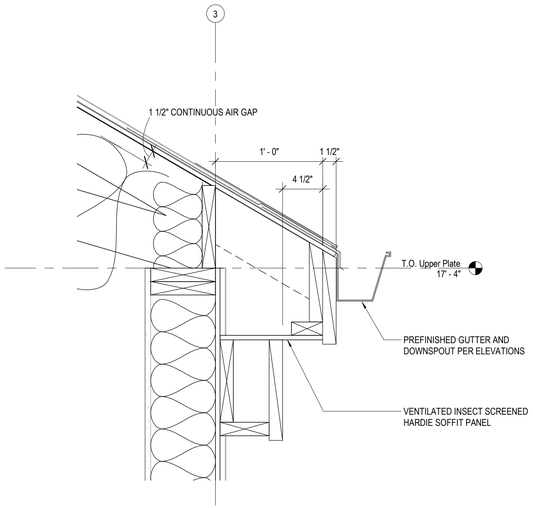
WALL SECTIONS

A322



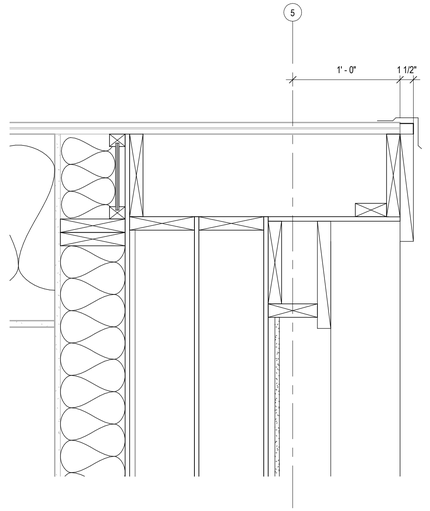

## 5 Entry Facade Detail - South

1 1/2" = 1'-0"



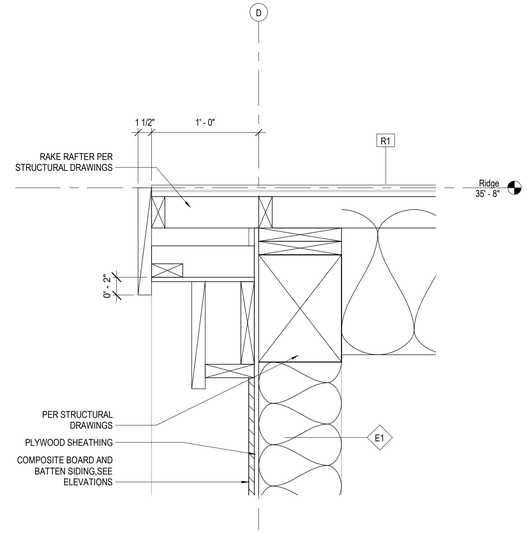

## 6 Eave Detail

1 1/2" = 1'-0"



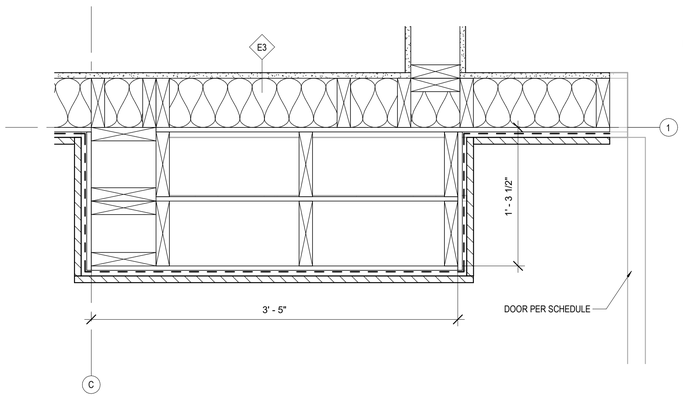

## 7 Entry Fascia Detail

1 1/2" = 1'-0"



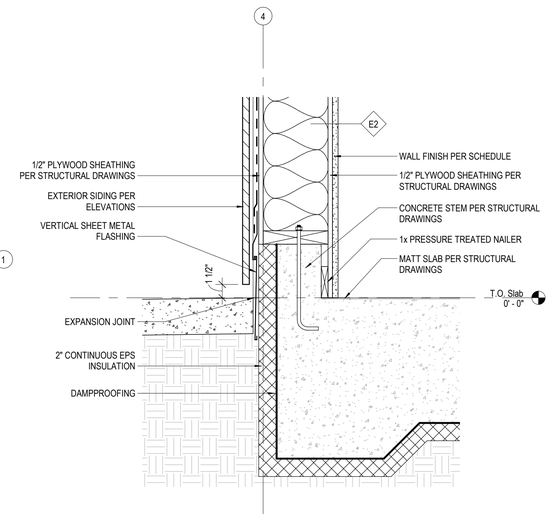

## 8 Rake Fascia Detail

1 1/2" = 1'-0"



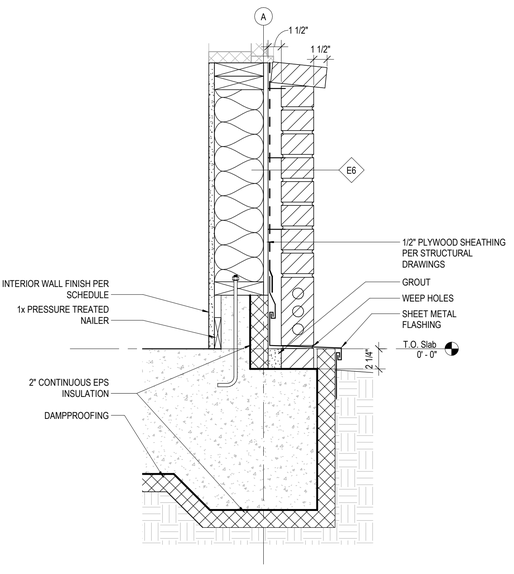

## 1 Entry Facade Detail - North

1 1/2" = 1'-0"



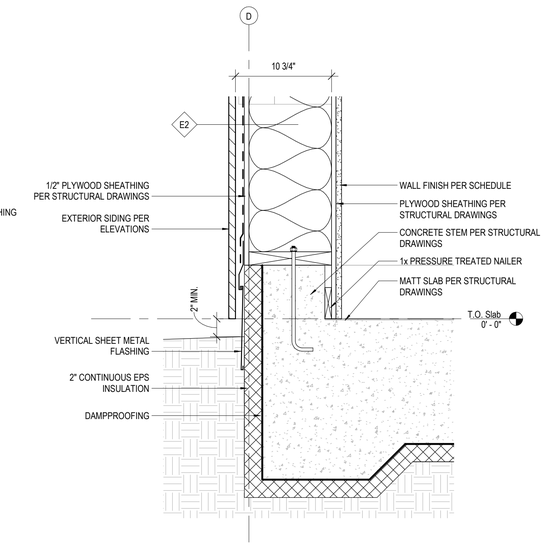

## 2 Foundation at Gridline 4

1 1/2" = 1'-0"




## 3 Foundation at Brick Veneer

1 1/2" = 1'-0"




## 4 Foundation Detail

1 1/2" = 1'-0"

0 2" 4" 8" 1' 1'-4" 2'

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RMC Architects, PLLC • 1223 Railroad Avenue• Bellingham, WA 98225
P:360.676.7733 • F:360.738.0448 • rmc@rmcarchitects.com

6979 REGISTERED ARCHITECT
BRADLEY P. CORNWELL
STATE OF WASHINGTON

Archdiocese of Seattle

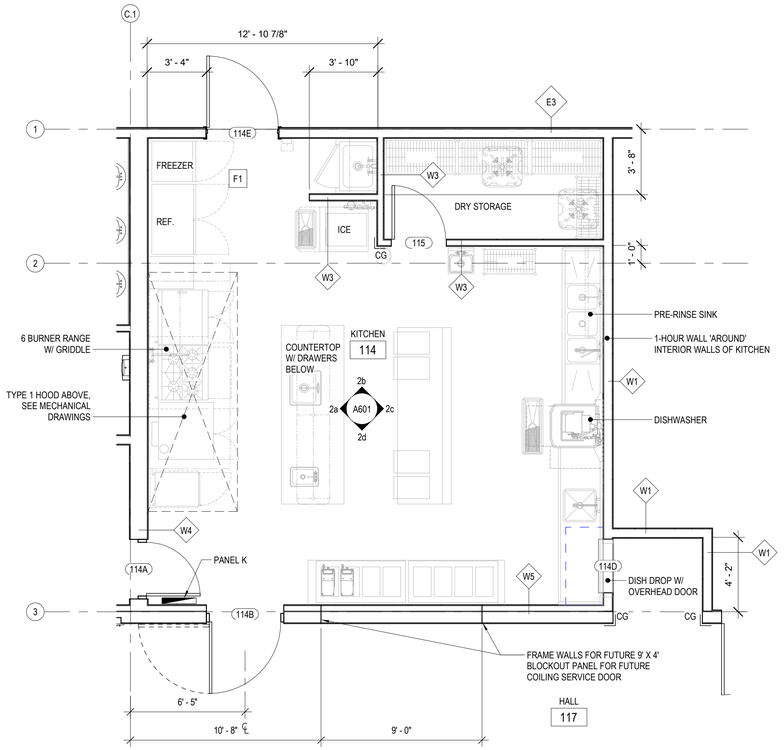
# St. Andrew Catholic Church

1401 Valley Avenue East
Sumner, WA 98390-2720

Job No: 1851 Date: 2020-02-07
File No: 1851 St. Andrew Parish Hall
Drawn By: AMR
Checked By: BPC
Issued for: PERMIT SET

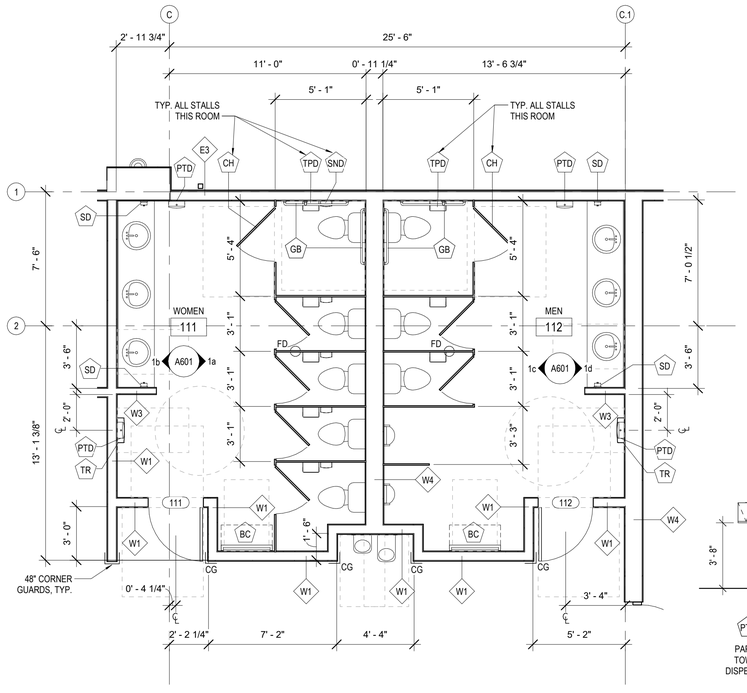
EXTERIOR DETAILS

A501



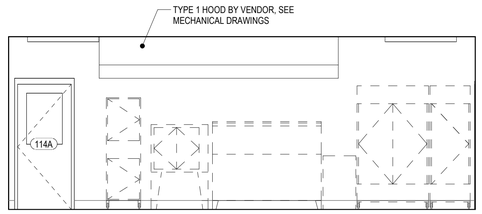

## 2 Kitchen Plan

1/4" = 1'-0"



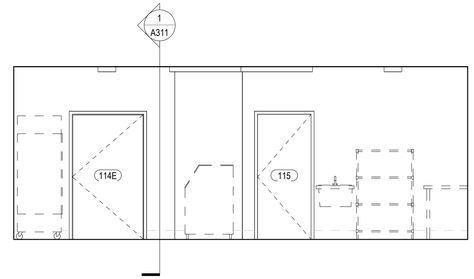

## 1 Toilet Room Plan

1/4" = 1'-0"



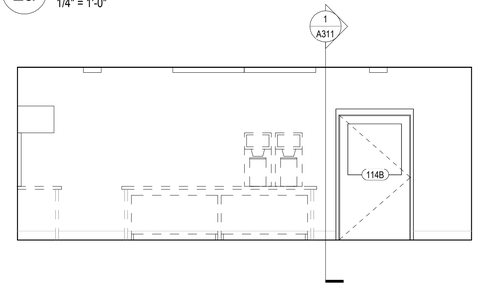

## 2a Kitchen Elevation West

1/4" = 1'-0"



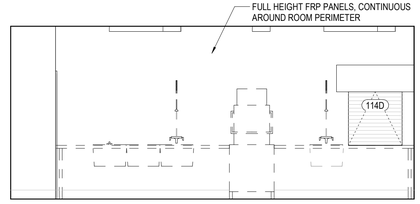

## 2b Kitchen Elevation North

1/4" = 1'-0"



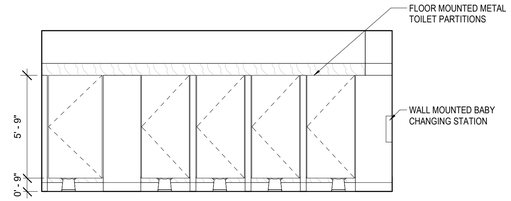

## 2d Kitchen Elevation South

1/4" = 1'-0"



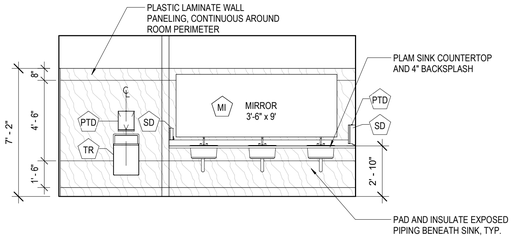

## 2c Kitchen Elevation East

1/4" = 1'-0"



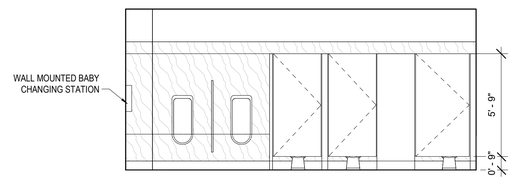

## 1a Women's Toilet East

1/4" = 1'-0"



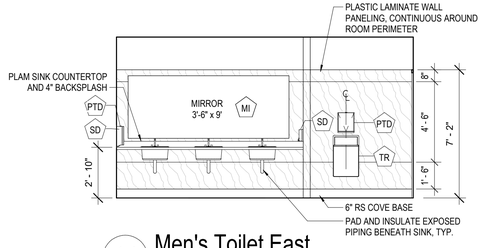

## 1b Women's Toilet West

1/4" = 1'-0"



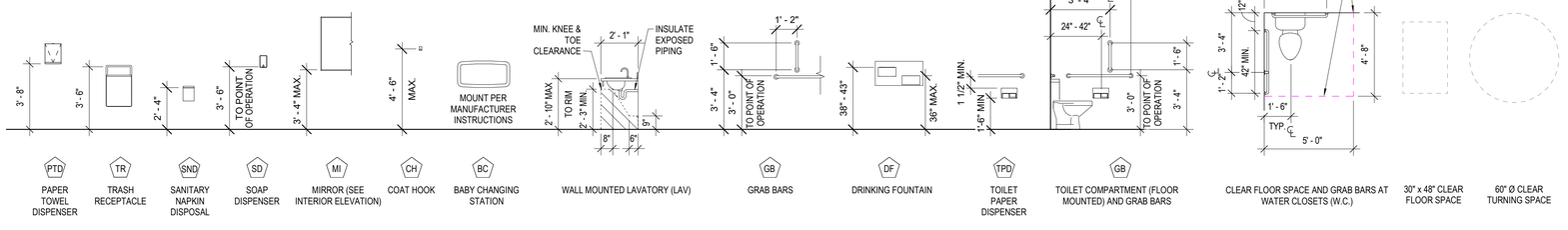

## 1c Men's Toilet West

1/4" = 1'-0"




## 1d Men's Toilet East

1/4" = 1'-0"




Typical Mounting Heights for Toilet Room Accessories

RMC ARCHITECTS
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Archdiocese of Seattle
# St. Andrew Catholic Church Parish Hall
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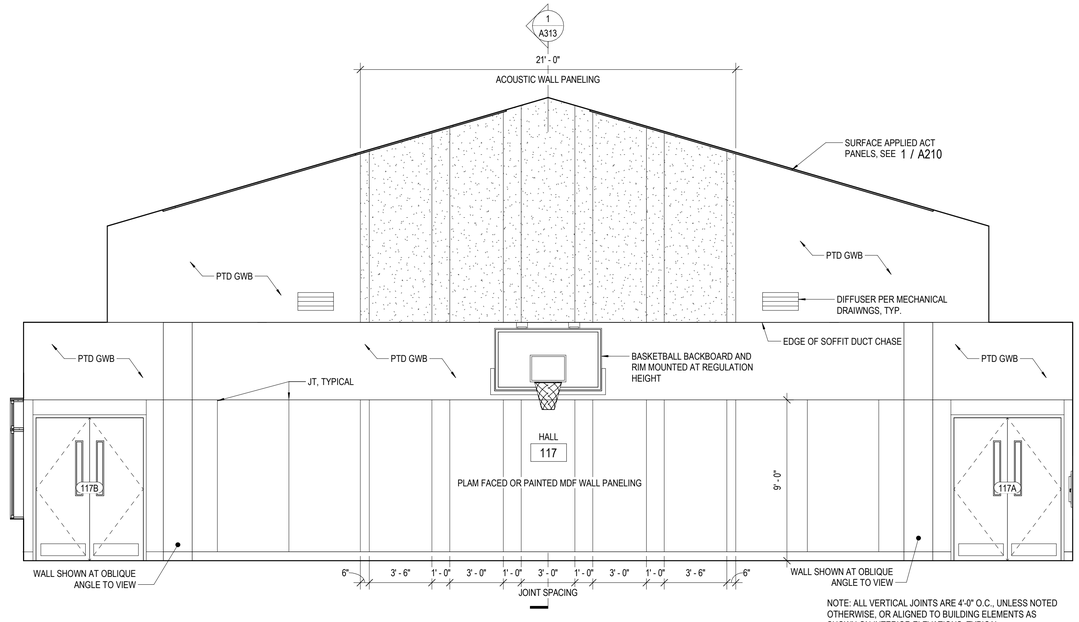
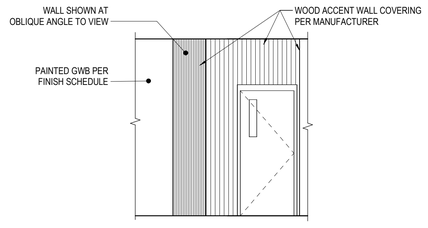
ENLARGED PLANS AND INTERIOR ELEVATIONS

A601



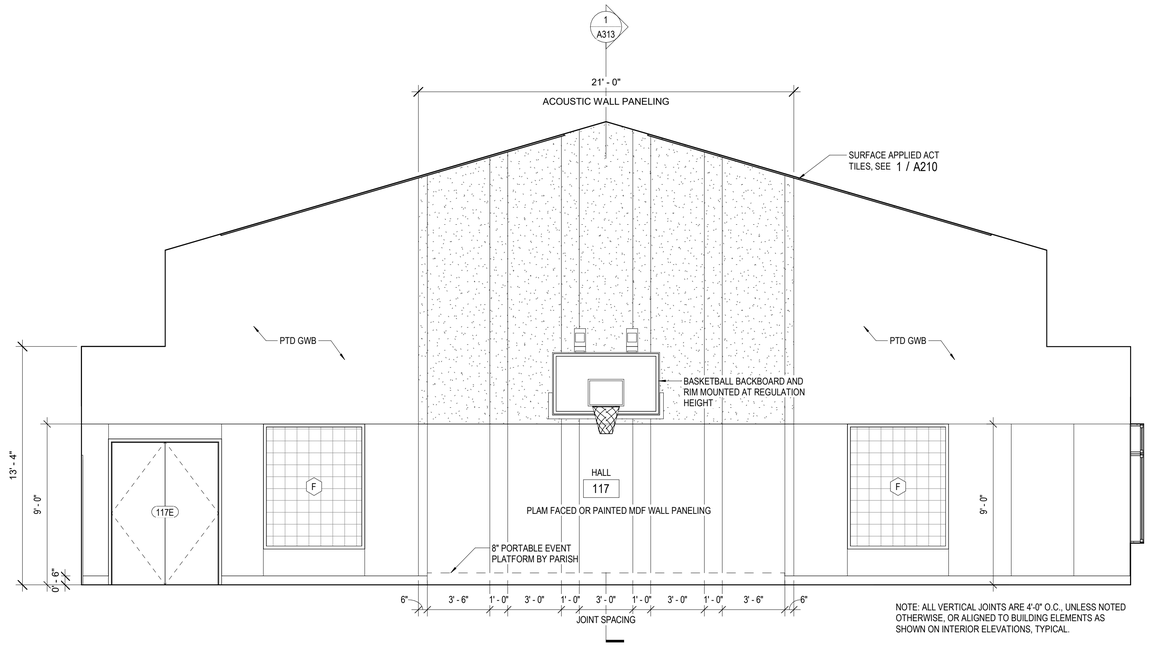

2 Hall West

1/4" = 1'-0"




3 Hallway - Typical Door Alcove

1/4" = 1'-0"




1 Hall East

1/4" = 1'-0"

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RMC Architects, PLLC • 1223 Railroad Avenue• Bellingham, WA 98225
P:360.676.7733 • F:360.738.0448 • rmc@rmcarchitects.com

6979 REGISTERED ARCHITECT
BRADLEY P. CORNWELL
STATE OF WASHINGTON

Archdiocese of Seattle
St. Andrew Catholic Church Parish Hall
1401 Valley Avenue East
Sumner, WA 98390-2720

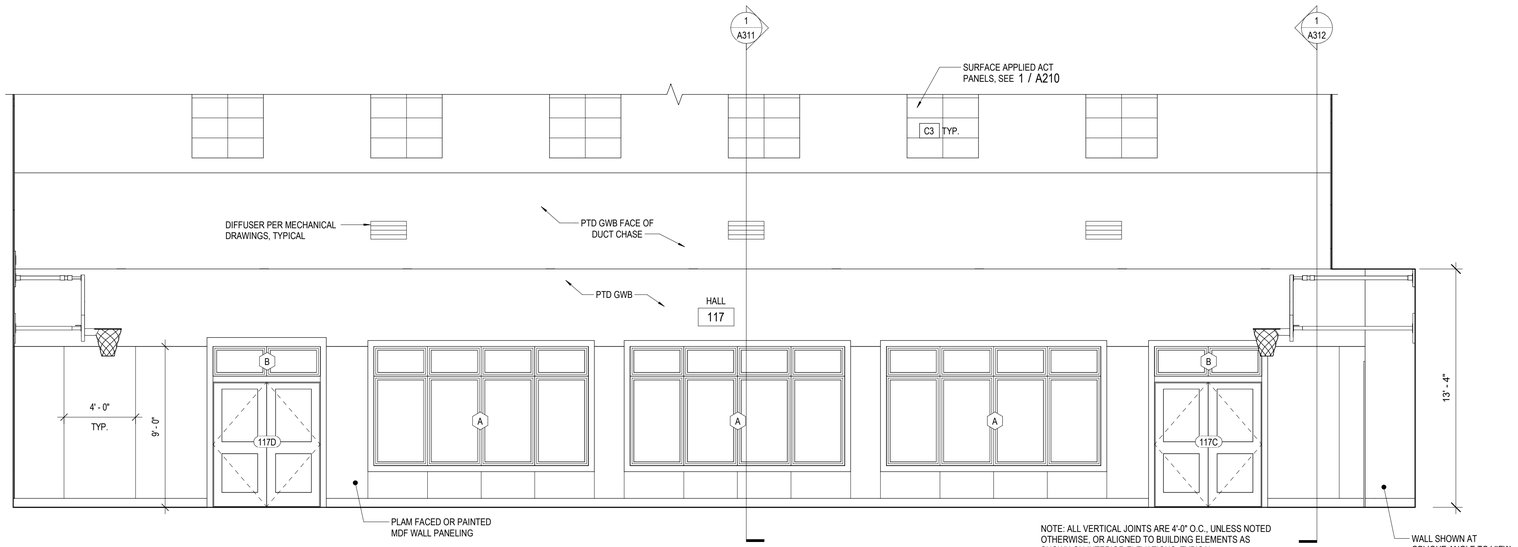
Job No: 1851 Date: 2020-02-07
File No: 1851 St. Andrew Parish Hall
Drawn By: AMR
Checked By: BPC
Issued for: PERMIT SET

INTERIOR ELEVATIONS

A602

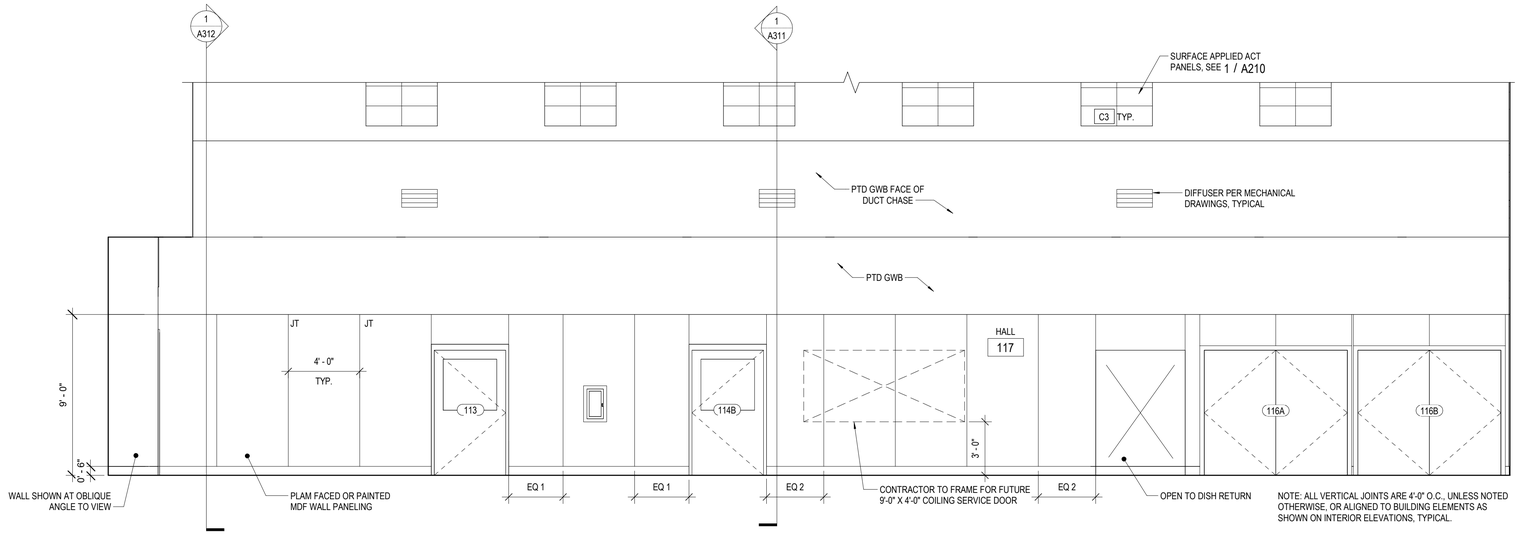
## 3 Storage South

1/4" = 1'-0"




## 2 Hall South

1/4" = 1'-0"




## 1 Hall North

1/4" = 1'-0"

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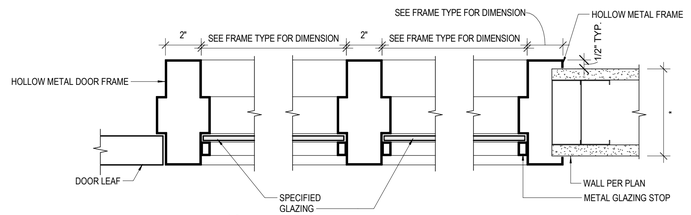
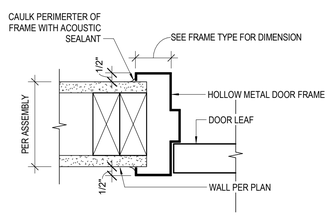
INTERIOR ELEVATIONS

A603




3 Hollow Metal Relight (& Door)

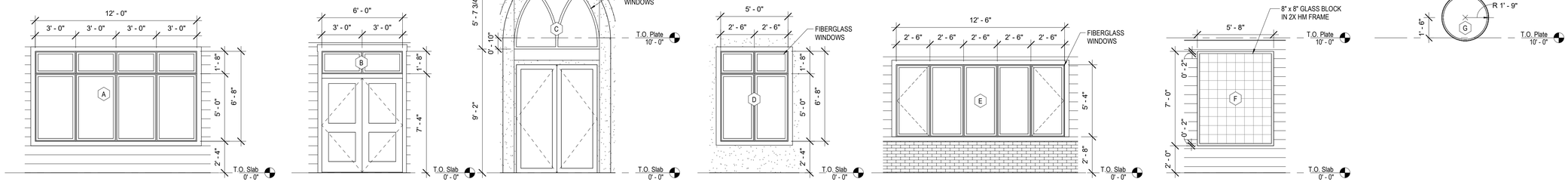
3" = 1'-0"




1 Hollow Metal Door Jamb (Head Sim)

3" = 1'-0"

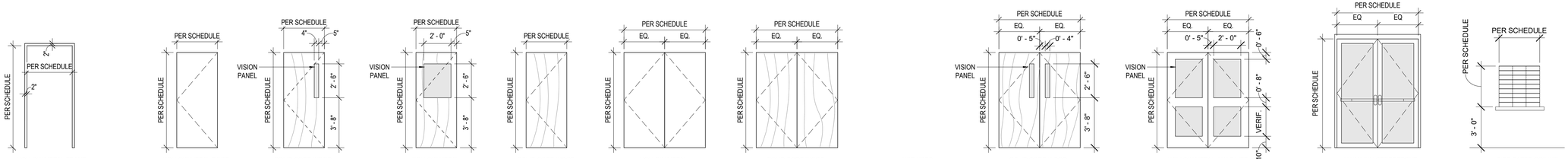
| Door Schedule | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Door Number | Door | | | | | Frame | | Fire Rating | Glazing | Hardware Group | Comments | Door Number |
| | Size | | | | | | | | | | | |
| | Width | Height | Thickness | Type | Finish | Type | Finish | | | | | |
| 101 | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D | PNT | 1 | PNT | -- | -- | 01 | | 101 |
| 102 | 3' - 0" | 7' - 0" | 0' - 1 3/4" | A | PNT | 1 | PNT | -- | -- | 02 | | 102 |
| 103 | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D | PNT | 1 | PNT | -- | -- | 01 | | 103 |
| 105 | 3' - 0" | 7' - 0" | 0' - 1 3/4" | B | ST | 1 | PNT | -- | TEMP | 03 | | 105 |
| 106 | 3' - 0" | 7' - 0" | 0' - 1 3/4" | B | ST | 1 | PNT | -- | TEMP | 03 | | 106 |
| 107 | 4' - 0" | 7' - 0" | 0' - 1 3/4" | B | ST | 1 | PNT | -- | TEMP | 03 | | 107 |
| 108A | 6' - 0" | 8' - 0" | 0' - 2" | J | MFR | ALUM | -- | -- | 1" TEMP | 04 | | 108A |
| 108B | 6' - 0" | 8' - 0" | 0' - 2" | J | MFR | ALUM | -- | -- | 1" TEMP | 05 | | 108B |
| 110A | 6' - 0" | 8' - 0" | 0' - 2" | J | MFR | ALUM | -- | -- | 1" TEMP | 05 | | 110A |
| 110B | 6' - 0" | 8' - 0" | 0' - 2" | J | MFR | ALUM | -- | -- | 1" TEMP | 04 | | 110B |
| 111 | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D | ST | 1 | PNT | -- | -- | 06 | | 111 |
| 112 | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D | ST | 1 | PNT | -- | -- | 06 | | 112 |
| 113 | 4' - 0" | 7' - 0" | 0' - 1 3/4" | C | ST | 1 | PNT | -- | TEMP | 12 | | 113 |
| 114A | 3' - 0" | 7' - 0" | 0' - 1 3/4" | C | ST | 1 | PNT | 45 MIN. | TEMP | 07 | | 114A |
| 114B | 4' - 0" | 7' - 0" | 0' - 1 3/4" | C | ST | 1 | PNT | 45 MIN. | TEMP | 12 | | 114B |
| 114D | 3' - 0" | 3' - 0" | 0' - 3" | K | MFR | MFR | MFR | 60 MIN. | -- | 13 | ALUMINUM COILING OVERHEAD SHUTTER | 114D |
| 114E | 4' - 0" | 7' - 0" | 0' - 1 3/4" | A | PNT | 1 | PNT | -- | -- | 08 | | 114E |
| 115 | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D | PNT | 1 | PNT | -- | -- | 01 | | 115 |
| 116A | 8' - 0" | 7' - 0" | 0' - 1 3/4" | F | ST | 1 | PNT | -- | -- | 09 | | 116A |
| 116B | 8' - 0" | 7' - 0" | 0' - 1 3/4" | F | ST | 1 | PNT | -- | -- | 09 | | 116B |
| 117A | 6' - 0" | 8' - 0" | 0' - 2" | H | ST | 1 | PNT | -- | TEMP | 10 | | 117A |
| 117B | 6' - 0" | 8' - 0" | 0' - 2" | H | ST | 1 | PNT | -- | TEMP | 10 | | 117B |
| 117C | 6' - 0" | 7' - 0" | 0' - 1 3/4" | I | PNT | 1 | PNT | -- | TEMP | 04 | | 117C |
| 117D | 6' - 0" | 7' - 0" | 0' - 1 3/4" | I | PNT | 1 | PNT | -- | TEMP | 04 | | 117D |
| 117E | 6' - 0" | 8' - 0" | 0' - 1 3/4" | E | PNT | 1 | PNT | -- | -- | 11 | | 117E |




## Window Types

WINDOW TYPES GENERAL NOTES

1. SOME WINDOWS SHOWN ARE INTENDED FOR DIFFERING WALL ASSEMBLIES, COORDINATE INSTALLATION WITH ASSEMBLIES AND DETAILS.
2. SEE INTERIOR FINISH PLANS AND FINISH SCHEDULE FOR LOCATIONS OF INTERIOR WINDOW SHADES.




Door Frame Types

Door Types

RMC ARCHITECTS
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P:360.676.7733 • F:360.738.0448 • rmc@rmcarchitects.com

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WINDOW AND DOOR TYPES AND SCHEDULES

A801

**FLOORING**

| | |
|---|---|
| AF | MULTI-USE ACTIVITY FLOORING |
| CONC-1 | EPOXY COATED CONCRETE SLAB |
| CONC-2 | UNPOLISHED CONCRETE, SEALED |
| CONC-3 | STAINED CONCRETE |
| CPT-1 | CARPET TILES |
| CPT-2 | CARPET TILES |
| RS | RESILIENT SHEET FLOORING |
| WOOD | PLYWOOD |
| WM | WALK OFF MATTING |

**BASE**

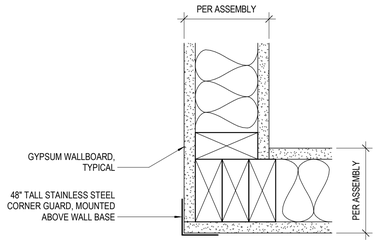
| | |
|---|---|
| RB | RUBBER BASE |
| RS | COVE RESILIENT SHEET FLOORING |

**WALL**

| | |
|---|---|
| AC | ACOUSTICAL PANELING |
| FRP | FIBERGLASS REINFORCED PANELS |
| GWB | GYPSUM WALL BOARD, PAINTED |
| PLAM | PLASTIC LAMINATE |
| PNT-1 | PAINT 1 |
| PNT-2 | PAINT 2 |
| WD | WOOD ACCENT WALL |

**CEILING**

| | |
|---|---|
| ACT-1 | ACOUSTIC CEILING TILE |
| ACT-2 | CLEANABLE ACOUSTIC CEILING TILE |
| ACT-3 | GLUE ON ACOUSTIC TILES |
| GWB | GYPSUM WALL BOARD, PAINTED |
| PNT-1 | PAINT 1 |




## 2 Typical Corner Protection

3" = 1'-0"

## Room Finish Schedule

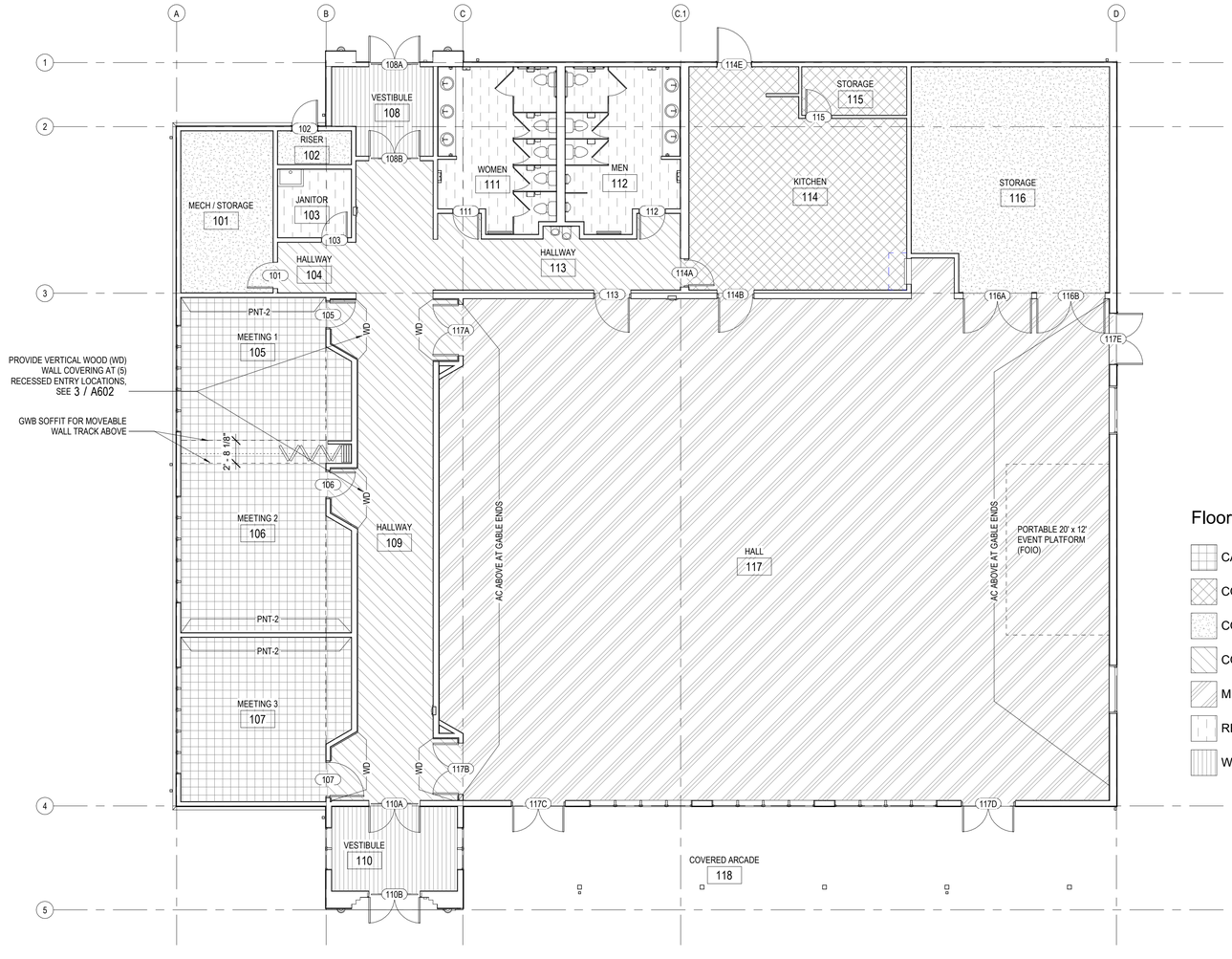
| Number | Name | Floor Finish | | Wall | Wall Finish | | | | Ceiling | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Finish - Floor | Finish - Base | | Finish - East | Finish - North | Finish - South | Finish - West | | |
| 101 | MECH / STORAGE | CONC-2 | 6" RB | GWB | PNT-1 | PNT-1 | PNT-1 | PNT-1 | GWB | |
| 102 | RISER | CONC-2 | 6" RB | GWB | -- | -- | -- | -- | GWB | |
| 103 | JANITOR | RS | COVE RS | GWB/FRP | PNT-1/MFR | PNT-1/MFR | PNT-1/MFR | PNT-1/MFR | GWB | FRP WALL COVER TO EXTEND 60" AFF, INTEGRAL VINYL COVE BASE |
| 104 | HALLWAY | CONC-3 | 6" RB | GWB | PNT-1 | PNT-1 | PNT-1 | PNT-1 | ACT-1 | |
| 105 | MEETING 1 | CPT-1 | 4" RB | GWB | PNT-1 | PNT-2 | PNT-1, * | PNT-1 | GWB/ACT-1 | MOVEABLE WALL PARTITION TO SOUTH |
| 106 | MEETING 2 | CPT-1 | 4" RB | GWB | PNT-1 | PNT-1, * | PNT-2 | PNT-1 | GWB/ACT-1 | MOVEABLE WALL PARTITION TO NORTH |
| 107 | MEETING 3 | CPT-2 | 4" RB | GWB | PNT-1 | PNT-2 | PNT-1 | PNT-1 | GWB/ACT-1 | |
| 108 | VESTIBULE | WM | 6" RB | GWB | PNT-1 | PNT-1 | PNT-1 | PNT-1 | GWB | |
| 109 | HALLWAY | CONC-3 | 6" RB | GWB/WD | PNT-1/ST | PNT-1/ST | PNT-1/ST | PNT-1/ST | ACT-1 | SEE INTERIOR ELEVATIONS FOR WOOD ACCENT WALL DETAILS |
| 110 | VESTIBULE | WM | 6" RB | GWB | PNT-1 | PNT-1 | PNT-1 | PNT-1 | GWB | |
| 111 | WOMEN | RS | COVE RS | GWB/PLAM | PNT-1/MFR | PNT-1/MFR | PNT-1/MFR | PNT-1/MFR | GWB | INTEGRAL VINYL COVE BASE, SEE INTERIOR ELEVATIONS FOR EXTENTS OF PLASTIC LAMINATE WALL COVERING |
| 112 | MEN | RS | COVE RS | GWB/PLAM | PNT-1/MFR | PNT-1/MFR | PNT-1/MFR | PNT-1/MFR | GWB | INTEGRAL VINYL COVE BASE, SEE INTERIOR ELEVATIONS FOR EXTENTS OF PLASTIC LAMINATE WALL COVERING |
| 113 | HALLWAY | CONC-3 | 6" RB | GWB | PNT-1 | PNT-1 | PNT-1 | PNT-1 | ACT-1 | |
| 114 | KITCHEN | CONC-1 | 6" RB | FRP | MFR | MFR | MFR | MFR | ACT-2 | |
| 115 | STORAGE | CONC-1 | 6" RB | GWB | PNT-1 | PNT-1 | PNT-1 | PNT-1 | ACT-2 | |
| 116 | STORAGE | CONC-2 | 6" RB | GWB | PNT-1 | PNT-1 | PNT-1 | PNT-1 | GWB | SEE INTERIOR ELEVATIONS FOR PLYWOOD WALL PROTECTION AROUND ROOM PERIMETER |
| 117 | HALL | AF | 6" RB | GWB/PLAM | PNT-1/MFR | PNT-1/MFR | PNT-1/MFR | PNT-1/MFR | GWB/ACT-3 | SEE INTERIOR ELEVATIONS FOR EXTENTS OF ACOUSTICAL WALL COVERING AND PLASTIC LAMINATE WALL COVERING, SEE REFLECTED CEILING PLAN FOR CEILING FINISH LAYOUT |
| 201 | MECH | WOOD | -- | GWB | PNT-1 | PNT-1 | PNT-1 | PNT-1 | GWB | |

## ROOM FINISH NOTES

1. PAINT ALL MECHANICAL GRILLS TO MATCH ADJACENT WALL COLOR
2. SEE SPEC FOR ADDITIONAL INFORMATION ON FINISHES AND PAINTS.
3. PAINT ALL GWB CEILINGS PNT-1, UNO.
4. PAINT ALL HM DOORS AND FRAMES PER DOOR SCHEDULE.
5. AN "*" IN THE FINISH SCHEDULE REFERS TO SEE NOTES IN COMMENTS COLUMN.
6. PROVIDE 48" TALL STAINLESS STEEL CORNER GUARDS PER PLAN LOCATIONS

## FLOOR FINISH NOTES

1. SYMBOL ⟨XX⟩ IS TO CLARIFY THE EXTENTS OF MULTIPLE COLORS AND FINISHES. WHERE NOT EXTENTS ARE SNOWN, REFER TO FINISH SCHEDULE.
2. CENTER FLOOR TRANSITIONS UNDER DOORWAYS, TYP.
3. ALL FLOOR TRANSITIONS MUST BE ADA COMPLIANT.




## 1 Finish Plan

1/8" = 1'-0"

### Floor Finish Legend

- CARPET-1 OR 2
- CONC-1 - EPOXY COATED CONCRETE
- CONC-2 - UNPOLISHED, UNSTAINED CONCRETE
- CONC-3 - STAINED CONCRETE
- MULTI-USE FLOORING
- RESILIENT SHEET FLOORING
- WALK OFF MAT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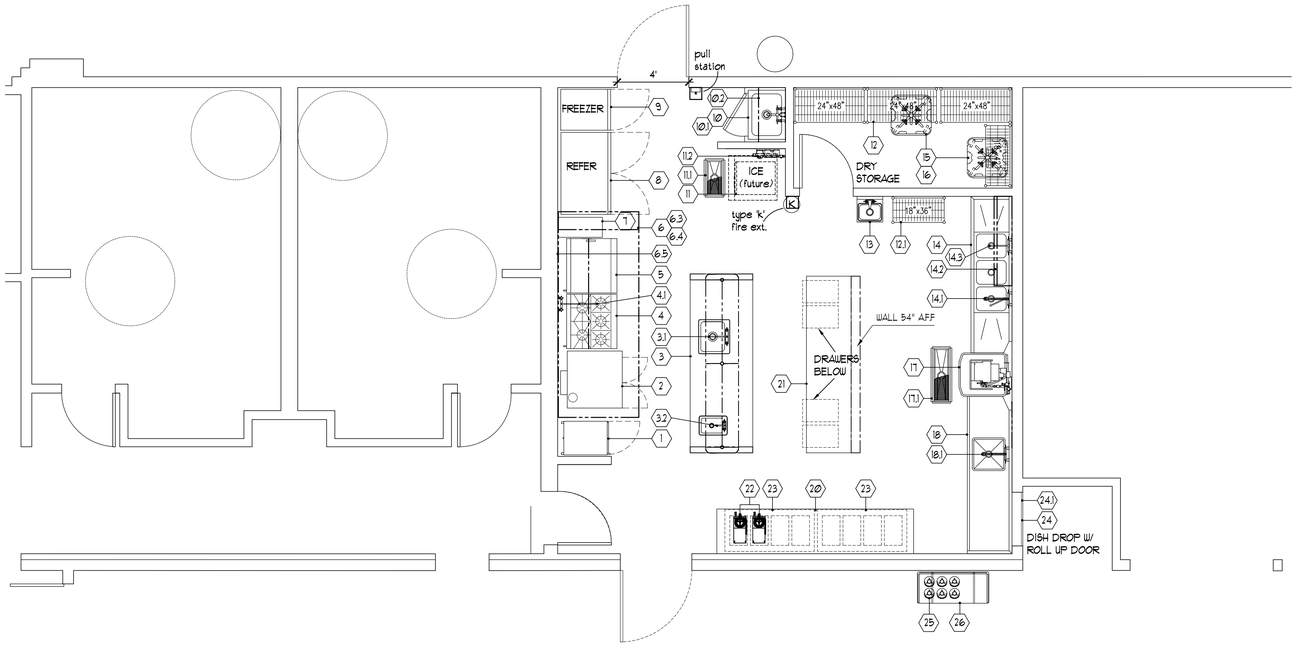
ROOM FINISH PLAN AND SCHEDULE

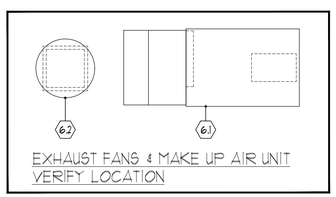
A802

| ITEM NO. | SUPPLIER K.E.C. | SUPPLIER G.C. | SUPPLIER OTHERS | QUANTITY | DESCRIPTION |
|---|---|---|---|---|---|
| 1 | X | | | 1 | MOBILE HEATED CABINET |
| 2 | X | | | 2 | CONVECTION OVEN - (1 FOR FUTURE) |
| 3 | X | | | 1 | WORK TABLE W/ POT & PAN RACK, PREP SINK & |
| | X | | | 1 | HAND SINK |
| 3.1 | X | | | 1 | FAUCET |
| 3.2 | X | | | 1 | FAUCET |
| 4 | X | | | 1 | 6 OPEN BURNER RANGE |
| 4.1 | X | | | 1 | POT FILLER FAUCET |
| 5 | X | | | 1 | 36" GRIDDLE W/ CABINET BASE |
| 6 | X | | | 1 | TYPE I EXHAUST HOOD |
| 6.1 | X | | | 1 | MAKE-UP AIR FAN & DUCTWORK |
| 6.2 | X | | | 1 | EXHAUST FAN & DUCTWORK |
| 6.3 | X | | | 1 | FIRE SUPPRESSION SYSTEM |
| 6.4 | X | | | 1 | ENCLOSURE PANEL |
| 6.5 | X | | | 1 | WALL FLASHING |
| 7 | X | | | 1 | WORK TABLE W/ CABINET BASE |
| 8 | X | | | 1 | 2 DOOR REACH-IN REFRIGERATOR |
| 9 | X | | | 1 | REACH-IN FREEZER |
| 10 | X | | | 1 | MOP SINK CABINET |
| 10.1 | X | | | 1 | SERVICE FAUCET |
| 10.2 | X | | | 1 | WALL MOUNT SHELF |
| 11 | X | | | 1 | ICE MACHINE W/ BIN - (FUTURE) |
| 11.1 | X | | | 1 | FLOOR TROUGH - 12X24 |
| 11.2 | X | | | 1 | WATER FILTRATION SYSTEM - (FUTURE) |
| 12 | X | | | 1 LOT | DRY STORAGE SHELVING |
| 12.1 | X | | | 1 LOT | POT & PAN SHELF |
| 13 | X | | | 1 | WALL MOUNT HAND SINK W/ FAUCET |
| 14 | X | | | 1 | CLEAN DISHTABLE |
| 14.1 | X | | | 1 | PRE RINSE FAUCET |
| 14.2 | X | | | 1 | SLANT RACK |
| 14.3 | X | | | 1 | FAUCET |
| 15 | X | | | 2 | DOLLY |
| 16 | X | | | 2 | RACK DOLLY |
| 17 | X | | | 1 | VENTLESS DISHMACHINE W/ BOOSTER |
| 17.1 | X | | | 1 | FLOOR TROUGH - 12X36 |
| 18 | X | | | 1 | SOILED DISHTABLE W/ PRE WASH SINK |
| 18.1 | X | | | 1 | PRE-RINSE FAUCET |
| 19 | | | | | SPARE |
| 20 | X | | | 1 | S/S WORK COUNTER - 30X132 |
| 21 | X | | | 1 | S/S PREP TABLE W/ OPEN BASE & DRAWERS |
| 22 | X | | | 2 | COFFEE BREWER |
| 23 | X | | | 2 | 4 WELL HOT FOOD COUNTER |
| 24 | | X | | 1 | SECURITY - ROLL DOWN DOOR |
| 24.1 | X | | | 1 | CHANNEL GUARD |
| 25 | X | | | 6 | AIRPOT |
| 26 | X | | | 1 | BEVERAGE CART |




EQUIPMENT PLAN

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




EXHAUST FANS & MAKE UP AIR UNIT VERIFY LOCATION

## GENERAL NOTES

1. IT SHALL BE NOTED BY THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS THAT THIS SET OF PLANS AND THE INFORMATION CONTAINED WITHIN IN NO WAY RELIEVES SAID PARTIES OF THEIR RESPONSIBILITY TO INVESTIGATE AND COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES AND TO PERFORM ALL WORK TO THE HIGHEST STANDARDS.

2. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS TO VERIFY THE ACTUAL SPACE AND MECHANICAL REQUIREMENTS OF ALL ITEMS SHOWN AS FUTURE, N.I.C, SUPPLIED BY "OTHERS", ETC., WITH THE OWNER PRIOR TO ROUGH-IN AND CONNECTION.

3. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO IMMEDIATELY NOTIFY THE KITCHEN EQUIPMENT CONTRACTOR IN WRITING OF ANY CHANGES TO THE BUILDING THAT AFFECT EQUIPMENT PLACEMENT AND SIZES (I.E., WALL CHANGES, WATER HEATER LOCATIONS, ELECTRICAL PANELS, ETC.).

4. SUITABLE WALL BACKING AS SHOWN ON THESE PLANS AND AS REQUIRED BY THE OWNER SHALL BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR.

5. THE GENERAL CONTRACTOR SHALL PROVIDE FLOOR, WALL, CEILING AND ROOF PENETRATIONS, INCLUDING, BUT NOT LIMITED TO THOSE REQUIRED FOR: MAKE-UP AIR, CLASS II EXHAUST DUCTS, FIRE-RATED SHAFTS FOR CLASS I EXHAUST DUCTS.

6. THE GENERAL CONTRACTOR SHALL PROVIDE CONDUIT AND SLEEVES FOR REFRIGERATION LINES, SYRUP, CARBON DIOXIDE GAS, BEER LINES, LIQUOR LINES, AND DATA LINES. CONDUIT SHALL BE CIRCULAR PVC EQUAL TO THE DIAMETER INDICATED ON PLANS. ALL BENDS SHALL HAVE A MINIMUM RADIUS OF TWENTY-FOUR INCHES.

7. THE GENERAL CONTRACTOR SHALL PROPERLY SEAL ALL WALL AND FLOOR PENETRATIONS AFTER THE INSTALLATION OF RELATED EQUIPMENT AND FURNISHING ITEMS.

8. ALL DIMENSIONS SHOWN ARE FROM FACE OF FINISHED WALL OR FLOOR.

9. ALL UTILITY ROUGH-INS SHOWN ON THESE PLANS ARE SUBJECT TO CHANGE PENDING FINAL EQUIPMENT SELECTION AND LOCATION.

10. ALL UTILITY ROUGH-INS, FINAL CONNECTIONS, AND HOOK-UPS SHALL BE PROVIDED AND PERFORMED BY THE RESPECTIVE LICENSED SUB-CONTRACTORS IN COMPLIANCE WITH APPLICABLE NATIONAL AND LOCAL CODES.

11. SEISMIC BRACING INFORMATION, IF REQUIRED, IS NOT INDICATED ON THESE PLANS NOR IS IT PROVIDED BY THE KITCHEN EQUIPMENT CONTRACTOR UNLESS OTHERWISE SPECIFIED HEREIN.

12. WHERE EQUIPMENT PRODUCES NOISE THAT MAY VIBRATE THROUGH WALLS TO ANY PUBLIC AND/OR DINING AREAS, THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL ADEQUATE SOUND PROOFING IN WALLS.

02/04/2020 PERMIT PRINT


BARGREEN ELLINGSON
FOODSERVICE SUPPLY & DESIGN
6626 TACOMA MALL BLVD.
TACOMA, WA 98409
Phone: (253) 475-9201
Fax: (253) 671-8484
Website
www.bargreen.com


ST. ANDREW PARISH HALL
1401 VALLEY AVE E.
SUMNER, WA 98390

| REVISION INFORMATION | | |
|---|---|---|
| # | START | PERMIT |
| 0 | MM/DD/YY | MM/DD/YY |
| # | PRELIM | REVISION |
| 1 | 01.10.20 | 02.04.20 |
| 2 | 01.15.20 | ---- |
| 3 | 01.17.20 | ---- |
| 4 | 01.29.20 | ---- |
| 5 | 02.03.20 | ---- |
| 6 | ---- | ---- |
| 7 | ---- | ---- |
| 8 | ---- | ---- |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DRAWN BY: M.HINES

PROJECT MANAGER: J. PEARCE

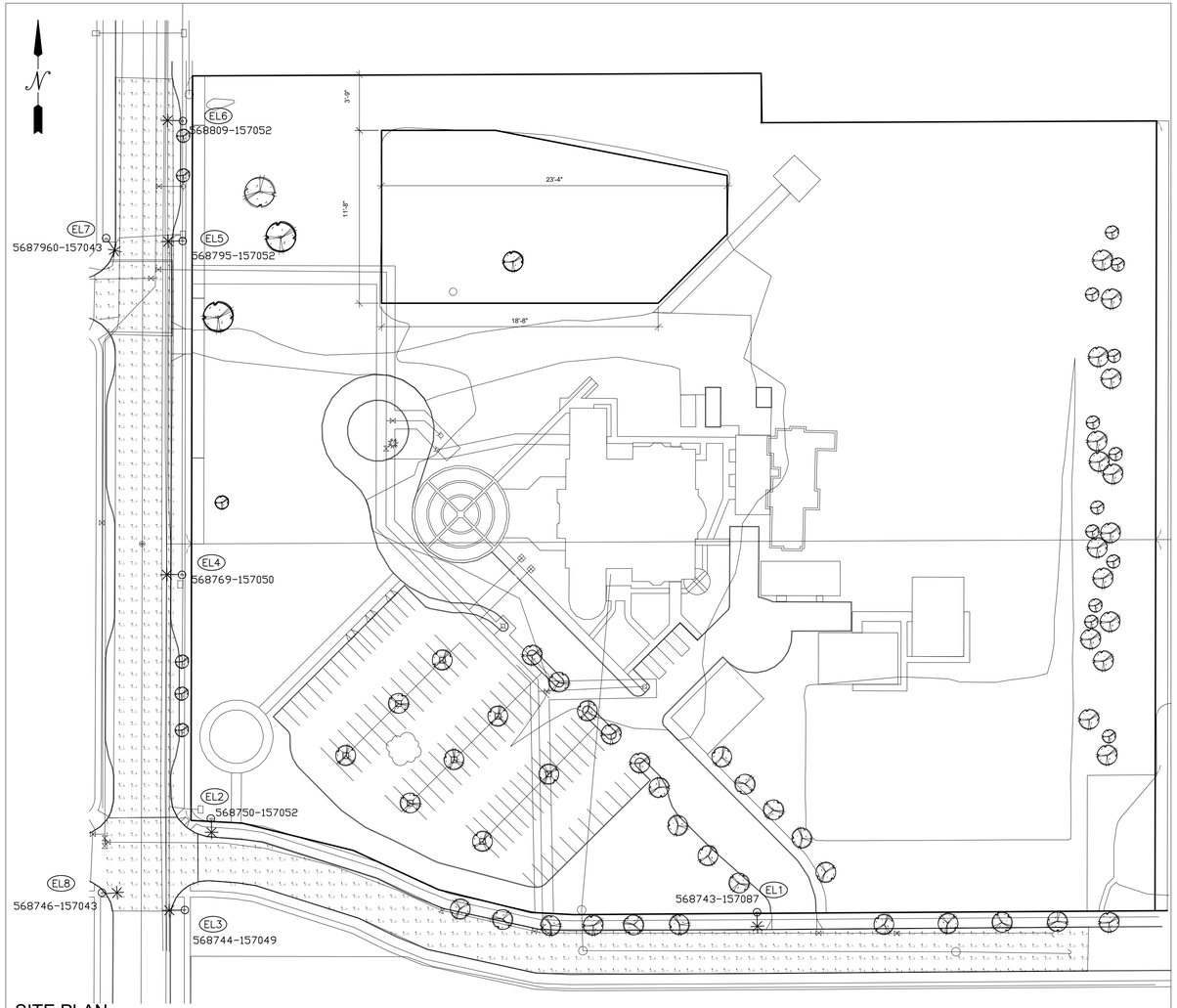
SHEET TITLE: FOODSERVICE EQUIPMENT PLAN

SHEET NUMBER: K-1

1 OF 7.7

PROJECT NUMBER: 80104126

12:17 PM 2/04/20 W:\DRAWINGS\ST ANDREW PARISH HALL\80104126E.DWG




SITE PLAN

SCALE: 1"=60'

## EXISTING STREET LIGHT TABLE

| SITE # | POLE | | | | | LUMINAIRE | | WO # | BILLING SCH. | TOTAL CONN LOAD | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | GRID # | TAG # | TYPE | MTG HT. | ARM | WATTS | STYLE | | | | |
| EL1 | 568743<br>157087 | SLAF2282 | EXIST STEEL | 40' | 10' | 400W | HPS CHFL | 105093295 | 52 | 120/240 | |
| EL2 | 568750<br>157052 | SLAF2283 | EXIST STEEL | 40' | 10' | 400W | HPS CHFL | 105093295 | 52 | 120/240 | |
| EL3 | 568744<br>157049 | SLAL5880 | EXIST WOOD | 25' | 8' | 98W | LED CHFL | 105093295 | 53 | 120/240 | |
| EL4 | 568769<br>157050 | SLAT4665 | EXIST WOOD | 25' | 12' | 98W | LED CHFL | 105093295 | 53 | 120/240 | |
| EL5 | 568795<br>157052 | SLAT4666 | EXIST WOOD | 25' | 12' | 98W | LED CHFL | 105093295 | 53 | 120/240 | |
| EL6 | 568809<br>157052 | SLAT4667 | EXIST WOOD | 25' | 14' | 98W | LED CHFL | 105093295 | 53 | 120/240 | |
| EL7 | 568960<br>157043 | SLAP0463 | EXIST WOOD | 25' | 6' | 52W | LED CHFL | 105093295 | 53 | 120/240 | |
| EL8 | 568746<br>157043 | SLAH1401 | EXIST WOOD | 25' | 8' | 138W | LED CHFL | 105093295 | 53 | 120/240 | |

Washington St E

Illuminance (Fc)
Average = 0.67
Maximum = 3.6
Minimum = 0.0
Avg/Min Ratio = N.A.

Valley Ave E

Illuminance (Fc)
Average = 0.69
Maximum = 3.3
Minimum = 0.0
Avg/Min Ratio = N.A.

Valley Ave E & Langdon St

Illuminance (Fc)
Average = 0.61
Maximum = 1.8
Minimum = 0.1
Avg/Min Ratio = 6.10

Valley Ave E & Washington St

Illuminance (Fc)
Average = 2.75
Maximum = 5.6
Minimum = 0.7
Avg/Min Ratio = 3.93

The existing lighting levels for Valley Ave E do not meet the city requirement for "Minor Arterial", Intermediate roadways of 0.8 Avg FC and 3:1 uniformity ratio.

The existing lighting levels for Washington St do not meet the city requirement for "Collector Arterial", Intermediate roadways of 0.6 Avg FC and 4:1 uniformity ratio.

Veiling Luminance cannot be measured here as the measurement requires a flat surface straightaway from measurement area as you approach the area from 300' away. Due to the curve in the roadway, PSE is unable to measure this like we would be able to on a typical highway.

## EROSION & SEDIMENT CONTROL REQUIREMENTS

EROSION & SEDIMENT CONTROL SHALL BE PER PSE STANDARD PRACTICE 0150.3200 TECHNIQUES FOR TEMPORARY EROSION & SEDIMENT CONTROL & ANY ADDITIONAL LOCAL JURISDICITON REQUIREMENTS. (LOCAL JURISDICTIONS MAY HAVE ADDITIONAL REQUIREMENTS INCLUDING NOTES DETAILING WHERE EROSION OR SEDIMENT CONTROL STRUCTURES ARE TO BE INSTALLED, CROSS SECTION DETAILS OF THE TYPICAL EROSION STRUCTURES, & SPECIAL REQUIREMENTS FOR WORK IN SENSITIVE AREAS.)

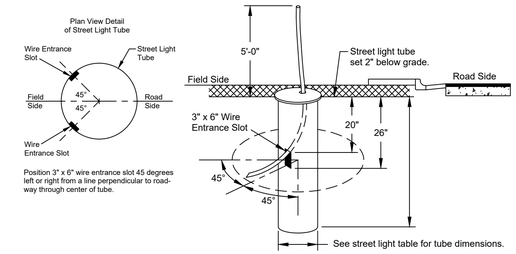
# STREET LIGHT NOTES

## POTELCO:

1. ALL STREET LIGHTING POLES ARE TO BE INSTALLED PER STANDARD 6375.4800 (page #2) IN THE "LINE WORK PRACTICES MANUAL".
2. ALL POLES (WOOD, CONCRETE OR FIBERGLASS) ARE TO BE SET PLUMB AND EMBEDDED TO THE GROUND LINE MARKED ON THE POLE.
3. BACKFILL AROUND POLE WITH 5/8" MINUS GRAVEL AND COMPACT IN 6" LIFTS. (PEA GRAVEL AND NATIVE SOILS ARE NOT ACCEPTABLE.) APPROXIMATELY 1 CU. YD. OF 5/8" MINUS CRUSHED ROCK WILL BE REQUIRED.
4. IN ALL SHOEBOX AND COBRAHEAD INSTALLATIONS, THE LUMINAIRE MUST BE LEVELED.

## DEVELOPER/CUSTOMER:

1. THE DEVELOPER IS REQUIRED TO SUPPLY AND INSTALL PLASTIC (NON PAPER) STREET LIGHT TUBES (MINIMUM 18" DIAMETER) TO AID IN THE INSTALLATION OF THE STREET LIGHTING POLES.
2. DEVELOPER MUST SUPPLY DURABLE LID/COVER AT EACH STREET LIGHT TUBE.
3. DEVELOPER TO PROVIDE ALL TRENCHING AND CONDUIT WITH PULL-STRINGS FOR STREET LIGHTING CIRCUITRY.
4. CONDUIT SHALL BE SCH 40 PVC, CONDUIT CROSSING ROADWAYS OR DRIVEWAYS SHALL BE SCH 80 PVC.




## STREET LIGHT TUBE DETAIL

SCALE: NONE

FOREMAN (CHECK BOX WHEN COMPLETED)

- ☐ PSE Equipment LOCKED/SECURED & Work Area left in CLEAN/SAFE Condition.
- ☐ Grid, Cable, and Switch numbers INSTALLED & VERIFIED.
- ☐ Field Changes RED-LINED on As-built.
- ☐ Material VERIFIED and CHANGES noted on Paperwork.
- ☐ Total PRIMARY Cable noted on As-built.
- ☐ Company ID#'s RECORDED in correct location on As-built.
- ☐ Indicate correct FUSE SIZE on As-built & VERIFY proper PHASE.
- ☐ Correct QA Checklist(s) reviewed.
- ☐ Deviations noted on the As-built and their reason.

☐ I certify that the work performed meets PSE's standards and procedures and that all quality requirements are met.

Foreman's Signature _____

Print Name _____ Date _____

| PROJECT PHASE | | NOTIF# | ORDER# |
|---|---|---|---|
| PWR | Superior | | |
| | New Install | 508417543 | 105093295 |
| | St. Light | | |
| | Removal | | |
| | Temporary | | |
| | Job Order | | |
| GAS | Distribution | | |
| | HP Main | | |
| | HP Svc/MS | | |
| CABLE TV | | | |
| PHONE | | | |

**Project Manager Contact Information:**

Mike Hammons
425-765-1395 *Cell Phone*

| | | | | |
|---|---|---|---|---|
| "Locates Required" | Developer (Yes) | | Yes | PSE |
| | | | No (No) | |
| "Outages Required" | | | Yes (No) | |
| "Flagging Required" | (Yes) | | No | |

***Vicinity Map*** ***47.205621, -122.229396***

***Owner / Developer Contact Info***

ATTN: Seri Hamm 253-383-3257 cell

For contacts below dial 1-888-CALL PSE (225-5773)

**CALL (800) 424-5555**
**2 BUSINESS DAYS BEFORE YOU DIG**

THIS SKETCH NOT TO BE RELIED UPON FOR EXACT LOCATION OF EXISTING FACILITIES

105093295

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X | NEW BUSINESS | | | ☐ | CORRECTIVE / 10 DAY WAIVED | | REAL ESTATE/EASEMENT N/A | | PERMIT N/A | |
| 3 | | | | | | | FUNCTION | CONTACT | PHONE NO | DATE |
| 2 | | | | | | | ACCOUNT MGR | Lars Larson | 425-456-2701 | |
| 1 | | | | | | | ENGR - POWER | Andrew Allwardt | 425-603-5904 | 12/12/19 |
| REV# | | BY | DESCRIPTION | | | | ENGR - GAS | | | |
| COUNTY PIERCE | | Emer Sect | Gas Wk Ctr | POWER WK CTR 3515 | | | DRAWN BY | Andrew Allwardt | 425-603-5904 | 12/12/19 |
| | | | | | | | CHECKED BY | | | |
| 1/4 SEC | | OP MAP | | PLAT MAP | | | APPROVED BY | | | |
| | | | | | | | FOREMAN #1 | | | |
| U-MAP NO (POWER) 2004E096 | | OH CKT MAP 2004E096 | | UG CKT MAP 2004E096 | CIRCUIT NO GAR-15 | | FOREMAN #2 | | | |
| | | | | | | | MAPPING | | | |
| JOINT FACILITIES ARRANGEMENTS | | | | | | | | | | |
| UTILITIES | | N/A | | N/A | | N/A | | N/A | | |
| CONTACT | | N/A | | N/A | | N/A | | N/A | | |
| PHONE# | | N/A | | N/A | | N/A | | N/A | | |

PUGET SOUND ENERGY

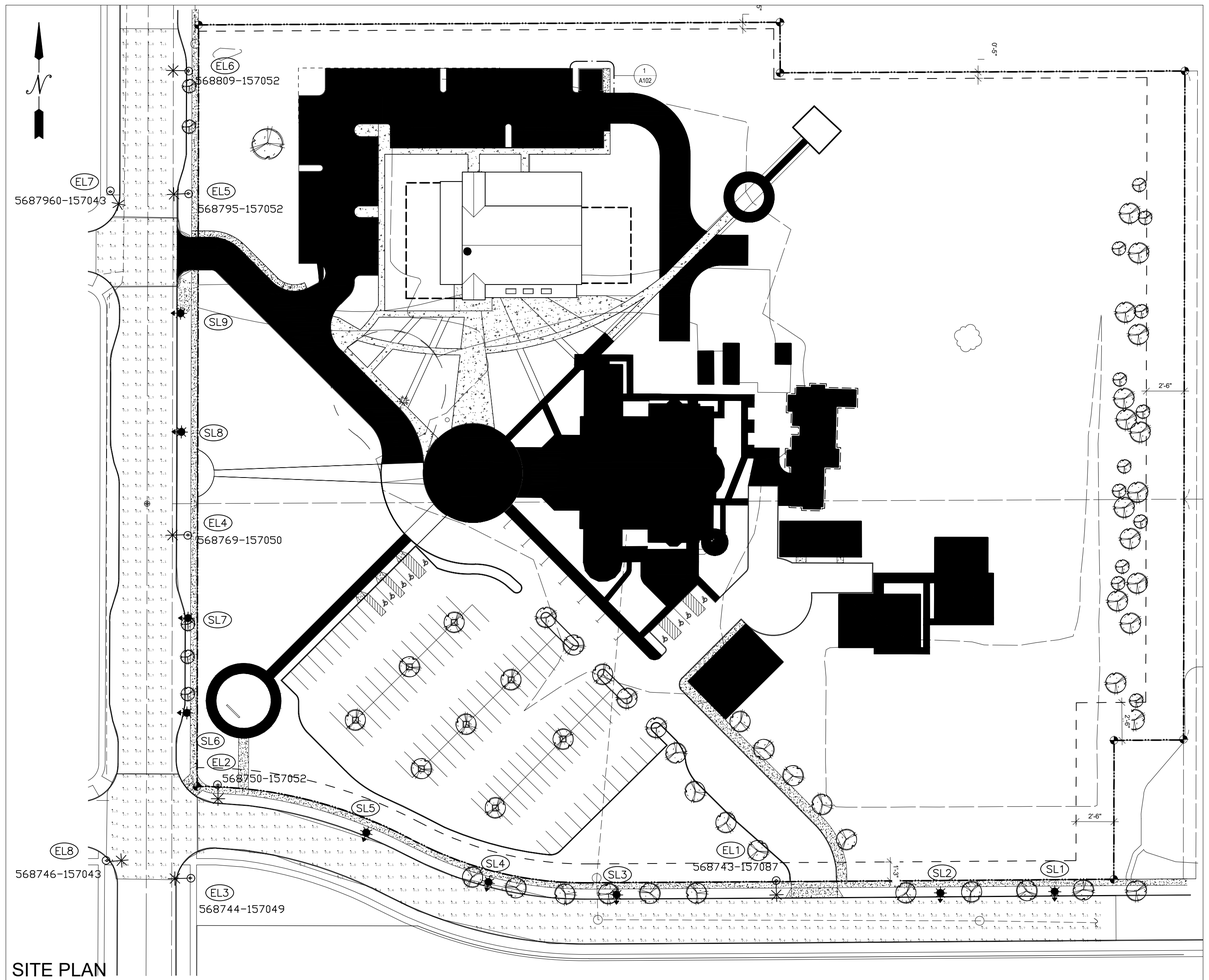
DESIGNED BY: PSE

ST ANDREWS CHURCH

EXISTING LIGHTS STREET LIGHT ANALYSIS

1401 VALLEY AVE E, SUMNER WA 98390

| INCIDENT | MAOP |
|---|---|
| Gas Order | Elect Order 105093295 |
| SCALE 1"=60' | PAGE 1 of 1 |




SITE PLAN

SCALE: 1"=60'

```
Washingt St E

Illuminance (Fc)
Average = 0.71
Maximum = 2.8
Minimum = 0.2
Avg/Min Ratio = 3.55
```

```
Valley Ave E

Illuminance (Fc)
Average = 0.90
Maximum = 3.7
Minimum = 0.3
Avg/Min Ratio = 3.00
```

```
Valley Ave E & Langdon St

Illuminance (Fc)
Average = 1.02
Maximum = 2.0
Minimum = 0.3
Avg/Min Ratio = 3.40
```

```
Valley Ave E & Washingt St E

Illuminance (Fc)
Average = 1.84
Maximum = 5.5
Minimum = 0.6
Avg/Min Ratio = 3.07
```

DEVELOPER NOTES:
-PROVIDE ALL TRENCHING, CONDUIT W/PULLSTRINGS, AND 4'X18" SONOTUBES AT SL LOCATIONS.
-STUB UP CONDUIT AT HANDHOLE & STREET LIGHT LOCATIONS.

POTELCO NOTES:
SL1-SL9:
-INSTALL 15' MH GREEN WHATLEY ALLENTOWN SERIES 406 POLES WITH 60W LED GREEN KING K118 POST TOP LUMINARIES.
-INSTALL STREET LIGHT TAGS

EL1-EL6, EL8:
-REMOVE EXISTING LUMINARIES FROM EXISTING ARMS.
-INSTALL NEW LUMINARIES AS NOTED IN CHANGEOUT STREET LIGHT TABLE

EL7:
-REMOVE LUMINAIRE & ARM
-INSTALL 16FT ARM & 47W LED T3 CHFL.
-ORIENT AT PREVIOUS HEIGHT & ORIENTATION.

The existing lighting levels for Valley Ave E meets the city requirement for "Minor Arterial", Intermediate roadways of 0.8 Avg FC and 3:1 uniformity ratio.

The existing lighting levels for Washington St meets the city requirement for "Collector Arterial", Intermediate roadways of 0.6 Avg FC and 4:1 uniformity ratio.

Veiling Luminance cannot be measured here as the measurement requires a flat surface straightaway from measurement area as you approach the area from 300' away. Due to the curve in the roadway, PSE is unable to measure this like we would be able to on a typical highway.

## STREET LIGHT NOTES

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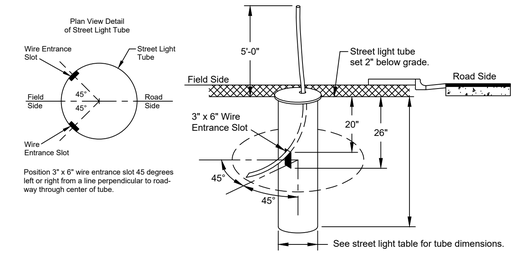



STREET LIGHT TUBE DETAIL

SCALE: NONE

FOREMAN (CHECK BOX WHEN COMPLETED)

- ☐ PSE Equipment LOCKED/SECURED & Work Area left in CLEAN/SAFE Condition.
- ☐ Grid, Cable, and Switch numbers INSTALLED & VERIFIED.
- ☐ Field Changes RED-LINED on As-built.
- ☐ Material VERIFIED and CHANGES noted on Paperwork.
- ☐ Total PRIMARY Cable noted on As-built.
- ☐ Company ID#'s RECORDED in correct location on As-built.
- ☐ Indicate correct FUSE SIZE on As-built & VERIFY proper PHASE.
- ☐ Correct QA Checklist(s) reviewed.
- ☐ Deviations noted on the As-built and their reason.

☐ I certify that the work performed meets PSE's standards and procedures and that all quality requirements are met.

Foreman's Signature _____

Print Name _____ Date _____

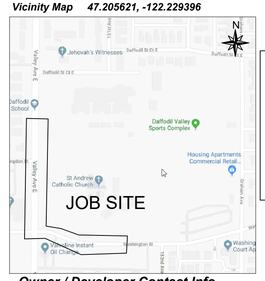
| PROJECT PHASE | | NOTIF# | ORDER# |
|---|---|---|---|
| PWR | Superior | | |
| | New Install | 508417543 | 105093295 |
| | St. Light | | |
| | Removal | | |
| | Temporary | | |
| | Job Order | | |
| GAS | Distribution | | |
| | HP Main | | |
| | HP Svc/MS | | |
| CABLE TV | | | |
| PHONE | | | |

**Project Manager Contact Information:**

Mike Hammons
425-765-1395 *Cell Phone*

"Locates Required" Developer (Yes) Yes PSE
No (No)
"Outages Required" Yes (No)
"Flagging Required" (Yes) No

*Vicinity Map* *47.205621, -122.229396*




105093295

*Owner / Developer Contact Info*

ATTN: Seri Hamm 253-383-3257 cell

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**CALL (800) 424-5555**
**2 BUSINESS DAYS BEFORE YOU DIG**

THIS SKETCH NOT TO BE RELIED UPON FOR EXACT LOCATION OF EXISTING FACILITIES

## EXISTING STREET LIGHT TABLE - CHANGEOUT

| SITE # | POLE GRID # | POLE TAG # | POLE TYPE | LUMINAIRE PREVIOUS LUMINAIRE | LUMINAIRE NEW LUMINAIRE | LUMINAIRE PREVIOUS ARM LENGTH | LUMINAIRE NEW ARM LENGTH | BILLING SCH. | WO #'S | TOTAL CONN LOAD | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| EL1 | 568743 157087 | SLAF2282 | EXIST STEEL | 400W HPS | 39W LED | 10' | -- | 51 | 101xxxxxx 108xxxxxx | 120/240 | |
| EL2 | 568750 157052 | SLAF2283 | EXIST STEEL | 400W HPS | 39W LED | 10' | -- | 51 | 101xxxxxx 108xxxxxx | 120/240 | |
| EL3 | 568744 157049 | SLAL5880 | EXIST WOOD | 98W LED | 71W LED | 8' | -- | 53 | 101xxxxxx 108xxxxxx | 120/240 | |
| EL4 | 568769 157050 | SLAT4665 | EXIST WOOD | 98W LED | 39W LED | 12' | -- | 53 | 101xxxxxx 108xxxxxx | 120/240 | |
| EL5 | 568795 157052 | SLAT4666 | EXIST WOOD | 98W LED | 71W LED | 12' | -- | 53 | 101xxxxxx 108xxxxxx | 120/240 | |
| EL6 | 568809 157052 | SLAT4667 | EXIST WOOD | 98W LED | 71W LED | 14' | -- | 53 | 101xxxxxx 108xxxxxx | 120/240 | |
| EL7 | 568960 157043 | SLAP0463 | EXIST WOOD | 52W LED | 47W LED T3 | 6' | 16' | 53 | 101xxxxxx 108xxxxxx | 120/240 | NEW ARM LENGHT |
| EL8 | 568746 157043 | SLAH1401 | EXIST WOOD | 138W LED | 111W LED | 8' | -- | 53 | 101xxxxxx 108xxxxxx | 120/240 | |

## STREET LIGHT TABLE - NEW INSTALL

| SITE # | POLE GRID # | POLE TAG # | POLE TYPE | POLE MTG HT. | POLE ARM | LUMINAIRE WATTS | LUMINAIRE STYLE | WO # | BILLING SCH. | TOTAL CONN LOAD | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SL1 | 568xxx 157xxx | | GRN WHATLEY ALLENTOWN SERIES 406 | 15' | -- | 60W | LED K118 GREEN | 105093295 | 51 | 120/240 | |
| SL2 | 568xxx 157xxx | | GRN WHATLEY ALLENTOWN SERIES 406 | 15' | -- | 60W | LED K118 GREEN | 105093295 | 51 | 120/240 | |
| SL3 | 568xxx 157xxx | | GRN WHATLEY ALLENTOWN SERIES 406 | 15' | -- | 60W | LED K118 GREEN | 105093295 | 51 | 120/240 | |
| SL4 | 568xxx 157xxx | | GRN WHATLEY ALLENTOWN SERIES 406 | 15' | -- | 60W | LED K118 GREEN | 105093295 | 51 | 120/240 | |
| SL5 | 568xxx 157xxx | | GRN WHATLEY ALLENTOWN SERIES 406 | 15' | -- | 60W | LED K118 GREEN | 105093295 | 51 | 120/240 | |
| SL6 | 568xxx 157xxx | | GRN WHATLEY ALLENTOWN SERIES 406 | 15' | -- | 60W | LED K118 GREEN | 105093295 | 51 | 120/240 | |
| SL7 | 568xxx 157xxx | | GRN WHATLEY ALLENTOWN SERIES 406 | 15' | -- | 60W | LED K118 GREEN | 105093295 | 51 | 120/240 | |
| SL8 | 568xxx 157xxx | | GRN WHATLEY ALLENTOWN SERIES 406 | 15' | -- | 60W | LED K118 GREEN | 105093295 | 51 | 120/240 | |
| SL9 | 568xxx 157xxx | | GRN WHATLEY ALLENTOWN SERIES 406 | 15' | -- | 60W | LED K118 GREEN | 105093295 | 51 | 120/240 | |

### EROSION & SEDIMENT CONTROL REQUIREMENTS

EROSION & SEDIMENT CONTROL SHALL BE PER PSE STANDARD PRACTICE 0150.3200 TECHNIQUES FOR TEMPORARY EROSION & SEDIMENT CONTROL & ANY ADDITIONAL LOCAL JURISDICITON REQUIREMENTS. (LOCAL JURISDICTIONS MAY HAVE ADDITIONAL REQUIREMENTS INCLUDING NOTES DETAILING WHERE EROSION OR SEDIMENT CONTROL STRUCTURES ARE TO BE INSTALLED, CROSS SECTION DETAILS OF THE TYPICAL EROSION STRUCTURES, & SPECIAL REQUIREMENTS FOR WORK IN SENSITIVE AREAS.)

| | | | | | |
|---|---|---|---|---|---|
| X | NEW BUSINESS | | CORRECTIVE / 10 DAY WAIVED | REAL ESTATE/EASEMENT N/A | PERMIT N/A |

| REV# | | BY | DESCRIPTION | FUNCTION | CONTACT | PHONE NO | DATE |
|---|---|---|---|---|---|---|---|
| 3 | | | | ACCOUNT MGR | Lars Larson | 425-456-2701 | |
| 2 | | | | ENGR - POWER | Andrew Allwardt | 425-603-5904 | 12/12/19 |
| 1 | | | | ENGR - GAS | | | |

| COUNTY | | | | DRAWN BY | Andrew Allwardt | 425-603-5904 | 12/12/19 |
|---|---|---|---|---|---|---|---|
| PIERCE | Emer Sect | Gas Wk Ctr | POWER WK CTR 3515 | CHECKED BY | | | |
| 1/4 SEC | OP MAP | | PLAT MAP | APPROVED BY | | | |
| | | | | FOREMAN #1 | | | |
| U-MAP NO (POWER) | OH CKT MAP | UG CKT MAP | CIRCUIT NO | FOREMAN #2 | | | |
| 2004E096 | 2004E096 | 2004E096 | GAR-15 | MAPPING | | | |

**JOINT FACILITIES ARRANGEMENTS**

| | | | | |
|---|---|---|---|---|
| UTILITIES | N/A | N/A | N/A | N/A |
| CONTACT | N/A | N/A | N/A | N/A |
| PHONE# | N/A | N/A | N/A | N/A |

PUGET SOUND ENERGY

**DESIGNED BY: PSE**

ST ANDREWS CHURCH

EXISTING LIGHTS STREET LIGHT ANALYSIS

1401 VALLEY AVE E, SUMNER WA 98390

| INCIDENT | MAOP |
|---|---|
| Gas Order | Elect Order 105093295 |
| SCALE 1"=60' | PAGE 1 of 1 |

## 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 (2) | PARTITION LOAD | CONCENTRATED LOADS |
|---|---|---|---|---|
| ROOF | 15 PSF | 25 PSF (1) | | 300# |
| WOOD TRUSSES | 15 PSF | 25 PSF (1) | | |
| MEZZANINE | 15 PSF | 60 PSF (3) | | |

(1) LIVE LOADS EXCEPT SNOW LOADS ARE REDUCED PER IBC SECTION 1607.10.
(2) LIVE LOAD REDUCTION NOT PERMITTED EXCEPT AS NOTED IN IBC SECTION 1607.10.

SNOW: (MINIMUM ROOF SNOW LOAD = 25 PSF)

LATERAL FORCES

LATERAL FORCES ARE TRANSMITTED BY DIAPHRAGM ACTION OF ROOF AND FLOORS TO BRACED FRAME/SHEAR WALLS. LOADS ARE THEN TRANSFERRED TO FOUNDATION BY BRACED FRAME/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), $V_{ULT}$ = 110 MPH
- RISK CATEGORY PER TABLE 1.5-1 = II
- 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 | 19.9 | 19.9 | 19.9 | -21.8 | -25.5 | -25.5 |
| 20 SF | 19.4 | 19.4 | 19.4 | -20.7 | -24.3 | -24.3 |
| 50 SF | 18.6 | 18.6 | 18.6 | -19.2 | -22.9 | -22.9 |
| 100 SF | 18.1 | 18.1 | 18.1 | -18.1 | -21.8 | -21.8 |

| 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 | 21.8 | 21.8 | -23.6 | -29.1 | -36.9 | -36.9 |
| 20 SF | 20.8 | 20.8 | -22.6 | -27.2 | -35.8 | -35.8 |
| 50 SF | 19.5 | 19.5 | -21.3 | -24.6 | -34.3 | -34.3 |
| 100 SF | 18.5 | 18.5 | -20.4 | -22.6 | -33.2 | -33.2 |
| 500 SF | 16.2 | 16.2 | -18.1 | -18.1 | - | - |

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 = 1.0
RISK CATEGORY OF BUILDING PER TABLE 1.5-1 = II
SPECTRAL RESPONSE ACCELERATIONS Ss = 1.24 & $S_1$ = 0.474
SITE CLASS PER TABLE 20.3-1 = E
DESIGN SPECTRAL RESPONSE ACCELERATIONS $S_{DS}$ = 0.744 & $S_{D1}$ = 0.758
SEISMIC DESIGN CATEGORY = D
W = EFFECTIVE SEISMIC WEIGHT OF BUILDING = 195 K
ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE PROCEDURE
RESPONSE MODIFICATION FACTOR PER TABLE 12.2-1, R = 6.5
Cs = 0.144
DESIGN BASE SHEAR V = 28.1 K

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 (GEOTECHNICAL ENGINEERING SERVICES REPORT, ST, ANDREW CATHOLIC CHURCH & PARISH HALL BY GEO ENGINEERS DATED JUNE 25TH, 2019).

SOIL BEARING PRESSURE: 1500 PSF

PASSIVE RESISTANCE: 200 PCF (INCLUDES F.O.S. ≥ 1.5)
COEFFICIENT OF FRICTION: 0.4 (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 6". 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

CAST-IN-PLACE 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%.

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 |
|---|---|---|---|---|---|
| SLABS ON GRADE - UNO | 4000 | 0.45 | 100 | 57 OR 67 | 1 |
| MAT FOUNDATIONS | 5000 @ 56 DAYS | 0.50 | 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. MAXIMUM WATER CONTENT 240 PCY.
2. 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.

FLOATING & FINISHING OPERATIONS

WATER SHALL NOT BE ADDED TO THE CONCRETE SURFACE DURING FLOATING & FINISHING OPERATIONS. PRE-APPROVED EVAPORATION RETARDER SPECIFICALLY DESIGNED FOR FLOATING & FINISHING OPERATIONS ARE ACCEPTABLE.

COLD WEATHER PLACEMENT:

1. COLD WEATHER IS DEFINED BY ACI 306 AS "A PERIOD WHEN FOR MORE THAN 3 SUCCESSIVE DAYS THE MEAN DAILY TEMPERATURE DROPS BELOW 40° F."
2. NO CONCRETE SHALL BE PLACED ON FROZEN OR PARTIALLY FROZEN GROUND. THAWING THE GROUND WITH HEATERS IS PERMISSIBLE.
3. CONCRETE MIX TEMPERATURES SHALL BE AS SHOWN BELOW. HEATING OF WATER AND/OR AGGREGATES MAY BE REQUIRED TO ATTAIN THESE TEMPERATURES.
4. THE CONCRETE MAY REQUIRE PROTECTION FOR 4-7 DAYS AFTER POURING. IF TEMPERATURES REMAIN BELOW FREEZING, INSULATING BLANKET COVERAGE IS REQUIRED. IF TEMPERATURES ARE SLIGHTLY BELOW FREEZING (30° F MIN.) AT NIGHT AND ABOVE FREEZING DURING THE DAY, KRAFT PAPER WITH COMPLETE COVERAGE MAY BE USED IN LIEU OF INSULATED BLANKETS.
5. NO ADDITIVES CONTAINING CHLORIDES SHALL BE USED. USE "POZZUTEC 20+" BY MASTER BUILDERS OR "POLARSET" BY W.R. GRACE OR PRE-APPROVED EQUAL.

| CONDITION OF PLACEMENT AND CURING | | WALLS & SLABS | FOOTINGS |
|---|---|---|---|
| MIN. TEMP. FRESH CONCRETE AS MIXED FOR WEATHER INDICATED, DEGREES F. | ABOVE 30° F.<br>0° TO 30° F.<br>BELOW 0° F. | 60°<br>65°<br>70° | 55°<br>60°<br>65° |
| MIN. TEMP. FRESH CONCRETE AS PLACED AND MAINTAINED, DEGREES F. | | 55° | 50° |
| MAX. ALLOWABLE GRADUAL DROP IN TEMP. THROUGHOUT FIRST 24 HOURS AFTER END OF PROTECTION, DEGREES F. | | 50° | 40° |

**STRUCTURAL DRAWING INDEX**


| SHEET NUMBER | SHEET DESCRIPTION |
|---|---|
| S001 | GENERAL NOTES |
| S002 | GENERAL NOTES |
| S003 | GENERAL NOTES |
| S004 | GENERAL NOTES |
| S101 | FOUNDATION PLAN |
| S102 | ROOF FRAMING PLAN |
| S201 | FOUNDATION DETAILS |
| S301 | FRAMING DETAILS |
| S302 | FRAMING DETAILS |
| S303 | FRAMING DETAILS |
| S304 | FRAMING DETAILS |
| Grand total: 11 | |



RMC Architects
RMC Architects, PLLC • 1223 Railroad Avenue • Bellingham, WA 98225
P:360.676.7733 • F:360.738.0448 • www.rmcarchitects.com


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Archdiocese of Seattle
St. Andrew Catholic Church Parish Hall
1401 Valley Avenue East
Sumner, WA 98390-2720

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|---|---|
| Job No: | 1851 Date: 2/7/2020 |
| File No: | 19-232 |
| Drawn By: | MF |
| Checked By: | DRS |
| Issued For: | PERMIT |

GENERAL NOTES

S001


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HOT OR WINDY WEATHER PLACEMENT

HOT WEATHER IS DEFINED BY ACI 305 AS "ANY COMBINATION OF HIGH AIR TEMPERATURE, LOW RELATIVE HUMIDITY, AND WIND VELOCITY, TENDING TO IMPAIR THE QUALITY OF FRESH HARDENED CONCRETE. ACI 305 FIGURE 2.1.5 SHALL BE USED BY THE CONTRACTOR TO ESTIMATE THE RATE OF EVAPORATION. WHEN THE ESTIMATED RATE OF EVAPORATION IS GREATER THAN O.2 PSF/HOUR THE PLACEMENT SHALL BE CONSIDERED A HOT WEATHER PLACEMENT. PRECAUTIONS AGAINST PLASTIC SHRINKAGE CRACKING ARE NECESSARY. PRECAUTIONS TAKEN BY THE CONTRACTOR VARY DEPENDING UPON THE FACTORS ASSOCIATED WITH WATER EVAPORATION AND INCLUDE BUT ARE NOT LIMITED TO:

1. LIMITING CONCRETE TEMPERATURE TO 100°F AT TIME OF PLACEMENT.

2. APPLICATION OF AN EVAPORATION RETARDER.

3. USE OF FOG SPRAY.

4. REDUCTION OF POUR SIZE.

5. PLACING CONCRETE AT NIGHT.

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 4 BELOW UNLESS OTHERWISE DETAILED ON THE STRUCTURAL DRAWINGS. 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.

EMBEDDED ITEMS

1. NO ALUMINUM ITEMS SHALL BE EMBEDDED IN ANY CONCRETE.

CONCRETE CURING AND SEALING

CURING PROCEDURES SHALL COMMENCE IMMEDIATELY AFTER FINISHING CONCRETE TO MAINTAIN CONCRETE IN A MOIST CONDITION. VERIFY CURING AND/OR SEALING PRODUCTS ARE COMPATIBLE WITH FLOOR COVERINGS SHOWN ON THE ARCHITECTURAL DRAWINGS. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS. SLABS ARE DEFINED AS SLABS ON GRADE, CONCRETE ON METAL DECK, ELEVATED POST-TENSIONED OR MILD REINFORCED DECKS, AND TOPPING SLABS.

| ITEM | CONCRETE CURING NOTES |
|---|---|
| SLABS | 1, (2 OR 3 OR 4) |
| ALL OTHER CONCRETE | NONE |

CONCRETE CURING NOTES:

1. WHEN THE ESTIMATED EVAPORATION RATE IS GREATER THAN 0.2 PSF/HOUR PROVIDE A SPRAY APPLIED EVAPORATION RETARDER IMMEDIATELY AFTER CONCRETE PLACEMENT. THE EVAPORATION RATE MAY BE CALCULATED PER ACI 305 FIGURE 2.1.5.

2. PROVIDE PRE-APPROVED CONTINUOUS WET CURE METHOD FOR A MINIMUM OF 14 DAYS.

3. APPLY A LIQUID MEMBRANE FORMING CURING COMPOUND, CONFORMING TO ASTM C309 TYPE 1 CLASS B SPECIFICATIONS OR ASTM C1315 TYPE 1 CLASS A SPECIFICATIONS, PER MANUFACTURER'S RECOMMENDATIONS IMMEDIATELY AFTER FINAL FINISHING. CURING COMPOUND SHALL BE COMPATIBLE WITH ARCHITECTURAL FLOOR COVERINGS AND SEALERS.

4. PROVIDE 'ULTRACURE MAX' MOISTURE RETAINING COVER BY MCTECH GROUP, OR APPROVED EQUAL, FOR A MINIMUM OF 14 DAYS.

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.

## REINFORCING STEEL

REINFORCING STEEL SHALL CONFORM TO:

ASTM A615, GRADE 60 TYPICAL UNLESS NOTED OTHERWISE.

DETAIL FABRICATE AND PLACE PER ACI 315 AND ACI 318.

REINFORCING SPLICE AND DEVELOPMENT LENGTH SCHEDULE, Fy=60 KSI (UNLESS NOTED OTHERWISE)

| BAR SIZE | MINIMUM LAP SPLICE LENGTHS ("Ls") | | MINIMUM DEVELOPMENT LENGTHS ("Ld") | | MINIMUM EMBEDMENT LENGTH FOR STANDARD END HOOKS ("Ldh") |
|---|---|---|---|---|---|
| | TOP BARS (1) | OTHER BARS | TOP BARS (1) | OTHER BARS | |
| #3 | 2'-0" | 1'-6" | 1'-6" | 1'-3" | 0'-7" |
| #4 | 2'-8" | 2'-0" | 2'-0" | 1'-7" | 0'-9" |
| #5 | 3'-4" | 2'-7" | 2'-7" | 2'-0" | 1'-0" |
| #6 | 4'-0" | 3'-1" | 3'-1" | 2'-4" | 1'-2" |
| #7 | 5'-10" | 4'-6" | 4'-6" | 3'-6" | 1'-5" |
| #8 | 6'-8" | 5'-2" | 5'-2" | 3'-11" | 1'-7" |

SPLICE TABLE NOTES:

1. "TOP BARS" ARE HORIZONTAL BARS WITH MORE THAN 12" DEPTH OF CONCRETE CAST BELOW THEM.

REINFORCING STEEL COVER

PROVIDE CONCRETE COVER OVER REINFORCEMENT AS FOLLOWS, UNLESS NOTED OTHERWISE:

CONCRETE CAST AGAINST EARTH ---------- 3"
EXPOSED TO WEATHER OR EARTH ---------- 2"
TIES ON BEAMS AND COLUMNS ---------- 1-1/2"
WALLS AND SLABS NOT EXPOSED TO WEATHER---- 3/4"

## POST-INSTALLED ANCHORS

POST-INSTALLED ANCHORS: SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH REBAR. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. INSTALLER SHALL BE QUALIFIED AND TRAINED BY THE MANUFACTURER. HOLES SHALL BE HAMMER DRILLED ONLY (ROTARY DRILLED ONLY AT UNREINFORCED MASONRY - NO HAMMER TOOLS).

CONCRETE ANCHORS:
- ADHESIVE ANCHORS: HILTI HIT-HY 200 (ICC-ESR-3187)
  *CONCRETE SHALL BE A MINIMUM OF 21 DAYS OLD AT TIME OF INSTALLATION.
  *CONCRETE SHALL BE IN THE TEMPERATURE RANGE AS REQUIRED BY THE CONCRETE MANUFACTURER.
  *HOLE SHALL BY HAMMER-DRILLED ONLY.
  *HOLE SHALL BE DRY AT TIME OF INSTALLATION.
  *INSTALLER OF HORIZONTAL OR UPWARDLY INCLINED (ANY POSITION EXCEPT DIRECTLY DOWNWARD) ANCHORS SHALL ALSO BE CERTIFIED BY THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM.
- EXPANSION ANCHORS: KWIKBOLT TZ (ICC ESR-1917) BY HILTI, INC. OR STRONG-BOLT 2 (ICC ESR-3037) BY SIMPSON STRONG TIE, INC.
- SCREW ANCHORS: KWIK HUS-EZ (ICC ESR-3027) BY HILTI, INC. OR TITEN HD (ICC ESR-2713) BY SIMPSON STRONG TIE, INC.

## WELDING

STRUCTURAL STEEL: WELD IN ACCORDANCE WITH "STRUCTURAL WELDING CODE" AWS D1.1.

CERTIFICATION: ALL WELDING SHALL BE PERFORMED BY WABO/AWS CERTIFIED WELDERS. WELDERS SHALL BE PREQUALIFIED FOR EACH POSITION AND WELD TYPE WHICH THE WELDER WILL BE PERFORMING.

## CARPENTRY:

NAILS: CONNECTION DESIGNS ARE BASED ON "COMMON WIRE" NAILS WITH THE FOLLOWING PROPERTIES:

| PENNYWEIGHT | DIAMETER (INCHES) | LENGTH (INCHES) | TRACKER** EMBOSSED HEAD / COLOR |
|---|---|---|---|
| 8d | 0.131 | 2-1/2 | 3 / BLUE |
| 10d | 0.148 | 3 | 4 / WHITE |
| 16d | 0.162 | 3-1/2 | 6 / ORANGE |
| 20d | 0.192 | 4 | - |

FOR DIAPHRAGM OR SHEAR WALL NAILING THE FOLLOWING FASTENER TYPES MAY BE USED AT EQUIVALENT SPACING TO THAT SPECIFIED ON PLANS:

| FASTENER TYPE | DIAMETER (INCHES) | LENGTH (INCHES) | EQUIVALENT SPACING (INCHES) | | | TRACKER** EMBOSSED HEAD / COLOR |
|---|---|---|---|---|---|---|
| 8d COMMON WIRE | 0.131 | 2-1/2 | 6 | 4 | 3 | 3 / BLUE |
| 8d "DIPPED GALV. BOX" | 0.131 | 2-1/2 | 6 | 4 | 3 | E3 / NONE |
| 8d "SHINY BOX" | 0.113 | 2-1/2 | 4-1/2 | 3 | 2-1/2 | 1 / BLUE |
| 12 GA. STAPLES | 0.1055 | 1-7/8* | 6 | 5-1/2 | 4 | - |
| 14 GA. STAPLES | 0.080 | 1-1/2* | 6 | 4 | 3 | - |
| 15 GA STAPLES | 0.072 | 1-1/2* | 5 | 3 | 2-1/2 | - |
| 10d COMMON WIRE | 0.148 | 3 | 6 | 4 | 3 | 4 / WHITE |
| 10d "HOT DIPPED GALV. BOX" | 0.148 | 3 | 6 | 4 | 3 | F4 / NONE |
| 10d "SHINY BOX" | 0.128 | 3 | 4-1/2 | 3 | 2-1/4 | 3 / WHITE |

*BASED ON 15/32" PLYWOOD OR OSB.
**REFERENCE TO EMBOSSED HEAD / COLOR CODED NAILS PER TRACKERS SYSTEM.

WOOD SHEATHING (STRUCTURAL): **SHEATHING ON ROOF SURFACES SHALL BE PLYWOOD ONLY**. SHEATHING ON FLOOR AND WALLS SHALL BE PLYWOOD OR ORIENTED STRAND BOARD (OSB). PLYWOOD SHEATHING SHALL BE 5-PLY MINIMUM WHERE INDICATED AS PERFORMANCE CATAGORY 3/4" OR THICKER. WOOD SHEATHING SHALL BE "STRUCTURAL I" CONFORMING TO PS1-09 AND/OR PS2-10. ALL PANELS SHALL BEAR THE STAMP OF AN APPROVED GRADING AGENCY. SPAN RATING SHALL BE PROVIDED AS FOLLOWS: ROOF FRAMING AT 32"O.C. (48/24); ROOF FRAMING AT 24"O.C. (32/16); WALLS (32/16); FLOORS (48/24) ALL WOOD SHEATHED WALLS SHALL BE BLOCKED AT ALL PANEL EDGES UNLESS NOTED OTHERWISE.

GLUE-LAMINATED MEMBERS: CONFORM TO ANSI/AITC A190.1. MEMBERS SHALL BE COMBINATION 24F-V4 DOUGLAS FIR (DF) FOR SIMPLE SPANS AND 24F-V8 DF FOR CANTILEVERED SPANS (Fb=2400 PSI, Fv=265 PSI, E= 1.8X10^6 PSI) AND DF COMBINATION 2 FOR COLUMNS.

RMC ARCHITECTS
RMC Architects, PLLC • 1223 Railroad Avenue • Bellingham, WA 98225
P:360.676.7733 • F:360.738.0448 • www.rmcarchitects.com

DONALD R. SCOTT — STATE OF WASHINGTON — 22379 — REGISTERED PROFESSIONAL ENGINEER

Archdiocese of Seattle
St. Andrew Catholic Church Parish Hall
1401 Valley Avenue East
Sumner, WA 98390-2720

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GENERAL NOTES

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FRAMING LUMBER: STANDARDS. EACH PIECE SHALL BEAR THE GRADE TRADEMARK OF THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB), WESTERN WOOD PRODUCTS ASSOCIATION (WWPA), OR OTHER AGENCY ACCREDITED BY THE AMERICAN LUMBER STANDARD COMMITTEE (ALSC) TO GRADE UNDER ALSC CERTIFIED GRADING RULES.

SPECIES AND GRADE (BASE DESIGN VALUE)

1. 6x BEAMS AND HEADERS. "DOUG FIR-LARCH" NO. 1 (Fb=1350 PSI, Fv=170 PSI)
2. 2x TO 4x JOISTS, PURLINS AND HEADERS. "DOUG FIR-LARCH" NO. 2 (Fb=900 PSI, Fv=180 PSI) OR "HEM-FIR" NO. 1 (Fb=975 PSI, Fv=150 PSI)
3. 6x POSTS AND COLUMNS. "DOUG FIR-LARCH" NO. 1 (Fc=1000 PSI)
4. EXTERIOR STUDS, INTERIOR BEARING WALLS AND 4x COLUMNS. "DOUG FIR-LARCH" NO. 2 (Fb= 900 PSI, Fc=1350 PSI) OR "HEM-FIR" NO. 1 (Fb=975 PSI, Fc=1350 PSI).
5. INTERIOR NON-BEARING STUD WALLS. "DOUG FIR-LARCH" NO. 2 (Fb=900 PSI. Fc=1350 PSI) OR "HEM-FIR" NO. 1 (Fb=975 PSI, Fc=1350 PSI)
6. 2x & 3x T&G DECKING: "DOUG FIR-LARCH" COMMERCIAL (Fb=1450 PSI, E=1700 KSI)
7. THE MINIMUM GRADE OF ALL OTHER STRUCTURAL FRAMING. "DOUG FIR-LARCH" NO. 2 (Fb= 900 PSI, Fc=1350 PSI), OR "HEM-FIR" NO. 1 (Fb=975 PSI, Fc=1350 PSI).
8. UTILITY & STANDARD GRADES NOT PERMITTED.

STRUCTURAL COMPOSITE LUMBER (SCL): SHALL BE MANUFACTURED BY REDBUILT LLC., OR PRE-APPROVED EQUAL IN ACCORDANCE WITH APPROVED SHOP AND INSTALLATION DRAWINGS CONFORMING TO A CURRENT EVALUATION REPORT.

MIINIMUM DESIGN VALUES:

1. 2x SCL: Fb = 1700 PSI, Fv = 285 PSI, E = 1300 KSI
2. 1-3/4" SCL: Fb = 2600 PSI, Fv = 285 PSI, E = 1800 KSI
3. 3-1/2" SCL: Fb = 2900 PSI, Fv = 285 PSI, E = 2000 KSI
4. 5-1/4" SCL: Fb = 2900 PSI, Fv = 285 PSI, E = 2000 KSI
5. RIMBOARD:APA/EWS PERFORMANCE RATED RIM (PRR-401) 1-1/4" MINIMUM THICKNESS

MEMBERS HAVE BEEN DESIGNED TO SERVICEABILITY AND OTHER PERFORMANCE BASED REQUIREMENTS, WHICH MAY EXCEED MINIMUM DESIGN LOADS AND CODE REQUIREMENTS. SUBSTITUTIONS MUST MEET OR EXCEED MOMENT, SHEAR, AND STIFFNESS OF THOSE MEMBERS SPECIFIED AT THE SAME DEPTH AND SPACING.

PRESERVATIVE TREATED WOOD REQUIREMENTS:

TREATMENTS OTHER THAN THOSE LISTED BELOW ARE NOT PERMITTED.

| | | APPLICATION | SPECIFIED MATERIAL | PRESERVATIVE TREATMENT (1) | CONNECTORS & FASTENERS (2)(3) |
|---|---|---|---|---|---|
| EXPOSURE | DRY | FOUNDATION SILL PLATES, TOP PLATES & LEDGERS ON CONCRETE OR MASONRY WALLS (4) | 2x, 4x, 6x (FIR), OR GLULAM (SP) | SBX | GALV (G60) |
| | | | | ACQ, CBA, CA | GALV (G185) |
| | WET | FRAMING, DECKING, POSTS & LEDGERS | 2x, & 4x (FIR) | ACQ, CBA, CA | GALV (G185) |
| | | | 2x, & 4x (CEDAR) | NONE | GALV (G90) |
| | | BEAMS & COLUMNS | 6x (FIR), OR GLULAM (SP) | ACQ, CBA, CA | GALV (G185) |
| | | | 6x OR GLULAM (CEDAR) | NONE | GALV (G90) |

1. CCA: CHROMATED COPPER ARSENATE NOT PERMITTED
   SBX: DOT SODIUM BORATE
   ACQ: ALKALINE COPPER QUAT
   CBA & CA: COPPER AZOLE
   FIR: DOUG-FIR OR HEM-FIR
   SP: SOUTHERN PINE

2. CONNECTORS: JOIST HANGERS, STRAPS, FRAMING CONNECTORS, COLUMN CAPS AND BASES, ETC. FASTENERS: MACHINE BOLTS, ANCHOR BOLTS AND LAG SCREWS WITH ASSOCIATED PLATE WASHERS AND NUTS. NAILS, SPIKES, WOOD SCREWS, ETC.

3. G60, G90 & G185 PER ASTM A653 FOR COLD-FORMED STEEL CONNECTORS. BATCH/POST HOT-DIP GALVANIZED PER ASTM A123 FOR CONNECTORS AND ASTM A153 STRUCTURAL STEEL CONNECTORS. HOT-DIP GALVANIZED PER ASTM A153 FOR FASTENERS OR MECHANICALLY GALVANIZED FASTENERS PER ASTM B695, CLASS 55 OR GREATER.

4. AT CONTRACTORS OPTION, LEDGERS AND TOP PLATES A MINIMUM OF 8 FEET ABOVE GRADE ON CONCRETE OR MASONRY WALLS MAY BE UN-TREATED IF COMPLETELY SEPARATED FROM THE WALL BY A SELF ADHERING ICE & WATER SHIELD BARRIER (40 MIL MINIMUM).

GENERAL REQUIREMENTS: PROVIDE MINIMUM NAILING PER IBC TABLE 2304.10.1 OR MORE, AS OTHERWISE SHOWN. STAGGER ALL NAILING TO PREVENT SPLITTING OF WOOD MEMBERS. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESERVATIVE TREATED WITH THE EXCEPTION OF INTERIOR CONCRETE TOPPINGS ON WOOD FLOOR SYSTEMS. HOLES AND CUTS IN 3x OR 4x PLATES SHOULD BE TREATED WITH A 9% SOLUTION OF COPPER NAPHTHENATE. BOLT HOLES IN WOOD MEMBERS SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER. PROVIDE CUT WASHERS WHERE BOLT HEADS, NUTS AND LAG SCREW HEADS BEAR ON WOOD. PROVIDE A MINIMUM 3"x3"x0.229" PLATE WASHER ON ALL ANCHOR BOLTS WHICH CONNECT MUD SILLS TO FOUNDATION. DO NOT NOTCH OR DRILL STRUCTURAL MEMBERS, EXCEPT AS ALLOWED BY IBC SECTIONS 2308.4.2.4, 2308.5.9, 2308.5.10 AND 2308.7.4 OR AS RESTRICTED BY PLANS OR DETAILS, OR AS APPROVED PRIOR TO INSTALLATION. REFER TO PRESERVATIVE TREATED WOOD REQUIREMENTS IN THESE GENERAL NOTES FOR GALVANIZING REQUIREMENTS FOR CONNECTORS AND FASTENERS.

WOOD SHRINKAGE AND CONSOLIDATION: SHRINKAGE OF WOOD MEMBERS AND CONSOLIDATION OF BEARING WALLS IS EXPECTED FROM TIME OF FRAMING UNTIL AFTER BUILDING IS PUT IN SERVICE. MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS SHALL BE CONSTRUCTED TO ACCOMODATE 1/4" OF TOTAL SETTLEMENT PER STORY.

FRAMING CONNECTORS: SHALL CONFORM TO CURRENT EVALUATION REPORT AND BE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, SAN LEANDRO, CA., OR PRE-APPROVED EQUAL. PROVIDE MAXIMUM SIZE AND QUANTITY OF NAILS OR BOLTS PER MANUFACTURER, EXCEPT AS NOTED OTHERWISE. PROVIDE LEAD HOLES AS REQUIRED TO PREVENT SPLITTING OF WOOD MEMBERS. REFER TO PRESERVATIVE TREATED WOOD REQUIREMENTS IN THESE GENERAL NOTES FOR GALVANIZING REQUIREMENTS FOR CONNECTORS AND FASTENERS.

METAL-PLATE-CONNECTED WOOD TRUSSES: SHALL BE MANUFACTURED BY AN APPROVED TRUSS MANUFACTURER IN ACCORDANCE WITH APPROVED SHOP AND INSTALLATION DRAWINGS. TRUSS CALCULATION PACKAGE SHALL BE DESIGNED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF PROJECT PER IBC SECTION 2303.4 TO CARRY THE LOADS LISTED IN THE DESIGN CRITERION AND ANY ADDITIONAL LOADS INDICATED ON THE FRAMING PLANS AND DETAILS. THE TRUSS ENGINEER SHALL ASSUME ALL RESPONSIBILITY FOR THE WORK OF ALL SUBORDINATES INVOLVED IN THE PREPARATION OF THE TRUSS PLACEMENT PLANS AND TRUSS DESIGN DRAWINGS. ALL ROOF TRUSSES ARE TO BE PRE-ENGINEERED. ROOF TRUSSES SHALL BE PROVIDED TO COMPLETE THE ROOF FRAMING FROM THE ROOF SHEATHING TO THE SUPPORTING MEMBERS BELOW. TRUSSES DESIGNATED ON PLANS ARE FOR TYPICAL UNIFORMLY LOADED CONDITIONS. TRUSS ENGINEER SHALL PROVIDE ADDITIONAL TRUSSES AS REQUIRED TO SUPPORT SPECIAL LOADING CONDITIONS INDICATED ON DRAWINGS. PROVIDE SHOP AND INSTALLATION DRAWINGS AND CALCULATIONS PRODUCED UNDER THE SUPERVISION OF AND BEARING THE STAMP OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF PROJECT. DETAIL DRAWINGS TO INDICATE ALL INFORMATION AS REQUIRED IN IBC SECTION 2303.4.1. ALONG WITH THE FOLLOWING:

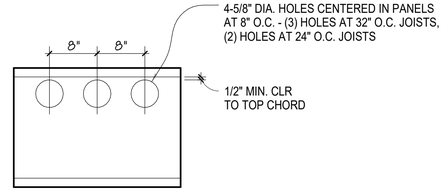
*KEY PLAN SHOWING EACH TRUSS
*INDIVIDUAL TRUSS DESIGNS
*PERMANENT BRACING REQUIREMENTS INCLUDING PLACEMENT AND CONNECTIONS DETAILS
*TRUSS DRAWINGS SHALL SPECIFY ALL TRUSS CONNECTIONS/HARDWARE TO MEET THE REQUIREMENTS OF THE PLAN.

TRUSS DESIGN CALCULATIONS SHALL BE PROVIDED FOR STANDARD LOADING ALONG WITH DESIGN CHECKS FOR SPECIAL LOADING CONDITIONS WHICH INCLUDE FREE BODY DIAGRAMS, LOADING BREAK DOWN, DESCRIPTION OF LOADS (I.E. MECH UNIT, SUSPENDED WALL, ETC.) AND THE RATIONALE FOR LOADING DISTRIBUTION ON MULTIPLE MEMBERS. SUBMITTAL SHALL ALSO PROVIDE ANY DOCUMENTATION NECESSARY TO INTERPRET DATA INDICATED ON CALCULATIONS.

REFER TO THE FRAMING CONNECTORS SECTION OF THESE GENERAL NOTES FOR REQUIREMENTS PLACED UPON CONNECTOR HARDWARE SPECIFIED BY TRUSS ENGINEER AND/OR PROVIDED BY TRUSS MANUFACTURER.

PROVIDE CERTIFICATE OF CONFORMANCE FROM AN INDEPENDENT TESTING LABORATORY OR A LICENSED PROFESSIONAL ENGINEER CERTIFYING THAT THEY HAVE INSPECTED THE FINISHED TRUSSES AND THAT ALL TRUSSES ARE CONSTRUCTED IN CONFORMANCE WITH THE TRUSS DESIGN DRAWINGS.

OPEN-WEB TRUSSES AND I-JOISTS: SHALL BE MANUFACTURED BY REDBUILT LLC, OR PRE-APPROVED EQUAL IN ACCORDANCE WITH APPROVED SHOP AND INSTALLATION DRAWINGS. MEMBERS SHALL BE DESIGNED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF PROJECT. THE ENTIRE OPEN-WEB TRUSS/I-JOIST ASSEMBLY SHALL BE AS APPROVED BY CURRENT EVALUATION REPORT. MEMBERS SHALL BE DESIGNED TO CARRY THE LOADS LISTED IN THE DESIGN CRITERION AND ANY ADDITIONAL LOADS INDICATED ON THE FRAMING PLANS AND DETAILS. THE TRUSS ENGINEER SHALL ASSUME ALL RESPONSIBILITY FOR THE WORK OF ALL SUBORDINATES INVOLVED IN THE PREPARATION OF THE TRUSS PLACEMENT PLANS AND TRUSS DESIGN DRAWINGS. TRUSSES/I-JOISTS SHALL BE PROVIDED TO COMPLETE THE ROOF AND/OR FLOOR FRAMING FROM THE SHEATHING TO THE SUPPORTING MEMBERS BELOW. MEMBER DESIGNATIONS ON PLANS ARE FOR TYPICAL UNIFORMLY LOADED CONDITIONS. MANUFACTURER SHALL PROVIDE ADDITIONAL MEMBERS AS REQUIRED TO SUPPORT SPECIAL LOADING CONDITIONS INDICATED ON DRAWINGS. PROVIDE SHOP AND INSTALLATION DRAWINGS AND CALCULATIONS PRODUCED UNDER THE SUPERVISION OF AND BEARING THE STAMP OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF PROJECT. DETAIL DRAWINGS TO INDICATE MEMBER TYPES, SIZE, SPACING, BRIDGING, BLOCKING, CONNECTIONS, ANCHORING, BEARING PLATE AND OTHER PERTINENT DETAILS. PROVIDE 1 1/2" DIA. OPEN KNOCKOUTS AT 12" O.C. ON ALL ROOF I-JOISTS.




TYPICAL I-JOIST VENTED BLOCKING
NO SCALE

MEMBER DESIGN CALCULATIONS SHALL BE PROVIDED FOR STANDARD LOADING ALONG WITH DESIGN CHECKS FOR SPECIAL LOADING CONDITIONS WHICH INCLUDE FREE BODY DIAGRAMS, LOADING BREAK DOWN, DESCRIPTION OF LOADS (I.E. MECH UNIT, SUSPENDED WALL, ETC.) AND THE RATIONALE FOR LOADING DISTRIBUTION ON MULTIPLE MEMBERS. SUBMITTAL SHALL ALSO PROVIDE ANY DOCUMENTATION NECESSARY TO INTERPRET DATA INDICATED ON CALCULATIONS.

MEMBERS HAVE BEEN DESIGNED TO MEET SERVICEABILITY AND OTHER PERFORMANCE BASED REQUIREMENTS, WHICH MAY EXCEED MINIMUM DESIGN LOADS AND CODE REQUIREMENTS. SUBSTITUTIONS MUST MEET OR EXCEED MOMENT, SHEAR, AND STIFFNESS OF THOSE MEMBERS SPECIFIED AT THE SAME DEPTH AND SPACING.

REFER TO THE FRAMING CONNECTORS SECTION OF THESE GENERAL NOTES FOR REQUIREMENTS PLACED UPON CONNECTOR HARDWARE SPECIFIED BY TRUSS ENGINEER AND/OR PROVIDED BY TRUSS MANUFACTURER.

SPRINKLER LINE ATTACHMENTS SHALL CONFORM TO NFPA 13 AND COMMERCIAL PUBLICATION "SPRINKLER SYSTEM INSTALLATION WITH GUIDELINES FOR REDBUILT OPEN-WEB TRUSSES AND I-JOISTS". LOADS HUNG FROM JOIST NOT SPECIFICALLY IDENTIFIED ON STRUCTURAL DRAWINGS SHALL NOT EXCEED 30 POUNDS AT ANY ONE POINT, NOR SHALL TOTAL LOADS IN POUNDS ON ANY ONE JOIST EXCEED 8 TIMES THE JOIST SPAN IN FEET, UNLESS DETAILED OTHERWISE ON THE DRAWINGS. ATTACHMENT OF LOADS EXCEEDING 90 POUNDS SHALL BE APPROVED PRIOR TO INSTALLATION. DO NOT NOTCH OR DRILL THRU TRUSS MEMBERS.

## MISCELLANEOUS:

PRE-APPROVED SUBSTITUTIONS: SUBSTITUTIONS MAY BE ALLOWED ONLY IF THEY MEET THE REQUIREMENTS OF THESE GENERAL NOTES AND THE SPECIFICATIONS, AND IF COMPLETE WRITTEN ENGINEERING DATA FOR EACH CONDITION REQUIRED FOR THIS PROJECT IS PROVIDED TO THE STRUCTURAL ENGINEER TWO WEEKS PRIOR TO BID DATE AND APPROVED IN WRITTEN ADDENDA BY THE ARCHITECT. DATA IS TO INDICATE CODE BASIS BY YEAR, AUTHORITY FOR STRESSES AND STRESS INCREASES, IF ANY, AND AMOUNT OF EXPECTED DEFLECTION FOR FLEXURAL MEMBERS UNDER (1) TOTAL LOAD AND (2) LIVE LOAD ONLY. ALL INCREASED COSTS IN MECHANICAL, SPRINKLER, ELECTRICAL OR GENERAL INSTALLATION AND ANY ARCHITECTURAL OR STRUCTURAL REDESIGN RESULTING FROM SUBSTITUTION SHALL BE BORNE BY THE GENERAL CONTRACTOR.

SHOP DRAWINGS/SUBMITTALS

THE FOLLOWING SHOP DRAWINGS/SUBMITTALS SHALL BE PROVIDED FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION OR DELIVERY.

| | | STRUCTURAL ENGR. | BLDG. DEPT. |
|---|---|---|---|
| 1. | CONCRETE MIX DESIGNS | X | X |
| 2. | REINFORCING STEEL SHOP DRAWINGS | X | |
| 3. | VENEER ANCHORAGE SYSTEMS | X | X |
| 4. | STRUCTURAL STEEL | X | X |
| 5. | GLU-LAMINATED MEMBERS | X | X |
| 6. | STRUCTURAL COMPOSITE LUMBER | X | X |
| 7. | WOOD OPEN-WEB TRUSSES AND I-JOISTS | X | X |
| 8. | METAL-PLATE-CONNECTED WOOD TRUSSES | X | X |
| 9. | CONTRACTOR'S STATEMENT OF RESPONSIBILITY | X | X |

DEFERRED SUBMITTALS

THE FOLLOWING ARE NOT INCLUDED WITH THE BUILDING PERMIT DRAWINGS AND SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL AS A DEFERRED SUBMITTAL. SUBMITTALS SHALL BEAR THE SEAL OF AN ENGINEER LICENSED IN THE STATE OF THE PROJECT AS NOTED.

| | | ENGINEER STAMP REQUIRED |
|---|---|---|
| 1. | WOOD OPEN-WEB TRUSSES AND I-JOISTS | PE |
| 2. | METAL-PLATE-CONNECTED WOOD TRUSSES | PE |

SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED BY AN INDEPENDENT TESTING LABORATORY PER THE REQUIREMENTS OF IBC CHAPTER 17 AND THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION AND THE CONTRACT DOCUMENTS. THE SPECIAL INSPECTOR SHALL SUBMIT INSPECTION REPORTS AND A FINAL SIGNED REPORT TO THE BUILDING OFFICIAL FOR THE ITEMS LISTED IN THE QUALITY ASSURANCE/SPECIAL INSPECTION SECTION:

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RMC Architects, PLLC • 1223 Railroad Avenue • Bellingham, WA 98225
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DONALD R. SCOTT — STATE OF WASHINGTON — 22331 — REGISTERED PROFESSIONAL ENGINEER

Archdiocese of Seattle
St. Andrew Catholic Church Parish Hall
1401 Valley Avenue East
Sumner, WA 98390-2720

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## STATEMENT OF SPECIAL INSPECTIONS:

SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED PER THE REQUIREMENTS OF IBC SECTION 1704 AND 1705 AND AS NOTED HEREIN.

| STRUCTURAL SYSTEM | VERIFICATION AND INSPECTION | CONTINUOUS | PERIODIC | COMMENTS | REFERENCES |
|---|---|---|---|---|---|
| SOILS | VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY | | X | | IBC 1705.6 |
| | VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL | | X | | |
| | PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS | | X | | |
| | VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL | X | | | |
| | PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY | | X | | |
| CONCRETE | INSPECT REINFORCEMENT, INCLUDING PRE-STRESSING TENDONS, AND VERIFY PLACEMENT | | X | | ACI 318: CH 20, 25.2, 25.3, 26.6-1 TO 26.6-3, IBC 1908.4 |
| | ANCHORS CAST IN CONCRETE-PRIOR TO AND DURING PLACEMENT OF CONCRETE | | X | | ACI 318: 17.8.2<br>AISC 360 SECTION N7 |
| | ANCHORS POST-INSTALLED IN HARDENED CONCRETE | | X | | ACI 318: 3.8.6, 8.1.3, 21.2.8<br>IBC 1909.1 |
| | VERIFY USE OF REQUIRED DESIGN MIX | | X | | ACI 318, CH 19 |
| | PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE | X | | | ASTM C172, C31<br>ACI 318: 26.4, 26.12<br>IBC 1908.10 |
| | MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES | | X | | ACI 318: 26.5.3 TO 26.5.5<br>IBC 1908.9 |
| | MATERIAL VERIFICATION OF REINFORCEMENT STEEL FOR ASTM A615 REINFORCING | | X | MANUFACTURER SHALL PROVIDE MILL TEST REPORTS. CONTINUOUS INSPECTION FOR ALL WELDS GREATER THAN 5/16" FILLET. PERIODIC INSPECTION FOR FILLET WELD 5/16" AND SMALLER | ACI 318: 26.6.4<br>AWS D1.4<br>IBC 1705.3.1 |
| | TESTING OF MATERIALS | | X | | IBC 1705.3.2 |
| WOOD FRAMING | SHEAR WALL NAILING | | X | SPECIAL INSPECTION NOT REQUIRED FOR FASTENER SPACING > 4" O.C. | IBC 1705.11.1, 1705.12.2, 1705.5 |
| | DIAPHRAGM NAILING | | X | SPECIAL INSPECTION NOT REQUIRED FOR FASTENER SPACING > 4" O.C. | IBC 1705.11.1, 1705.12.2, 1705.5 |
| | NAILING, BOLTING, AND ANCHORAGE OF COMPONENTS THAT ARE PART OF DRAG STRUTS, BRACES AND HOLD-DOWNS THAT ARE PART OF THE SEISMIC RESISTING SYSTEM | | X | | IBC 1705.11.1, 1705.12.2 |
| | METAL-PLATE-CONNECTED WOOD TRUSSES SPANNING 60 FEET OR GREATER | | X | TEMPORARY AND PERMANENT BRACING | IBC 1705.5.2 |

TESTING AND SPECIAL INSPECTION REPORTS SHALL BE PREPARED FOR EACH INSPECTION ITEM ON A DAILY BASIS WHENEVER WORK IS PERFORMED ON THAT ITEM. REPORTS SHALL BE DISTRIBUTED TO OWNER, CONTRACTOR, BUILDING OFFICIAL, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.

STRUCTURAL OBSERVATIONS SHALL BE PERFORMED BY THE STRUCTURAL ENGINEER OF RECORD OR DESIGNATED REPRESENTATIVE IN ACCORDANCE WITH IBC 1704.6. STRUCTURAL OBSERVATION SHALL BE PERFORMED AS FOLLOWS:

- PERIODIC VISUAL OBSERVATION OF STRUCTURAL SYSTEMS FOR GENERAL CONFORMANCE TO CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES.
- REVIEW OF TESTING AND INSPECTION REPORTS.
- REPORTS SHALL BE PREPARED FOR EACH SITE VISIT AND SHALL BE DISTRIBUTED TO ARCHITECT.

GENERAL CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL INCLUDE ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL INSPECTION REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.

| ABBREVIATION LIST | | | |
|---|---|---|---|
| @ | AT | HGR | HANGER |
| A.B. | ANCHOR BOLT | HORIZ. | HORIZONTAL |
| ADD'L | ADDITIONAL | HSS | HOLLOW STRUCTURAL SECTION |
| A.F.F. | ABOVE FINISH FLOOR | HT | HEIGHT |
| ALT. | ALTERNATE | INT. | INTERIOR |
| ARCH. | ARCHITECTURAL | JST | JOIST |
| BLD'G | BUILDING | JT | JOINT |
| BLK'G | BLOCKING | L | ANGLE |
| BM | BEAM | L.L. | LIVE LOAD |
| B.O.F. | BOTTOM OF FOOTING | LLH | LONG LEG HORIZONTAL |
| BOT. | BOTTOM | LLV | LONG LEG VERTICAL |
| BRG | BEARING | LOC. | LOCATION |
| BTWN | BETWEEN | LSL | LAMINATED STRAND LUMBER |
| B.U. | BUILT UP | LVL | LAMINATED VENEER LUMBER |
| (C= ) | CAMBER | MAX. | MAXIMUM |
| CANT. | CANTILEVER | M.B. | MACHINE BOLT |
| C.F.S. | COLD-FORMED STEEL | MECH. | MECHANICAL |
| C.J. | CONTROL/CONSTRUCTION JOINT | MEZZ. | MEZZANINE |
| ℄ | CENTERLINE | MFR | MANUFACTURER |
| CLR. | CLEARANCE | MIN. | MINIMUM |
| CMU | CONCRETE MASONRY UNIT | MISC. | MISCELLANEOUS |
| COL. | COLUMN | MTL | METAL |
| CONC. | CONCRETE | N.F. | NEAR FACE |
| CONN. | CONNECTION | N.S. | NEAR SIDE |
| CONST. | CONSTRUCTION | NTS | NOT TO SCALE |
| CONT. | CONTINUOUS | O.C. | ON CENTER |
| CONTR. | CONTRACTOR | OPN'G | OPENING |
| COORD. | COORDINATE | OPP. | OPPOSITE |
| C.P. | COMPLETE PENETRATION | P.A.F. | POWDER ACTUATED FASTENER |
| CTR'D | CENTERED | PERP. | PERPENDICULAR |
| C.Y. | CUBIC YARD | PL | PLATE |
| DBL. | DOUBLE | P.P. | PARTIAL PENETRATION |
| D.F. | DOUGLAS FIR | P.P.T. | PRESERVATIVE PRESSURE TREATED |
| DIA. OR ℗ | DIAMETER | P.S.F. | POUNDS PER SQUARE FOOT |
| DIAG. | DIAGONAL | PSL | PARALLAM |
| DIM. | DIMENSION | P.T. | POST TENSION |
| D.L. | DEAD LOAD | PW. | PLYWOOD |
| DWG | DRAWING | REINF. | REINFORCING |
| DWL | DOWEL | REQ'D | REQUIRED |
| (E) | EXISTING | SCHED. | SCHEDULE |
| EA. | EACH | S.C.L. | STRUCTURAL COMPOSITE LUMBER |
| E.F. | EACH FACE | SHT'G | SHEATHING |
| EL. | ELEVATION | SIM. | SIMILAR |
| ELEV. | ELEVATOR | S.O.G. | SLAB ON GRADE |
| ENGR. | ENGINEER | SQ. | SQUARE |
| EQ. | EQUAL | STD | STANDARD |
| E.W. | EACH WAY | STIFF. | STIFFENER |
| EXP. | EXPANSION | STL | STEEL |
| EXT. | EXTERIOR | STRUCT. | STRUCTURAL |
| FDN | FOUNDATION | T&B | TOP & BOTTOM |
| F.F. | FAR FACE | T&G | TONGUE AND GROOVE |
| FLR | FLOOR | THR'D | THREADED |
| F.O.M. | FACE OF MASONRY | T.O.F. | TOP OF FOOTING |
| F.O.S. | FACE OF STUD | T.O.S. | TOP OF STEEL |
| FRM'G | FRAMING | TRT'D | TREATED |
| F.R.T. | FIRE RETARDANT TREATED | TYP. | TYPICAL |
| F.S. | FAR SIDE | U.N.O. | UNLESS NOTED OTHERWISE |
| FTG | FOOTING | U.T. | ULTRASONIC TESTED |
| GA. | GAGE/GAUGE | VERT. | VERTICAL |
| GALV. | GALVANIZED | W/ | WITH |
| GL. | GLULAM | W.P. | WORK POINT |
| GR. | GRADE | WT | WEIGHT |
| GWB | GYPSUM WALL BOARD | W.W.R. | WELDED WIRE REINFORCING |
| HDR | HEADER | | |

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GENERAL NOTES

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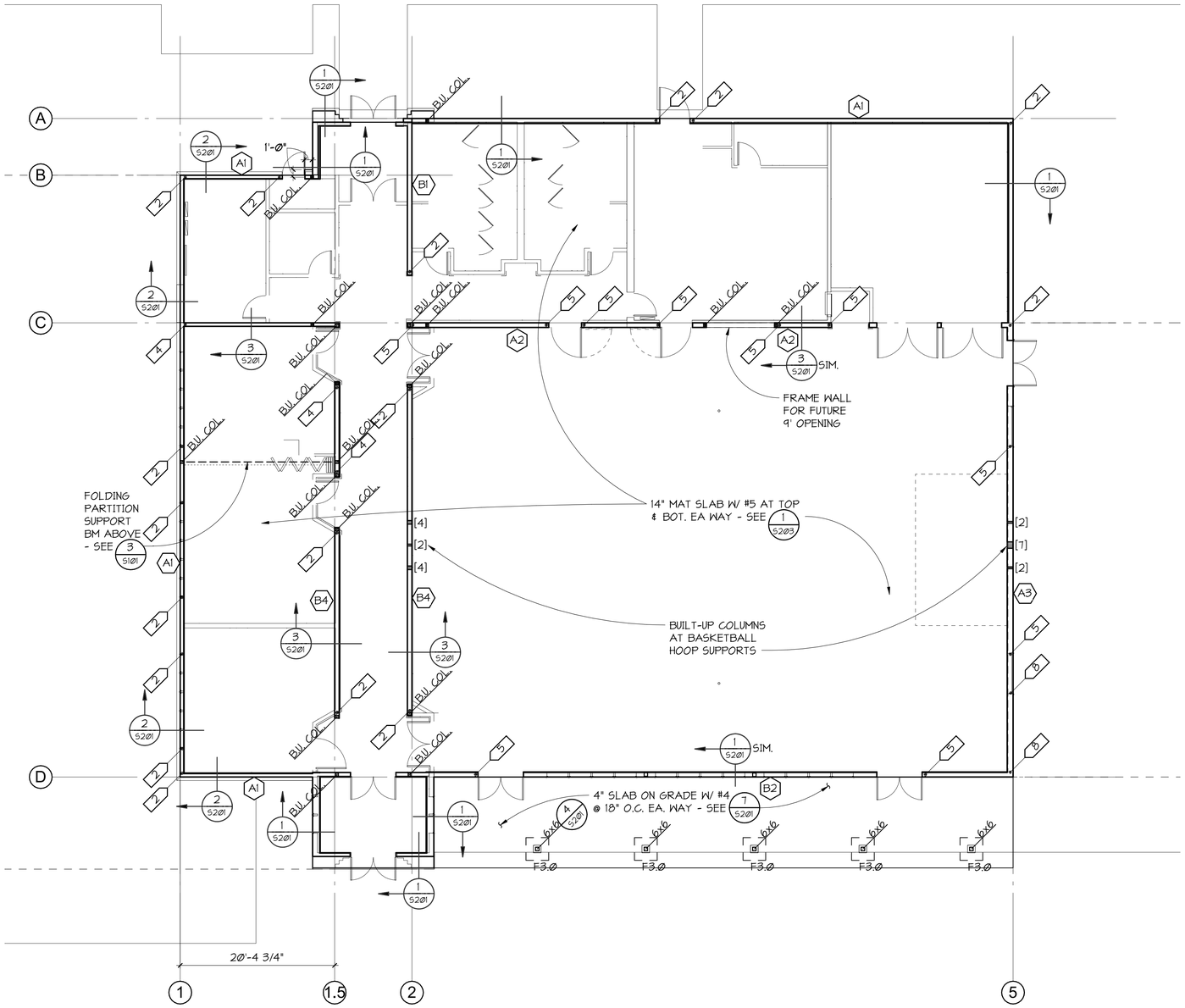
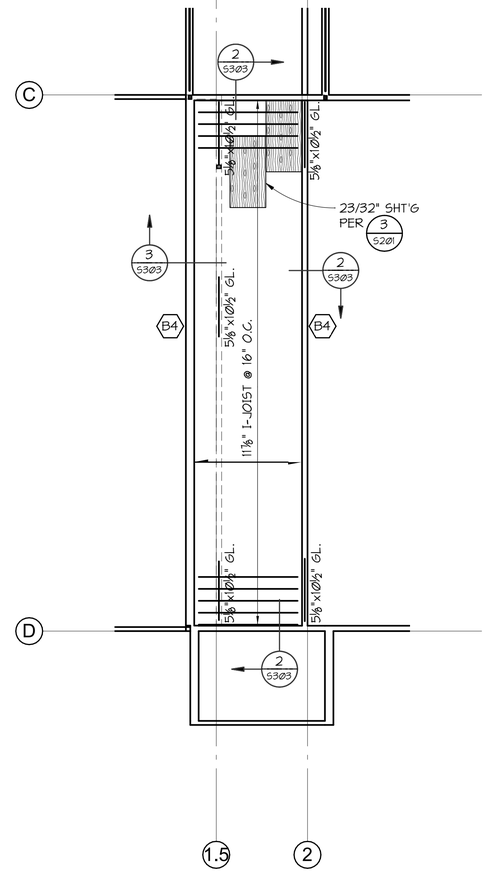
FOUNDATION NOTES & GRADE LEVEL FRAMING NOTES

1. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
2. T.O.S. = Ø'-Ø"
3. INDICATES CONCRETE STEM WALL.
4. B.U. COL. INDICATES WOOD STUD BUILT-UP COLUMNS. SEE 2/S3Ø1 FOR DETAIL.
5. FOR TYPICAL FOUNDATION DETAILS SEE SHEET S2Ø1.
6. [ ] INDICATES SPECIAL BUILT-UP WOOD STUD COLUMN REQUIREMENTS UNDER HEADER. FOR TYPICAL FRAMING REQUIREMENTS AT OPENING IN STRUCTURAL WALLS SEE 1/S3Ø1 FOR TYPICAL DETAIL.
7. X INDICATES SPECIAL WOOD STUD WALL TYPE. SEE 4/S3Ø1 FOR SCHEDULE.
8. INDICATES HOLDOWN. SEE 4/S3Ø1 FOR SCHEDULE.
9. NON-STRUCTURAL STUD WALLS ARE NOT SHOWN OR SHOWN SCREENED. FOR LOCATION SEE ARCHITECTURAL DRAWINGS. FOR BRACING AT TOPS OF WALLS SEE S3Ø4.

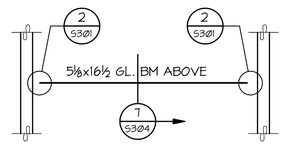



1/S1Ø1 FOUNDATION PLAN
1/8" = 1'-Ø"

NORTH




2/S1Ø1 MECHANICAL PLATFORM FRAMING PLAN
1/8" = 1'-Ø"




NOTE:
SEE ARCHITECTURAL FOR LOCATIONS.

TYPICAL FOLDING WALL SUPPORT BEAM

3/S1Ø1 FRAMING PLAN
NO SCALE

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FOUNDATION PLAN

S101

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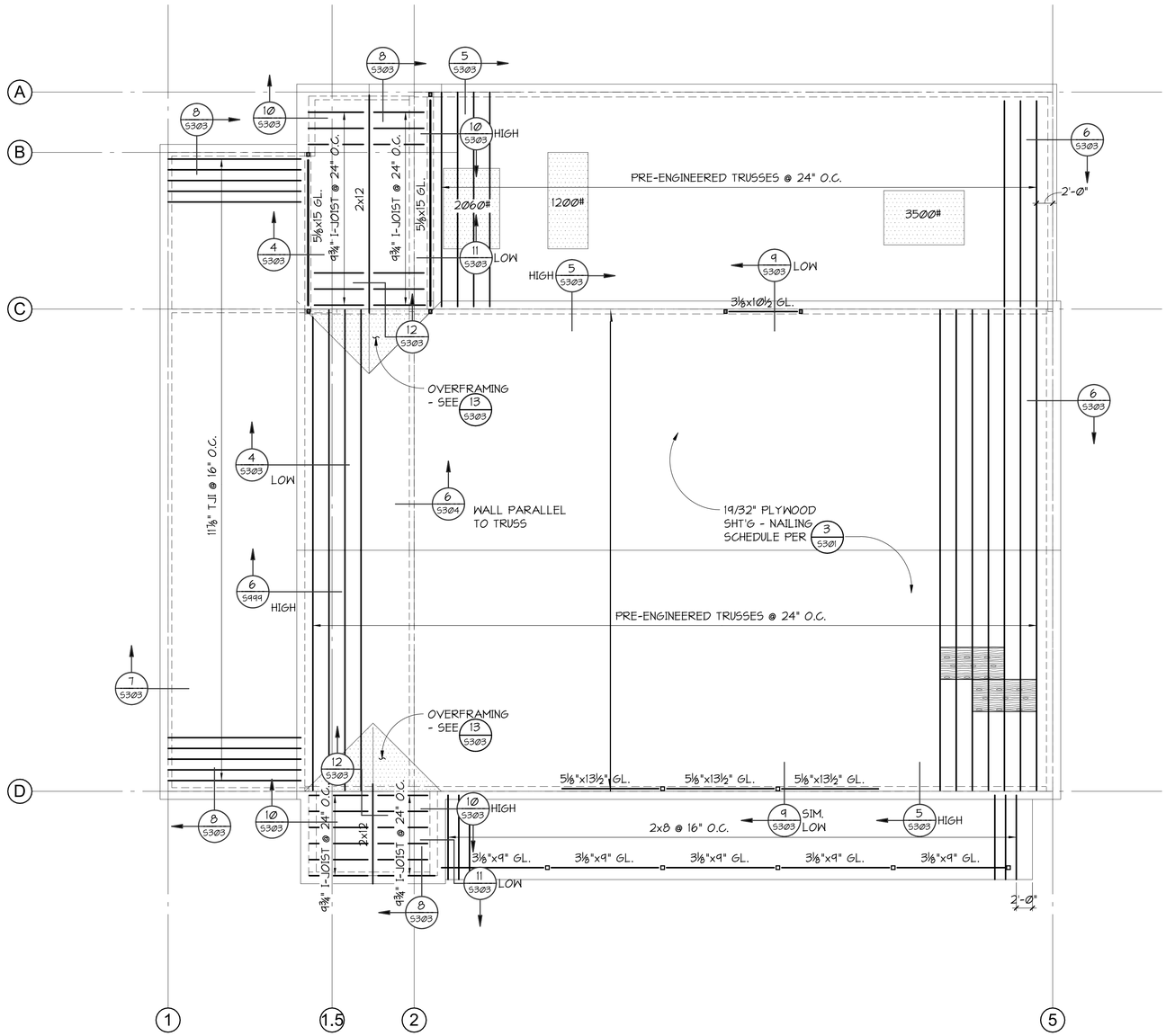
ROOF FRAMING NOTES

1. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
2. INDICATES WALL EXTENDING TO ROOF STRUCTURE.
3. INDICATES TYPICAL HEADER IN WALL BELOW. SEE 1/S301.
4. PROVIDE 19/32" WOOD SHEATHING OVER ENTIRE ROOF STRUCTURE. NAIL SHEATHING WITH 10d @ 6" ON CENTER AT ALL SUPPORTED PANEL EDGES AND 10d @ 10" ON CENTER AT INTERMEDIATE FRAMING. TYPICAL UNLESS NOTED OTHERWISE.
5. 1,000# INDICATES LOCATION OF ROOF TOP MECHANICAL UNITS AND MAXIMUM WEIGHT.




1 S102 ROOF FRAMING PLAN
1/8" = 1'-0"

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ROOF FRAMING PLAN

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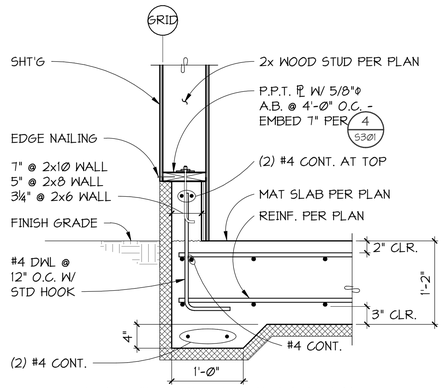
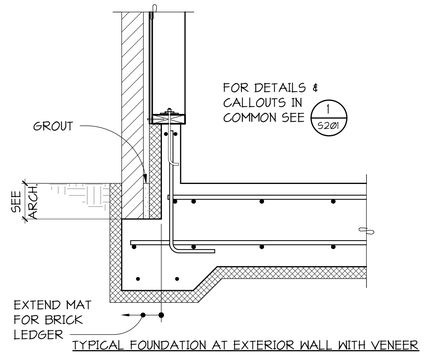


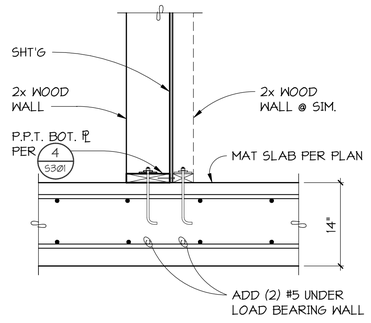

TYPICAL FOUNDATION AT EXTERIOR STUD WALL

1/S201 DETAIL
NO SCALE




TYPICAL FOUNDATION AT EXTERIOR WALL WITH VENEER

2/S201 SECTION
NO SCALE




3/S201 SECTION
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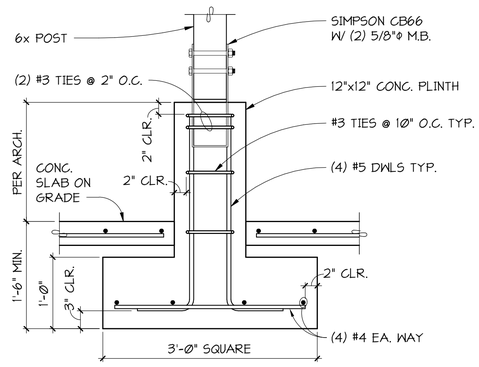


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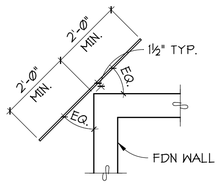
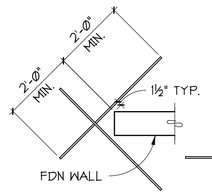
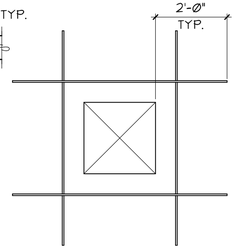



AT CORNERS




AT ENDS OF WALL




AT OPENINGS MORE THAN 2'-Ø"




AT OPENINGS LESS THAN 2'-Ø"

NOTES:
1. AROUND OPENINGS 6"ø OR LESS, NO ADDITIONAL REINFORCEMENT REQUIRED.
2. REINFORCEMENT SHOWN IS #4 AT SLAB MID-DEPTH. HOOK REINFORCEMENT THAT CANNOT BE EXTENDED.

TYPICAL SLAB ON GRADE DISCONTINUITY REINFORCEMENT

5/S201 PLAN DETAILS
NO SCALE




NOTES:
1. VERTICAL REINFORCEMENT SHOWN IS ADDITIONAL IF NORMAL STEM WALL REINFORCEMENT IS NOT IN PROPER LOCATION.
2. CORNER REINFORCEMENT IS SAME SIZE AND SPACING AS HORIZONTAL REINFORCEMENT.
3. STANDARD HOOK MAY BE SUBSTITUTED FOR CORNER REINFORCEMENT.

TYPICAL REINFORCEMENT PLACEMENT PLAN FOR CONCRETE STEM WALLS

6/S201 SECTION
NO SCALE




TYPICAL CONTROL JOINT FOR SLAB ON GRADE




TYPICAL CONSTRUCTION JOINT FOR SLAB ON GRADE

7/S201 SECTION
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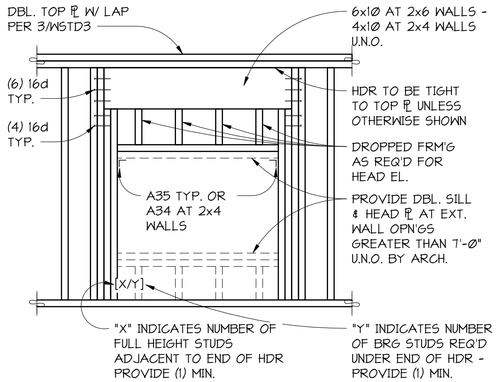
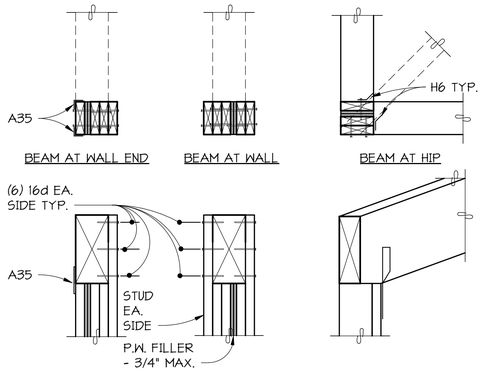



TYPICAL STUD WALL CONSTRUCTION AT HEADER

1 S301 **SECTION**
NO SCALE



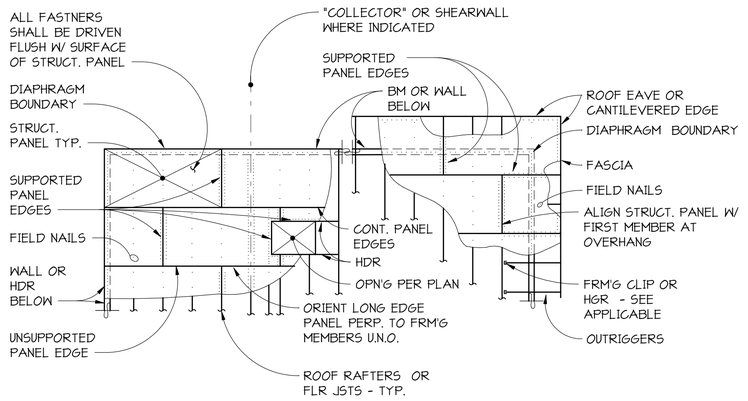

TYPICAL BUILT-UP COLUMN AT BEAM PERPENDICULAR TO WALL

2 S301 **DETAIL**
NO SCALE

| DIAPHRAGM NAILING SCHEDULE | | | |
|---|---|---|---|
| DIAPHRAGM TYPE | LOCATION | NAILS | SPACING |
| FLOOR DIAPHRAGM 23/32" TONGUE AND GROOVE SHEATHING UNBLOCKED UNLESS NOTED OTHERWISE | DIAPHRAGM BOUNDARY | 10d | 6" O.C. |
| | FIELD NAILS | 10d | 12" O.C. |
| | SUPPORTED PANEL EDGES | 10d | 6" O.C. |
| ROOF DIAPHRAGM 19/32" SHEATHING UNBLOCKED UNLESS NOTED OTHERWISE | DIAPHRAGM BOUNDARY | 10d | 6" O.C. |
| | FIELD NAILS | 10d | 10" O.C. |
| | SUPPORTED PANEL EDGES | 10d | 6" O.C. |

NOTES:

1. PROVIDE (2) ROWS OF SPECIFIED DIAPHRAGM BOUNDARY NAILING OVER INTERIOR SHEAR WALLS AND THE FULL LENGTH OF "COLLECTORS" WHERE INDICATED.
2. AT BLOCKED DIAPHRAGMS PROVIDE 2x4 FLATWISE BLOCKING WITH "Z2" CLIPS AT EACH END AT ALL UNSUPPORTED PANEL EDGES. USE 2x4 STRUCTURAL COMPOSITE LUMBER FLATWISE BLOCKING IN LIEU OF SOLID SAWN WHERE NAILING SIZE OR SPACING EXCEEDS 10d @ 4" O.C.




TYPICAL DIAPHRAGM NAILING

3 S301 **SCHEDULE**
NO SCALE

| STUD WALL CONSTRUCTION SCHEDULE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| TABLE 1 - SHEAR WALL REQUIREMENTS | | | | | | | | | | |
| MARK | WALL SHEATHING | SIDES WITH SHEATHING | SHEATHING NAILS NOTE 2 | EDGE NAILING ON CENTER | EDGE FRAMING NOTE 5 | FIELD NAILING ON CENTER | BOTTOM PLATE NOTE 6 | BOTTOM PLATE NAILING | 5/8" ANCHOR BOLT SPACING (EMBED 7" MINIMUM) | RIM/BLOCKING CONNECTOR TO TOP PLATE BELOW |
| <A> | 15/32" | (1) | 10d | 6" | 2x | 12" | 2x | 16d @ 8" O.C. | 48" | A35 @ 24" O.C. |
| <B> | 15/32" | (1) | 10d | 4" | 3x | 12" | 2x | 16d @ 8" O.C. | 32" | A35 @ 16" O.C. |

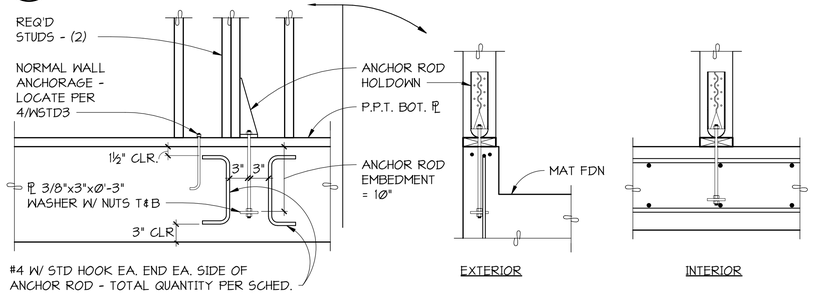
| TABLE 2 - STUD REQUIREMENTS | | |
|---|---|---|
| MARK | STUD SIZE AND SPACING | NUMBER STUDS REQUIRED AT MEMBER BEARING |
| <1> | 2x6 @ 16" O.C. | 1 |
| <2> | 2x8 @ 12" O.C. | 2 |
| <3> | 1½x9¼ LVL @ 16" O.C. | 1 |
| <4> | 1½x11¼ LVL @ 16" O.C. | 1 |

FIRST CHARACTER INDICATES SPECIAL SHEAR WALL REQUIREMENTS PER TABLE 1
SECOND CHARACTER INDICATES SPECIAL STUD SPACING PER TABLE 2

NOTES:

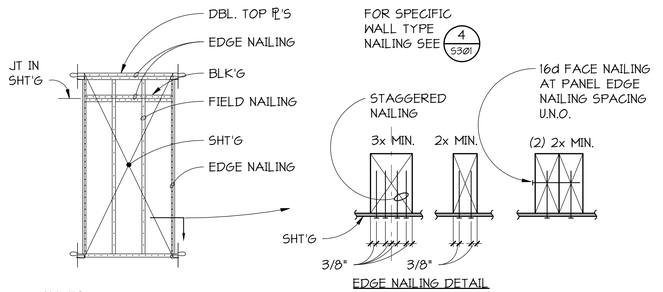
1. <XX> INDICATES SPECIAL STRUCTURAL WALL MARK. ALL WALLS SHOWN ON STRUCTURAL DRAWINGS ARE 2x6 AT 16" ON CENTER UNLESS DESIGNATED SPECIAL. STUD LAYOUT SHALL MATCH FRAMING MEMBER LAYOUT ABOVE WHERE APPLICABLE. ALL EXTERIOR WALLS SHALL HAVE 15/32" WOOD SHEATHING AND BE NAILED WITH 10d AT 6" ON CENTER AT EDGES AND 12" ON CENTER IN FIELD UNLESS DESIGNATED SPECIAL.
2. ALL EXTERIOR WALLS AND ALL DESIGNATED SHEAR WALLS SHALL BE BLOCKED AT ALL SHEATHING EDGES. EDGE NAILING APPLIES TO ALL TOP AND BOTTOM PLATES, VERTICAL JOINTS, HORIZONTAL BLOCKED JOINTS, WALL CORNERS, AND HOLDOWN ANCHORED STUDS.
3. WHERE BEAMS OR HEADERS FRAME INTO WALLS AND A COLUMN IS NOT CALLED OUT, PROVIDE BUILT-UP COLUMNS PER 4/WSTD2 FOR BEAM PERPENDICULAR TO WALL.
4. [X,Y] INDICATES BUILT-UP STUD COLUMNS AT HEADERS IN WALLS - SEE 1/WSTD2 FOR BEAM PARALLEL TO WALL.
5. PROVIDE 3x OR DOUBLE 2x MEMBERS FACE NAILED PER 7/WSTD2 AT ALL ABUTTING PANEL EDGES WHERE INDICATED.
6. 3x BOTTOM PLATE WHERE INDICATED.
7. WHERE SOLID SAWN STUD LENGTH CANNOT BE OBTAINED, STRUCTURAL COMPOSITE LUMBER STUDS MAY BE SUBSTITUTED. SOLID SAWN FRAMING MAY NOT BE SUBSTITUTED FOR SPECIFIED STRUCTURAL COMPOSITE LUMBER FRAMING.

4 S301 **SCHEDULE**
NO SCALE




TYPICAL FOUNDATION ANCHOR ROD HOLDOWN

7 S301 **DETAIL**
NO SCALE




EDGE NAILING DETAIL

NOTES:

1. PANEL EDGE NAILING AND PLATE NAILING SHALL BE STAGGERED IN ALL CASES.
2. SHEATHING JOINT SHALL OCCUR AT COMMON MEMBER UNLESS IT OCCURS AT A SPECIFIED DOUBLE MEMBER.
3. EDGE NAILING APPLIES TO AREAS INDICATED AND AT HOLDOWN ANCHORED STUDS.

TYPICAL SHEARWALL NAILING

5 S301 **SCHEDULE**
NO SCALE

| HOLDOWN SCHEDULE | | | | | |
|---|---|---|---|---|---|
| | | FOUNDATION ANCHOR ROD TYPE [1] | | | |
| MARK | HOLDOWN [2] | ANCHOR ROD [3] | | REQUIRED STUDS | REFERENCED DETAILS |
| | | DIAMETER | REINFORCEMENT [4] | | |
| <2> | HDU2 | 5/8" | (2) #4 | (2) 2x | 2/303 |
| <4> | HDU4 | 5/8" | (2) #4 | (2) 2x | 2/303 |
| <5> | HDU5 | 5/8" | (2) #4 | (2) 2x | 2/303 |
| <8> | HDU8 | 7/8" | (2) #4 | (3) 2x | 2/303 |

NOTES:

1. ALL HOLDOWNS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE BACK TO BACK ANCHOR ROD HOLDOWNS ACROSS FLOOR LINE PER 5/WSTD4.
3. ALL-THREAD ROD ASTM A36 WITH 3"x3"x3/8" PLATE WITH DOUBLE NUTS AT FOUNDATION.
4. EMBEDMENT MAY REQUIRE STEPPING DOWN FOOTING PER 1/CF01 TO ACHIEVE REQUIRED EMBEDMENT.

6 S301 **SCHEDULE**
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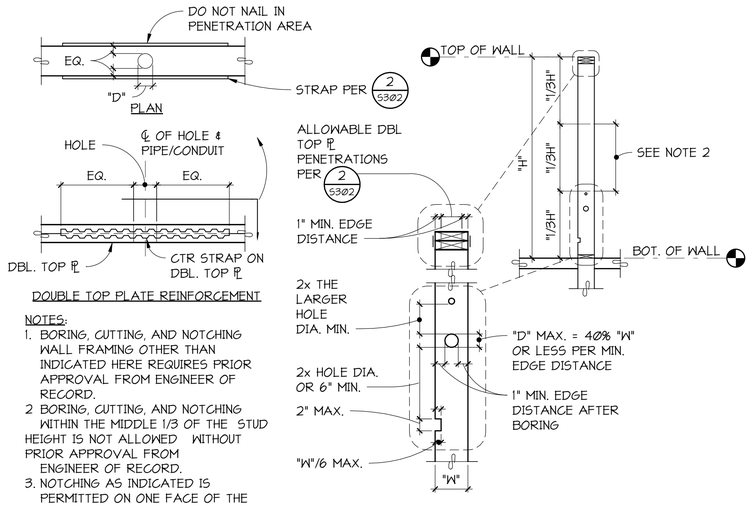
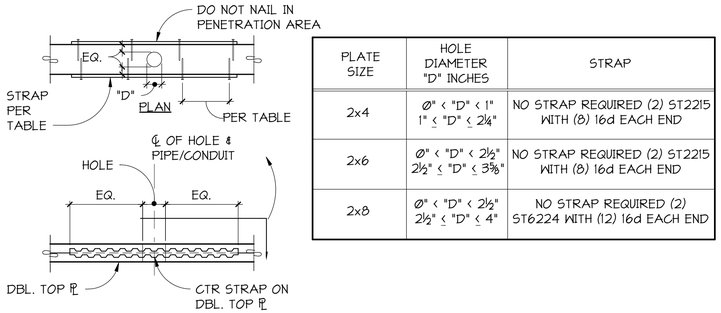



DOUBLE TOP PLATE REINFORCEMENT

NOTES:
1. BORING, CUTTING, AND NOTCHING WALL FRAMING OTHER THAN INDICATED HERE REQUIRES PRIOR APPROVAL FROM ENGINEER OF RECORD.
2. BORING, CUTTING, AND NOTCHING WITHIN THE MIDDLE 1/3 OF THE STUD HEIGHT IS NOT ALLOWED WITHOUT PRIOR APPROVAL FROM ENGINEER OF RECORD.
3. NOTCHING AS INDICATED IS PERMITTED ON ONE FACE OF THE WALL ALONE.
4. MAXIMUM BORED HOLE DIAMETER IN STUD "D" MAXIMUM, LIMITED TO 25%. "W" AT BUILT-UP STUDS, AND HOLDOWN ANCHORED STUDS.

ALLOWABLE LOAD BEARING/SHEARWALL STUD BORING, CUTTING, AND NOTCHING

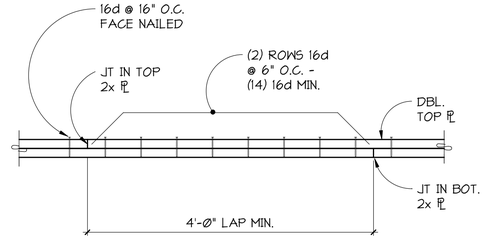
1/S302 DETAIL
NO SCALE



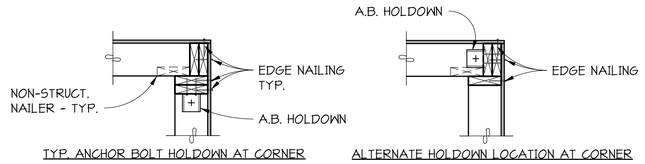

| PLATE SIZE | HOLE DIAMETER "D" INCHES | STRAP |
|---|---|---|
| 2x4 | Ø" < "D" < 1" <br> 1" ≤ "D" ≤ 2¼" | NO STRAP REQUIRED (2) ST2215 WITH (8) 16d EACH END |
| 2x6 | Ø" < "D" < 2½" <br> 2½" ≤ "D" ≤ 3⅜" | NO STRAP REQUIRED (2) ST2215 WITH (8) 16d EACH END |
| 2x8 | Ø" < "D" < 2½" <br> 2½" ≤ "D" ≤ 4" | NO STRAP REQUIRED (2) ST6224 WITH (12) 16d EACH END |

TYPICAL REINFORCING AT WALL DOUBLE TOP PLATE PENETRATIONS

2/S302 DETAIL
NO SCALE

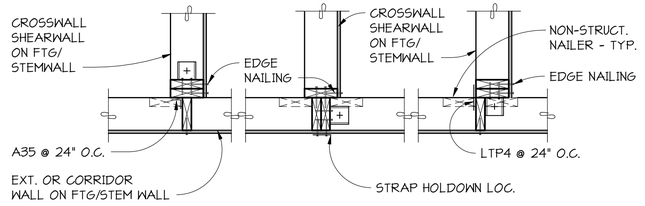



3/S302 SECTION
NO SCALE



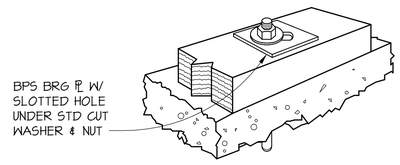

TYP. ANCHOR BOLT HOLDOWN AT CORNER

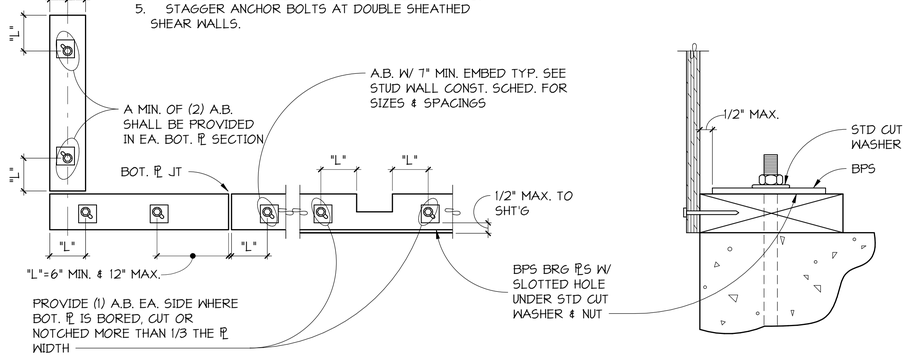
ALTERNATE HOLDOWN LOCATION AT CORNER




TYPICAL CROSSWALL HOLDOWN LOCATIONS

5/S302 PLAN DETAIL
NO SCALE




TYPICAL BOTTOM PLATE ANCHORAGE

4/S302 DETAIL
NO SCALE

NOTES:
1. BOTTOM SILL PLATE SHALL BE PRESERVATIVE PRESSURVATIVE PRESSURE TREATED. SEE GENERAL NOTES FOR GALVANIZED REQUIREMENTS FOR CONNECTORS AND FASTENERS.
2. HOLES IN BOTTOM PLATE SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER.
3. HOLES, CUTS, AND NOTCHES IN 3x OR 4x PRESERVATIVE PRESSURE PLATES SHALL BE TREATED WITH A 9% SOLUTION OF COPPER NAPHTHENATE.
4. OVERSIZE WASHERS MAY BE USED IN LIEU OF BPS.
5. STAGGER ANCHOR BOLTS AT DOUBLE SHEATHED SHEAR WALLS.

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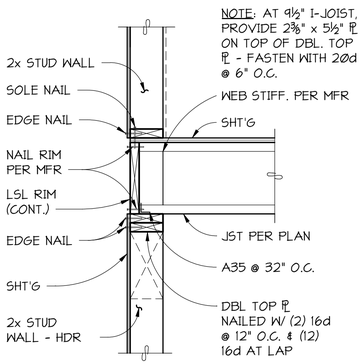
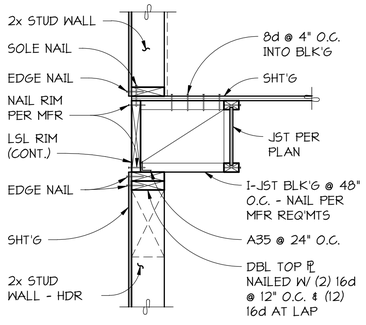


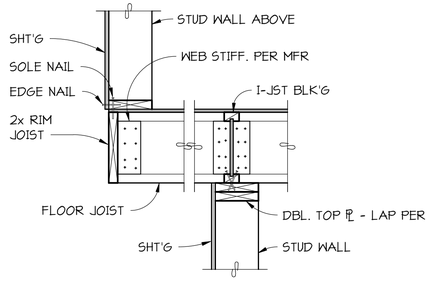

TYPICAL I-JOIST BEARING AT STUD WALL

1 / S303 SECTION
NO SCALE

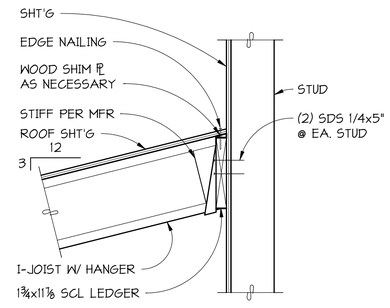



TYPICAL I-JOIST PARALLEL TO STUD WALL

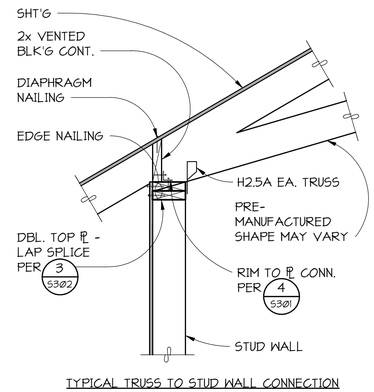
2 / S303 SECTION
NO SCALE




3 / S303 SECTION
NO SCALE

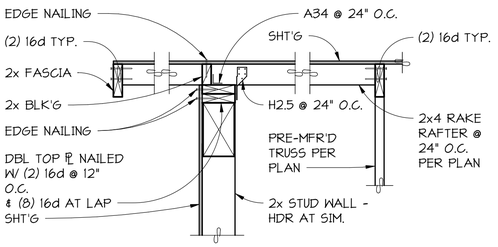



4 / S303 SECTION
NO SCALE



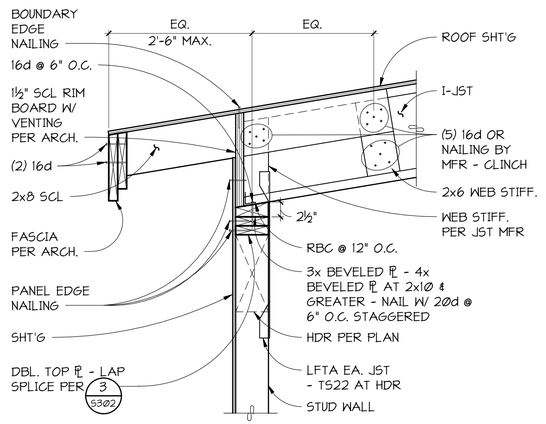

TYPICAL TRUSS TO STUD WALL CONNECTION

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



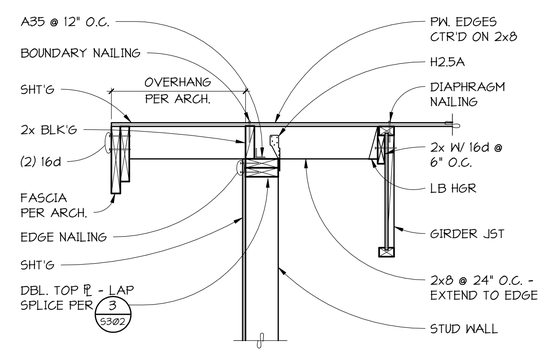

TYPICAL 2x RAKE AT STUD WALL/TRUSS

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



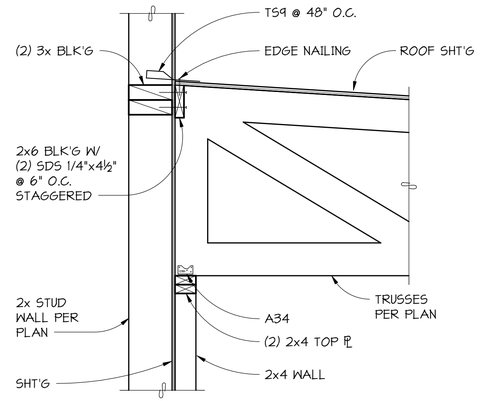

TYPICAL I-JOIST TO EXTERIOR WALL CONNECTION

7 / S303 SECTION
NO SCALE

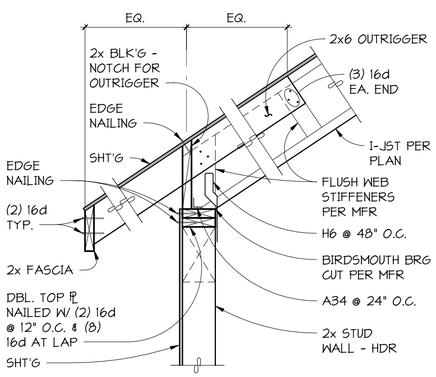



TYPICAL AT I-JOIST PARALLEL TO EXTERIOR WALL

8 / S303 SECTION
NO SCALE

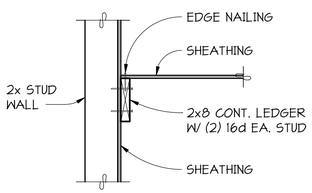



9 / S303 SECTION
NO SCALE

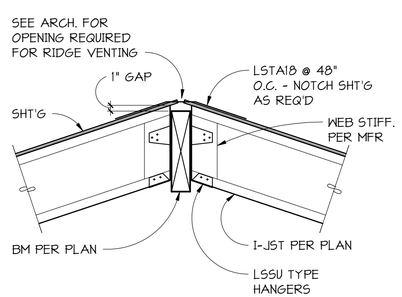



I-JOIST BEARING AT STUD WALL

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

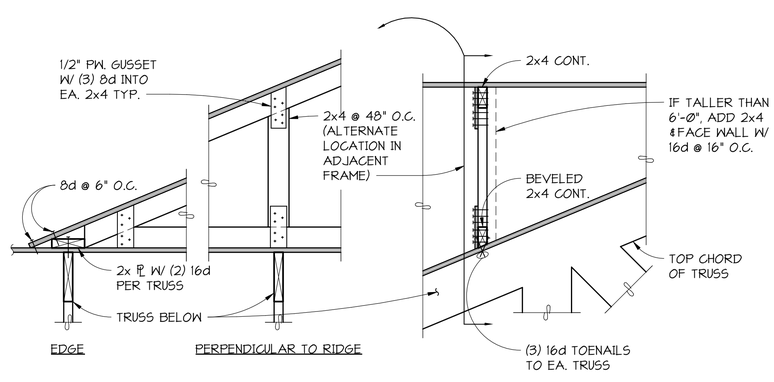



11 / S303 SECTION
1" = 1'-0"




RIDGE BEAM

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




TYPICAL OVERLAY FRAMING

13 / S303 SECTION
NO SCALE

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DONALD R. SCOTT — STATE OF WASHINGTON — 22318 — REGISTERED PROFESSIONAL ENGINEER

Archdiocese of Seattle
# St. Andrew Catholic Church Parish Hall
1401 Valley Avenue East
Sumner, WA 98390-2720

| | | | |
|---|---|---|---|
| Job No: | 1851 | Date: | 2/7/2020 |
| File No: | | | 19-232 |
| Drawn By: | | | TNM |
| Checked By: | | | DRS |
| Issued For: | | | PERMIT |

FRAMING DETAILS

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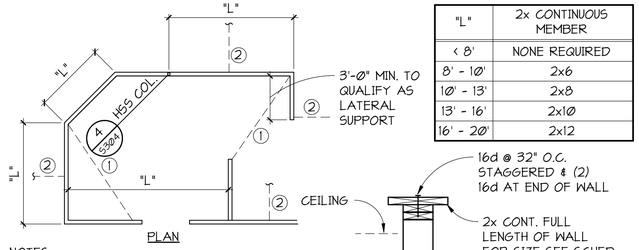
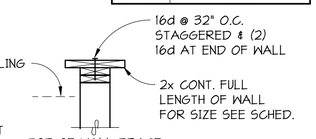



PLAN

| "L" | 2x CONTINUOUS MEMBER |
|---|---|
| < 8' | NONE REQUIRED |
| 8' - 10' | 2x6 |
| 10' - 13' | 2x8 |
| 13' - 16' | 2x10 |
| 16' - 20' | 2x12 |




TOP OF WALL BRACE

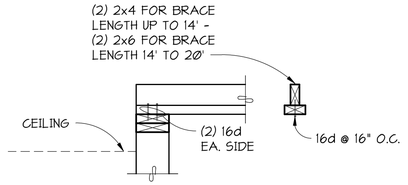
NOTES:
1. THIS PLAN IS AN EXAMPLE ONLY IT DOES NOT REPRESENT A SPECIFIC WALL.
2. "L" INDICATES UNBRACED LENGTH OF WALLS.
3. AT CONTRACTORS OPTION IN LIEU OF EXTRA TOP PLATE.

① INDICATES HORIZONTAL BRACE EXTENDING TO ADJACENT CORNER SEE 2/S304.

② INDICATES BRACE UP TO ROOF STRUCTURE SEE 3/S304.

TYPICAL LATERAL SUPPORT FOR INTERIOR NON-BEARING WALLS NOT EXTENDING TO STRUCTURE

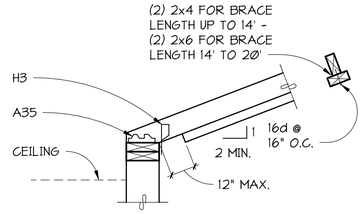
1 S304 **DETAIL** NO SCALE




NOTES:
1. MAXIMUM SPACING OF BRACES = 10'-Ø".
2. BRACES NOT REQUIRED WITHIN 8'-Ø" OF OTHER LATERAL WALL SUPPORT, CORNERS AND INTERSECTIONS.

TYPICAL TOP OF WALL BRACE (HORIZONTAL)

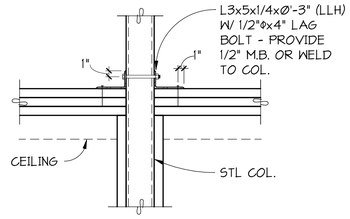
2 S304 **SECTION** NO SCALE




NOTES:
1. MAXIMUM SPACING OF BRACES = 10'-Ø".
2. BRACES NOT REQUIRED WITHIN 8'-Ø" OF OTHER LATERAL WALL SUPPORT, CORNERS AND INTERSECTIONS.

TYPICAL TOP OF WALL BRACE UP TO STRUCTURE

3 S304 **SECTION** NO SCALE




TYPICAL WALL BRACE AT HOLLOW STRUCTURAL STEEL COLUMN

4 S304 **SECTION** NO SCALE




TYPICAL BRACE CONNECTION PARALLEL TO TRUSS

5 S304 **SECTION** NO SCALE




WALL PARALLEL TO TRUSS

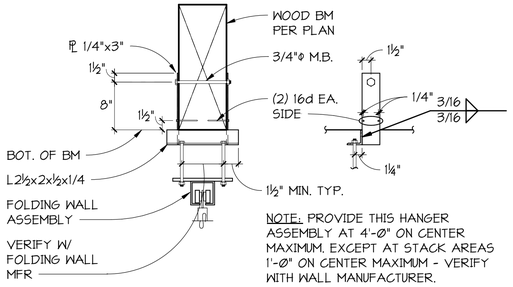



WALL PERPENDICULAR TO TRUSS




BLOCKING OPTION

6 S304 **SECTION** NO SCALE




NOTE: PROVIDE THIS HANGER ASSEMBLY AT 4'-Ø" ON CENTER MAXIMUM, EXCEPT AT STACK AREAS 1'-Ø" ON CENTER MAXIMUM - VERIFY WITH WALL MANUFACTURER.

TYPICAL FOLDING WALL SUPPORT AT WOOD BEAM

7 S304 **SECTION** NO SCALE

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FRAMING DETAILS

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# MECHANICAL GENERAL NOTES

1. VERIFY LOCATION OF PLUMBING FIXTURES WITH ARCHITECTURAL DRAWINGS BEFORE BEGINNING WORK. ARCHITECTURAL DWGS. GOVERN.
2. PLUMBING FIXTURE HEIGHTS SHALL BE AS SHOWN ON ARCHITECTURAL DRAWINGS.
3. CONTRACTOR SHALL CAREFULLY COORDINATE WORK W/ ALL OTHER TRADES, ESPECIALLY IN CEILING SPACES WHERE SPACE IS TIGHT. SHEET METAL CONTRACTOR SHALL HAVE PRIORITY OVER OTHER MECHANICAL TRADES IN CEILING SPACE WHERE CONFLICTS OCCUR.
4. ALL PIPING & DUCTWORK SHOWN IS SCHEMATIC, CONTRACTOR SHALL PROVIDE ALL OFFSETS/ELBOWS AS REQ'D TO ALLOW ROUTING AROUND STRUCTURE, ELECTRICAL, & OTHER INTERFERENCES.
5. PROVIDE MANUAL VOLUME DAMPERS IN ALL BRANCH DUCTS AND SPLITS IN MAIN DUCTS AND WHERE REQ'D BY BALANCERS; ONLY SOME OF THE REQ'D DAMPERS ARE SHOWN ON THE PLANS.
6. WHERE DUCT SIZES ARE NOT SHOWN, PROVIDE THE FOLLOWING SIZED CONNS. (OR EQUIVALENT RECTANGULAR).

| CFM | DUCTS TO OTHER DIFFUSERS | DUCTS |
|---|---|---|
| 0 - 100 | 6" Ø | 6" Ø |
| 101 - 150 | 8" Ø | 8" Ø |
| 151 - 250 | 10" Ø | 8" Ø |
| 251 - 400 | 12" Ø | 10" Ø |
| 401 - 500 | 14" Ø | 12" Ø |
| 501 - 700 | 16" Ø | 12" Ø |

| CFM | DUCTS TO OTHER DIFFUSERS | DUCTS |
|---|---|---|
| 701 - 900 | 18" Ø | 14" Ø |
| 901 - 1200 | 20" Ø | 16" Ø |
| 1201 - 1500 | 20" Ø | 18" Ø |
| 1501 - 2000 | 22" Ø | 20" Ø |
| 2001 - 2400 | 24" Ø | 22" Ø |

7. FOR UNSIZED PIPING (OR SIZE NOT CLEAR), PIPE SIZE SHALL MATCH THE SIZE OF THE LARGEST ADJACENT CONNECTING PIPE SIZE SHOWN. WHERE THE ADJACENT PIPE IS NOT SHOWN (OR NOT CLEAR), THE PIPE SIZE SHALL BE BASED ON THE GPM FLOWING IN THE PIPE (USE FIXTURE UNITS AND CORRESPONDING GPM PER THE UPC FOR DOMESTIC WATER SYSTEMS, USE WASTE FIXTURE UNITS & UPC TABLES FOR WASTE/VENT SYSTEM), AND A VELOCITY NO GREATER THAN 4 FEET PER SECOND. USE UPC CURVES FOR GPM/VELOCITY FOR APPROPRIATE PIPING MATERIAL INVOLVED.
8. ALL ITEMS ARE NEW UNLESS SPECIFICALLY NOTED AS EXISTING.
9. MECHANICAL WORK IS NOT LIMITED TO MECHANICAL DRAWINGS AND DIVISION 20, 21, 22 & 23 SPECIFICATIONS. THERE IS ADDITIONAL MECHANICAL WORK TO BE INCLUDED IN THE BID INDICATED ON OTHER DRAWINGS AND IN OTHER SPECIFICATION DIVISIONS. CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL MECHANICAL WORK.
10. BALANCING NOTES: PROVIDE AIR BALANCING OF HVAC SYSTEM, SEE SECTION 23 05 93 FOR COMPLETE REQUIREMENTS. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL MEASURE/BALANCE SUPPLY AIR, FOR EACH EXISTING ZONE AFFECTED BY THE WORK, SO THAT NEW VOLUMES CAN BE VERIFIED.
11. PROVIDE TRANSITIONS FROM DUCT SIZES INDICATED TO CONNECTION SIZES AT EQUIPMENT. WHERE THE CONNECTING DUCT IS LINED, THE TRANSITION SHALL BE LINED. USE 1" LINING (UNO).
12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE & SELECT FINAL LOCATIONS OF ALL AIR INLETS/OUTLETS. SHIFT AIR INLETS/ OUTLETS FROM LOCATIONS SHOWN AS REQ'D TO AVOID CONFLICTS W/ STRUCTURE, LIGHTS, & OTHER ITEMS. SUCH SHIFTS SHALL MAINTAIN SYMMETRY OF AIR TERMINALS & SHALL HAVE PRIOR APPROVAL OF ARCHITECT/ENGINEER.

# MECHANICAL LEGEND

| SYMBOL | DESCRIPTION |
|---|---|
| | WASTE OR SOIL (W) |
| | VENT (V) |
| | COLD WATER (CW) |
| | HOT WATER (HW) |
| | HOT WATER CIRCULATING (HWC) |
| F | FIRE (F) |
| FDC | FIRE DEPARTMENT CONNECTION (FDC) |
| G | NATURAL GAS (G) |
| | ISOLATION VALVE |
| | GLOBE VALVE |
| | ANGLE VALVE |
| | COMBINATION SHUT-OFF & BALANCING VALVE |
| | CHECK VALVE |
| | UNION |
| | RELIEF VALVE OR SAFETY VALVE |
| | STRAINER |
| | CONCENTRIC REDUCER |
| | DRAIN VALVE |
| | PRESSURE GAUGE |
| | THERMOMETER |
| 20/12 | DUCT (FIRST FIGURE, SIDE SHOWN) |
| 20/12L* | LINED DUCT (DIM. FOR NET FREE AREA) EOL= END OF LINING L= LINED L*= 2" THICK LINING |
| R (D) | RISE (R) OR DROP (D) ARROW IN DIRECTION OF FLOW |
| | VOLUME DAMPER (MANUAL) |
| M | MOTORIZED DAMPER |
| | FIRE DAMPER |
| | FLEXIBLE CONNECTION |
| | FLEXIBLE DUCT |
| SIZE,SYMBOL CFM | CEILING OUTLET |
| SIZE,SYMBOL CFM | CEILING INLET |
| SIZE,SYMBOL CFM | WALL OUTLET (OR INLET) |
| T T G T A | THERMOSTAT G= WITH GUARD A= AVERAGED WITH OTHER THERMOSTATS |
| S | SWITCH |
| C | CARBON DIOXIDE SENSOR |
| M ZD-# Ø A/B | ZONE DAMPER # = DIAMETER A = MAX CFM B = MIN CFM |
| 2 M3 | DETAIL IDENTIFICATION NUMBER SHEET ON WHICH DETAIL IS SHOWN |
| D-A M3 | SECTION IDENTIFICATION LETTERS SHEET ON WHICH SECTION IS SHOWN |

| ABBREV. | DESCRIPTION |
|---|---|
| AHJ | AUTHORITY HAVING JURISDICTION |
| AFF | ABOVE FINISHED FLOOR |
| APPROX | APPROXIMATELY |
| ARCH | ARCHITECTURAL |
| B.O.D. | BOTTOM OF DUCT |
| BTU | BRITISH THERMAL UNIT |
| BTUH | BRITISH THERMAL UNIT/HOUR |
| BLDG | BUILDING |
| CAP | CAPACITY |
| CLG | CEILING |
| CO | CLEANOUT |
| COP | COEFFICIENT OF PERFORMANCE |
| COMP | COMPRESSOR |
| CONN | CONNECTION |
| CONT | CONTINUE, CONTINUATION |
| CFM | CUBIC FEET PER MINUTE |
| CW | COLD WATER |
| CFH | CUBIC FEET PER HOUR |
| DEG F, F | DEGREE FAHRENHEIT |
| DIA,Ø | DIAMETER |
| DN | DOWN |
| DWG | DRAWING |
| DB | DRY BULB |
| EA | EACH |
| ELEC | ELECTRICAL, ELECTRIC |
| EER | ENERGY EFFICIENCY RATIO |
| EAT | ENTERING AIR TEMPERATURE |
| EWB | ENTERING WET BULB |
| EDB | ENTERING DRY BULB |
| EOL | END OF LINING |
| EXH | EXHAUST |
| EF | EXHAUST FAN |
| ESP | EXTERNAL STATIC PRESSURE |
| F | FIRE |
| FDC | FIRE DEPARTMENT CONNECTION |
| FPM | FEET PER MINUTE |
| FLEX | FLEXIBLE |
| FL | FLOOR |
| FCO | FLOOR CLEAN OUT |
| FLA | FULL LOAD AMPS |
| G | GAS |
| GAL | GALLON |
| GALV. | GALVANIZED |
| G.C. | GENERAL CONTRACTOR |
| GPM | GALLON PER MINUTE |
| GPH | GALLON PER HOUR |
| HP | HORSE POWER |
| HW | HOT WATER |
| HWC | HOT WATER CIRCULATING |
| IN | INCH |
| I.E. | INVERT ELEVATION |
| KW | KILOWATT |
| MFR | MANUFACTURER |
| MAX | MAXIMUM |
| MBH | THOUSAND BTUH |
| MECH | MECHANICAL |
| MIN | MINIMUM |
| MCA | MINIMUM CIRCUIT AMPS |
| NO. | NUMBER |
| NTS | NOT TO SCALE |
| OBD | OPPOSED BLADE DAMPER |
| OA | OUTSIDE AIR |
| PH | PHASE |
| PTA | PLEATED THROWAWAY |
| P.D.I. | PLUMBING AND DRAINAGE INST. |
| PD | PRESSURE DROP |
| RLA | RATED LOAD AMPS |
| REF | REFERENCE |
| REQ'D | REQUIRED |
| RA | RETURN AIR |
| RPM | REVOLUTIONS PER MINUTE |
| RM | ROOM |
| SA | SUPPLY AIR |
| S.S. | STAINLESS STEEL |
| TEMP | TEMPERATURE |
| TD | TRANSFER DUCT |
| TG | TRANSFER GRILLE |
| TSP | TOTAL STATIC PRESSURE |
| TYP | TYPICAL |
| U.N.O. | UNLESS NOTED OTHERWISE |
| VTR | VENT THROUGH ROOF |
| V | VOLTS, VOLTAGE - VENT |
| VFD | VARIABLE FREQUENCY DRIVE |
| WCO | WALL CLEAN OUT |
| W | WATT - WASTE |
| WB | WET BULB |
| W/ | WITH |
| ZD | ZONE DAMPER |


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1111 Fawcett Ave Suite 100 Tacoma, WA 98402
Phone: (253) 383-3257 Fax: (253) 383-3283
general@hultzbhu.com Job Number: 19-035



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02.07.2020

Archdiocese of Seatle
St. Andrew Catholic Church Parish Hall
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Sumner, WA 98390-2720

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| Job No: | 1851 Date: 2020-02-07 |
| File No: | |
| Drawn By: | NG |
| Checked By: | RH |
| Issued For: | PERMIT SET |

MECHANICAL LEGEND & NOTES

M001

# ENERGY CODE NOTES - MECHANICAL

EQUIPMENT SIZING, PERFORMANCE, AND TYPE

1. LOAD CALCULATIONS, C403.1: LOAD CALCULATIONS HAVE BEEN PERFORMED IN ACCORDANCE WITH WSEC C403.2.1.
2. EQUIPMENT AND SYSTEM SIZING, C403.2.2: OUTPUT CAPACITIES OF HEATING AND COOLING EQUIPMENT AND SYSTEMS ARE NO GREATER THAN THE SMALLEST AVAILABLE EQUIPMENT SIZE THAT EXCEEDS THE CALCULATED LOADS.
3. HVAC EQUIPMENT PERFORMANCE, C403.2.3/C403.2.13.1: EQUIPMENT SCHEDULES ARE INCLUDED WITH THESE PLANS.
4. ELECTRIC MOTOR EFFICIENCY, C405.8: ALL ELECTRIC MOTORS SHALL MEET THE MINIMUM EFFICIENCY OF TABLES C405.8(1). FRACTION HP FAN MOTORS 1/12HP OR GREATER UP TO 1HP SHALL BE ECM TYPE OR SHALL HAVE A MINIMUM EFFICIENCY OF 70% OR GREATER.
5. MOTOR NAMEPLATE HP, C403.2.11.2: FOR EACH FAN, THE MOTOR SHALL BE NO LARGER THAN THE FIRST AVAILABLE MOTOR SIZE GREATER THAN THE BHP.
6. GAS-FIRED FURNACES AND UNIT HEATERS, C403.2.3: FOR INPUT RATING OF 225 MBH OR GREATER, PROVIDE WITH INTERMITTENT IGNITION OR INTERRUPTED DEVICE, MECHANICAL DRAFT (INCLUDING POWER VENTING) OR A FLUE OR VENT DAMPER, AND WHERE LOCATED WITHIN A CONDITIONED SPACE, JACKET LOSSES SHALL NOT EXCEED 0.75 PERCENT OF THE INPUT RATING.
7. COMBUSTION HEATING EQUIPMENT, C403.2.4.8: COMBUSTION HEATING EQUIPMENT OVER 225 MBH CAPACITY SHALL HAVE MODULATING OR STAGED COMBUSTION CONTROL (EXCEPT BOILERS AND RADIANT HEATERS).
8. KITCHEN EXHAUST HOODS, C403.2.7.1: SEE PLANS FOR TYPE, DUTY AND EXHAUST RATES.
9. OUTDOOR AIR, EXHAUST & RELIEF DAMPERS, C403.2.4.3: PROVIDE ALL OUTSIDE AIR, EXHAUST AIR, AND RELIEF AIR OPENINGS WITH CLASS 1 (MAX LEAKAGE OF 4 CFM/SF AT 1.0" W.C.) MOTORIZED DAMPERS.
10. RETURN AIR DAMPERS, C403.2.4.3: PROVIDE RETURN AIR OPENINGS WITH CLASS 1 MOTORIZED DAMPER WHERE USED FOR AIRSIDE ECONOMIZER. WHERE INSTALLED IN UNITARY PACKAGED EQUIPMENT DAMPER, PROVIDE DAMPERS WITH LOWEST LEAKAGE RATE AVAILABLE FROM THE EQUIPMENT MANUFACTURER.
11. ZONE ISOLATION DAMPERS, C403.2.4.4: HVAC SYSTEMS SERVING ZONES THAT ARE OVER 25,000SF OR THAT SPAN MULTIPLE FLOORS AND ARE DESIGNED TO BE OCCUPIED NON-SIMULTANEOUSLY SHALL BE DIVIDED INTO ISOLATION AREAS EQUIPPED WITH ISOLATION DEVICES AND CONTROLS.

ADDITIONAL EFFICIENCY PACKAGE OPTION

12. HVAC SYSTEM SELECTION, C403.2.4.3/C406.2.1: AT LEAST 90 PERCENT OF THE TOTAL HVAC CAPACITY SERVING THE BUILDING SHALL BE PROVIDED BY EQUIPMENT LISTED IN TABLES C403.2.3(1) THROUGH C403.2.3(2).
13. MINIMUM EQUIPMENT EFFICIENCY, C406.2.2: ALL LISTED HEATING AND COOLING EQUIPMENT SHALL HAVE A RATED EFFICIENCY THAT EXCEEDS WSEC LISTED EFFICIENCY BY AT LEAST 15%.
14. MINIMUM FAN EFFICIENCY, C406.2.3: STAND ALONE FANS, LARGER THAN 1 HP, SHALL HAVE A FAN EFFICACY GRADE (feg) OF 71 OR BETTER. TOTAL EFFICIENCY AT THE DESIGN POINT OF OPERATION SHALL BE WITHIN 10% OF EITHER THE MAX TOTAL EFFICIENCY OF THE FAN OR THE STATIC EFFICIENCY OF THE FAN.

HVAC SYSTEM CONTROLS

15. THERMOSTATIC CONTROLS, C403.2.4.1: WHERE ADJACENT ZONES CONNECTED BY PERMANENT OPENINGS WITH AREA GREATER THAN 10% OF EITHER ZONE SF, PROVIDE CONTROL TO PREVENT ADJACENT ZONES FROM OPERATING IN CONFLICTING MODES. WHERE A NON-PERIMETER ZONE IS ADJACENT TO A PERIMETER ZONE, PROVIDE CONTROLS TO ONLY ALLOW COOLING IN THE NON-PERIMETER ZONE WHEN IT IS 5 DEGREES HIGHER THAN THE PERIMETER ZONE.
16. DEADBAND, C403.2.4.1.2: THERMOSTATIC CONTROLS SHALL BE CONFIGURED WITH 5°F MINIMUM DEADBAND FOR SYSTEMS THAT CONTROL BOTH HEATING AND COOLING.
17. SETPOINT OVERLAP RESTRICTION, C402.2.4.1.3: WHERE SEPARATE HEATING AND COOLING SYSTEMS WITH SEPARATE THERMOSTATIC CONTROL DEVICES SERVE A ZONE, PROVIDE A LIMIT SWITCH, MECHANICAL STOP, OR DDC CONTROL TO PREVENT SIMULTANEOUS HEATING AND COOLING.
18. AUTOMATIC SETBACK AND SHUTDOWN, C403.2.4.2/C403.2.4.2.1/C403.2.4.2.2: HVAC SYSTEMS SHALL BE EQUIPPED WITH AUTOMATIC CONTROLS CAPABLE OF STARTING AND STOPPING THE SYSTEM FOR SEVEN DIFFERENT DAILY SCHEDULES, AND SHALL HAVE MANUAL OVERRIDE CONFIGURED TO OPERATE THE SYSTEM FOR 2 HOURS.
19. AUTOMATIC START, C403.2.4.2.3: AUTOMATIC START CONTROLS SHALL BE PROVIDED FOR EACH HVAC SYSTEM, AND BE CAPABLE OF AUTOMATICALLY ADJUSTING DAILY START TIME IN ORDER TO BRING EACH SPACE TO THE DESIRED OCCUPIED TEMPERATURE IMMEDIATELY PRIOR TO SCHEDULED OCCUPANCY.
20. OUTDOOR AIR DAMPERS, C403.2.4.3: OUTSIDE AIR INTAKE DAMPERS SHALL AUTOMATICALLY CLOSE WHEN SYSTEM OR SPACES SERVED ARE NOT IN USE OR DURING WARM-UP AND SET BACK.
21. FREEZE PROTECTION CONTROLS, C403.2.4.6: PROVIDE AUTOMATIC CONTROLS TO SHUT SYSTEM OFF WHEN OUTSIDE AIR TEMPERATURE EXCEEDS 40 DEG F.
22. VENTILATION, C403.2.6/C403.2.11.4: MECHANICAL VENTILATION AIR SYSTEMS SHALL BE CONFIGURED TO PROVIDE NOT MORE THAN 150%, BUT AT LEAST THE MINIMUM REQUIRED VOLUME OF OUTDOOR AIR TO EACH ZONE PER IMC. SEE MECHANICAL EQUIPMENT SCHEDULES FOR MINIMUM OUTSIDE AIR VALUES.
23. DEMAND CONTROLLED VENTILATION, C403.2.6.2: FOR SPACES > 500 SF WITH AN OCCUPANT LOAD GREATER OF 25 PEOPLE PER 1000SF OR GREATER, PROVIDE OCCUPANCY-BASED OSA CONTROL TO REDUCE OUTSIDE AIR DAMPER WHEN SPACE IS UNOCCUPIED.
24. OCCUPANCY SENSORS, C403.2.6.3: CLASSROOMS, GYMS, AUDITORIUMS, AND CONFERENCE ROOMS > 500 SF SHALL HAVE OCCUPANCY CONTROL TO CLOSE OUTSIDE AIR DAMPER OR TURN OFF EQUIPMENT WHEN SPACE IS UNOCCUPIED EXCEPT WHERE EQUIPPED WITH ANOTHER MEANS TO AUTOMATICALLY REDUCE OUTSIDE AIR INTAKE BELOW DESIGN RATES WHEN PARTIALLY OCCUPIED.
25. KITCHEN EXHAUST HOOD, C403.2.7.1: REPLACEMENT AIR, TRANSFER AIR, AND SUPPLY AIR HAVE BEEN BALANCED TO MEET HOOD EXHAUST FLOW RATES. REPLACEMENT AIR INTRODUCED AT THE HOOD SHALL NOT BE GREATER THAN 10% OF THE HOOD EXHAUST RATE. WHERE TOTAL HOOD EXHAUST EXCEEDS 2,000 CFM, HOOD SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 710 AND MAXIMUM EXHAUST RATES SHALL BE LIMITED TO WSEC TABLE C403.2.7.1.
26. DX AHU VARIABLE COOLING CONTROL, C403.3.1:DX COOLING UNITS WITH CAPACITY OF 65 MBH OR MORE SHALL BE PROVIDED WITH INTEGRATED ECONOMIZER COOLING AND WITH MODULATING MECHANICAL COOLING CAPACITY USING EITHER MULTIPLE COMPRESSORS OR A VARIABLE SPEED COMPRESSOR.
27. FAN AIRFLOW CONTROL, C403.2.11.5: FOR DX COOLING UNITS WITH COOLING CAPACITY OF 65 MBH OR GREATER WITH FAN MOTORS OF 1/4 HP OR GREATER, PROVIDE CONTROLS TO VARY THE INDOOR FAN AIRFLOW AS A FUNCTION OF LOAD.

DUCTING SYSTEMS

28. DUCT CONSTRUCTION, C403.2.8.1: DUCTWORK SHALL BE CONSTRUCTED AND SEALED PER IMC.
29. DUCT PRESSURE CLASS, C403.2.8.3: ALL DUCTWORK SHOWN IS LOW PRESSURE DUCT, OPERATING AT STATIC PRESSURE LESS THAN OR EQUAL TO 3 INCHES WATER GAUGE (W.G.).
30. DUCT INSULATION, C403.2.8.1: MINIMUM DUCT INSULATION PER WSEC IS AS FOLLOWS:

| SERVICE | INSULATION LEVEL |
|---|---|
| OUTSIDE AIR DUCTS AND PLENUMS | PROVIDE INSULATION EQUIVALENT TO ENVELOPE REQUIREMENT FOR METAL FRAMED WALLS (TABLE C402.1.3) |
| OUTSIDE AIR DUCT SERVING INDIVIDUAL SUPPLY UNIT WITH LESS THAN 2,800 CFM OF SUPPLY AIR | R-7 |
| SUPPLY & RETURN DUCTS IN UNCONDITIONED SPACES | R-6 |
| SUPPLY DUCTS WITHIN CONDITIONED SPACE WHERESUPPLY AIR IS < 55 DEG F. OR > 105 DEG F. | R-3.3 |
| EXPOSED DUCTWORK WITHIN A ZONE THAT SERVES THAT ZONE | NO INSULATION REQUIRED |

PIPING SYSTEMS

31. PIPING INSULATION, C403.2.9: MINIMUM PIPE INSULATION PER WSEC IS AS FOLLOWS:

| FLUID OPERATING TEMPERATURE | INSULATION THICKNESS (NOMINAL PIPE SIZE) <1 | 1 TO <1-1/2 | 1-1/2 TO < 4 | 4 TO < 8 | OVER 8 |
|---|---|---|---|---|---|
| >350 | 4.5 | 5.0 | 5.0 | 5.0 | 5.0 |
| 251-350 | 3.0 | 4.0 | 4.5 | 4.5 | 4.5 |
| 201-250 | 2.5 | 2.5 | 2.5 | 3.0 | 3.0 |
| 141-200 | 1.5 | 1.5 | 2.0 | 2.0 | 2.0 |
| 105-140 | 1.0 | 1.0 | 1.5 | 1.5 | 1.5 |
| 40-60 | 0.5 | 0.5 | 1.0 | 1.0 | 1.0 |
| <40 | 0.5 | 1.0 | 1.0 | 1.0 | 1.5 |

32. PIPE INSULATION EXPOSED TO WEATHER, C403.2.9.1: PROVIDE METAL JACKETING ON ALL PIPE INSULATION EXPOSED TO WEATHER AND SEAL ALL SEAMS WATER TIGHT.

ECONOMIZER

33. AIR ECONOMIZER REQUIRED, C403.3: SEE EQUIPMENT SCHEDULES FOR EQUIPMENT PROVIDED WITH ECONOMIZER COOLING.
34. INTEGRATED ECONOMIZER OPERATION, C403.3 .1: ECONOMIZERS SHALL BE CONFIGURED FOR PARTIAL COOLING OPERATION EVEN WHERE ADDITIONAL MECHANICAL COOLING IS REQUIRED TO MEET THE LOAD.
35. ECONOMIZER HEATING IMPACT, C403.3.2: ECONOMIZER CONTROLS SHALL BE SUCH THAT ECONOMIZER OPERATION DOES NOT INCREASE BUILDING HEATING ENERGY DURING NORMAL OPERATIONS.
36. AIR ECONOMIZER CAPACITY, C403.3.3.1: ECONOMIZER OUTSIDE AIR AND RETURN AIR DAMPERS SHALL MODULATE TO PROVIDE UP TO 100% OUTSIDE AIR FOR COOLING.
37. INTEGRATED AIR ECONOMIZER, C403.3.3.1: MECHANICAL COOLING CONTROLS SHALL BE INTERLOCKED WITH AIR ECONOMIZER CONTROLS SO THE OUTSIDE AIR DAMPER REMAINS IN 100% OPEN POSITION WHEN MECHANICAL EQUIPMENT IS IN COOLING TO MEET THE COOLING LOAD, UNTIL THE LEAVING AIR TEMPERATURE IS < 45°F. FOR SYSTEMS WITH COOLING CAPACITY GREATER THAN 65 MBH, CONTROL OF ECONOMIZER DAMPERS SHALL NOT BE CONTROLLED BASED ONLY ON MIXED AIR TEMPERATURE.
38. ECONOMIZER HIGH LIMIT CONTROLS, C403.3.3.3: PROVIDE HIGH-LIMIT ECONOMIZER SHUT-OFF CONTROL UTILIZING FIXED DRY BULB METHOD. ECONOMIZER SHALL BE OFF WHEN OUTDOOR AIR TEMPERATURE EXCEEDS 75°F.
39. DX AIR HANDLING EQUIPMENT FAULT DETECTION, C403.2.4.7:UNITS WITH DX COOLING 54 MBH AND GREATER SHALL BE PROVIDED WITH AN ECONOMIZER FAULT DETECTION AND DIAGNOSTICS (FDD) SYSTEM TO MONITOR ECONOMIZER OPERATION AND REPORT FAULTS.

COMMISSIONING

40. SCOPE OF MECHANICAL SYSTEMS COMMISSIONING, C408.2: ALL MECHANICAL SYSTEMS, EQUIPMENT AND CONTROLS ARE REQUIRED TO BE COMMISSIONED. FOR BUILDINGS WITH COOLING CAPACITY > 240 MBH OR HEATING OUTPUT > 300 MBH ALL SYSTEMS ARE TO BE COMMISSIONED REGARDLESS OF INDIVIDUAL CAPACITY.
41. COMMISSIONING REQUIREMENTS IN CONSTRUCTION DOCUMENTS, C403.2.10/C408.1/C103.6: COMMISSIONING PLAN SHALL BE DEVELOPED BY A COMMISSIONING PROFESSIONAL AND CONSIST OF A NARRATIVE DESCRIPTION OF ACTIVITIES, ROLES & RESPONSIBILITIES OF THE COMMISSIONING TEAM, SCHEDULE OF ACTIVITIES INCLUDING TAB, FUNCTIONAL PERFORMANCE TESTING AND VERIFICATION OF PROJECT CLOSE OUT DOCUMENTATION PER C103.6, AND SUBMIT COMPLIANCE CHECKLIST TO THE BUILDING OFFICIAL UPON SUBSTANTIAL COMPLETION. A PRELIMINARY COMMISSIONING REPORT AND/OR COMMISSIONING COMPLIANCE CHECKLIST SHALL BE AVAILABLE FOR AHJ REVIEW PRIOR TO THE FINAL MECHANICAL INSPECTION.
42. SYSTEM BALANCING, C408.2.2: HVAC AIR AND WATER SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH THE SPECIFICATIONS AND THESE WSEC NOTES. SEE SPECIFICATIONS FOR FLOW RATE TOLERANCES.
43. AIR SYSTEM BALANCING DEVICES, C408.2.2.1: PROVIDE ALL SUPPLY AIR OUTLETS AND TERMINAL DEVICES WITH MEANS OF BALANCING AIRFLOW. BALANCE TO FIRST MINIMIZE THROTTLING LOSSES, THEN ADJUST TO MEET DESIGN AIR FLOWS.
44. FUNCTIONAL PERFORMANCE TESTING CRITERIA, C408.2.3: FUNCTIONAL PERFORMANCE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH WSEC C408.2.3.

EQUIPMENT SIZING, PERFORMANCE, AND TYPE

45. SWH (SERVICE WATER HEATING) EQUIPMENT TYPE & EFFICIENCY, C404.2: EQUIPMENT SCHEDULES ARE INCLUDED WITH THESE PLANS.
46. HEAT TRAPS, C404.4: WATER HEATING EQUIPMENT NOT SUPPLIED WITH INTEGRAL HEAT TRAPS SERVING NON CIRCULATED SYSTEMS SHALL BE PROVIDED WITH HEAT TRAPS ON SUPPLY AND DISCHARGE PIPING.

PIPING SYSTEMS

47. INSULATION OF PIPING, C404.6: PROVIDE INSULATION FROM WATER HEATER TO FINAL FIXTURE, AND ON PIPING THAT IS HEAT TRACED. MINIMUM PIPE INSULATION PER WSEC IS AS FOLLOWS:

| FLUID OPERATING TEMPERATURE | INSULATION THICKNESS (NOMINAL PIPE SIZE) <1 | 1 TO <1-1/2 | 1-1/2 TO < 4 | 4 TO < 8 | OVER 8 |
|---|---|---|---|---|---|
| 141-200 | 1.5 | 1.5 | 2.0 | 2.0 | 2.0 |
| 105-140 | 1.0 | 1.0 | 1.5 | 1.5 | 1.5 |
| 40-60 | 0.5 | 0.5 | 1.0 | 1.0 | 1.0 |
| <40 | 0.5 | 1.0 | 1.0 | 1.0 | 1.5 |

48. EFFICIENT SWH SUPPLY PIPING, C404.3: ALL PIPING CONNECTING TO SERVICE HOT WATER SOURCE, SHALL COMPLY WITH MAXIMUM ALLOWABLE PIPE LENGTH METHOD. MAXIMUM ALLOWABLE LENGTHS ARE AS FOLLOWS:

| NOMINAL PIPE SIZE (INCH) | MAXIMUM LENGTH (FEET) AT PUBLIC LAVATORY | AT OTHER FIXTURES |
|---|---|---|
| 1/2 | 2 | 43 |
| 3/4 | 1 | 21 |
| 1 | 0.5 | 13 |
| 1-1/4 | 0.5 | 8 |
| 1-1/2 | 0.5 | 6 |
| 2 OR LARGER | 0.5 | 4 |

49. HEATED WATER CIRCULATING SYSTEM, C404.7.1/C404.8: CIRCULATING HOT WATER PUMPS SHALL TURN OFF AUTOMATICALLY WHEN THERE IS NO DEMAND OR DESIRED WATER TEMPERATURE IN RETURN LOOP HAS BEEN MET. CIRCULATING HOT WATER PUMPS SHALL BE EQUIPPED WITH CONTROLS TO TURN OFF DURING PERIODS OF NON-USE.

COMMISSIONING

50. SCOPE OF SWH EQUIPMENT SYSTEMS COMMISSIONING, C408.4: FOR BUILDINGS WHERE THE LARGEST SERVICE WATER HEATING SYSTEM CAPACITY IS 200 MBH OR GREATER, AND FOR ALL BUILDINGS WITH POOLS, ALL SWH EQUIPMENT AND CONTROLS ARE REQUIRED TO BE COMMISSIONED.
51. COMMISSIONING REQUIREMENTS IN CONSTRUCTION DOCUMENTS, C404.13/C408.1/C103.6: COMMISSIONING PLAN SHALL BE DEVELOPED BY A COMMISSIONING PROFESSIONAL AND CONSIST OF A NARRATIVE DESCRIPTION OF ACTIVITIES, ROLES & RESPONSIBILITIES OF THE COMMISSIONING TEAM, SCHEDULE OF ACTIVITIES INCLUDING TAB, FUNCTIONAL PERFORMANCE TESTING AND VERIFICATION OF PROJECT CLOSE OUT DOCUMENTATION PER C103.6, AND SUBMIT COMPLIANCE CHECKLIST TO THE BUILDING OFFICIAL UPON SUBSTANTIAL COMPLETION. A PRELIMINARY COMMISSIONING REPORT AND/OR COMMISSIONING COMPLIANCE CHECKLIST SHALL BE AVAILABLE FOR AHJ REVIEW PRIOR TO THE FINAL MECHANICAL INSPECTION.
52. FUNCTIONAL PERFORMANCE TESTING CRITERIA, C408.4.1: FUNCTIONAL PERFORMANCE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH WSEC C408.4.1.

PROJECT CLOSE OUT DOCUMENTATION

53. DOCUMENTATION SUBMITTAL REQUIREMENTS, C103.6: SUBMIT ALL CLOSEOUT DOCUMENTATION INCLUDING AS-BUILTS AND O&M'S TO OWNER WITHIN 180 DAYS OF RECEIPT OF CERTIFICATE OF OCCUPANCY.
54. THESE "ENERGY CODE NOTES" ARE LISTED TO SATISFY THE BUILDING DEPARTMENT'S REQUIREMENT THAT CERTAIN INFORMATION BE PLACED ON THE PLANS, BUT DO NOT DIMINISH THE FULL PROJECT REQUIREMENTS. PROVIDE ITEMS IN EXCESS OF CODE WHERE NOTED ON DRAWINGS AND IN SPECIFICATIONS. FOR OTHER ADDED REQUIREMENTS, SEE SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

| ITEM | SECTION# |
|---|---|
| AS-BUILT DOCUMENTS | 20 05 00 |
| O&M MANUALS | 20 05 00 |
| PIPING & DUCT INSULATION | 20 07 00 |
| DUCTWORK SEALING & TESTING | 23 31 00 |
| CONTROLS | DIVISION 23 09 33 & 23 09 93 |

RMC ARCHITECTS
RMC Architects, PLLC • 1323 Railroad Avenue • Bellingham, WA 98225
P:360.676.7733 • F:360.738.0448 • www.rmcarchitects.com

SIGNED
02.07.2020

Archdiocese of Seattle
St. Andrew Catholic Church Parish Hall
1401 Valley Avenue East
Sumner, WA 98390-2720

HULTZ BHU engineers inc
1111 Fawcett Ave Suite 100 Tacoma, WA 98402
Phone: (253) 383-3257 Fax: (253) 383-3283
general@hultzbhu.com Job Number: 19-035

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| Job No: | 1851 Date: 2020-02-07 |
| File No: | |
| Drawn By: | NG |
| Checked By: | RH |
| Issued For: | PERMIT SET |

MECHANICAL NOTES

M002

# AIR INLET & OUTLET SCHEDULE

| SYMBOL | TYPE | MANUFACTURER AND SERIES NUMBER | REMARKS |
|---|---|---|---|
| CD | CEILING DIFFUSER | TITUS SERIES MCD | MODULAR CORE, SQUARE NECK |
| CRG | CEILING RETURN GRILLE | TITUS SERIES 50F | 1/2"x1/2"x1/2" CUBE CORE |
| CEG | CEILING EXHAUST GRILLE | TITUS SERIES 50F | 1/2"x1/2"x1/2" CUBE CORE |
| TG | CEILING TRANSFER GRILLE | TITUS SERIES 50F | 1/2"x1/2"x1/2" CUBE CORE |
| WTG | WALL TRANSFER GRILLE | TITUS SERIES 350 | HORIZ. FACE BARS 3/4" O.C., 35° DEFLECTION |
| WSG | WALL SUPPLY GRILLE | TITUS SERIES 300 | DOUBLE DEFLECTION HORIZ. FACE BARS, VERT REAR BARS, 3/4" O.C. |
| WRG-A | WALL RETURN GRILLE | KEES GHD40 RETURN | HORIZ. FACE BARS 1/2" O.C., 40° DEFLECTION |
| WSR | WALL SUPPLY REGISTER | TITUS SERIES | DOUBLE DEFLECTION HORIZ. FACE BARS, VERT REAR BARS, 3/4" O.C. |
| | | | |

**AIR INLET & OUTLET SCHEDULE NOTES:**

1. CEILING DIFFUSERS (CD) SHALL HAVE NO. & DIRECTION OF THROWS AS INDICATED ON PLANS. (E.G. CD-3=3 WAY THROW).
2. ALL AIR TERMINALS SHALL HAVE FACTORY FINISH, COLOR AS SELECTED BY ARCHITECT.
3. SEE LEGEND FOR TERMINOLOGY USED IN AIR TERMINAL CALL-OUTS ON DRAWINGS.
4. SEE ARCH. FINISH SCHEDULE FOR CEILING TYPES, PROVIDE AIR TERMINALS TO MATCH CEILING CONSTRUCTION INSTALLED IN.

# PLUMBING FIXTURE SCHEDULE

| SYMBOL | DESCRIPTION | W | V | CW | HW | REMARKS |
|---|---|---|---|---|---|---|
| P-1A | WATER CLOSET | 4" | 2" | 1" | - | WALL MOUNT HANDICAP ACCESSIBLE |
| P-1B | WATER CLOSET | 4" | 2" | 1" | - | WALL MOUNT |
| P-2A | URINAL | 2" | 1-1/2" | 3/4" | - | WALL MOUNT HANDICAP ACCESSIBLE |
| P-3A | LAVATORY | 1-1/2" | 1-1/2" | 1/2" | 1/2" | DROP-IN, HANDICAP ACCESSIBLE |
| P-6A | SERVICE SINK | 3" | 2" | 1/2" | 1/2" | FLOOR MOUNT |
| P-8A | DRINKING FOUNTAIN | 2" | 1-1/2" | 1/2" | - | DUAL UNIT, HANDICAP ACCESSIBLE, W/ BOTTLE FILLER |
| P-10A | WALL HYDRANT | - | - | 3/4" | - | FREEZE PROOF |
| P-11A | FLOOR DRAIN | 2" | 2" | - | - | W/ TRAP PRIMER |
| P-11B | FUNNEL DRAIN | SIZES AS NOTED ON PLANS | | | | W/ TRAP PRIMER |
| P-11C | FLOOR RECEPTOR | SIZES AS NOTED ON PLANS | | | | |
| P-12A | VALVE BOX | - | - | 1/2" | - | |

# GAS HEAT / ELECTRIC COOLING UNIT SCHEDULE

| SYMBOL | SPECIFIED MANUFACTURER AND SERIES NO. | AREA SERVED | COOLING CAPACITY * | | | HEATING CAPACITY | | SUPPLY FAN | | | COMPRESSOR | | COND. FAN | | COMB. FAN | | FILTERS | | UNIT ELECTRICAL | | MIN. OA | MAX. WEIGHT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | TOTAL MBH | SENSIBLE MBH | EFF. | OUTPUT MBH | AFUE | CFM | ESP | HP | QTY | RLA (EA) | QTY | FLA (EA) | QTY | FLA (EA) | TYPE | MIN. SF | MCA | VOLTS / PH | | | |
| HVAC-1 | TRANE YZD150 | MEETING ROOMS | 151 | 113 | 20 IEER | 81 | 80% | 4000 | 1.5" | 3 | 3 | 14.5 | 2 | 5.3 | 1 | 10.6 | PTA MERV 13 | 12 | 71 | 208/3 | 625 | 1700 | W/ 0-100% OA ECONOMIZER, ROOF CURB |
| HVAC-2 | TRANE YZH210 | HALL 117 | 205 | 169 | 19.3 IEER | 142 | 80% | 7000 | 1.5" | 5 | 3 | 19.2 | 2 | 7.4 | 1 | 16.7 | PTA MERV 13 | 16 | 91 | 208/3 | 2200 | 3000 | W/ 0-100% OA ECONOMIZER, ROOF CURB |

* COOLING CAPACITY IS AHRI RATING: AT 80°F DB; 67°F WB INDOOR COIL EAT AND 95°F OUTDOOR COIL EAT.

# FAN SCHEDULE

| SYMBOL | SPECIFIED MANUFACTURER AND SERIES NO. | TYPE | AREA SERVED | DRIVE | CFM | ESP (IN WG) | RPM | ELECTRICAL | | CONTROL | MAX WEIGHT IN LBS | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | POWER | VOLTS/PH | | | |
| EF-101 | GREENHECK CSP-A510 | INLINE | MECH/STORAGE 101 | DIRECT | 350 | .375" | 1070 | 250 W | 115/1 | (T) - 80°F | 50 | (1) W/ EC MOTOR |
| EF-111 | GREENHECK G-099 | ROOFTOP | WOMEN 111, MEN 112 | DIRECT | 900 | .375" | 1435 | 1/4 HP | 115/1 | TIME CLOCK | 75 | (1) W/ EC MOTOR, CURB |
| EF-114A | GREENHECK CUBE-180 HP | ROOFTOP UPBLAST | TYPE I HOOD | BELT | 2520 | 1.75" | 1430 | 1-1/2 HP | 208/3 | HOOD SWITCH | 200 | (1) W/ VFD, CURB |
| EF-114B | GREENHECK G-099 | ROOFTOP | KITCHEN 114 | DIRECT | 525 | .375" | 1140 | 1/4 HP | 115/1 | TIME CLOCK | 75 | (2) W/ EC MOTOR, CURB |
| | | | | | | | | | | | | |

(1) = SPEED CONTROL (2) = INTERLOCK SO FAN IS OFF WHEN EF-114A IS ON.

# MAKEUP AIR UNIT SCHEDULE

| SYMBOL | SPECIFIED MANUFACTURER AND SERIES NUMBER | TYPE | AREA SERVED | HEATING CAP. | | SUPPLY FAN | | | ELECTRICAL | | FILTERS | | MAX WEIGHT LBS | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | MBH | AFUE | CFM | ESP | HP | MCA | VOLTS/PH | TYPE | SF | | |
| MUA-1 | CAPTIVEAIRE AI-D250-G10 | GAS FIRED INDIRECT | KITCHEN | 143 | 92% | 2270 | 0.5" | 1-1/2 | 5.5A | 208/3 | 2" PTA MERV 13 | 8 | 750 | W/ ROOF CURB |

# MISCELLANEOUS EQUIPMENT SCHEDULE

| SYMBOL | DESCRIPTION | BASIS OF DESIGN MANUFACTURER AND SERIES NO. | AREA SERVED | EQUIPMENT CAPACITY | ELECTRICAL | | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | POWER | VOLTS / PH | |
| EWH-102 | ELECTRIC WALL HEATER | MARKEL 3700 SERIES | RISER 102 | 1706 BTUH | 500W | 115/1 | W/ INTEGRAL THERMOSTAT |
| EWH-108 | ELECTRIC WALL HEATER | MARKEL 3700 SERIES | VESTIBULE 108 | 2550 BTUH | 750W | 115/1 | W/ INTEGRAL THERMOSTAT |
| EWH-110A | ELECTRIC WALL HEATER | MARKEL 3700 SERIES | VESTIBULE 110 | 5100 BTUH | 1500W | 208/3 | W/ INTEGRAL THERMOSTAT |
| EWH-110B | ELECTRIC WALL HEATER | MARKEL 3700 SERIES | VESTIBULE 110 | 5100 BTUH | 1500W | 208/3 | W/ INTEGRAL THERMOSTAT |
| | | | | | | | |

# WATER HEATER SCHEDULE

| SYMBOL | SPECIFIED MANUFACTURER AND SERIES NO. | TYPE | AREA SERVED | INPUT RATING | STORAGE (GAL) | DOMESTIC HW | | | ELECTRICAL | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | GPH | EWT | LWT | FLA | VOLTS/PH | |
| WH-1 | A.O. SMITH BTX-100 | GAS, TANK | KITCHEN 114, JANITOR 103 | 100 MBH | 75 | 145 | 40 | 120 | 5 A | 115/1 | |
| WH-2 | CHRONOMITE CMT-4.0 | ELECTRIC, INSTANTANEOUS | WOMEN 111 | 1440 W | 4.0 | - | 40 | 120 | 12 A | 115/1 | WALL MOUNTED UNDER COUNTER |
| WH-3 | CHRONOMITE CMT-4.0 | ELECTRIC, INSTANTANEOUS | MEN 112 | 1440 W | 4.0 | - | 40 | 120 | 12 A | 115/1 | WALL MOUNTED UNDER COUNTER |

# DOMESTIC PUMP SCHEDULE

| SYMBOL | SPECIFIED MANUFACTURER AND SERIES NO. | TYPE | SERVICE | GPM | HEAD FT. H20 | ELECTRICAL | | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | | | | POWER | VOLTS/PH | |
| CP-1 | BELL & GOSSETT NBF | DOMESTIC CIRCULATOR | WH-1 DOMESTIC HW | 5 | 10 | 100 W | 115/1 | W/ AQUASTAT & TIMECLOCK |
| | | | | | | | | |


HULTZ BHU engineers inc
1111 Fawcett Ave Suite 100 Tacoma, WA 98402
Phone: (253) 383-3257 Fax: (253) 383-3283
general@hultzbhu.com Job Number: 19-035



RMC ARCHITECTS
RMC Architects, PLLC • 1223 Railroad Avenue • Bellingham, WA 98225
P:360.676.7733 • F:360.738.0448 • www.rmcarchitects.com


LICENSED ARCHITECT STATE OF WASHINGTON ROBERT HUTCHINSON REGISTERED PROFESSIONAL

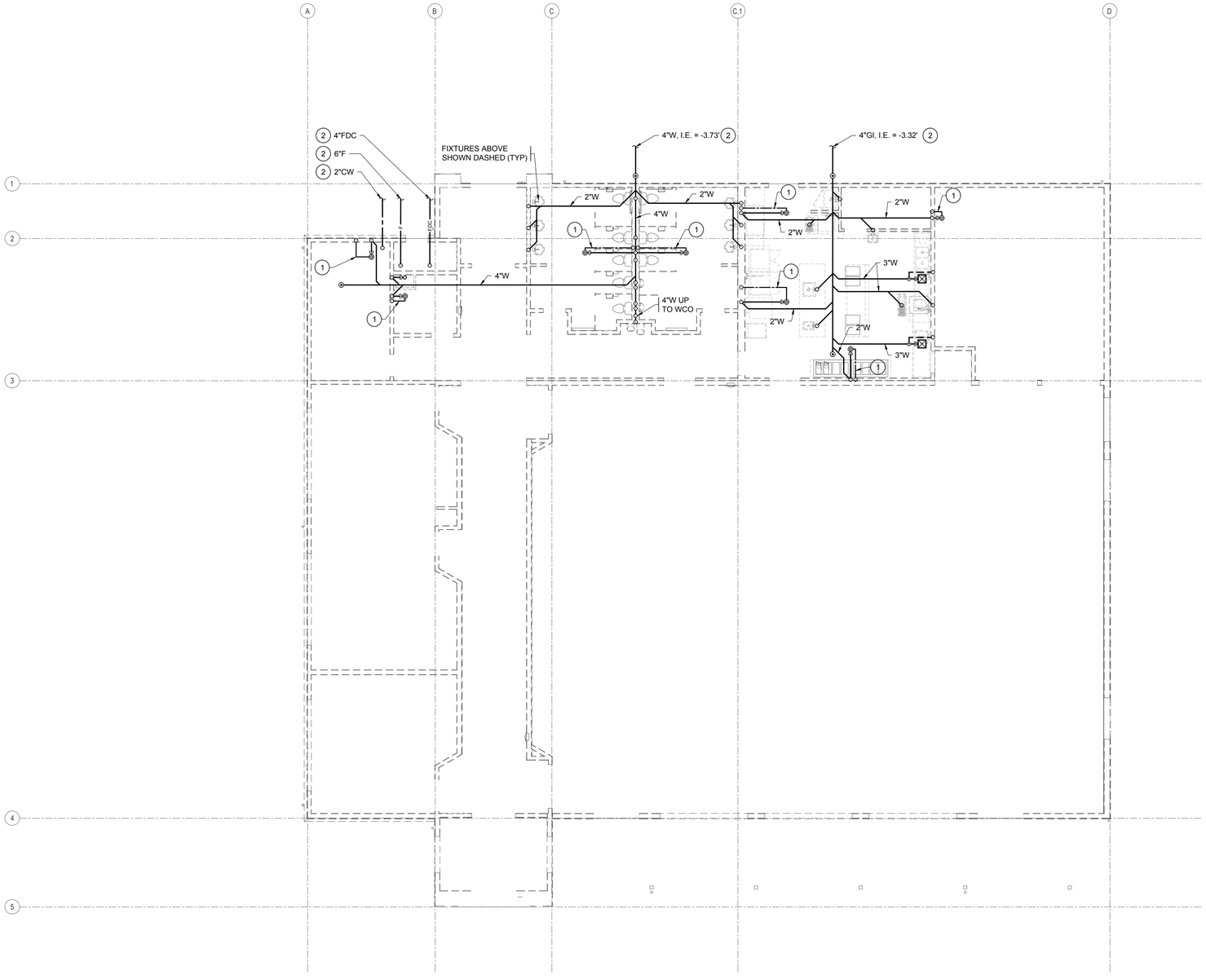
SIGNED 02.07.2020

Archdiocese of Seatle
St. Andrew Catholic Church Parish Hall
1401 Valley Avenue East
Sumner, WA 98390-2720

Job No: 1851 Date: 2020-02-07
File No:
Drawn By: NG
Checked By: RH
Issued For: PERMIT SET

MECHANICAL SCHEDULES

M003




## GENERAL NOTES:

1. SEE STRUCTURAL DWGS FOR LOCATIONS OF FOUNDATION COMPONENTS. ITEMS SHOWN ON THIS DRAWING ARE APPROXIMATE ONLY. OFFSET ITEMS AS NEEDED TO CLEAR FOOTINGS & OTHER UG ITEMS.
2. INVERT ELEVATIONS ARE BASED ON DEPTH BELOW FINISHED FLOOR ELEVATION AT POINT WASTE PIPING EXITS BLDG. BLDG FINISHED FLOOR ELEVATION VARIES THROUGH BLDG, AS DO EXTERIOR GRADES AROUND THE BUILDING. SEE ARCH & CIVIL PLANS FOR RELATED INFORMATION TO DETERMINE RELATIVE PIPING DEPTH. COORDINATE PIPE INVERT ELEVATIONS WITH SITE CONTRACTOR PRIOR TO BEGINNING WORK.
3. PRIOR TO BEGINNING ANY WORK CONTRACTOR SHALL VERIFY DEPTH OF SITE SEWER AND CONFIRM PIPING SLOPES IN ORDER TO PROVIDE PROPER WORKING SEWER SYSTEM.
4. FIXTURES SHOWN DASHED REPRESENT FIXTURES ON FLOOR ABOVE. SEE PLUMBING FLOOR PLAN FOR EXACT TYPE AND LOCATION.
5. REVIEW ALL DRAWINGS & SUBMITTALS AND VERIFY FIXTURE LOCATIONS PRIOR TO BEGINNING WORK.
6. FOR PIPE SIZES TO INDIVIDUAL PLUMBING FIXTURES SEE "PLUMBING FIXTURE SCHEDULE", SHEET M003.
7. REVIEW ALL DRAWINGS & SUBMITTALS & VERIFY LOCATION OF ALL FLOOR DRAINS AND FIXTURES PRIOR TO BEGINNING WORK. VERIFY EQUIPMENT LOCATIONS, DRAIN POINTS, AND RELATED DETAILS TO ENSURE THAT DRAINS CAN PROPERLY SERVE ITEMS INTENDED W/O ABOVE FLOOR DRAIN PIPING ROUTED THROUGH WALKWAY OR ACCESS PATHS.
8. AT MAIN RESTROOMS CONTRACTOR MAY USE HORIZONTAL DISCHARGE WASTE CARRIERS AND ABOVE FLOOR WASTE PIPING IN PLUMBING CHASE IN LIEU OF THE DESIGN SHOWN. PROVIDE END OF LINE CLEANOUTS EQUAL TO DESIGN.
9. PROVIDE WALL CLEANOUTS BELOW ALL SINKS AND AS REQUIRED BY CODE.

## KEYED NOTES:

(1) 1/2" CW TRAP PRIMER LINE TO FLOOR DRAIN/FLOOR RECEPTOR.

(2) CONNECT TO SITE PIPING. VERIFY LOCATIONS AND COORDINATE WITH SITE CONTRACTOR.

1 Foundation Plan

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

North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St. Andrew Catholic Church Parish Hall
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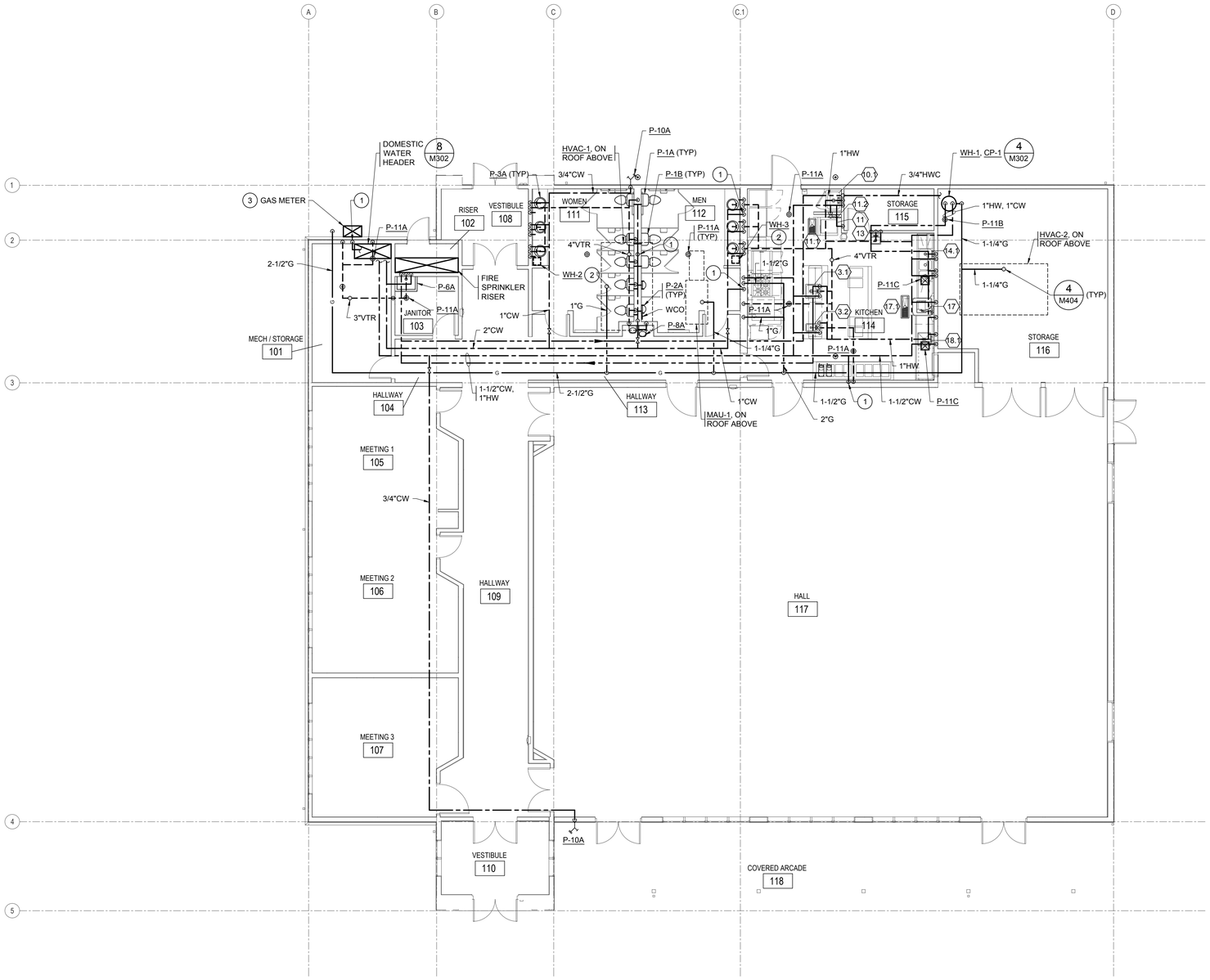
FOUNDATION PLAN

M201




## GENERAL NOTES:

1. FOR PIPING SIZES TO INDIVIDUAL PLUMBING FIXTURES SEE "PLUMBING FIXTURE SCHEDULE", SHEET M003 AND FOOD SERVICE DRAWINGS.
2. PROVIDE WALL CLEANOUT BENEATH FIXTURES FOR ALL SINKS AND LAVATORIES.
3. ALL ISOLATION VALVES SHALL BE ACCESSIBLE. PLUMBING CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO INSURE VALVES ARE ACCESSIBLE.
4. OFFSET VTR'S AND PIPING AS REQUIRED TO AVOID DUCTWORK AND OTHER OBSTRUCTIONS. VTR'S SHALL BE A MINIMUM OF 15 FEET FROM ANY OUTSIDE AIR OPENING.
5. AT RESTROOMS WITH PLUMBING CHASES, THE CONTRACTOR MAY USE HORIZONTAL DISCHARGE WASTE CARRIERS AND ABOVE FLOOR WASTE PIPING IN LIEU OF THE DESIGN SHOWN. PROVIDE END OF LINE CLEANOUT ACCESS EQUAL TO DESIGN.
6. AT RESTROOMS PROVIDE COLD WATER HEADER FULL LENGTH OF PLUMBING CHASE SAME SIZE AS BRANCH COLD WATER LINE SHOWN SERVING RESTROOMS (UNO).
7. PROVIDE WATER HAMMER ARRESTORS ON ALL COLD WATER LINES SERVING FIXTURES WITH FLUSH VALVES. LOCATE UPSTREAM OF LAST FIXTURE ON LINE, AT EACH FIXTURE GROUP. PROVIDE SHUT-OFF VALVE AND ACCESS DOOR. PDI SIZE SHALL BE AS FOLLOWS:

| NO. OF FIXTURES W/ FLUSH VALVES | PDI SIZE |
|---|---|
| 1-2 | A |
| 3-5 | B |
| 6 & MORE | C |

8. ROUTE PIPING SO AS NOT TO OBSTRUCT EQUIPMENT ACCESS.
9. SEE FOUNDATION PLAN FOR TRAP PRIMER PIPING TO FLOOR DRAINS. PROVIDE ACCESS DOOR AND TRAP PRIMER VALVE PER DETAIL 1, SHEET M302.

## KEYED NOTES:

(1) 1/2" CW DOWN TO TRAP PRIMER VALVE.

(2) WALL MOUNT WATER HEATER UNDER SINK. SEE DETAIL 1, SHEET M303.

(3) COORDINATE METER LOCATION W/ UTILITY COMPANY AND SITE CONTRACTOR.

## KITCHEN PLUMBING NOTES:

1. PROVIDE WALL CLEANOUT BENEATH FIXTURES FOR ALL SINKS AND LAVATORIES. SEE FOOD SERVICE PLANS & SPECIFICATIONS FOR REQUIRED PLUMBING CONNECTIONS TO ITEMS IN THE KITCHEN. ALL ITEMS REQUIRING PLUMBING CONNECTIONS SHALL BE COMPLETELY CONNECTED BY THE DIVISION 22 CONTRACTOR. THIS INCLUDES PROVIDING ALL HW/CW/WASTE/ VENT/MISC DRAIN PIPING, TRAPS, FITTINGS, STOPS (IN ALL WATER PIPING TO ITEMS), VALVES, SOLENOID VALVES, GASKETS, UNIONS, VACUUM BREAKERS, BACKFLOW PREVENTORS, ESCUTCHEONS, WATER HAMMER ARRESTERS, ACCESS DOORS, PIPE SHROUDS, & ALL ACCESSORIES.
2. FOR PIPING SIZES TO INDIVIDUAL PLUMBING ITEMS IN THE KITCHEN SEE FOOD SERVICE PLANS & SPECIFICATIONS.
3. THE DIVISION 22 CONTRACTOR SHALL INSTALL ALL FITTINGS, VALVES & CONTROLS FURNISHED WITH THE FOOD SERVICE EQUIPMENT AS LOOSE ITEMS, AND SHALL PROVIDE ALL INTERCONNECTION PIPING REQUIRED TO COMPLETE EACH EQUIPMENT HOOK-UP FOR PROPER OPERATION & CONNECTIONS TO PLUMBING SERVICES.
4. SEE FOOD SERVICE PLANS AND FOOD SERVICE SHOP DRAWINGS FOR ALL ROUGH IN HEIGHTS, DIMENSIONS & ADDITIONAL REQUIREMENTS.

(K#) DESIGNATES KITCHEN ITEMS. SEE FOOD SERVICE DRAWINGS.

1 Plumbing Plan

0 2 4 8 16

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

North


HULTZ BHU engineers inc
1111 Fawcett Ave Suite 100 Tacoma, WA 98402
Phone: (253) 383-3257 Fax: (253) 383-3283
general@hultzbhu.com Job Number: 19-035



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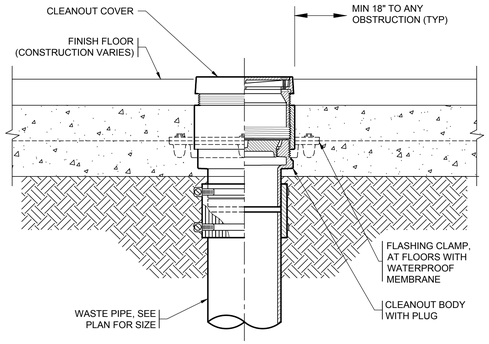
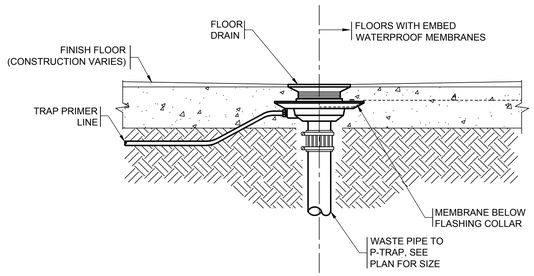
PLUMBING PLAN

M301



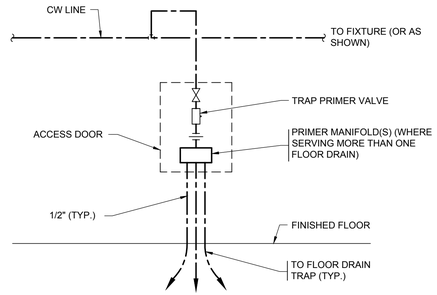

NOTE: SEE SPECIFICATIONS FOR ADDITIONAL FLOOR DRAIN REQUIREMENTS.

## FLOOR CLEANOUT DETAIL 3/M302
NTS

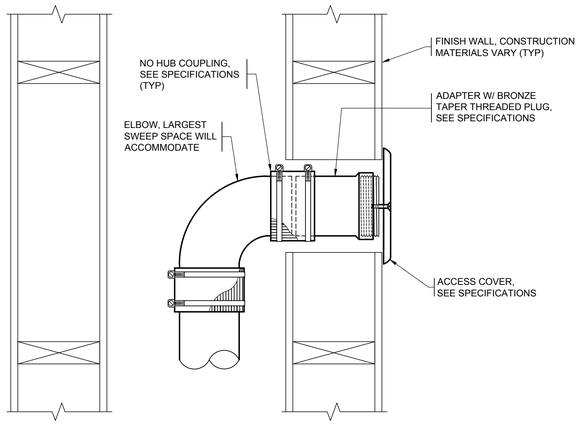



NOTE: SEE SPECIFICATIONS FOR ADDITIONAL FLOOR DRAIN REQUIREMENTS.

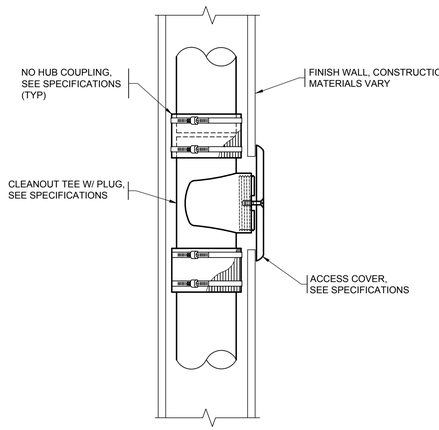
## FLOOR DRAIN DETAIL 2/M302
NTS



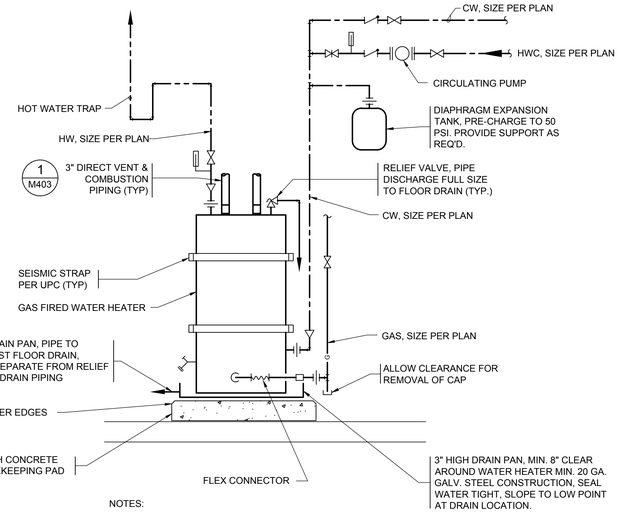

## TRAP PRIMER DETAIL 1/M302
NTS




## WALL CLEANOUT-W/ ELBOW 6/M302
NTS

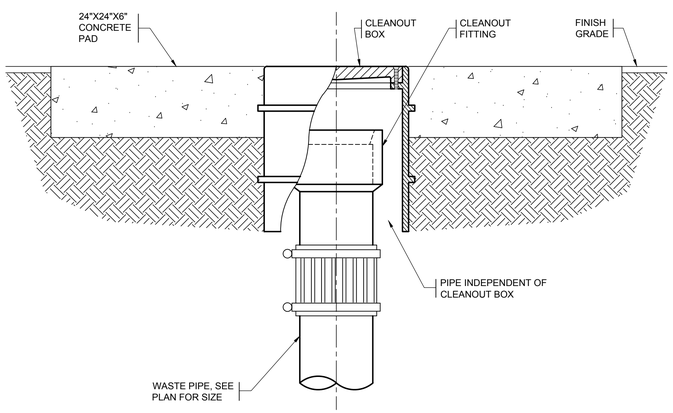



## WALL CLEANOUT-IN WALL 5/M302
NTS




NOTES:
1. SEE SECTION 200548 FOR SEISMIC BRACING REQUIREMENTS

## GAS WATER HEATER DETAIL 4/M302
NTS




## EXTERIOR CLEANOUT DETAIL 7/M302
NTS

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REGISTERED PROFESSIONAL ENGINEER — STATE OF WASHINGTON — RICHARD HULTZ — 19035

SIGNED 02.07.2020

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# St. Andrew Catholic Church Parish Hall
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PLUMBIING DETAILS

# M302

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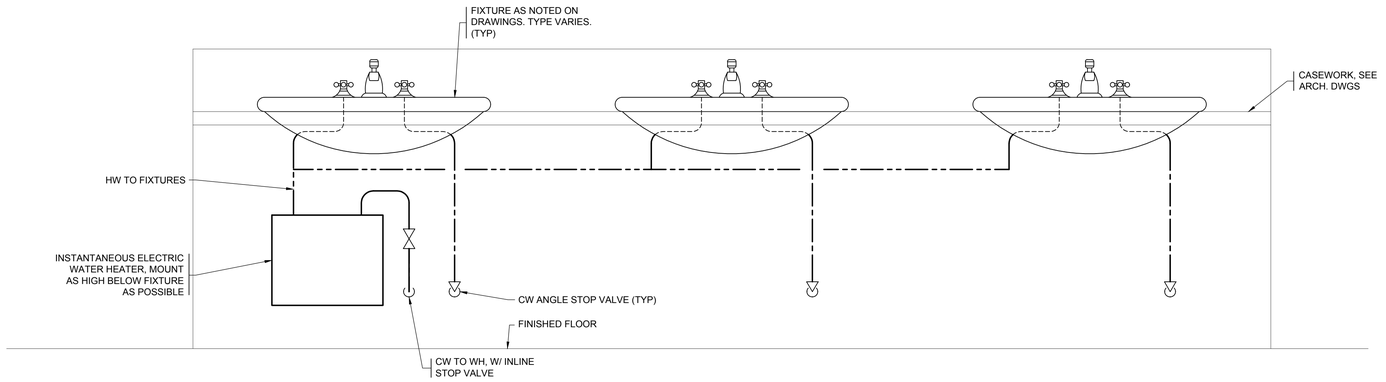


## WATER HEATER DETAIL 1

NTS — M303

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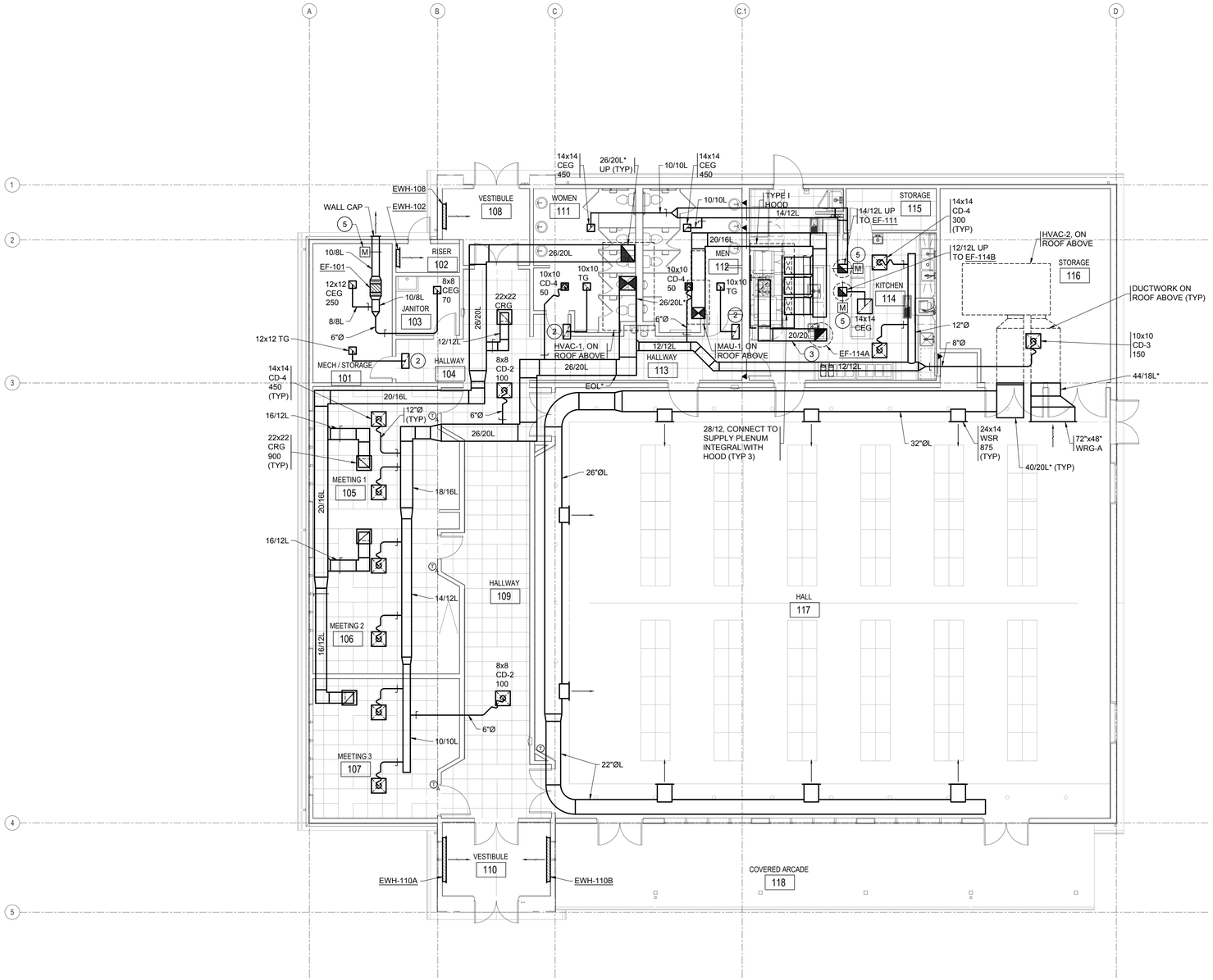
PLUMBIING DETAILS

# M303




## GENERAL NOTES:

1. SEE MECHANICAL NOTES SHEET M001 & M002.
2. LOCATE MOTORIZED DAMPERS, ACTUATORS, & BDD'S TO BE ACCESSIBLE, PROVIDE DUCT ACCESS DOORS AT MOTORIZED DAMPERS, & BDD'S TO ALLOW ACCESS TO DAMPERS.
3. CFM'S SHOWN REPRESENT SYSTEM IN "OCCUPIED" MODE, 2-SPEED MOTORS IN LOW SPEED, HOOD FANS OFF, ZONE DAMPERS AT 100%.
4. VERIFY HEIGHTS OF ALL WALL INLETS/OUTLETS WITH ARCHITECT PRIOR TO WALL CONSTRUCTION. CONTRACTOR SHALL SUBMIT (AS A SUBMITTAL) PROPOSED HEIGHT THAT SUITS CONSTRUCTION & PROVIDES PROPER LOCATION OF AIR OUTLETS/INLETS FOR AIR DISTRIBUTION.
5. PROVIDE TRANSITIONS AT DUCT CONNECTIONS TO ALL HVAC UNITS, AIR INLETS/OUTLETS, FANS & OTHER EQUIPMENT TO MATCH UNIT CONNECTIONS. TRANSITIONS SHALL BE LINED WHERE CONNECTING DUCTS ARE LINED.
6. ALL SUPPLY & RETURN AIR DUCTWORK SHALL BE SOUND LINED WITHIN 15' MINIMUM OF THE AIR HANDLER OR AS INDICATED ON PLANS - WHICHEVER IS MORE.
7. VERIFY MOUNTING HEIGHTS OF ALL EXPOSED DUCTWORK WITH ARCHITECT PRIOR TO CONSTRUCTION. CONTRACTOR SHALL PROVIDE AS A SUBMITTAL PROPOSED HEIGHT THAT SUITS CONSTRUCTION AND PROVIDES PROPER AIR DISTRIBUTION.
8. RESTROOM EXHAUST & TRANSFER GRILLES SHALL BE INSTALLED TO BE INLINE W/ EACH OTHER.

## KEYED NOTES:

1. 22x22 TG'S WITH 12/8L TD.
2. 22x10 TG WITH 10/10L TD.
3. PROVIDE FIRE PROTECTION DUCT WRAP ON TYPE 1 KITCHEN HOOD EXHAUST DUCT, FROM HOOD UP TO FAN.
4. DUCTWORK ROUTED EXPOSED ON ROOF.
5. INTERLOCK MOTORIZED DAMPER TO BE OPEN WHEN FAN IS ON.

1 HVAC Plan

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

North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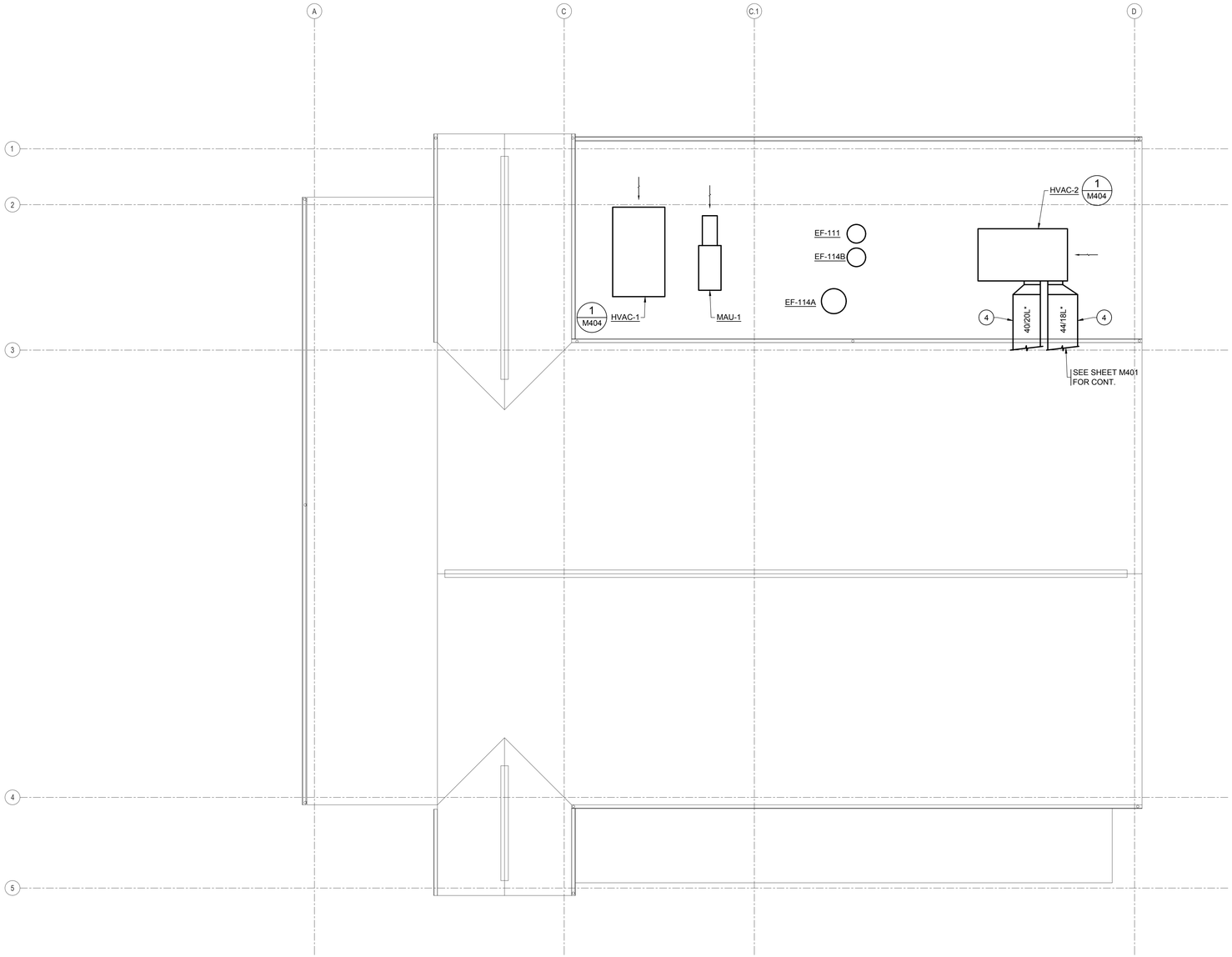
HVAC PLAN

M401




## GENERAL NOTES:

1. SEE MECHANICAL NOTES SHEET M001 & M002.
2. LOCATE MOTORIZED DAMPERS, ACTUATORS, & BDD'S TO BE ACCESSIBLE, PROVIDE DUCT ACCESS DOORS AT MOTORIZED DAMPERS, & BDD'S TO ALLOW ACCESS TO DAMPERS.
3. CFM'S SHOWN REPRESENT SYSTEM IN "OCCUPIED" MODE, 2-SPEED MOTORS IN LOW SPEED, HOOD FANS OFF, ZONE DAMPERS AT 100%.
4. VERIFY HEIGHTS OF ALL WALL INLETS/OUTLETS WITH ARCHITECT PRIOR TO WALL CONSTRUCTION. CONTRACTOR SHALL SUBMIT (AS A SUBMITTAL) PROPOSED HEIGHT THAT SUITS CONSTRUCTION & PROVIDES PROPER LOCATION OF AIR OUTLETS/INLETS FOR AIR DISTRIBUTION.
5. PROVIDE TRANSITIONS AT DUCT CONNECTIONS TO ALL HVAC UNITS, AIR INLETS/OUTLETS, FANS & OTHER EQUIPMENT TO MATCH UNIT CONNECTIONS. TRANSITIONS SHALL BE LINED WHERE CONNECTING DUCTS ARE LINED.
6. ALL SUPPLY & RETURN AIR DUCTWORK SHALL BE SOUND LINED WITHIN 15' MINIMUM OF THE AIR HANDLER OR AS INDICATED ON PLANS - WHICHEVER IS MORE.
7. VERIFY MOUNTING HEIGHTS OF ALL EXPOSED DUCTWORK WITH ARCHITECT PRIOR TO CONSTRUCTION. CONTRACTOR SHALL PROVIDE AS A SUBMITTAL PROPOSED HEIGHT THAT SUITS CONSTRUCTION AND PROVIDES PROPER AIR DISTRIBUTION.
8. RESTROOM EXHAUST & TRANSFER GRILLES SHALL BE INSTALLED TO BE INLINE W/ EACH OTHER.

## KEYED NOTES:

1. 22x22 TG'S WITH 12/8L TD.
2. 22x10 TG WITH 10/10L TD.
3. PROVIDE FIRE PROTECTION DUCT WRAP ON TYPE 1 KITCHEN HOOD EXHAUST DUCT, FROM HOOD UP TO FAN.
4. DUCTWORK ROUTED EXPOSED ON ROOF.
5. INTERLOCK MOTORIZED DAMPER TO BE OPEN WHEN FAN IS ON.

1 Roof Plan

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

North

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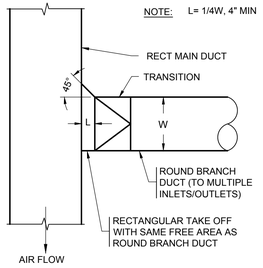
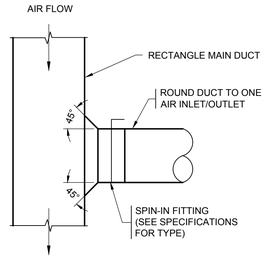
ROOF PLAN

M402



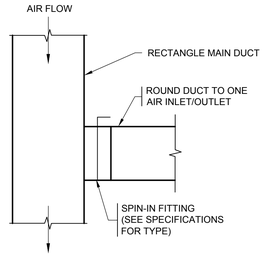

SERVING MULTIPLE INLET/OUTLET




BRANCH SERVING MULTIPLE AIR INLETS/OUTLETS

NOTE:

WHERE MAIN DUCT DOES NOT HAVE ADEQUATE HEIGHT TO ACCEPT ROUND DUCT, PROVIDE RECTANGULAR CONNECTION, WITH SAME FREE AREA AS ROUND DUCT, AND TRANSITION TO ROUND




SERVING ONE INLET/OUTLET

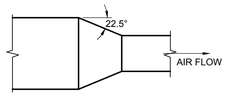
NOTE:

WHERE MAIN DUCT DOES NOT HAVE ADEQUATE HEIGHT TO ACCEPT ROUND DUCT, PROVIDE RECTANGULAR CONNECTION, WITH SAME FREE AREA AS ROUND DUCT, AND TRANSITION TO ROUND

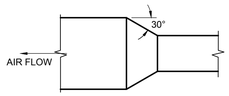
## RECT-TO-ROUND BRANCH DUCT CONNECTION 4
NTS — M403

## RECT-TO-ROUND BRANCH DUCT CONNECTION 3
NTS — M403

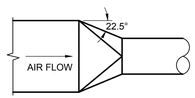
## RECT-TO-RECT BRANCH DUCT CONNECTION 2
NTS — M403



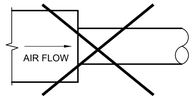

CONCENTRIC TRANSITION (DIVERGING)



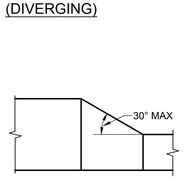

CONCENTRIC TRANSITION (CONVERGING)



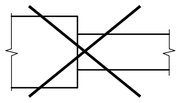

RECT - TO ROUND




STRAIGHT TAP NOT ALLOWED

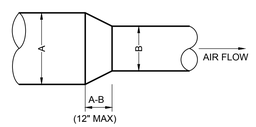



ECCENTRIC TRANSITION

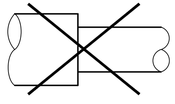


STRAIGHT TAP NOT ALLOWED

## RECT-TO-RECT TRANSITIONS 7
NTS — M403

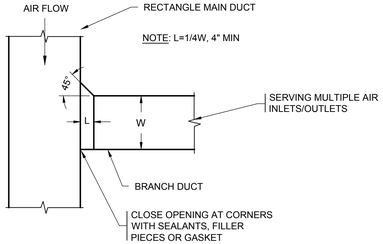



ROUND - TO ROUND

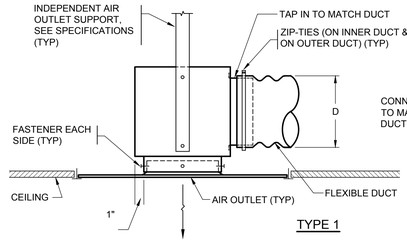


STRAIGHT TAP NOT ALLOWED

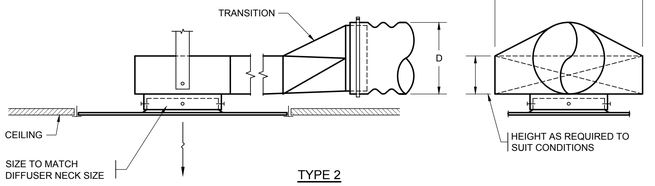
## ROUND TRANSITIONS 6
NTS — M403




## RECT-TO-RECT BRANCH DUCT CONNECTION 5
NTS — M403




TYPE 1

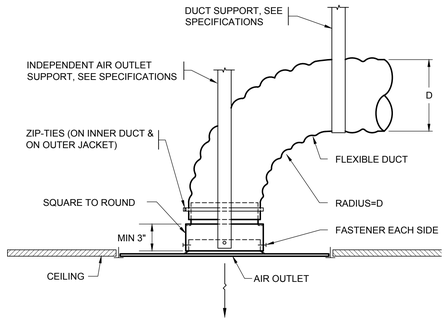



TYPE 2

NOTES:

1. PROVIDE TYPE 1 UNLESS BUILDING CONDITIONS REQUIRE LOWER PROFILE - THEN USE TYPE 2.
2. CONSTRUCT PLENUM BOXES OF MIN. 26 GA. GALV. STEEL.
3. NOT ALLOWED AT TRANSFER DUCTS.
4. LINE PLENUM & DUCT TO AIR OUTLET WHERE SO NOTED ON PLANS OR IN SPECIFICATIONS.
5. CEILING TYPE & AIR OUTLET FRAME STYLE MAY VARY FROM THAT DEPICTED.
6. NOT ALL SUPPORTS ARE SHOWN FOR CLARITY.
7. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

## TIGHT CONDITION - FLEX DUCT AIR OUTLET CONNECTION 1
NTS — M403




NOTES:

1. USE WHERE ADEQUATE SPACE IS AVAILABLE FOR FLEX DUCT RADIUS, AND WHERE FLEX DUCT IS SHOWN ON PLANS TO AIR OUTLET.
2. NOT ALLOWED AT TRANSFER DUCTS.
3. WHEN THERE IS INSUFFICIENT ROOM TO MAINTAIN FLEX DUCT RADIUS, SEE DETAIL TITLED "TIGHT CONDITION - FLEX DUCT AIR OUTLET CONNECTION."
4. NOT ALLOWED WHERE LINED "CANS" (OR LINED DUCTS) SHOWN (OR REQ'D) AT AIR OUTLETS.
5. CEILING TYPE & AIR OUTLET FRAME STYLE MAY VARY FROM THAT DEPICTED.
6. NOT ALL SUPPORTS SHOWN FOR CLARITY.

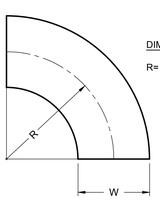
## FLEX DUCT AIR OUTLET CONNECTION 8
NTS — M403




MITERED 90° ELBOW

DIMENSION:

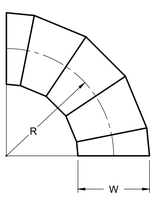
| DIAMETER (INCH) | NUMBER OF VANES |
|---|---|
| 3-9 | 2 |
| 10-14 | 3 |
| 15-19 | 4 |
| 20-60 | 5 |
| OVER 60 | 12" MAX. SPACING |




DIE-STAMPED ELBOW

DIMENSION:

R= 1.5W



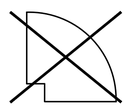

FABRICATED ELBOW

DIMENSION:

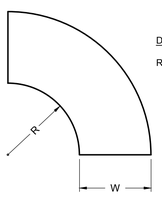
| ANGLE | NUMBER OF GORES |
|---|---|
| 0-35° | 2 |
| 36-71° | 3 |
| 72-90° | 5 |

R=1.5W

## ELBOWS - ROUND 11
NTS — M403



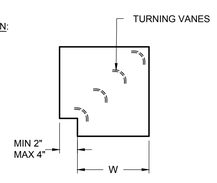
NOT ALLOWED




RADIUS ELBOW

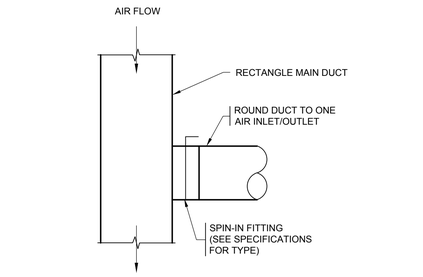
DIMENSION:

R= 1.5W




MITERED ELBOW

## ELBOWS - RECTANGULAR 10
NTS — M403




SERVING ONE INLET/OUTLET

NOTE:

WHERE MAIN DUCT DOES NOT HAVE ADEQUATE HEIGHT TO ACCEPT ROUND DUCT, PROVIDE RECTANGULAR CONNECTION, WITH SAME FREE AREA AS ROUND DUCT, AND TRANSITION TO ROUND

## RECT-TO-ROUND BRANCH DUCT CONNECTION 9
NTS — M403

RMC ARCHITECTS
RMC Architects, PLLC • 1223 Railroad Avenue • Bellingham, WA 98225
P:360.676.7733 • F:360.738.0448 • www.rmcarchitects.com

SIGNED 02.07.2020

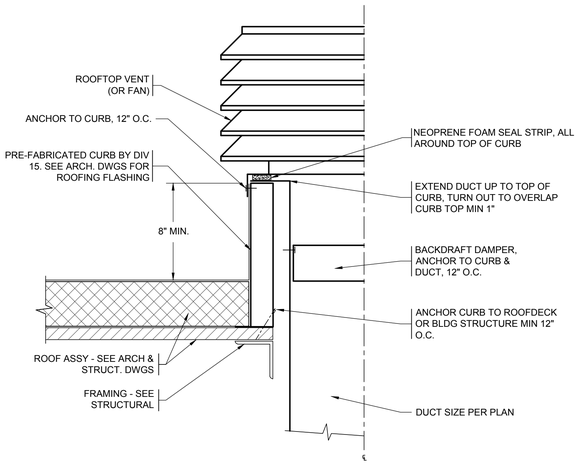
Archdiocese of Seatle
St. Andrew Catholic Church Parish Hall
1401 Valley Avenue East
Sumner, WA 98390-2720

| | |
|---|---|
| Job No: | 1851 Date: 2020-02-07 |
| File No: | |
| Drawn By: | NG |
| Checked By: | RH |
| Issued For: | PERMIT SET |

MECHANICAL DETAILS

M403

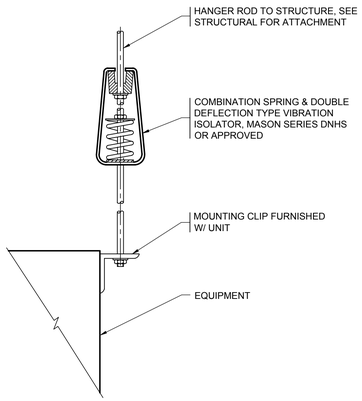
HULTZ BHU engineers inc
1111 Fawcett Ave Suite 100 Tacoma, WA 98402
Phone: (253) 383-3257 Fax: (253) 383-3283
general@hultzbhu.com Job Number: 19-035




## ROOF VENT & FAN MOUNTING

NTS

3 M404



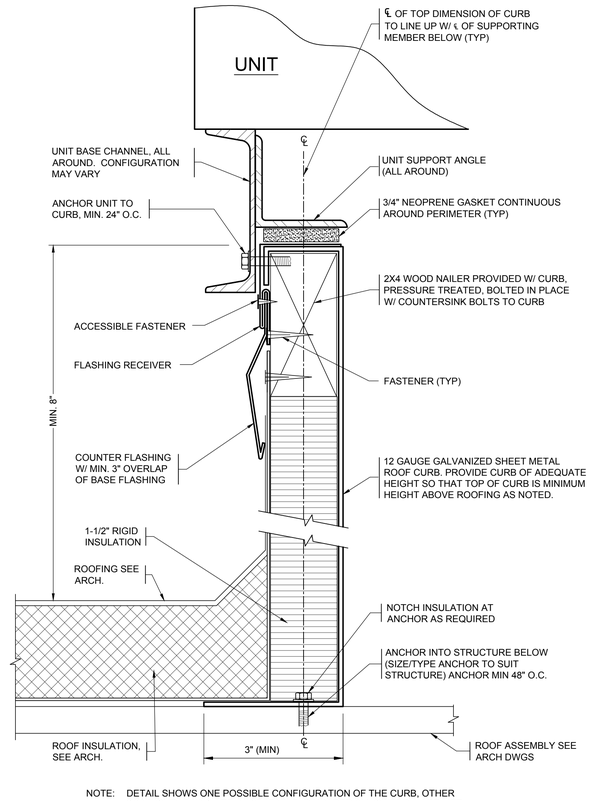

NOTES:

1. ALL SUSPENDED HVAC EQUIPMENT W/ ROTATING COMPONENTS SHALL HAVE VIBRATION ISOLATORS AS SHOWN.
2. VIBRATION ISOLATORS SHALL BE SELECTED FOR 1" DEFLECTION.
3. FOR INTERNALLY ISOLATED UNITS PROVIDE DOUBLE DEFLECTION NEOPRENE HANGER (MASON SERIES HD OR APPROVED) IN LIEU OF TYPE SHOWN. SIZE FOR 1/8" DEFLECTION.
4. SEE STRUCTURAL FOR ATTACHMENT TO STRUCTURE & OTHER ANCHORING REQUIREMENTS.
5. FOR HEAT PUMP SUPPORT SEE DETAIL 5/M15/M15
6. MOUNT SPRING ISOLATOR AS CLOSE TO EQUIPMENT AS POSSIBLE.

## SUSPENDED EQUIP. SUPPORT

NTS

2 M404

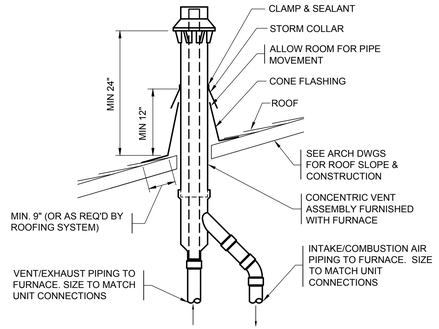



NOTE: DETAIL SHOWS ONE POSSIBLE CONFIGURATION OF THE CURB, OTHER CONFIGURATIONS ARE ACCEPTABLE, PROVIDED ALL CRITERIA ARE MET.

## ROOFTOP CURB DETAIL

NTS

1 M404




NOTES: 1. CONCENTRIC VENT KIT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

2. VERIFY INTAKE/EXHAUST VENT SIZING WITH MANUFACTURER.

## CONCENTRIC VENT DETAIL

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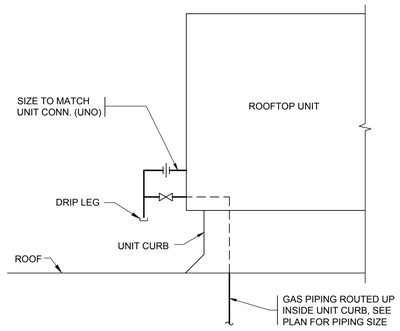


NOTE: AT EQUIPMENT WITH VIBRATION ISOLATION CURBS, PROVIDE FLEXIBLE PIPE CONNECTOR IN GAS PIPING TO UNIT, INSTALLED TO ACCOMMODATE VIBRATION ISOLATOR MOVEMENT.

## ROOFTOP UNIT GAS CONN

NTS

4 M404

HULTZ BHU engineers inc
1111 Fawcett Ave Suite 100 Tacoma, WA 98402
Phone: (253) 383-3257 Fax: (253) 383-3283
general@hultzbhu.com Job Number: 19-035

RMC ARCHITECTS
RMC Architects, PLLC • 1223 Railroad Avenue • Bellingham, WA 98225
P:360.676.7733 • F:360.738.0448 • www.rmcarchitects.com

REGISTERED PROFESSIONAL ENGINEER STATE OF WASHINGTON RICHARD HULTZ

SIGNED 02.07.2020

Archdiocese of Seatle
St. Andrew Catholic Church Parish Hall
1401 Valley Avenue East
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MECHANICAL DETAILS

M404

# ABBREVIATIONS

(SOME ABBREVIATIONS MAY NOT BE USED ON DRAWINGS)

| ABBREV | DESCRIPTION | ABBREV | DESCRIPTION |
|---|---|---|---|
| A or AMP | AMPERES | MH | MANHOLE |
| AC | ALTERNATING CURRENT | MIN | MINIMUM |
| A/C | AIR CONDITIONING | MLO | MAIN LUGS ONLY |
| AIC | AMPERE INTERRUPTING CAPACITY | MOP, MOCP | MAXIMUM OVERCURRENT PROTECTION |
| AL | ALUMINUM | MTD | MOUNTED |
| ARCH | ARCHITECTURAL | MTG | MOUNTING |
| ATC | AUTOMATIC TEMPERATURE CONTROL | NC | NORMALLY CLOSED |
| ATS | AUTOMATIC TRANSFER SWITCH | N, NEUT | NEUTRAL |
| AWG | AMERICAN WIRE GAUGE | NIC | NOT IN CONTRACT |
| BIL | BASIC IMPULSE LEVEL | NO | NORMALLY OPEN |
| BKR | BREAKER | NTS | NOT TO SCALE |
| BLDG | BUILDING | OC | ON CENTER |
| C | CONDUIT | OD | OUTSIDE DIAMETER |
| C.O. | CONDUIT ONLY | OH | OVERHEAD |
| °C | DEGREES CELSIUS | PA | PUBLIC ADDRESS |
| CB | CIRCUIT BREAKER | PB | PULLBOX |
| CCTV | CLOSED CIRCUIT TELEVISION | PF | POWER FACTOR |
| CFM | CUBIC FEET PER MINUTE | ø or PH | PHASE |
| CKT | CIRCUIT | PNL | PANEL |
| CL | CENTER LINE | PR | PAIR |
| CLG | CEILING | PRI | PRIMARY |
| CONC | CONCRETE | PT | POTENTIAL TRANSFORMER |
| CT | CURRENT TRANSFORMER | PVC | POLYVINYL CHLORIDE |
| CU | COPPER | RECPT | RECEPTACLE |
| CW | COLD WATER | REQ | REQUIRED |
| BD | DECIBELS | RF | RADIO FREQUENCY |
| DC | DIRECT CURRENT | RH / MWO | RANGE HOOD / MICROWAVE OVEN |
| DIA | DIAMETER | RMS | ROOT MEAN SQUARE |
| DIV | DIVISION | SEC | SECONDARY |
| DPDT | DOUBLE POLE, DOUBLE THROW | SHT | SHEET |
| DPST | DOUBLE POLE, SINGLE THROW | SMR | SURFACE METAL RACEWAY |
| DWG | DRAWING | SN | SOLID NEUTRAL |
| EGC | EQUIPMENT GROUND CONDUCTOR | SP | SINGLE POLE |
| ELEC | ELECTRIC | SPD | SURGE PROTECTIVE DEVICE |
| EMT | ELECTRICAL METALLIC TUBING | SPDT | SINGLE POLE, DOUBLE THROW |
| EXST, (E) | EXISTING | SPST | SINGLE POLE, SINGLE THROW |
| °F | DEGREES FAHRENHEIT | SS | STAINLESS STEEL |
| FA | FIRE ALARM | STD | STANDARD |
| FC | FOOTCANDLE | SW | SWITCH |
| FLA | FULL LOAD AMPS | SWBD | SWITCHBOARD |
| FLEX | FLEXIBLE CONDUIT | TEL | TELEPHONE |
| GALV | GALVANIZED | TR | TAMPER RESISTANT |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER | TV | TELEVISION |
| GND | GROUND | TTB | TELECOMMUNICATIONS TERMINAL BOARD |
| H-O-A | HAND - OFF - AUTO | TYP | TYPICAL |
| HP | HORSEPOWER | UL | UNDERWRITERS LABORATORY |
| HPF | HIGH POWER FACTOR | UF | UNDERFLOOR |
| H & V | HEATING AND VENTILATION | UG | UNDERGROUND |
| HVAC | HEATING, VENTILATION & AIR CONDITIONING | V | VOLTS |
| HZ | HERTZ | VA | VOLT AMPERES |
| IDF | INTERMEDIATE DISTRIBUTION FRAME | VAC | VOLTS ALTERNATING CURRENT |
| J-BOX | JUNCTION BOX | VAR | REACTIVE VOLT AMPERES |
| KV | KILOVOLTS | VAV | VARIABLE AIR VOLUME |
| KVA | KILOVOLT AMPERES | VD | VOLTAGE DROP |
| KVAR | REACTIVE KILOVOLT AMPERES | VDC | VOLTS DIRECT CURRENT |
| KW | KILOWATTS | VFD | VARIABLE FREQUENCY DRIVE |
| KWH | KILOWATT HOURS | VT | VAPORTIGHT |
| LT | LIGHT | W | WATTS |
| LTG | LIGHTING | WP | WEATHERPROOF |
| MAX | MAXIMUM | /W | WITH |
| MCA | MINIMUM CIRCUIT AMPS | W/O | WITHOUT |
| MCB | MAIN CIRCUIT BREAKER | XFER | TRANSFER |
| MCC | MOTOR CONTROL CENTER | XFMR | TRANSFORMER |
| MCM, KCM | THOUSAND CIRCULAR MILS | XLP | CROSS-LINKED POLYETHYLENE |
| MDF | MAIN DISTRIBUTION FRAME | XP | EXPLOSION PROOF |
| MECH | MECHANICAL | Z | IMPEDANCE |

# ELECTRICAL SYMBOL LEGEND

(SOME SYMBOLS MAY NOT BE USED ON DRAWINGS)

| SYMBOL | DESCRIPTION |
|---|---|
| | GENERAL |
| XXX | SCHEDULED LIGHT FIXTURE TYPE |
| | SCHEDULED EQUIPMENT CONNECTION (INCLUDE ALL WIRING, DISCONNECTING MEANS, CONTROL AND OTHER REQUIREMENTS SCHEDULED) |
| # B C | DETAIL SYMBOL:<br># - IDENTIFYING NUMBER<br>B - SHEET WHERE DETAIL TAKEN<br>C - SHEET WHERE DETAIL SHOWN |
| # | REVISION CALLOUT |
| # | ELECTRICAL PLAN NOTE |
| # | SCHEDULED CONDUIT CALLOUT |
| | PAD MOUNTED TRANSFORMER |
| | LIGHTING OUTLET - CEILING |
| | STRIP LUMINAIRE (LENGTH TO SCALE) |
| | LUMINAIRE (TO SCALE ON DRAWINGS) |
| | SURFACE FIXTURE - ROUND |
| | SURFACE FIXTURE - WALL |
| | EXIT FIXTURE WITH BATTERY BACKUP - CEILING |
| | EXIT FIXTURE WITH BATTERY BACKUP - WALL |
| | EXIT FIXTURE WITH DIRECTION ARROWS & BATT PAC |
| | PHOTOCELL |
| | COMBINATION EXIT SIGN AND TWIN HEAD EMERGENCY LIGHTING UNIT |
| | DISCONNECT SWITCH |
| | FUSED DISCONNECT SWITCH |
| OS | OCCUPANCY SENSOR - CEILING MOUNT |
| S | SINGLE POLE TOGGLE SWITCH |
| $S_3$ | THREE-WAY TOGGLE |
| | SPLIT WIRED RECEPTACLE, 1/2 OF OUTLET IS CONTROLLED BY OCCUPANCY SENSOR OR TIME SWITCH |
| DS | CONTINUOUS DIMMING DAYLIGHT SENSOR |
| $S_{OS}$ | OCCUPANCY SENSOR - WALL SWITCH |
| $ | DIGITAL SWITCH STATION |
| $S_D$ | DIMMER |
| DPC | DIGITAL PLUG CONTROLLER |
| DRC | DIGITAL ROOM CONTROLLER |
| | DUPLEX RECEPTACLE (NEMA 5-20R)<br>SUBSCRIPT: IG ISOLATED GROUND<br>WC WATER COOLER<br>REF REFRIGERATOR<br>COP COPIER<br>HWD HOT WATER DISPENSER<br>MWO MICROWAVE OVEN<br>P PEDESTAL<br>WP WEATHERPROOF<br>C CEILING<br>DW DISHWASHER<br>TR TAMPER RESISTANT<br>TV VIDEO DISPLAY OUTLET. REFER TO ARCHITECTURAL DETAILS FOR MOUNTING HEIGHT |
| | GFCI DUPLEX RECEPTACLE (NEMA 5-20R)<br>SUBSCRIPT: REF REFRIGERATOR<br>DW DISHWASHER<br>WD WASTE DISPOSER<br>MWO MICROWAVE OVEN |
| | TAMPER RESISTANT DUPLEX RECEPTACLE |
| | COMBINATION POWER AND LOW VOLTAGE SYSTEM FLOORBOX |
| | SPLIT WIRED FOURPLEX (1) DUPLEX RECEPTACLE UNSWITCHED, (1) DUPLEX RECEPTACLE CONTROLLED BY OCCUPANCY SENSOR OR TIME SWITCH |

| SYMBOL | DESCRIPTION |
|---|---|
| FAC | FIRE ALARM CONTROL PANEL |
| TS | SPRINKLER TAMPER SWITCH |
| FS | SPRINKLER FLOW SWITCH |
| | SMOKE DETECTOR |
| D | DETECTOR IN HVAC DUCT |
| H | HEAT DETECTOR |
| F | MANUAL STATION |
| F | HORN [SPEAKER] WITH VISUAL SIGNAL (STROBE) |
| F | VISUAL SIGNAL (STROBE) |
| | FIRE ALARM SPRINKLER ALARM BELL |
| | LOW VOLTAGE ROUGH-IN |
| HDMI | HDMI JACK |
| PH | PHONE JACK |
| DPS | DIGITAL KEY PAD (ALARM/DISARM ONLY) |
| MT | MOTION DETECTOR |
| J | JUNCTION BOX |
| | CLOSED CIRCUIT TELEVISION CAMERA |
| DPS | DOOR POSITION SWITCH |
| DH | MAGNETIC DOOR HOLDER |

# OUTLET MOUNTING HEIGHTS

(MEASURE TO CENTER OF BOX, UNLESS OTHERWISE INDICATED)

| | | | |
|---|---|---|---|
| COUNTER HEIGHT (*) | +3 INCHES ABOVE SPLASH | FIRE ALARM | |
| CASEWORK OUTLETS | AS DIRECTED | MANUAL STATIONS | 48 INCHES TO TOP |
| SWITCHES & DIMMERS | 48 INCHES | SIGNALING DEVICES | 80 INCHES TO BOTTOM |
| RECEPTACLES | 18 INCHES | REMOTE ALARM LIGHTS | 80 INCHES TO BOTTOM |
| THERMOSTATS | 48 INCHES | REMOTE ANNUNCIATOR | 60 INCHES TO BOTTOM |
| OCCUPANCY SENSORS | 12 FEET MAXIMUM | GRAPHIC PLAQUES | 60 INCHES TO BOTTOM |
| VOICE (TELEPHONE) | 18 INCHES | | |
| DATA (COMPUTER) | 18 INCHES | SECURITY | |
| WALL PHONE | 48 INCHES | KEY PAD | 54 INCHES TO TOP |
| TV (TELEVISION) | 18 INCHES | CARD READER | 48 INCHES |
| TV WALL MOUNTED | CENTER OF TV BRACKET | CCTV | WITHIN 6 INCHES OF CAMERA MOUNT |
| SPEAKERS | 90 INCHES | | |
| CLOCKS | 90 INCHES | CCTV POLE MOUNTED | 20 FEET |
| CLOCK/SPEAKER | 90 INCHES | | |

# GENERAL ELECTRICAL NOTES:

GENERAL ELECTRICAL NOTES:

1. SEE ARCHITECTURAL PLANS FOR LOCATION OF FIRE RATED CONSTRUCTION.
2. BRANCH CIRCUIT NOTES:
   - A. VERIFY BRANCH CIRCUIT WIRE COUNT BEFORE PULLING CONDUCTORS. PROVIDE REQUIRED CONDUCTORS TO EACH OUTLET AND DEVICE FOR PHASE, NEUTRAL AND EQUIPMENT GROUND BASED ON CIRCUIT DESIGNATIONS SHOWN AND AS OTHERWISE INDICATED ON PLANS OR NOTE BELOW.
   - B. FOR SWITCHED OUTLETS, PROVIDE ADDITIONAL CONDUCTOR COUNT REQUIRED FOR SWITCH LEGS TO ACCOMMODATE SWITCH CONTROL INDICATED. MAINTAIN UNSWITCHED LEG IN LIGHTING BRANCH CIRCUITS TO EXIT, EMERGENCY, AND NIGHT LIGHTING SHOWN.
   - C. MINIMUM BRANCH CIRCUIT CONDUCTOR SIZE FOR OUTDOOR AND EXTERIOR BUILDING LIGHTING SHALL BE #10 AWG.
   - D. PROVIDE SEPARATE NEUTRAL CONDUCTOR FOR ALL 120 AND 277 VAC BRANCH CIRCUITS UNLESS OTHERWISE INDICATED.
   - E. PROVIDE MANUFACTURER APPROVED PIN INSERT STYLE HANDLE TIES BETWEEN SINGLE POLE CIRCUIT BREAKERS SERVING BRANCH CIRCUITS SHARING A COMMON NEUTRAL.
3. MINIMUM CONDUIT SIZE FOR HOMERUNS AND FOR CONDUIT INSTALLED BELOW GRADE OUTDOORS SHALL BE 3/4 INCH.
4. REFER TO ARCHITECTURAL PLANS FOR LIGHT FIXTURE LOCATIONS AND FOR MOUNTING HEIGHT OF SUSPENDED AND WALL MOUNTED LIGHT FIXTURES. REFER TO REFLECTED CEILING PLANS, INTERIOR ELEVATIONS, EXTERIOR ELEVATIONS, ROOM SECTIONS, AND DETAILS SHOWN ON ARCHITECTURAL CONTRACT DOCUMENTS PRIOR TO ROUGH-IN. REPORT CONFLICTS TO ARCHITECT/ENGINEER FOR RESOLUTION.
5. REFER TO ARCHITECTURAL ELEVATIONS FOR LOCATION AND MOUNTING HEIGHT OF WIRING DEVICES. REPORT CONFLICTS TO ARCHITECT/ENGINEER FOR RESOLUTION.
6. VERIFY BACK BOX REQUIREMENTS OF EQUIPMENT FURNISHED UNDER OTHER THAN DIVISION 26 SECTIONS AND EQUIPMENT FURNISHED BY OWNER.
7. SEE MECHANICAL PLANS FOR QUANTITY AND LOCATION OF SMOKE DAMPERS. PROVIDE 120 VOLT CONNECTION TO EACH DAMPER.
8. THIS BUILDING IS A MULTIFAMILY DWELLING THAT DOES NOT EXCEED THREE FLOORS ABOVE GRADE.
9. PROVIDE A COPY OF WSEC LIGHTING COMPLIANCE FORMS TO OWNER AS PART OF RECORD DRAWINGS.


RMC ARCHITECTS

RMC Architects, PLLC • 1223 Railroad Avenue• Bellingham, WA 98225
P:360.676.7733 • F:360.738.0448 • rmc@rmcarchitects.com


NOLAN A. HAMM
STATE OF WASHINGTON
13146
REGISTERED
PROFESSIONAL ENGINEER

SIGNED
02-07-2020

Archdiocese of Seattle
St. Andrew Catholic Church Parish Hall
1401 Valley Avenue East
Sumner, WA 98390-2720

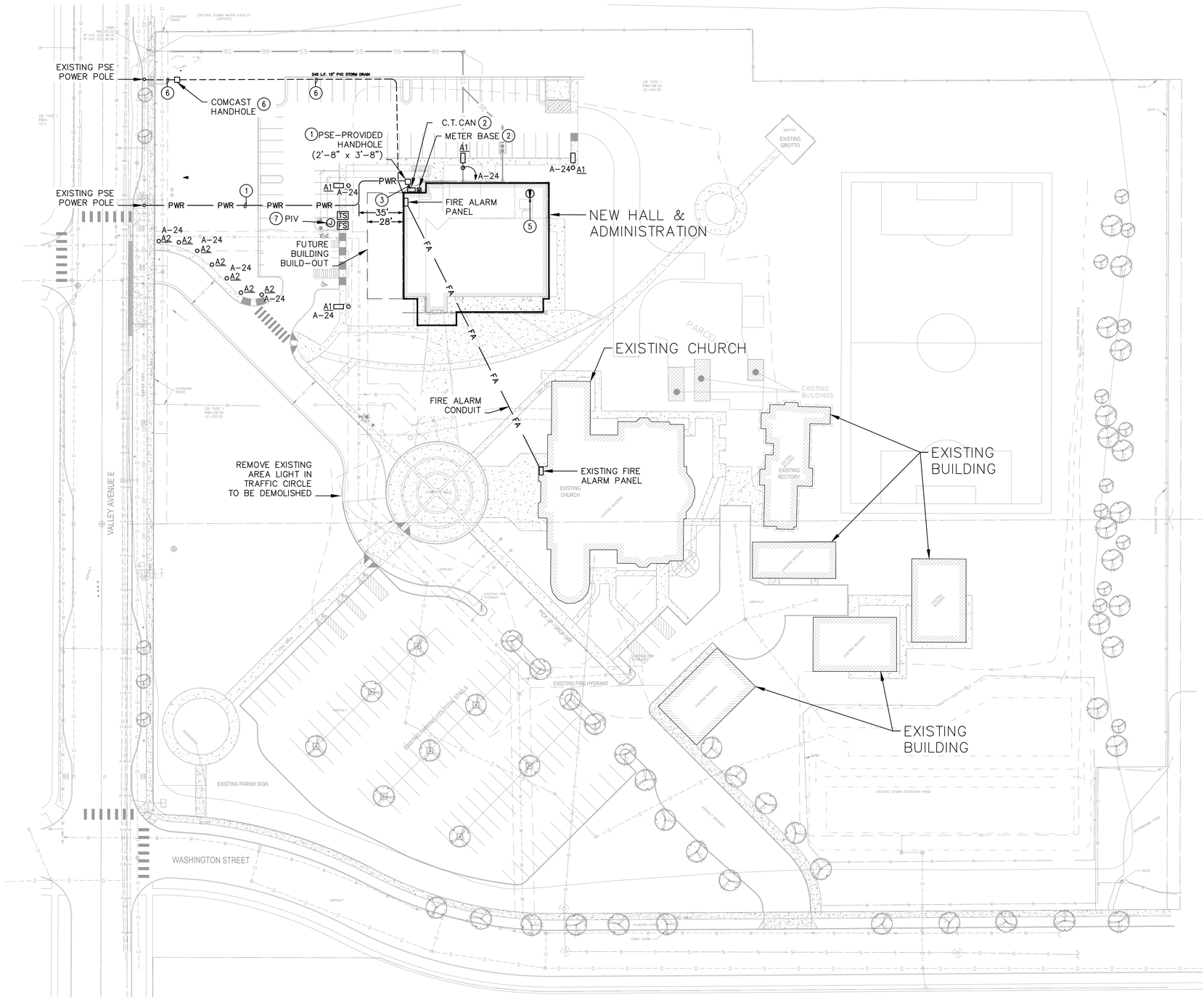

HULTZ BHU
engineers inc

1111 Fawcett Ave, Suite 100 Tacoma, WA 98402
Phone: (253) 383-3257 Fax: (253) 383-3283
general@hultzbhu.com Job Number: 19-035


Job No: 1851 Date: 2020-02-07
File No: 1851 St. Andrew Parish Hall
Drawn By: BHU
Checked By: BHU
Issued for: PERMIT SET

ELECTRICAL LEGEND, ABBREVIATIONS, & NOTES

E001




1 Electrical Site Plan

0 5 10 20 40

SCALE: 1" = 40'-0"

North

## PLAN NOTES:

1. PROVIDE TRENCHING, EXCAVATION, BED & BACKFILL ONLY FOR PUGET SOUND ENERGY (PSE). AVOID FUTURE BUILD–OUT OF BUILDING BY ROUTING CONDUIT 35' OF EXISTING BUILDING AS SHOWN. PRIMARY WIRE/CONDUIT BY PSE. HANDHOLE (BY BUILDING) PROVIDED BY PSE – INSTALLED BY CONTRACTOR. TRENCHING WILL REQUIRE PARTIAL REMOVAL OF EXISTING SIDEWALK ALONG VALLEY AVENUE. PROVIDE TEMPORARY STEEL PLATE OVER TRENCH FOR PEDESTRIAN SIDEWALK ACCESS. RE–FILL TRENCH TO PSE STANDARDS AND RE–CAST SIDEWALK SECTION.
2. PROVIDE C.T. CAN & METER BASE WITH 1–1/4" CONDUIT ONLY FOR PSE C.T. METERING CABLE.
3. PROVIDE TRENCHING & FEEDER CONDUIT. SEE SHEET E501 FOR FEEDER AND CONDUIT SIZES.
4. PROVIDE 1" CONDUIT TO EXISTING CHURCH FIRE ALARM PANEL LOCATION.
5. PROVIDE PHOTOCELL ON NORTH FACING SIDE OF ROOF. PHOTOCELL TO CONTROL ON/OFF FUNCTION OF ALL EXTERIOR LIGHT FIXTURES.
6. PROVIDE 2" PVC CONDUIT WITH PULLSTRING & COMCAST WASHDOT TYPE #1 HANDHOLE TO EXISTING STREET POLE. COORDINATE LOCATIONS AND HANDHOLE WITH COMCAST AND STORM DRAIN CONTRACTOR.. COORDINATE TRENCHING WITH SIDEWALK REMOVAL ASSOCIATED WITH PLAN NOTE #1.
7. PROVIDE FA CONNECTION TO PIV.

TYPE A1
PARKING LOT
17 ¾" SQUARE LED, 4000'K
TYPE III DISTRIBUTION
INCLUDES: INTEGRAL MOTION/LIGHTING SENSOR
BASIS OF DESIGN: LITHONIA KAD LED

TYPE A2
PATHWAY
42" X 8" ROUND LED, 4000'K
0–10V DIMMING DRIVER
BASIS OF DESIGN: LITHONIA D–SERIES

RMC ARCHITECTS
RMC Architects, PLLC • 1223 Railroad Avenue• Bellingham, WA 98225
P:360.676.7733 • F:360.738.0448 • rmc@rmcarchitects.com

NOLAN A. HAMM STATE OF WASHINGTON 21346 REGISTERED PROFESSIONAL ENGINEER

SIGNED
02-07-2020

Archdiocese of Seatle
St. Andrew Catholic Church Parish Hall
1401 Valley Avenue East
Sumner, WA 98390-2720

Job No: 1851 Date: 2020-02-07
File No: 1851 St. Andrew Parish Hall
Drawn By: BHU
Checked By: BHU
Issued for: PERMIT SET

ELECTRICAL SITE PLAN

E101

HULTZ BHU engineers inc
1111 Fawcett Ave, Suite 100 Tacoma, WA 98402
Phone: (253) 383-3257 Fax: (253) 383-3283
general@hultzbhu.com Job Number: 19-035

TYPE L1
MEETING ROOMS
2X2 LAY-IN LED, 3500'K
0-10V DIMMING DRIVER
BASIS OF DESIGN: METALUX ENCOUNTER

TYPE S1
KITCHEN
8"X4' SURFACE MOUNT LED, 3500'K
OPAL LENS, 0-10V DIMMING DRIVER
BASIS OF DESIGN: FAILSAFE HVL8

TYPE S2
PARISH HALL
2X2 SURFACE MOUNT LED, 3500'K
0-10V DIMMING DRIVER, IMPACT RESISTANT
BASIS OF DESIGN: NEWSTAR AGM SERIES WITH SURFACE MOUNTING TRIM

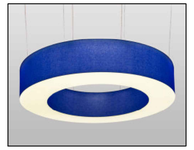
TYPE RS & R6
TOILET ROOMS & PARISH HALL
6" ROUND LED, 3500'K
0-10V DIMMING DRIVER
BASIS OF DESIGN: HALO SLD

TYPE SL
STORAGE & EQUIPMENT AREAS
LENSED LED STRIPLIGHT, 3500'K
BASIS OF DESIGN: METALUX SNLED

TYPE D1
TOILET ROOMS
DIRECT/INDIRECT WALL MOUNT LED
EXTRUDED ALUMINUM HOUSING
BASIS OF DESIGN: NEORAY DEFINE

TYPE SP
PARISH HALL
LED SPOTLIGHT, 8000 LUMENS
BASIS OF DESIGN: TIMES SQUARE CR80

TYPE RW
MEETING ROOMS, CORRIDOR ALCOVES
RECESSED, ADJUSTABLE LED ACCENT LIGHT, 1100 LUMENS
0-10V DIMMING DRIVER
BASIS OF DESIGN: LITELINE SIGMA 2

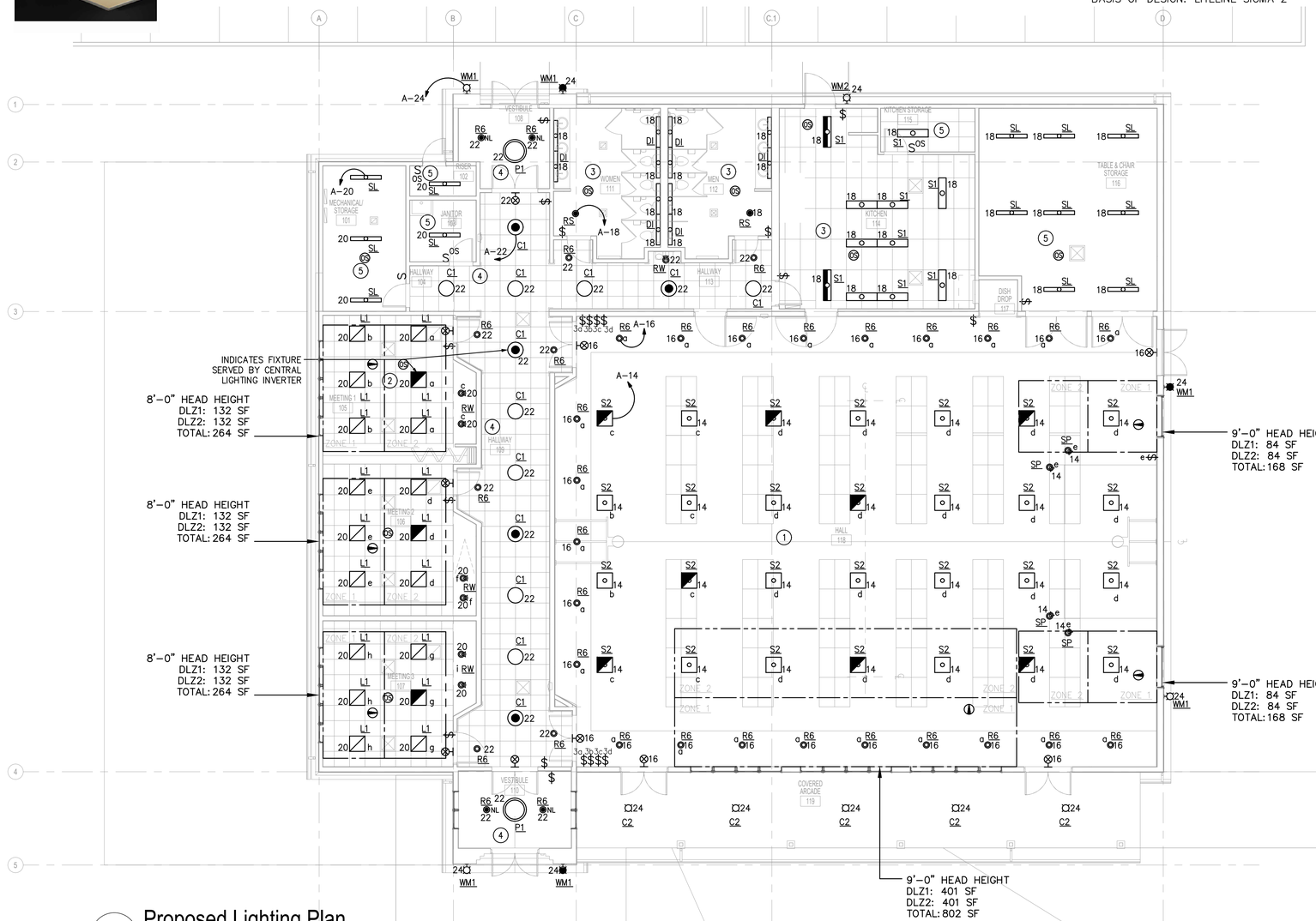


TYPE P1
VESTIBULES
36" DIAMETER LED PENDANT
BASIS OF DESIGN: BARBICAN DONUT

TYPE C1
CORRIDOR
24" DIAMETER LED DRUM
BASIS OF DESIGN: BARBICAN SURFACE DRUM

TYPE WM1
BUILDING WALL MOUNT LED,
FORWARD THROW OPTICS, 3000'K
BASIS OF DESIGN: McGRAW EDISON IMPACT

TYPE C2
CEILING MOUNT LED,
VANDAL RESISTANT LENS, 3000'K
BASIS OF DESIGN: LUMINAIRE ARV




## LIGHTING CONTROL NOTES:

1. PROVIDE UNSWITCHED HOT CONDUCTOR TO ALL EMERGENCY LIGHT FIXTURES.
2. ALL LIGHTING FIXTURES CIRCUITED TO PANEL 'A'. SEE PANEL SCHEDULES.

## LIGHTING CONTROL NOTES:

1. SPACE CONTROLLED BY COMBINATION OF MANUAL CONTROLS WITH SCENE SELECTION & LOW VOLTAGE RELAY PANEL WITH 0-10V DIMMING RELAYS & TIMECLOCK FOR AUTOMATIC OFF. EACH CONTROL ZONE IDENTIFIED BY LOWER CASE LETTER TO BE CAPABLE OF ON/RAISE/LOWER/OFF SETTINGS INDEPENDENTLY. WITH UL924 EMERGENCY TRANSFER RELAY TO OVERRIDE CONTROLLED STATE OF FIXTURES SERVED FROM CENTRAL LIGHTING INVERTER.
2. SPACE CONTROLLED BY 0-10V ROOM CONTROLLER WITH MANUAL ON/RAISE/LOWER/OFF CONTROLS WITH OCCUPANCY SENSOR FOR AUTOMATIC OFF & DAYLIGHT SENSOR FOR DAYLIGHT HARVESTING. WITH UL924 EMERGENCY TRANSFER RELAY TO OVERRIDE CONTROLLED STATE OF FIXTURES SERVED FROM CENTRAL LIGHTING INVERTER.
3. SPACE CONTROLLED BY 0-10V ROOM CONTROLLER WITH MANUAL ON/RAISE/LOWER/OFF CONTROLS WITH OCCUPANCY SENSOR TO AUTOMATIC OFF, WITH UL924 EMERGENCY TRANSFER RELAY TO OVERRIDE CONTROLLED STATE OF FIXTURES SERVED FROM CENTRAL LIGHTING INVERTER.
4. SPACE CONTROLLED BY LOW VOLTAGE RELAY PANEL TIMECLOCK WITH MANUAL OVERRIDE. WITH UL924 EMERGENCY TRANSFER RELAY TO OVERRIDE CONTROLLED STATE OF FIXTURES SERVED FROM CENTRAL LIGHTING INVERTER.
5. SPACE CONTROLLED BY LINE VOLTAGE SWITCH FOR ON/OFF FOR SAFETY

1 Proposed Lighting Plan

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

North


RMC ARCHITECTS
RMC Architects, PLLC • 1223 Railroad Avenue• Bellingham, WA 98225
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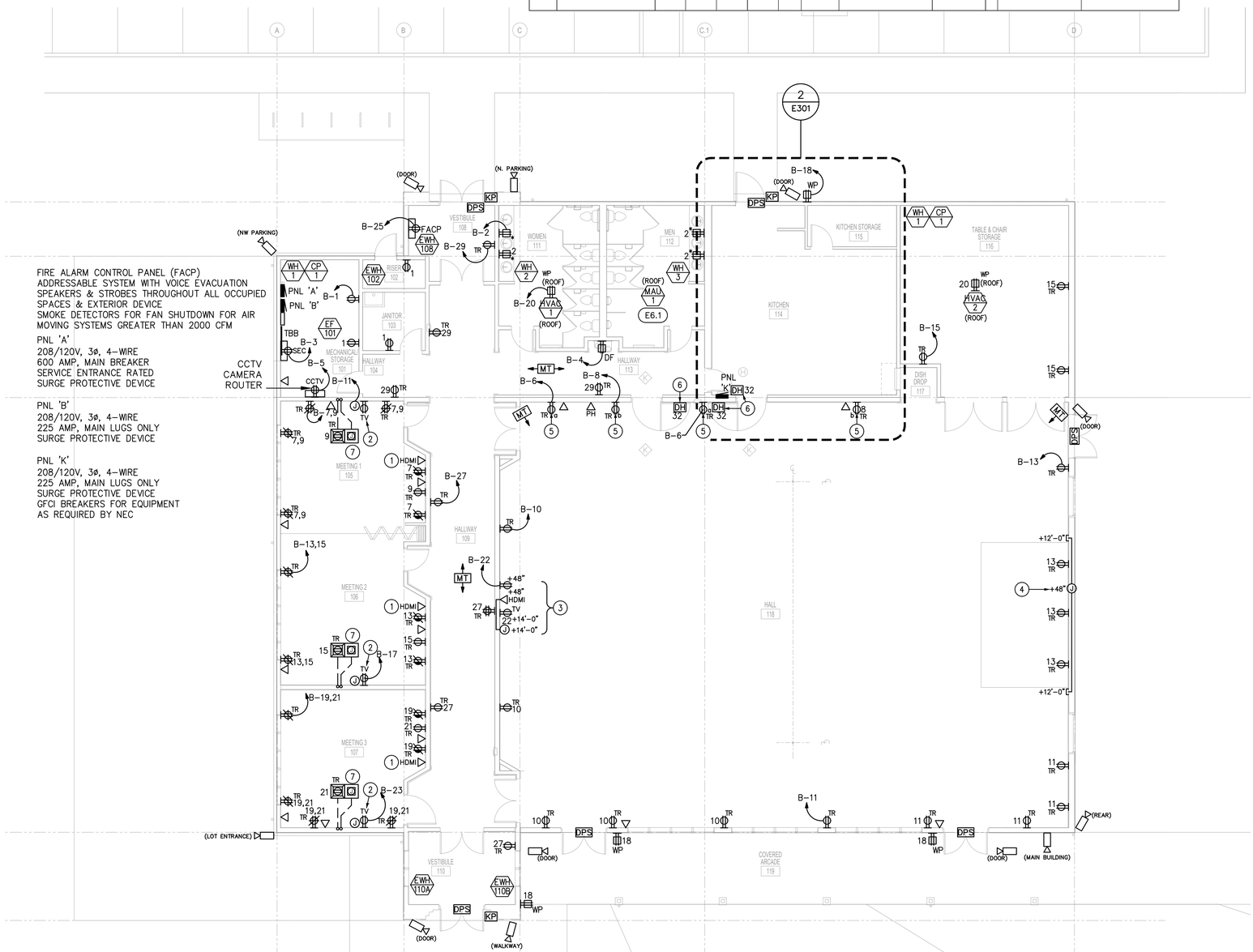
LIGHTING PLAN

E201

## KITCHEN EQUIPMENT CONNECTION SCHEDULE

| NAME | DESCRIPTION | MAXIMUM RATINGS HP | KVA | FLA | MCA | MOCP | VOLT/PH | FEEDER 1#12 EACH PHASE, NEUTRAL, PLUS GROUND | CIRCUIT # | DISCONNECT BY | DISCONNECT DESCRIPTION | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E1 | MOBILE HEATED CABINET | | 1.92 | 16.00 | 20.00 | 20 | 120 1 | | SEE PANEL SCH | • | NEMA 5-20P | CORD & PLUG |
| E2.1 | CONVECTION OVEN - GAS | 1/2 | 0.72 | 6.00 | 7.50 | 20 | 120 1 | | SEE PANEL SCH | • | NEMA 5-20P | CORD & PLUG<br>PROVIDE WITH SHUNT-TRIP BREAKER.<br>CIRCUIT TO BE DEDICATED (ONLY E2.2 FUTURE TO BE ADDED) |
| E2.2 | FUTURE CONVECTION OVEN - GAS | 1/2 | 0.72 | 6.00 | 7.50 | 20 | 120 1 | | SEE PANEL SCH | • | NEMA 5-20P | FUTURE DEVICE TO BE INSTALLED ON SAME CIRCUIT AS E2.1.<br>NO ELECTRIC REQUIRED. PROVIDE FIRE ALARM CONNECTIONS AS REQUIRED. |
| E6 | TYPE 1 HOOD | | | | | | | | SEE PANEL SCH | | | SEE MECHANICAL SCHULES AND MECHANICAL/ELECTRICAL COORDINATION SCHEDULE |
| E6.1 | MAU-1 (SEE MAU-1 MECHANICAL SCHEDULES) | | | | | | | | SEE PANEL SCH | | | SEE MECHANICAL SCHULES AND MECHANICAL/ELECTRICAL COORDINATION SCHEDULE |
| E6.2 | EF-114A (SEE MECHANICAL SCHEDULES) | | | | | | | | SEE PANEL SCH | | | |
| E8 | 2-DOOR REACH-IN REFRIGERATOR | 1/2 | 0.65 | 5.40 | 6.75 | 20 | 120 1 | | SEE PANEL SCH | • | NEMA 5-15P | CORD & PLUG |
| E9 | REACH-IN FREEZER | 1/2 | 0.44 | 3.70 | 4.63 | 20 | 120 1 | | SEE PANEL SCH | • | NEMA 5-15P | CORD & PLUG |
| E11 | FUTURE ICE-MAKER | | 1.82 | 15.20 | 19.00 | 20 | 120 1 | | SEE PANEL SCH | • | 20A/1P CIRCUIT BREAKER | DIRECT CONNECTION FUTURE EQUIPMENT |
| E17 | DISHWASHER | | 16.36 | 45.40 | 56.75 | 60 | 208 3 | 1"C, 4#6 + #10 GND | SEE PANEL SCH | • | 60A/3P CIRCUIT BREAKER | |
| E22.1 | COFFEE BREWER | | 1.80 | 15.00 | 18.75 | 20 | 120 1 | | SEE PANEL SCH | • | NEMA 5-15P | CORD & PLUG |
| E22.2 | COFFEE BREWER | | 1.80 | 15.00 | 18.75 | 20 | 120 1 | | SEE PANEL SCH | • | NEMA 5-15P | CORD & PLUG |
| E23.1 | HOT FOOD SERVING COUNTER | | 2.50 | 20.83 | 26.04 | 30 | 120 1 | 3/4"C, 2#10 + #10 GND | SEE PANEL SCH | • | NEMA 5-30P | CORD & PLUG |
| E23.2 | HOT FOOD SERVING COUNTER | | 2.50 | 20.83 | 26.04 | 30 | 120 1 | 3/4"C, 2#10 + #10 GND | SEE PANEL SCH | • | NEMA 5-30P | CORD & PLUG |




## Proposed Power & Low Voltage Rough-In Plan

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

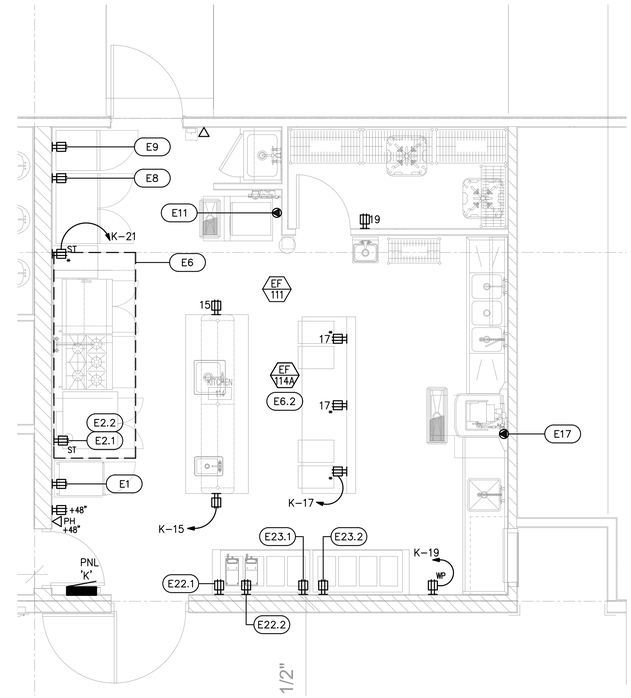
FIRE ALARM CONTROL PANEL (FACP)
ADDRESSABLE SYSTEM WITH VOICE EVACUATION
SPEAKERS & STROBES THROUGHOUT ALL OCCUPIED SPACES & EXTERIOR DEVICE
SMOKE DETECTORS FOR FAN SHUTDOWN FOR AIR MOVING SYSTEMS GREATER THAN 2000 CFM

PNL 'A'
208/120V, 3ø, 4-WIRE
600 AMP, MAIN BREAKER
SERVICE ENTRANCE RATED
SURGE PROTECTIVE DEVICE

CCTV CAMERA ROUTER

PNL 'B'
208/120V, 3ø, 4-WIRE
225 AMP, MAIN LUGS ONLY
SURGE PROTECTIVE DEVICE

PNL 'K'
208/120V, 3ø, 4-WIRE
225 AMP, MAIN LUGS ONLY
SURGE PROTECTIVE DEVICE
GFCI BREAKERS FOR EQUIPMENT AS REQUIRED BY NEC




## 2 Enlarged Kitchen Plan

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

### CONSTRUCTION NOTES:

1. UNLESS NOTED OTHERWISE ALL CIRCUITS SHOWN ORIGINATE FROM PANEL 'B'
2. PROVIDE TAMPER RESISTANT IN ALL AREAS ACCESSIBLE BY CHILDREN.
3. UNLESS NOTED OTHERWISE ALL CIRCUITS SHOWN WITHIN KITCHEN ORIGINATE FROM PANEL 'K'.

### PLAN NOTES:

1. PROVIDE WALL-MOUNTED FEMALE HDMI JACK AT LOCATION. PROVIDE 1-1/4" CONDUIT TO ABOVE CEILING SPACE.
2. PROVIDE DUPLEX RECEPTACLE AND RECESSED JUNCTION BOX 24" BELOW CEILING LEVEL FOR TV. PROVIDE 1-1/4" CONDUIT FROM J-BOX TO ABOVE CEILING SPACE.
3. PROVIDE DUPLEX RECEPTACLES, WALL MOUNTED HDMI JACK & RECESSED J-BOX FOR TV. PROVIDE 1-1/4" CONDUIT BETWEEN HDMI JACK & J-BOX. COORDINATE EXACT LOCATIONS WITH THOMAS MAGNAN PH: 253.840.4020.
4. PROVIDE RECESSED J-BOX AND 3/4" CONDUITS STUBBED TO LOCATIONS SHOWN FOR SPEAKER SYSTEM. PROVIDE CABLE "PASS-THRU" FACEPLATE FOR JUNCTION BOX. COORDINATE EXACT LOCATIONS WITH THOMAS MAGNAN PH: 253.840.4020.
5. GROUP DUPLEX RECEPTACLES ON SEPARATE CIRCUITS TO AVOID OVERLOADING AS SHOWN.
6. PROVIDE 120V HOT CONDUCTOR FROM 120V CIRCUIT, 'B-32' FOR ELECTRIFIED MAGNETIC DOOR HOLDS.
7. PROVIDE WIREMOLD RFB2 SERIES FLOOR BOX FOR SLAB-ON-GRADE INSTALLATION.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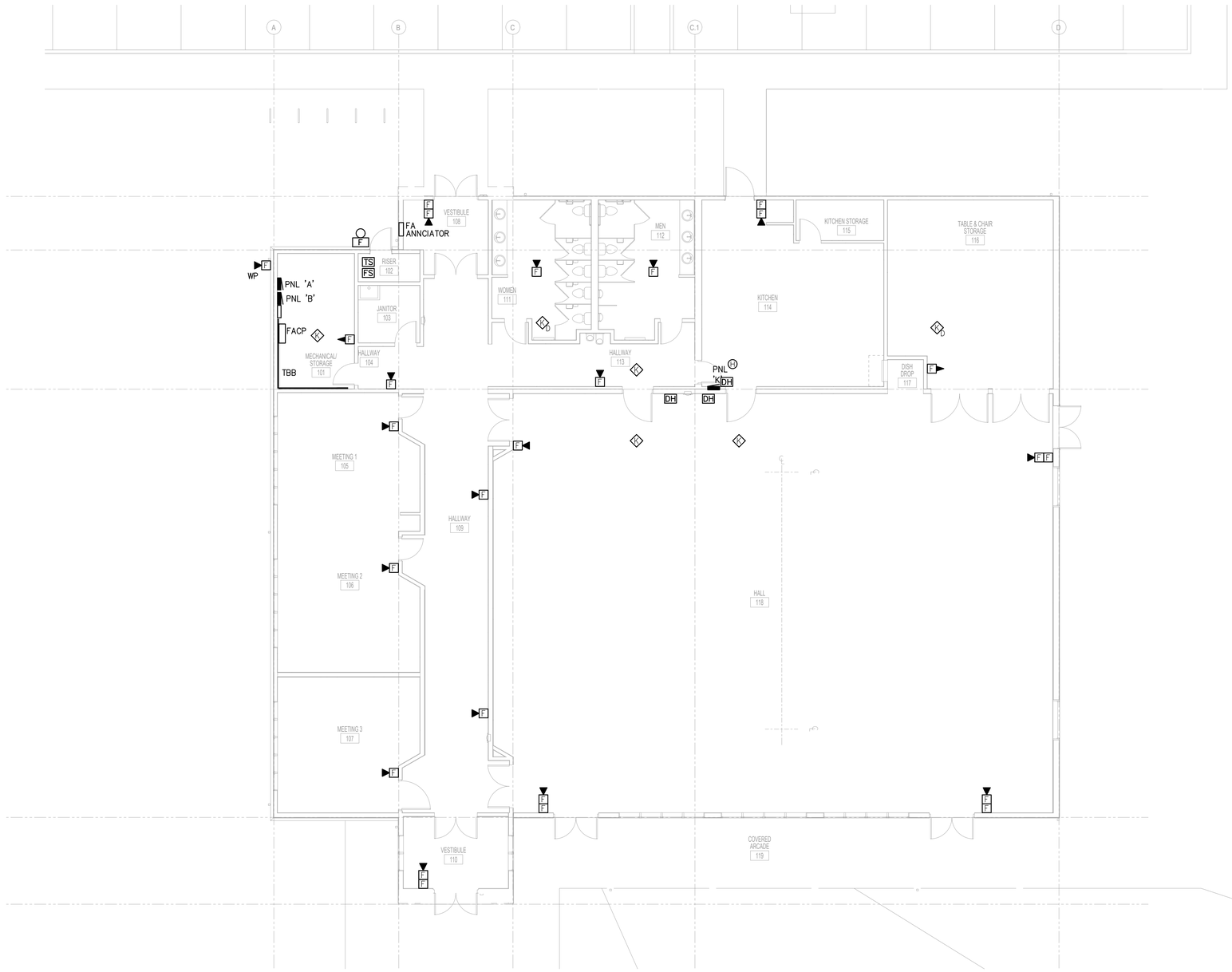
POWER AND LOW VOLTAGE ROUGH-IN PLAN

E301




1 Proposed Fire Alarm Plan

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

North

RMC ARCHITECTS

RMC Architects, PLLC • 1223 Railroad Avenue• Bellingham, WA 98225
P:360.676.7733 • F:360.738.0448 • rmc@rmcarchitects.com

NOLAN A. HAMM
STATE OF WASHINGTON
11946
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Archdiocese of Seatle

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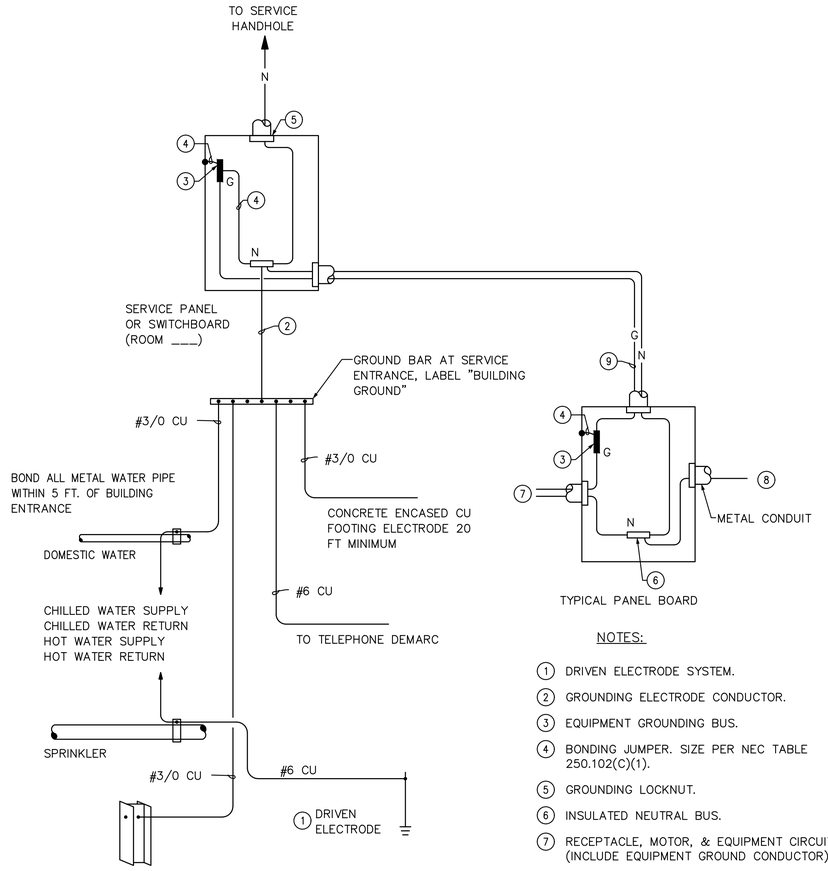
FIRE ALARM PLAN

E401

HULTZ BHU
engineers inc

1111 Fawcett Ave, Suite 100 Tacoma, WA 98402
Phone: (253) 383-3257 Fax: (253) 383-3283
general@hultzbhu.com Job Number: 19-035

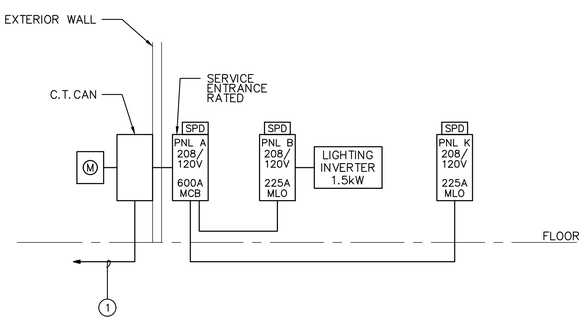



## 2 GROUNDING DIAGRAM

SCALE: N.T.S.

NOTES:

1. DRIVEN ELECTRODE SYSTEM.
2. GROUNDING ELECTRODE CONDUCTOR.
3. EQUIPMENT GROUNDING BUS.
4. BONDING JUMPER. SIZE PER NEC TABLE 250.102(C)(1).
5. GROUNDING LOCKNUT.
6. INSULATED NEUTRAL BUS.
7. RECEPTACLE, MOTOR, & EQUIPMENT CIRCUITS (INCLUDE EQUIPMENT GROUND CONDUCTOR).
8. LIGHTING CIRCUIT.
9. EQUIPMENT GROUND CONDUCTOR.
10. GROUNDING ELECTRODE CONDUCTOR FOR SEPARATELY DERIVED SYSTEMS MAY BE INSTALLED AT FIRST DISCONNECTING MEANS (PANELBOARD, SWITCH, ENCLOSED CIRCUIT BREAKER) SUBJECT TO COMPLIANCE WITH ALL NEC 250.30 REQUIREMENTS.




## 1 ONE-LINE DIAGRAM - REC BLDG SERVICE

SCALE:

BUBBLE NOTES:

1. PROVIDE FEEDER & CONDUIT TO PSE PROVIDED HANDHOLE. TRANSFORMERS TO BE POLE MOUNTED, SEE ELECTRICAL PLAN E101.

FEEDER SCHEDULE
(BASED ON COPPER CONDUCTORS)

| CALLOUT | DESCRIPTION | REMARKS |
|---|---|---|
| 225-4-G | 2 1/2"C-4#4/0 +#4 GND | |
| 600-4 | (2) 2 1/2"C-4#350 KCM IN PARALLEL | |

GENERAL NOTES:

PNL 'A'
208/120V, 3ø, 4-WIRE
600 AMP, MAIN BREAKER
SERVICE ENTRANCE RATED
SURGE PROTECTIVE DEVICE

PNL 'B'
208/120V, 3ø, 4-WIRE
225 AMP, MAIN LUGS ONLY
SURGE PROTECTIVE DEVICE

PNL 'K'
208/120V, 3ø, 4-WIRE
225 AMP, MAIN LUGS ONLY
SURGE PROTECTIVE DEVICE
GFCI BREAKERS FOR EQUIPMENT AS REQUIRED BY NEC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ELECTRICAL ONE-LINE DIAGRAM

E501


HULTZ BHU engineers inc
1111 Fawcett Ave, Suite 100 Tacoma, WA 98402
Phone: (253) 383-3257 Fax: (253) 383-3283
general@hultzbhu.com Job Number: 19-035

Panel Name: **A** — PANEL SCHEDULE — Mfgr: S.E. Rated

Location: MAIN ELEC ROOM 101 — 208Y/120 Volt — Section: 1 of 1 — Cat #

Fed From: UTILITY — 3 Phase, 4 Wire — Surface Mounted Panelboard

22 kAIC Sym — 600 Amp Main Circuit Brea — 600 Amp Bus Capacity — Copper Bu: 100% Neutral

| Ckt No. | Circuit Description | Ckt Brkr Amps | Pol | kVA | P H | kVA | Ckt Brkr Amps | Pol | Circuit Description | Ckt No. |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HVAC-1 | 90/ 3 | | 6.82 | a | 8.00 | 200/ 3 | | PANEL B | 2 |
| 3 | | - | | 6.82 | b | 8.84 | - | | | 4 |
| 5 | | - | | 6.82 | c | 7.60 | - | | | 6 |
| 7 | HVAC-2 | 125/ 3 | | 8.74 | a | 15.28 | 200/ 3 | | PANEL K | 8 |
| 9 | | - | | 8.74 | b | 10.36 | - | | | 10 |
| 11 | | - | | 8.74 | c | 10.16 | - | | | 12 |
| 13 | EF-114A | 20/ 3 | | 0.83 | a | 1.12 | 20/ 1 | | LTG: HALL 118 | 14 |
| 15 | | - | | 0.83 | b | 0.56 | 20/ 1 | | LTG: HALL 118 | 16 |
| 17 | | - | | 0.83 | c | 1.09 | 20/ 1 | | LTG: RR 111, RR 112, KITCHEN 114, STORAGE 116 | 18 |
| 19 | EWH-110A, EWH-110B | 20/ 3 | | 1.00 | a | 0.73 | 20/ 1 | | LTG: WEST SIDE | 20 |
| 21 | | - | | 1.00 | b | 0.59 | 20/ 1 | | LTG: HALLWAYS | 22 |
| 23 | | - | | 1.00 | c | 0.69 | 20/ 1 | | LTG: EXTERIOR | 24 |
| 25 | SPACE | | | 0.00 | a | 0.00 | 20/ 1 | | SPACE | 26 |
| 27 | SPACE | | | 0.00 | b | 0.00 | 20/ 1 | | SPACE | 28 |
| 29 | SPACE | | | 0.00 | c | 0.00 | 20/ 1 | | SPACE | 30 |
| 31 | SPACE | | | 0.00 | a | 0.00 | 20/ 1 | | SPACE | 32 |
| 33 | SPACE | | | 0.00 | b | 0.00 | 20/ 1 | | SPACE | 34 |
| 35 | SPACE | | | 0.00 | c | 0.00 | 20/ 1 | | SPACE | 36 |
| 37 | SPACE | | | 0.00 | a | 0.00 | 30/ 3 | | SURGE PROTECTIVE DEVICE | 38 |
| 39 | SPACE | | | 0.00 | b | 0.00 | - | | | 40 |
| 41 | SPACE | | | 0.00 | c | 0.00 | - | | | 42 |

| Load Summary | Connected Load | | Factor | Calculated Load | |
|---|---|---|---|---|---|
| Lighting | 4.78 | kVA | 125% | 5.97 | kVA |
| Receptacles | 15.48 | kVA | 50%>10kVA | 12.74 | kVA |
| All Motors | 1.67 | kVA | 100% | 1.67 | kVA |
| Lrgst Motor | 2.49 | kVA | 125% | 3.11 | kVA |
| Kitchen | 31.22 | kVA | 65% | 20.29 | kVA |
| Miscellaneous | 61.53 | kVA | 100% | 61.53 | kVA |
| Non-Coincident | 0.00 | kVA | 0% | 0.00 | kVA |
| **Total** | 117.16 | **kVA** | | 105.31 | **kVA** |
| | 325.2 | **Amps** | | 292.3 | **Amps** |

Notes:
1.

Phase Balance
FA 353.95 Amps
FB 314.14 Amps
FC 307.50 Amps

Panel Name: **B** — PANEL SCHEDULE — Mfgr:

Location: MAIN ELEC ROOM 101 — 208Y/120 Volt — Section: 1 of 1 — Cat #

Fed From: PANEL A — 3 Phase, 4 Wire — Surface Mounted Panelboard

10 kAIC Sym — 200 Amp Main Lugs Only — 200 Amp Bus Capacity — Copper Bu 100% Neutral

| Ckt No. | Circuit Description | Ckt Brkr Amps | Pol | kVA | P H | kVA | Ckt Brkr Amps | Pol | Circuit Description | Ckt No. |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | REC: 101, 102, 103 | 20/ 1 | | 0.72 | a | 0.72 | 20/ 1 | | REC: 111, 112 | 2 |
| 3 | MISC: 101 SECURITY | 20/ 1 | | 0.50 | b | 0.75 | 20/ 1 | | MISC: 113 DRINKING FOUNTAIN | 4 |
| 5 | MISC: 101 CCTV | 20/ 1 | | 0.50 | c | 0.36 | 20/ 1 | | REC: 118 | 6 |
| 7 | REC: 105 (SWITCHED) | 20/ 1 | | 1.08 | a | 0.36 | 20/ 1 | | REC: 118 | 8 |
| 9 | REC: 105 (UNSWITCHED) | 20/ 1 | | 1.08 | b | 0.90 | 20/ 1 | | REC: 118 | 10 |
| 11 | MISC: 105 TV | 20/ 1 | | 0.75 | c | 0.90 | 20/ 1 | | REC: 118 | 12 |
| 13 | REC: 106 (SWITCHED) | 20/ 1 | | 0.72 | a | 0.72 | 20/ 1 | | REC: 118 | 14 |
| 15 | REC: 106 (UNSWITCHED) | 20/ 1 | | 0.72 | b | 0.54 | 20/ 1 | | REC: 116 | 16 |
| 17 | MISC:106 TV | 20/ 1 | | 0.75 | c | 0.72 | 20/ 1 | | REC: EXTERIOR | 18 |
| 19 | REC: 107 (SWITCHED) | 20/ 1 | | 1.08 | a | 0.36 | 20/ 1 | | REC: ROOF MAINTENANCE | 20 |
| 21 | REC: 107 (UNSWITCHED) | 20/ 1 | | 1.08 | b | 0.93 | 20/ 1 | | MISC: 118 TV / REC: 118 | 22 |
| 23 | MISC:108 TV | 20/ 1 | | 0.75 | c | 0.90 | 20/ 1 | | MISC: WH-1 / MTR CP-1, EF-101 | 24 |
| 25 | MISC: 108 FACP | 20/ 1 | | 0.50 | a | 1.44 | 20/ 1 | | MISC: 111 WH-2 | 26 |
| 27 | REC: 109, 110 | 20/ 1 | | 0.90 | b | 1.44 | 20/ 1 | | MISC: 112 WH-3 | 28 |
| 29 | REC: 104, 108, 113 | 20/ 1 | | 0.72 | c | 1.25 | 20/ 1 | | MISC: EWH-102, EWH-108 | 30 |
| 31 | SPARE | 20/ 1 | | 0.00 | a | 0.30 | 20/ 1 | | MISC: DOOR HOLDERS | 32 |
| 33 | SPARE | 20/ 1 | | 0.00 | b | 0.00 | 20/ 1 | | SPARE | 34 |
| 35 | SPARE | 20/ 1 | | 0.00 | c | 0.00 | 20/ 1 | | SPARE | 36 |
| 37 | SPARE | 20/ 1 | | 0.00 | a | 0.00 | 20/ 1 | | SPARE | 38 |
| 39 | SPARE | 20/ 1 | | 0.00 | b | 0.00 | 20/ 1 | | SPARE | 40 |
| 41 | SPARE | 20/ 1 | | 0.00 | c | 0.00 | 20/ 1 | | SPARE | 42 |

| Load Summary | Connected Load | | Factor | Calculated Load | |
|---|---|---|---|---|---|
| Lighting | 0.00 | kVA | 125% | 0.00 | kVA |
| Receptacles | 13.86 | kVA | 50%>10kVA | 11.93 | kVA |
| All Motors | 0.30 | kVA | 100% | 0.30 | kVA |
| Lrgst Motor | 0.00 | kVA | 125% | 0.00 | kVA |
| Kitchen | 0.00 | kVA | 100% | 0.00 | kVA |
| Miscellaneous | 10.28 | kVA | 100% | 10.28 | kVA |
| Non-Coincident | 0.00 | kVA | 0% | 0.00 | kVA |
| **Total** | 24.44 | **kVA** | | 22.51 | **kVA** |
| | 67.8 | **Amps** | | 62.5 | **Amps** |

Notes:
1.

Phase Balance
FA 66.62 Amps
FB 73.61 Amps
FC 63.29 Amps

## MECHANICAL EQUIPMENT CONNECTION SCHEDULE

| NAME | DESCRIPTION | LOCATION | MAXIMUM RATINGS HP | KVA | FLA | MCA | MOCP | VOLT/PH | (CU) FEEDER #12 EACH PHASE, NEUTRAL, PLUS GROUND | PANEL SEE PANEL FOR CKT | DISCONNECT BY | DISCONNECT DESCRIPTION | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HVAC-1 | GAS HEAT / ELECTRIC COOLING | EXTERIOR - ROOF | | 20.46 | 56.8 | 71.0 | 90 | 208 3 | 1-1/4"C - 3#3 + #8 GND | A | ● | WP - 100AS/90AF | PROVIDE UNI-STRUT FOR MOUNTING OF DISCONNECT. |
| HVAC-2 | GAS HEAT / ELECTRIC COOLING | EXTERIOR - ROOF | | 26.23 | 72.8 | 91.0 | 125 | 208 3 | 1-1/2"C - 3#1 + #6 GND | A | ● | WP - 200AS/125AF | PROVIDE UNI-STRUT FOR MOUNTING OF DISCONNECT. |
| MAU-1 | MAKEUP AIR | EXTERIOR - ROOF | | 1.59 | 4.4 | 5.5 | 20 | 208 3 | | A | ● | WP - 30AS/20AF | PROVIDE UNI-STRUT FOR MOUNTING OF DISCONNECT. |
| EF-101 | EXHAUST FAN | MECH/STOR 101 | | 0.20 | 1.7 | 2.1 | 20 | 120 1 | | B | ● | 20A RATED SINGLE POLE TOGGLE | |
| EF-111 | EXHAUST FAN | KITCHEN | 1/4 | 0.70 | 5.8 | 7.3 | 20 | 120 1 | | K | ● | 20A RATED SINGLE POLE TOGGLE | |
| EF-114A | EXHUAST FAN - TYPE 1 HOOD | KITCHEN | 1-1/2 | 3.39 | 9.4 | 11.8 | 20 | 208 3 | | A | ● | 30AS/20AF | |
| EF-114B | EXHAUST FAN | EXTERIOR ROOF - KITCHEN | 1/4 | 0.70 | 5.8 | 7.3 | 20 | 120 1 | | K | ● | 20A RATED WP - SINGLE POLE TOGGLE | |
| EWH-102 | ELECTRIC WALL HEATER | RISER 102 | | 0.50 | 4.2 | 5.2 | 20 | 120 1 | | B | ● | 20A RATED SINGLE POLE TOGGLE | |
| EWH-108 | ELECTRIC WALL HEATER | VESTIBULE 108 | | 0.75 | 6.3 | 7.8 | 20 | 120 1 | | B | ● | 20A RATED SINGLE POLE TOGGLE | |
| EWH-110A | ELECTRIC WALL HEATER | VESTIBULE 110 | | 1.50 | 4.2 | 5.2 | 20 | 208 3 | | A | ● | 20A RATED THREE POLE TOGGLE | |
| EWH-110B | ELECTRIC WALL HEATER | VESTIBULE 110 | | 1.50 | 4.2 | 5.2 | 20 | 208 3 | | A | ● | 20A RATED THREE POLE TOGGLE | |
| WH-1 | ELECTRIC WATER HEATER | STOR 116 | | 0.60 | 5.0 | 6.3 | 20 | 120 1 | | B | ● | 20A RATED SINGLE POLE TOGGLE | |
| WH-2 | ELECTRIC WATER HEATER | WOMEN 111 | | 1.44 | 12.0 | 15.0 | 20 | 120 1 | | B | ● | 20A RATED SINGLE POLE TOGGLE | |
| WH-3 | ELECTRIC WATER HEATER | MEN 112 | | 1.44 | 12.0 | 15.0 | 20 | 120 1 | | B | ● | 20A RATED SINGLE POLE TOGGLE | |
| CP-1 | CIRCULATION PUMP | STOR 116 | | 0.10 | 0.8 | 1.0 | 20 | 120 1 | | B | ● | 20A RATED SINGLE POLE TOGGLE | |

Panel Name: **K** — PANEL SCHEDULE — Mfgr:

Location: KITCHEN 114 — 208Y/120 Volt — Section: 1 of 1 — Cat #

Fed From: PANEL A — 3 Phase, 4 Wire — Surface Mounted Panelboard

10 kAIC Sym — 200 Amp Main Lugs Only — 200 Amp Bus Capacity — Copper Bu 100% Neutral — Isolated Ground

| Ckt No. | Circuit Description | Ckt Brkr Amps | Pol | kVA | P H | kVA | Ckt Brkr Amps | Pol | Circuit Description | Ckt No. |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | E1 - MOBILE HEATED CABINET | 20/ 1 | | 1.92 | a | 5.45 | 60/ 3 | | E17 - DISHWASHER | 2 |
| 3 | E2.1 - CONVECTION OVEN - GAS | 20/ 1 | | 0.72 | b | 5.45 | - | | | 4 |
| 5 | SHUNT-TRIP | | | 0.00 | c | 5.45 | - | | | 6 |
| 7 | E6 - TYPE ONE HOOD | 20/ 1 | | 0.00 | a | 1.80 | 20/ 1 | | E22.1 - COFFEE BREWER | 8 |
| 9 | E8 - 2-DOOR REACH-IN REFER | 20/ 1 | | 0.65 | b | 1.80 | 20/ 1 | | E22.2 - COFFEE BREWER | 10 |
| 11 | E9 - REACH-IN FREEZER | 20/ 1 | | 0.44 | c | 2.50 | 30/ 1 | | E23.1 - HOT FOOD SERVING COUNTER | 12 |
| 13 | E11 - ICE-MAKER (FUTURE) | 20/ 1 | | 1.82 | a | 2.50 | 30/ 1 | | E23.2 - HOT FOOD SERVING COUNTER | 14 |
| 15 | REC - CONV | 20/ 1 | | 0.36 | b | 0.67 | 20/ 1 | | EF-111 | 16 |
| 17 | REC - CONV | 20/ 1 | | 0.54 | c | 0.70 | 20/ 1 | | EF-114B | 18 |
| 19 | REC - CONV | 20/ 1 | | 0.54 | a | 0.53 | 20/ 3 | | MAU-1 | 20 |
| 21 | REC - CONV | 20/ 1 | | 0.18 | b | 0.53 | - | | | 22 |
| 23 | SHUNT-TRIP | | | 0.00 | c | 0.53 | - | | | 24 |
| 25 | E2.2 - CONVECTION OVEN - GAS (FUTURE) | 20/ 1 | | 0.72 | a | 0.00 | 20/ 1 | | SPARE | 26 |
| 27 | SHUNT-TRIP | | | 0.00 | b | 0.00 | 20/ 1 | | SPARE | 28 |
| 29 | SPARE | 20/ 1 | | 0.00 | c | 0.00 | 20/ 1 | | SPARE | 30 |
| 31 | SPARE | 20/ 1 | | 0.00 | a | 0.00 | | | SPACE | 32 |
| 33 | SPARE | 20/ 1 | | 0.00 | b | 0.00 | | | SPACE | 34 |
| 35 | SPARE | 20/ 1 | | 0.00 | c | 0.00 | | | SPACE | 36 |
| 37 | SPACE | | | 0.00 | a | 0.00 | | | SPACE | 38 |
| 39 | SPACE | | | 0.00 | b | 0.00 | | | SPACE | 40 |
| 41 | SPACE | | | 0.00 | c | 0.00 | | | SPACE | 42 |

| Load Summary | Connected Load | | Factor | Calculated Load | |
|---|---|---|---|---|---|
| Lighting | 0.00 | kVA | 125% | 0.00 | kVA |
| Receptacles | 1.62 | kVA | 50%>10kVA | 1.62 | kVA |
| All Motors | 0.70 | kVA | 100% | 0.70 | kVA |
| Lrgst Motor | 0.67 | kVA | 125% | 0.83 | kVA |
| Kitchen | 31.22 | kVA | 65% | 20.29 | kVA |
| Miscellaneous | 1.59 | kVA | 100% | 1.59 | kVA |
| Non-Coincident | 0.00 | kVA | 0% | 0.00 | kVA |
| **Total** | 35.80 | **kVA** | | 25.04 | **kVA** |
| | 99.4 | **Amps** | | 69.5 | **Amps** |

Notes:
1.

Phase Balance
FA 127.24 Amps
FB 86.24 Amps
FC 84.60 Amps

## INTERIOR LIGHTING AND RECEPTACLE CONTROL SCHEDULE

| ROOM # | ROOM NAME | MANUAL CONTROL: LINE VOLTAGE SW | LOW VOLTAGE SW | DIMMING | SCENE SW | 50% TIME SW REDUCTION | AUTOMATIC CONTROL: MANUAL ON | AUTO ON | WALL SW SENSOR | CEILING SENSOR | LT FIXTURE SENSOR | RELAY CONTROL PNL | WALL BOX TIME SWITCH | DAYLIGHT SENSOR | 50% RECPT LOAD CNTRL | EMERGENCY TRANSFER RELAY | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101 | MECHANICAL STORAGE | X | | | | | | X | | X | | | | | | | |
| 102 | RISER | X | | | | | | X | X | | | | | | | | |
| 103 | JANITOR | X | | | | | | X | X | | | | | | | | |
| ALL | HALLWAYS | | X | | | | | | | | | X | | | | X | WITH OVERRIDE SWITCH IN HALLWAYS |
| 105 | MEETING 1 | | X | | | | | X | | X | | | | X | X | X | |
| 106 | MEETING 2 | | X | | | | | X | | X | | | | X | X | X | |
| 107 | MEETING 3 | | X | | | | | X | | X | | | | X | X | X | |
| 108 | VESTIBULE | | X | | | | | | | | | X | | | | X | |
| 110 | VESTIBULE | | X | | | | | | | | | X | | | | X | |
| 111 | WOMEN | | X | | | | | X | | X | | | | | | X | |
| 112 | MEN | | X | | | | | X | | X | | | | | | X | |
| 114 | KITCHEN | | X | | | | | X | | X | | | | | | X | |
| 115 | KITCHEN STORAGE | X | | | | | | X | X | | | | | | | | |
| 116 | TABLE & CHAIR STORAGE | | X | | | | | X | | X | | | | | | | |
| 118 | HALL | | X | X | X | | | X | | | | X | | | | X | |
| 119 | COVERED ARCADE | | X | | | | | X | | | | X | | | | | |

NOTES
1 PROVIDE AUTOMATIC ON CONTROL UNDER WSEC C405.2.1.1 EXCEPTION (NO WINDOWS).
2 SEE LOW VOLTAGE RELAY SCHEDULE AND RISER DIAGRAM FOR TIME SWITCH OCCUPANCY CONTROL
3 PROVIDE MANUAL REDUCTION LIGHTING CONTROL IN LIEU OF AUTOMATIC CONTROL UNDER C405.2.2 EX 3 FOR OOCUPANT SAFETY OR SECURITY
4 PROVIDE MANUAL REDUCTION LIGHTING CONTROL IN LIEU OF AUTOMATIC CONTROL UNDER C405.2.2 EX [ ]
5 OCCUPANCY SENSORS SHALL PROVIDE 50% REDUCTION IN AISLE WAYS OF OPEN AREAS OF WAREHOUSE.
6 LIGHT REDUCTION CONTROL PROVIDED BY DIMMING.


RMC ARCHITECTS

RMC Architects, PLLC • 1223 Railroad Avenue• Bellingham, WA 98225
P:360.676.7733 • F:360.738.0448 • rmc@rmcarchitects.com

NOLAN A. HAMM — STATE OF WASHINGTON — 11946 — REGISTERED PROFESSIONAL ENGINEER

SIGNED
02-07-2020


Archdiocese of Seattle
St. Andrew Catholic Church Parish Hall
1401 Valley Avenue East
Sumner, WA 98390-2720

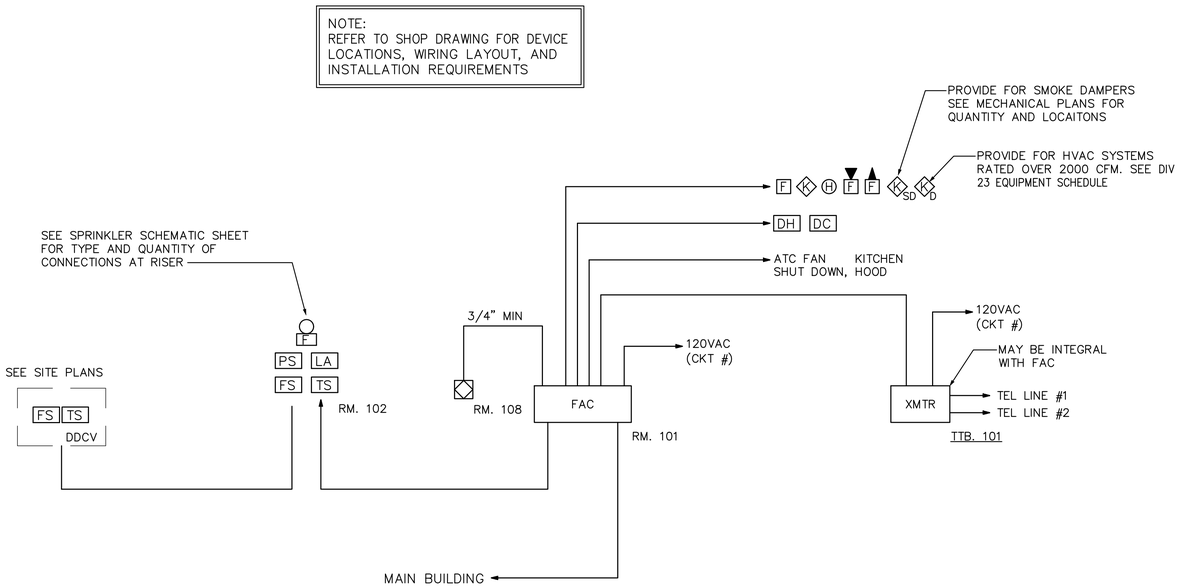

HULTZ BHU engineers inc

1111 Fawcett Ave, Suite 100 — Tacoma, WA 98402
Phone: (253) 383-3257 — Fax: (253) 383-3283
general@hultzbhu.com — Job Number: 19-035


Job No: 1851 Date: 2020-02-07
File No: 1851 St. Andrew Parish Hall
Drawn By: BHU
Checked By: BHU
Issued for: PERMIT SET

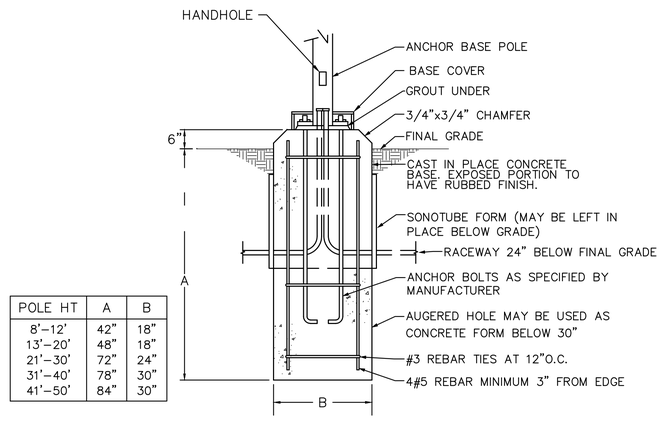
ELECTRICAL SCHEDULES

E502




4 FIRE ALARM RISER DIAGRAM

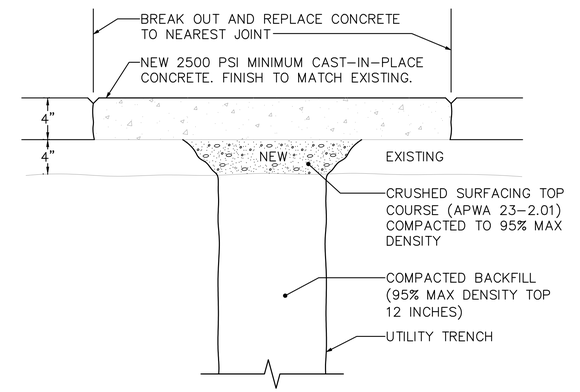
SCALE: N.T.S.




| POLE HT | A | B |
|---|---|---|
| 8'–12' | 42" | 18" |
| 13'–20' | 48" | 18" |
| 21'–30' | 72" | 24" |
| 31'–40' | 78" | 30" |
| 41'–50' | 84" | 30" |

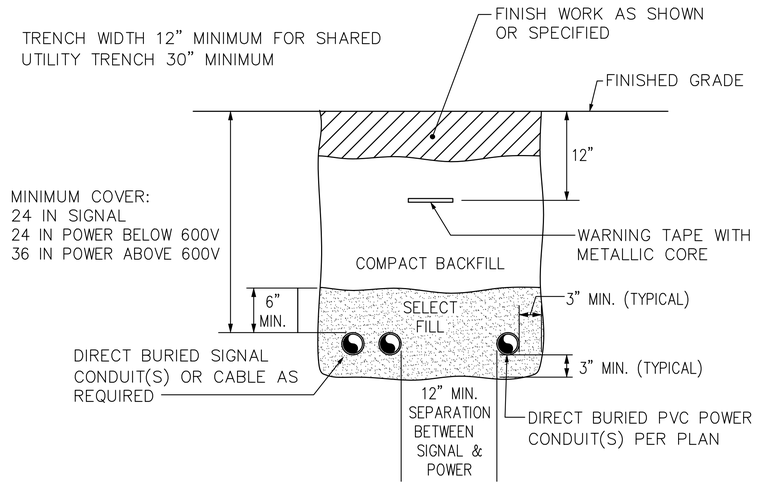
3 POLE BASE DETAIL

SCALE: N.T.S.




2 CONCRETE WALKWAY REPAIR

SCALE: N.T.S.




1 ELECTRICAL UTILITY TRENCH SECTION

SCALE: N.T.S.

RMC ARCHITECTS

RMC Architects, PLLC • 1223 Railroad Avenue• Bellingham, WA 98225
P:360.676.7733 • F:360.738.0448 • rmc@rmcarchitects.com

NOLAN A. HAHN STATE OF WASHINGTON 11946 REGISTERED PROFESSIONAL ENGINEER

SIGNED
02-07-2020

Archdiocese of Seattle
St. Andrew Catholic Church
1401 Valley Avenue East
Sumner, WA 98390-2720

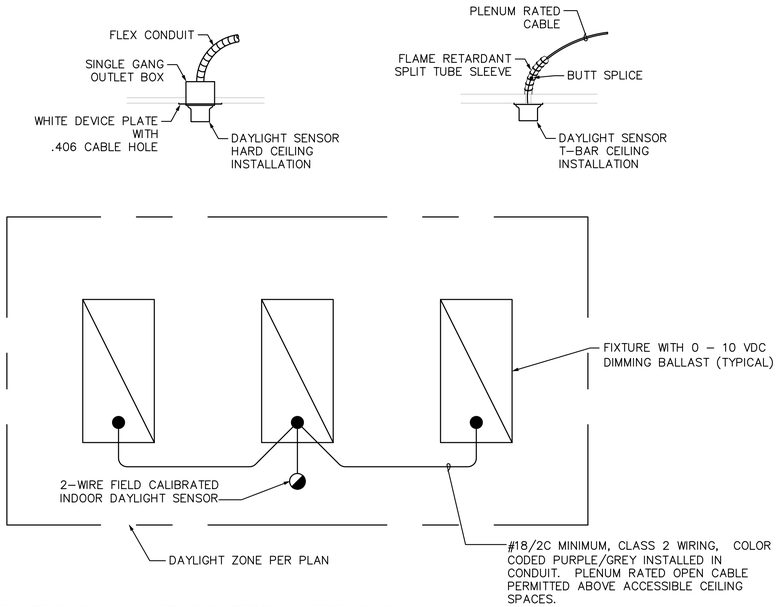
Job No: 1851 Date: 2020-02-07
File No: 1851 St. Andrew Parish Hall
Drawn By: BHU
Checked By: BHU
Issued for: PERMIT SET

ELECTRICAL DETAILS

E601

HULTZ BHU engineers inc

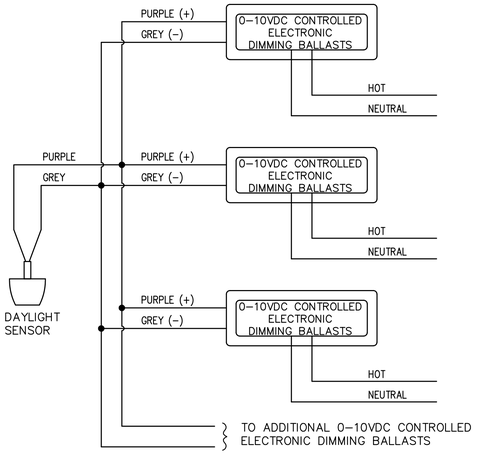
1111 Fawcett Ave, Suite 100 Tacoma, WA 98402
Phone: (253) 383-3257 Fax: (253) 383-3283
general@hultzbhu.com Job Number: 19-035



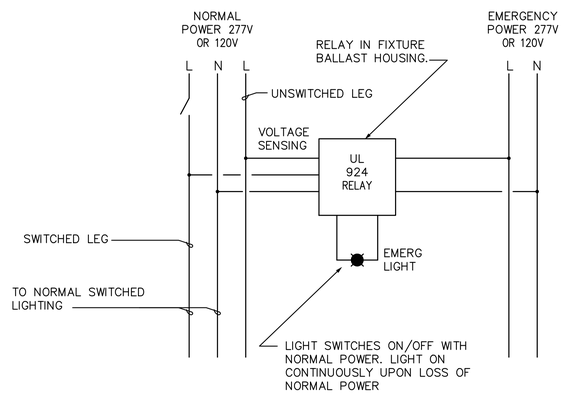

## AUTOMATIC DAYLIGHT CONTROL WIRING PLAN

1 AUTOMATIC DAYLIGHT CONTROL

SCALE: N.T.S.




## PHOTODIODE CONTROLLING 0-10 VDC DIMMING BALLAST WIRING DIAGRAM




2 EMERGENCY LIGHTING POWER TRANSFER RELAY DIAGRAM

SCALE: N.T.S.

RMC ARCHITECTS

RMC Architects, PLLC • 1223 Railroad Avenue• Bellingham, WA 98225
P:360.676.7733 • F:360.738.0448 • rmc@rmcarchitects.com

NOLAN A. HAMM — STATE OF WASHINGTON — 21946 — REGISTERED PROFESSIONAL ENGINEER

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Archdiocese of Seattle
St. Andrew Catholic Church Parish Hall
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ELECTRICAL DETAILS

E602

HULTZ BHU engineers inc
1111 Fawcett Ave, Suite 100 Tacoma, WA 98402
Phone: (253) 383-3257 Fax: (253) 383-3283
general@hultzbhu.com Job Number: 19-035