

WASHINGTON STATE PARKS & RECREATION COMMISSION

KEN BOUNDS, CHAIR

SOPHIA DANENBERG

LAURIE CONNELLY

MICHAEL LATIMER

SCOTT MERRIMAN

ALI RAAD

HOLLY WILLIAMS

DIANA DUPUIS, DIRECTOR



APPROVED FOR CONSTRUCTION

[Signature] 09 Feb 2024
 REGION MANAGER date
Kyle Murphy 2/14/2024
 CAPITAL PROGRAM MANAGER date

KOPACHUCK STATE PARK
 DAY USE DEVELOPMENT
VOLUME 1 of 3
 SITE WORK DRAWINGS

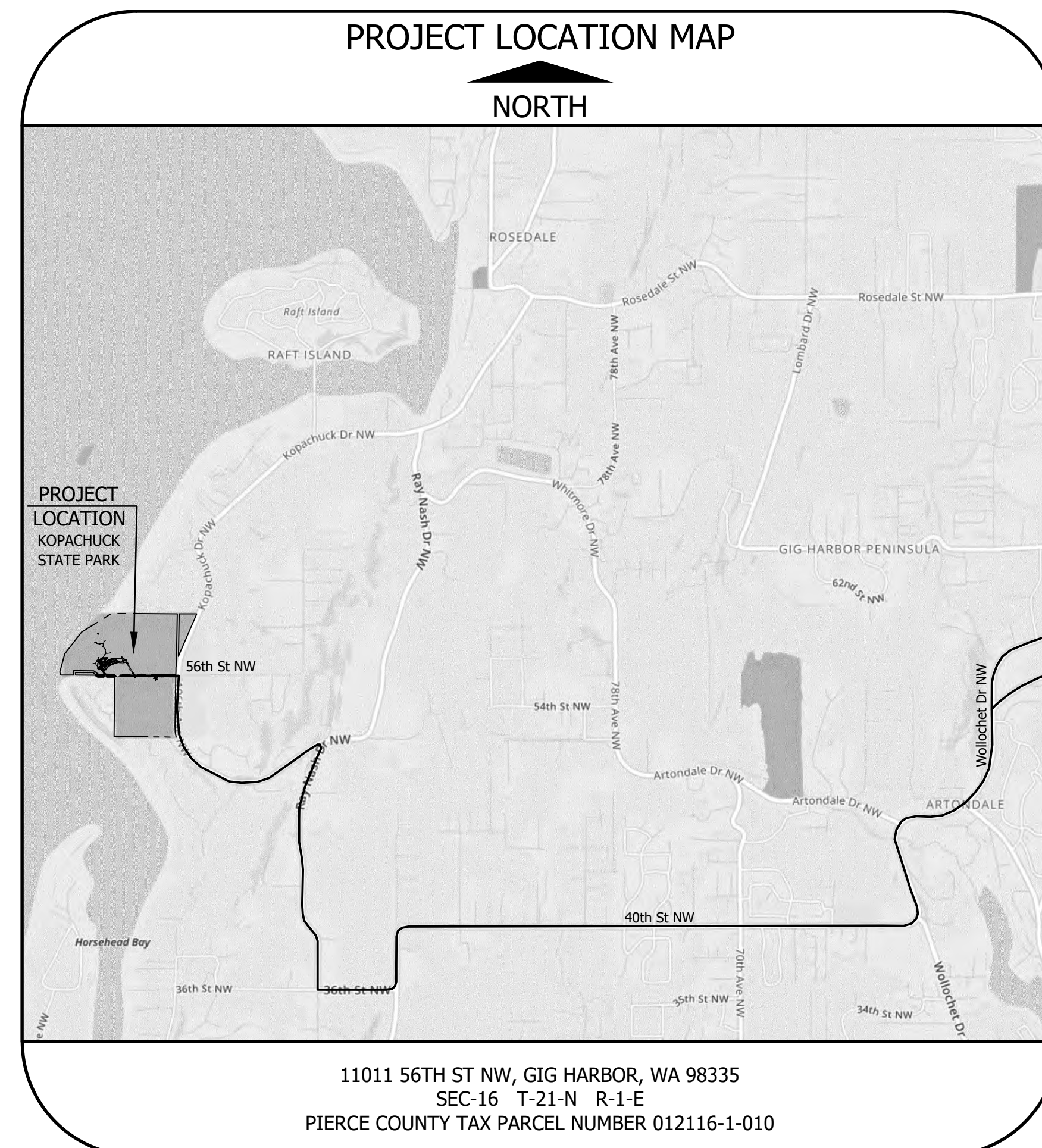
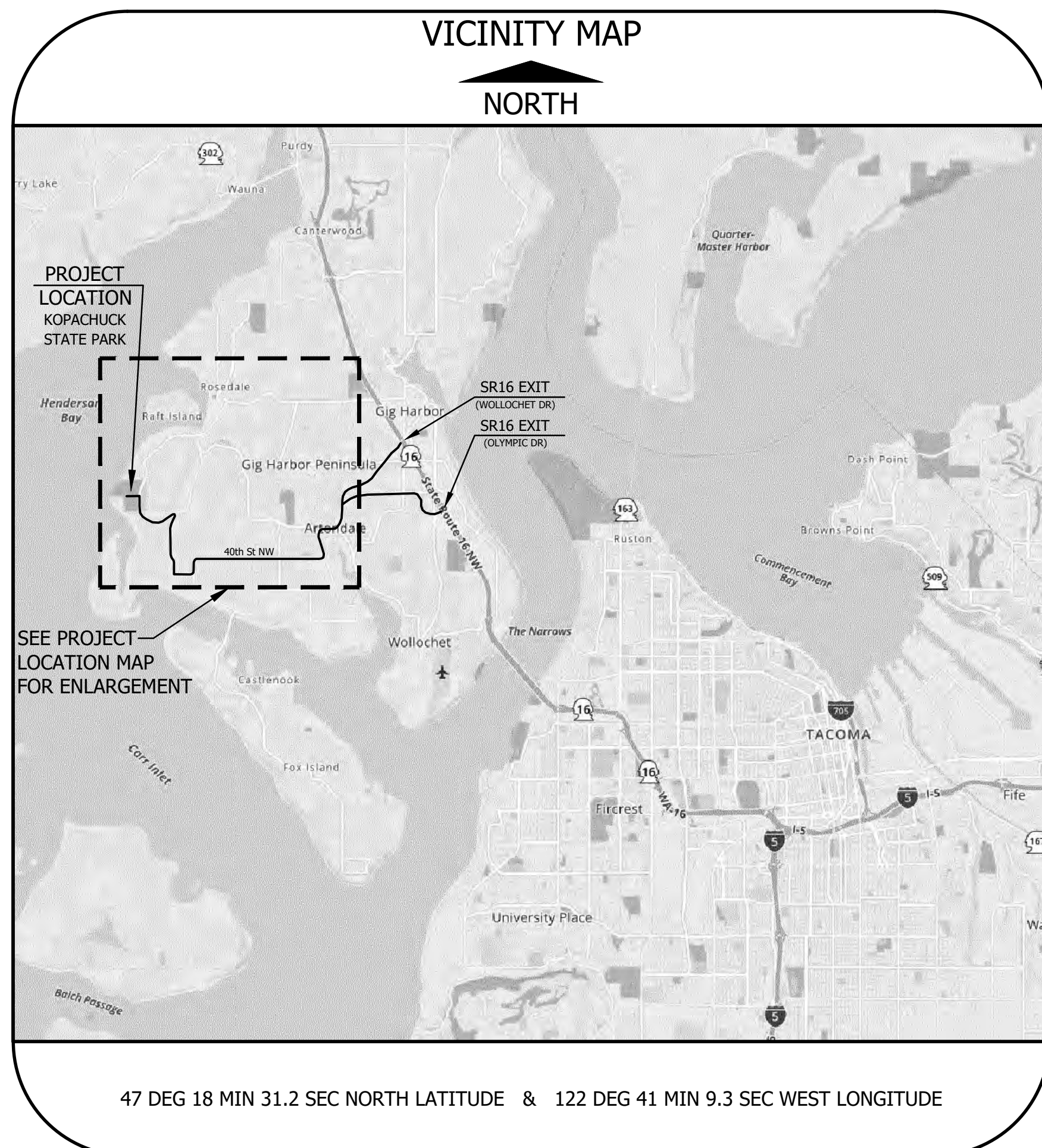
Area Manager: OLYVIA BUDAY

KOPACHUCK STATE PARK DAY USE DEVELOPMENT (VOLUME 1 of 3)

DRAWING SHEET INDEX - SITE WORK DRAWINGS VOLUME ONLY *

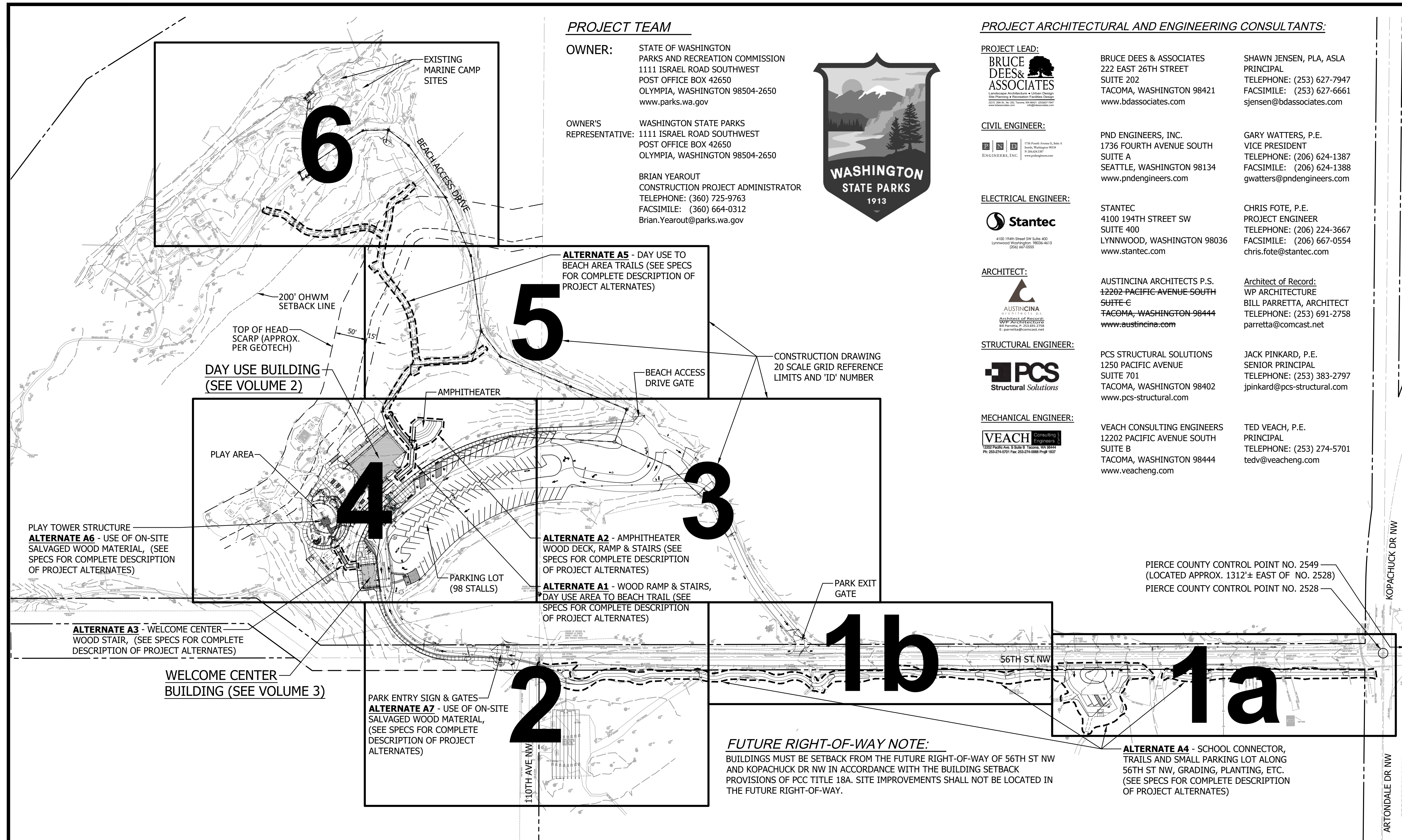
SHEET(S)	DWG(S)	DRAWING SHEET DESCRIPTION
1	G0.01	COVER SHEET
2	G0.02	COMPOSITE SITE PLAN & GENERAL NOTES
3	SV1.00	TOPOGRAPHIC SURVEY
4	D1.00	DEMOLITION & T.E.S.C. KEY PLAN & NOTES
5 - 10	D1.01-D1.06	DEMOLITION & T.E.S.C. PLANS - GRIDS 1 THROUGH 6
11	D2.01	DEMOLITION & T.E.S.C. NOTES
12	D2.02	DEMOLITION & T.E.S.C. DETAILS
13	C1.00	GRADING & DRAINAGE KEY PLAN & NOTES
14 - 19	C1.01-C1.06	GRADING & DRAINAGE PLANS - GRIDS 1 THROUGH 6
20	C1.11	GRADING & DRAINAGE PLAN ENLGMT. - DAY USE BUILDING AREA
21	C1.12	GRADING & DRAINAGE PLAN ENLGMT. - DAY USE PICNIC/PLAY AREA
22	C1.13	GRADING & DRAINAGE PLAN ENLGMT. - WELCOME CENTER AREA
23	C1.14	GRADING & DRAINAGE PLAN ENLGMT. - BEACH AREA
24 - 26	C2.01-C2.03	STORM DRAIN PROFILES
27 - 29	C2.04-C2.06	STORM DRAIN SECTIONS & DETAILS
30	C3.00	LAYOUT & MATERIALS KEY PLAN & NOTES
31 - 36	C3.01-C3.06	LAYOUT & MATERIALS PLANS - GRIDS 1 THROUGH 6
37	C3.11	LAYOUT & MATERIALS PLAN ENLGMT. - DAY USE BUILDING AREA
38	C3.12	LAYOUT & MATERIALS PLAN ENLGMT. - DAY USE PICNIC/PLAY AREA
39	C3.13	LAYOUT & MATERIALS PLAN ENLGMT. - WELCOME CENTER AREA
40	C3.14	LAYOUT & MATERIALS PLAN ENLGMT. - BEACH AREA
41 - 44	C4.01-C4.04	STRUCTURAL GENERAL NOTES
45 - 70	C5.01-C5.23	SITE SECTIONS & DETAILS
71	C6.00	KEY PLAN SEWER
72 - 75	C6.01-C6.04	SEWER PLANS - GRIDS 1 THROUGH 4
76	C7.00	SEWER PROFILES
77 - 79	C7.01-C7.03	SEWER DETAILS
80	C8.00	KEY PLAN WATER
81 - 84	C8.01-C8.04	WATER PLANS - GRIDS 1 THROUGH 4
85 - 86	C9.01-C9.02	WATER DETAILS
87	E0.00	SITE ELECTRICAL - SYMBOLS & ABBEVIATIONS
88 - 91	E1.01-E1.04	SITE ELECTRICAL PLANS - GRIDS 1 THROUGH 4
92	E3.12	SITE ELECTRICAL PLAN - ENLARGED GRID 4
93	E4.01	SITE ELECTRICAL DETAILS
94	E4.03	SITE ELECTRICAL - PANEL SCHEDULES & ONE-LINE
95	L1.00	LANDSCAPE PLANTING KEY PLAN & NOTES
96 - 101	L1.01-L1.06	LANDSCAPE PLANTING PLANS - GRIDS 1 THROUGH 6
102	L2.01	LANDSCAPE PLANTING DETAILS

*NOTE: THE ABOVE DRAWING SHEET INDEX PERTAINS TO THE SITE WORK FOR THIS PROJECT ONLY. THE DAY USE BUILDING WORK (VOLUME 2) AND WELCOME CENTER WORK (VOLUME 3) ARE SHOWN INDIVIDUALLY WITHIN SEPARATE DRAWING VOLUMES. SEE EACH OF THOSE INDIVIDUAL DRAWING VOLUMES FOR THE SHEET INDEXES PERTAINING TO WORK WITHIN THOSE VOLUMES.



SHEET 1 OF 102
 BID SET

G0.01



PROJECT TEAM

OWNER: STATE OF WASHINGTON
PARKS AND RECREATION COMMISSION
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OWNER'S REPRESENTATIVE: WASHINGTON STATE PARKS
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BRIAN YEAROUT
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PROJECT ARCHITECTURAL AND ENGINEERING CONSULTANTS:

PROJECT LEAD:
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Site Planning • Recreation Facilities Design
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tedv@veacheng.com

GENERAL NOTES

- THE EXISTING CULTURAL AND TOPOGRAPHIC DATA SHOWN ON THESE DRAWINGS HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, BRUCE DEES & ASSOCIATES CANNOT ENSURE ITS ACCURACY AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OF THAT INFORMATION OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT INCUR DUE TO THE CONTRACTOR'S FAILURE TO LOCATE EXACTLY AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. BRUCE DEES & ASSOCIATES ASSUMES NO LIABILITY FOR THE LOCATION OF UNDERGROUND UTILITIES.
- CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION. CONTACT 'CALL BEFORE YOU DIG' AT (800) 424-5555 FOR FIELD LOCATION ASSISTANCE WITHIN PUBLIC RIGHT-OF-WAY. RETAIN A PRIVATE LOCATOR SERVICE TO LOCATE UTILITIES WITHIN THE PROJECT SITE.

HORIZONTAL CONTROL

HORIZONTAL CONTROL IS FROM CALCULATED COORDINATES BASED ON THE TWO PIERCE COUNTY CONTROL POINTS (NO. 2549 & NO. 2528) NOTED UNDER 'BASIS OF BEARINGS' ON TOPOGRAPHIC SURVEY PLAN, SHEET SV1.00 BASED ON THE WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM 1983 / 1991 ADJUSTMENT (NAD 83 / 91).

VERTICAL CONTROL

PIERCE COUNTY DATUM (NGVD 29) AS NOTED UNDER 'ELEVATION DATUM' ON TOPOGRAPHIC SURVEY PLAN, SHEET SV1.00.

PLAN SCALE NOTE

LARGE SCALE SITE PLANS ARE GENERALLY DRAWN AT TWO DIFFERENT SCALES: 80 SCALE DRAWINGS COMPRISE OVERALL SITE OR 'KEY' PLANS AND 20 SCALE DRAWINGS THAT COMPRISE GRID PLANS '1' THROUGH '7'. ADDITIONAL DRAWING SCALES ARE USED WHERE APPROPRIATE ON DETAILED PLAN ENLARGEMENTS, OR ON SPECIFIC PLAN VIEW DETAILS WITH THOSE SCALES NOTED ACCORDINGLY.

PROJECT LAYOUT & STAKING

FIELD LOCATING AND STAKING OF PROPOSED IMPROVEMENTS SHALL BE BY DIMENSIONS SHOWN ON DRAWINGS AND COORDINATES OBTAINED VIA ELECTRONIC DRAWING FILES WHICH WILL BE PROVIDED WITHIN 5 DAYS OF RECEIVING WRITTEN REQUEST AFTER NOTICE OF AWARD. DIMENSIONS SHOWN ARE TAKEN AT 'FACE OF WALL/CURB' UNLESS OTHERWISE NOTED ON PLANS.

EXISTING FEATURES LEGEND

FOR EXISTING SITE FEATURES LEGEND SEE TOPOGRAPHIC SURVEY PLAN, SHEET SV1.00.

SPECIFIC SHEET LEGENDS

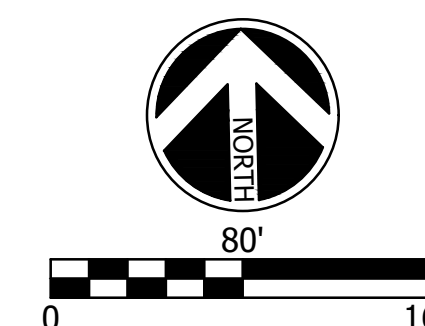
SEE 'KEY PLAN' SHEETS (D1.00, C1.00, C3.00, C6.00, C8.00, AND L1.00) FOR ADDITIONAL SPECIFIC LEGENDS, SCHEDULES, ABBREVIATIONS, FLAG NOTES, OR CALLOUTS APPLICABLE TO SHEETS WITHIN THOSE SHEET SERIES.

BID ALTERNATES

SEE FORM OF PROPOSAL AND SECTION 01230 IN THE SPECIFICATIONS FOR LIST AND DESCRIPTION OF BID ALTERNATES.

IMPORTANT NOTE:

PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE WORK NECESSARY TO COMPLETE CONSTRUCTION UNDER THIS CONTRACT AS SHOWN AND SPECIFIED ON THESE PLANS.



BRUCE DEES & ASSOCIATES
Landscape Architecture • Urban Design
Site Planning • Recreation Facilities Design
www.bdees.com

222 E. 26th St., No. 202, Tacoma, WA 98401 (253) 627-7947

SHEET 2 OF 102

BID SET

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	ABD	NOV. 2023
DRAWN	SAJ	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STATE OF WASHINGTON
LICENSED LANDSCAPE ARCHITECT
Shawn Jensen
SHAWN ALLAN JENSEN
LICENSE No. 1408
EXPIRES ON 04/04/2025
PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

COMPOSITE SITE PLAN & GENERAL NOTES

G0.02

SCALE AS NOTED

PARKS FILE#

LEGAL DESCRIPTION

(PER STEWART TITLE GUARANTY COMPANY SUBDIVISION GUARANTEE NO. G-6329-000005165, ORDER NO. 205733, DATED DECEMBER 1, 2014.)
GOVERNMENT LOT 2 IN SECTION 16, TOWNSHIP 21 NORTH, RANGE 1 EAST, W.M., EXCEPT ROADS.

TOGETHER WITH THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 16, TOWNSHIP 21 NORTH, RANGE 1 EAST, W.M., EXCEPT ROADS.

TOGETHER WITH THAT PORTION OF THE SOUTHEAST QUARTER OF SECTION 16, TOWNSHIP 21 NORTH, RANGE 1 EAST, W.M., LYING WESTERLY OF THE WESTERLY MARGIN OF COUNTY ROAD KNOWN AS ROSEDALE BAY ROAD, MORE PARTICULARLY DESCRIBED AS FOLLOWS:
BEGINNING AT THE NORTHWEST CORNER OF SAID SOUTHEAST QUARTER OF THE NORTHEAST QUARTER; THENCE SOUTH 24°30'14" WEST ALONG SAID MARGIN, 905.40 FEET TO A CURVE TO THE LEFT; THENCE ALONG SAID CURVE THE LEFT ALONG SAID WESTERLY MARGIN TO THE WEST LINE OF SAID SOUTHEAST QUARTER OF THE NORTHEAST QUARTER; EXCEPT 106TH AVE NW.

TOGETHER WITH THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 16, TOWNSHIP 21 NORTH, RANGE 1 EAST, W.M., EXCEPT ROADS.

SITUATE IN THE COUNTY OF PIERCE, STATE OF WASHINGTON.

SURVEY REFERENCES

PUGET SOUND TITLE CO SUBDIVISION GUARANTEE NO. G-6329-000005165.
R.O.S. 200809185003.
R.O.S. 8612110245.
SHORT PLAT 8906270468.
SHORT PLAT 8712070430
UNRECORDED SURVEY BY L.A. NICKLESON
PLAT OF KOPACHUCK PLACE, 9803175003.

TITLE REPORT NOTES

(PER SUBJECT TO LISTINGS CONTAINED IN STEWART TITLE GUARANTY COMPANY SUBDIVISION GUARANTEE NO. G-6329-000005165, ORDER NO. 205733, DATED DECEMBER 1, 2014. ITEM NUMBERING CORRESPONDS TO THE NUMBERING WITHIN SAID REPORT)

- 1 QUIT CLAIM DEED UNDER A.F.N. 9211190246 STATE OF WASHINGTON TO THE PARK COMMISSION MAKING RESERVATIONS FOR ROAD AND PIPELINE EASEMENT, LOCATIONS NOT DEFINED, THEREFORE NOTHING HAS BEEN PLOTTED HEREON.
- 2 QUIT CLAIM DEED UNDER A.F.N. 9107110098 STATE OF WASHINGTON TO THE PARKS COMMISSION WITH RESERVATIONS. TAX PARCEL NO. 0121161010 HAS BEEN PARTIALLY SHOWN HEREON.
- 3 PIERCE COUNTY ROAD GRANT UNDER A.F.N. 1396672 FOR 40' WIDE RIGHT-OF-WAY HAS BEEN PLOTTED HEREON.
- 4 PIERCE COUNTY ROAD GRANT UNDER A.F.N. 1230826 FOR A 60' RIGHT-OF-WAY OF ROSEDALE BAY ROAD (A.K.A. ARTONDALE DR. NW; KOPACHUCK DR. NW; & 106TH AVE NW), PLOTTED HEREON.
- 5 EASEMENT GRANTED BY THE PARKS COMMISSION UNDER A.F.N. 8410160188 FOR INGRESS AND EGRESS OVER A 30' WIDE STRIP OF PARK LAND AND RESERVING PARK RIGHTS, HAS BEEN PLOTTED HEREON.
- 6 EASEMENT GRANTED BY THE PARKS COMMISSION UNDER A.F.N. 8410290253 FOR INGRESS AND EGRESS OVER A 30' WIDE STRIP OF PARK LAND AND RESERVING PARK RIGHTS, HAS BEEN PLOTTED HEREON AND ATTACHES TO ITEM 6, ABOVE..
- 7 EASEMENT GRANTED BY THE PARKS COMMISSION TO PIERCE COUNTY PER A.F.N. 200501210100 FOR STORM DRAIN FACILITIES ADJOINING ARTONDALE DRIVE NW, HAS BEEN PLOTTED HEREON.
- 8 EASEMENT GRANTED BY THE PARKS COMMISSION FOR STORM DRAINAGE PIPES ALONG THE PIPES AS OR TO BE CONSTRUCTED AND NOT DEFINED BY LOCATION, THEREFORE ONLY SHOWN IN THE APPROXIMATE VICINITY.

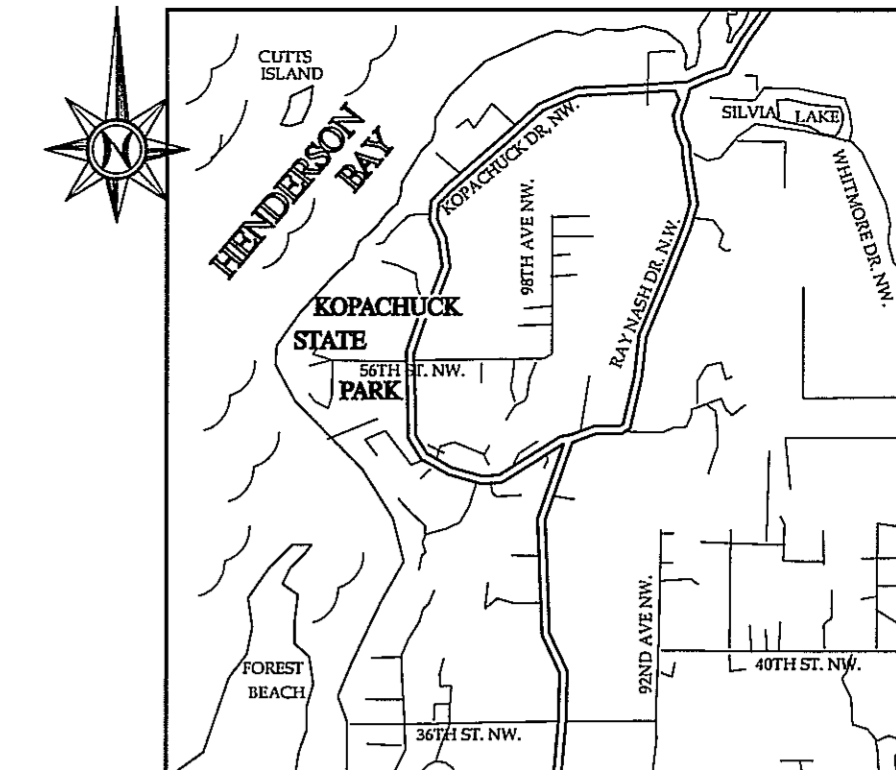
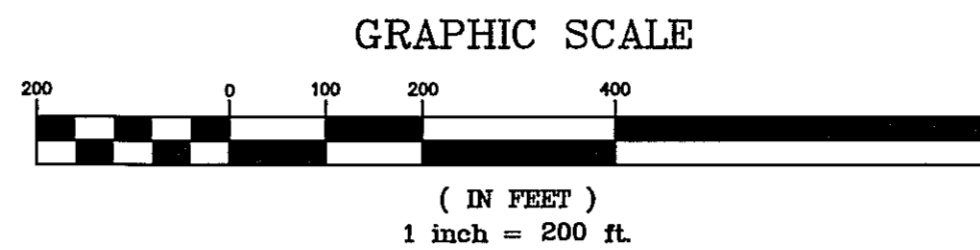
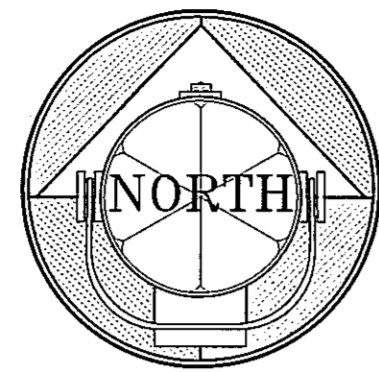
GENERAL NOTES

- 1. THE PURPOSE OF THIS SURVEY IS TO DETERMINE EXISTING BOUNDARIES AND LIMITED TOPOGRAPHIC FEATURES IN AREAS DESIGNATED FOR FUTURE DESIGN.
- 2. THE LEGAL DESCRIPTION CONTAINED IN STEWART TITLE GUARANTY COMPANY REPORT DATED DECEMBER 1, 2014, FILE NO. 205733 WAS RELIED UPON TO GENERATE THE BOUNDARY AND ENCUMBRANCES SHOWN OR NOTED HEREON.
- 3. THE ADJOINER PARCEL LINES SHOWN HEREON HAVE BEEN DEVELOPED FROM AVAILABLE PUBLIC AND PRIVATE RECORDS. THEY WERE NOT SURVEYED AS A PART OF THIS PROJECT AND ARE AN APPROXIMATE LOCATION ONLY.
- 4. THE BURIED (UTILITIES) SHOWN HEREON REFLECT SURFACE EVIDENCE, SUPPLEMENTED WITH UTILITY LOCATION MARKINGS AND DRAWINGS PROVIDED BY THE CLIENT. THE UNDERGROUND UTILITY LOCATIONS SHOWN HEREON ARE TO BE CONSIDERED APPROXIMATE ONLY. LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY OR RELIABLY DEPICTED. WHERE ADDITIONAL OR MORE DETAILED INFORMATION IS REQUIRED FOR AREAS CRITICAL TO DESIGN, EXCAVATION MAY BE NECESSARY. CONTACT THE APPROPRIATE UTILITY COMPANY DETAILS. PRIOR TO ANY CONSTRUCTION CALL THE UNDERGROUND UTILITIES LOCATION CENTER AT 811.
- 5. NO PROPERTY CORNERS WERE SET AS PART OF THIS SURVEY.

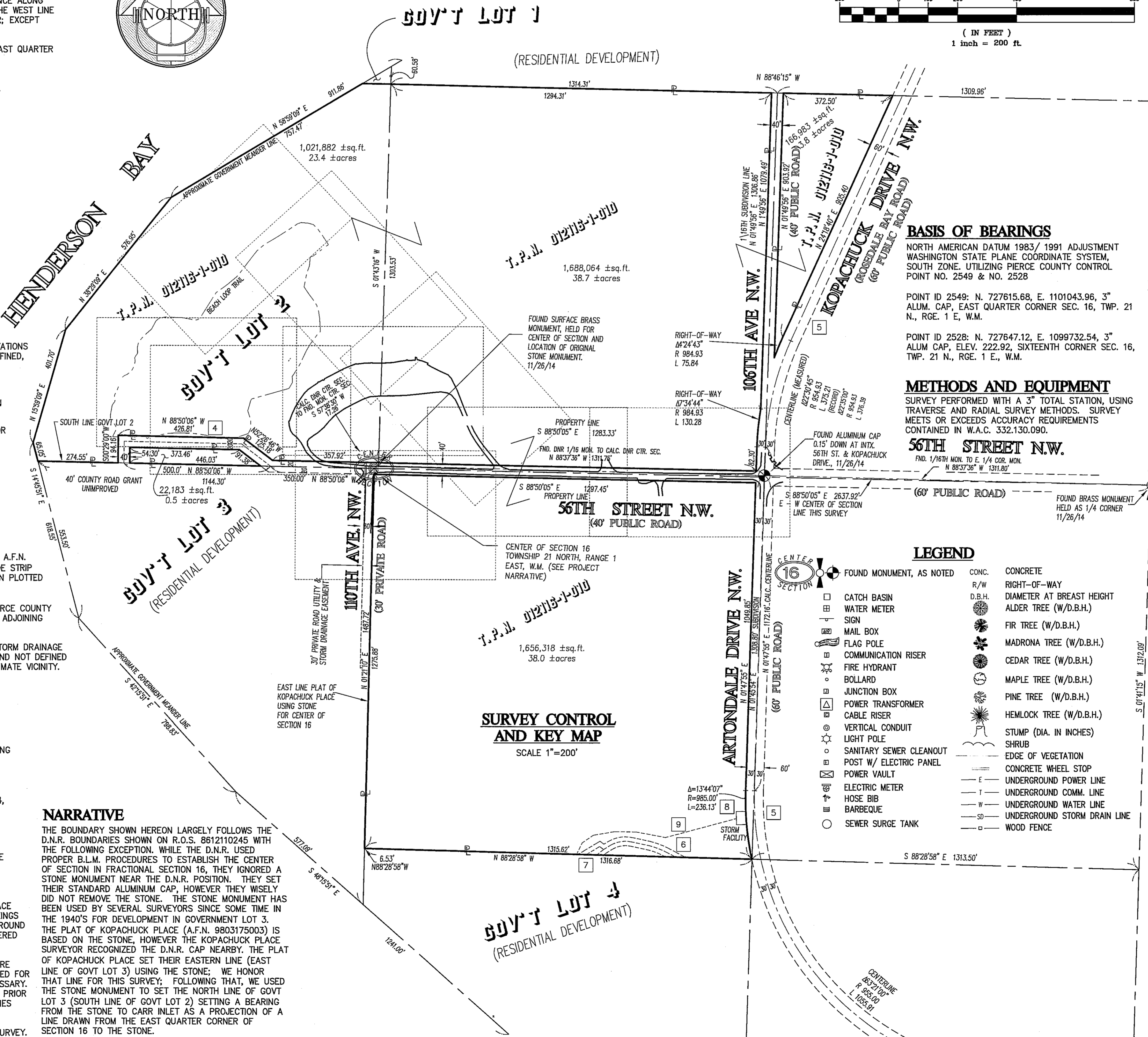
NARRATIVE

THE BOUNDARY SHOWN HEREON LARGELY FOLLOWS THE D.N.R. BOUNDARIES SHOWN ON R.O.S. 8612110245 WITH THE FOLLOWING EXCEPTION. WHILE THE D.N.R. USED PROPER B.L.M. PROCEDURES TO ESTABLISH THE CENTER OF SECTION IN FRACTIONAL SECTION 16, THEY IGNORED A STONE MONUMENT NEAR THE D.N.R. POSITION. THEY SET THEIR STANDARD ALUMINUM CAP, HOWEVER THEY WISELY DID NOT REMOVE THE STONE. THE STONE MONUMENT HAS BEEN USED BY SEVERAL SURVEYORS SINCE SOME TIME IN THE 1940'S FOR DEVELOPMENT IN GOVERNMENT LOT 3. THE PLAT OF KOPACHUCK PLACE (A.F.N. 9803175003) IS BASED ON THE STONE, HOWEVER THE KOPACHUCK PLACE SURVEYOR RECOGNIZED THE D.N.R. CAP NEARBY. THE PLAT OF KOPACHUCK PLACE SET THEIR EASTERN LINE (EAST LINE OF GOVT LOT 3) USING THE STONE. WE HONOR THAT LINE FOR THIS SURVEY; FOLLOWING THAT, WE USED THE STONE MONUMENT TO SET THE NORTH LINE OF GOVT LOT 3 (SOUTH LINE OF GOVT LOT 2) SETTING A BEARING FROM THE STONE TO CARR INLET AS A PROJECTION OF A LINE DRAWN FROM THE EAST QUARTER CORNER OF SECTION 16 TO THE STONE.

**WASHINGTON STATE PARKS
KOPACHUCK STATE PARK
BOUNDARY AND TOPOGRAPHIC SURVEY
A PORTION OF THE S 1/2 OF THE NE 1/4, AND, THE NW 1/4 (GOVT. LOT 2), AND THE N 1/2 OF THE SE 1/4 SECTION 16, TOWNSHIP 21 NORTH, RANGE 1 EAST, W.M.
PIERCE COUNTY, WASHINGTON STATE**



VICINITY MAP
NOT TO SCALE



ELEVATION DATUM

PIERCE COUNTY DATUM (NGVD 29)

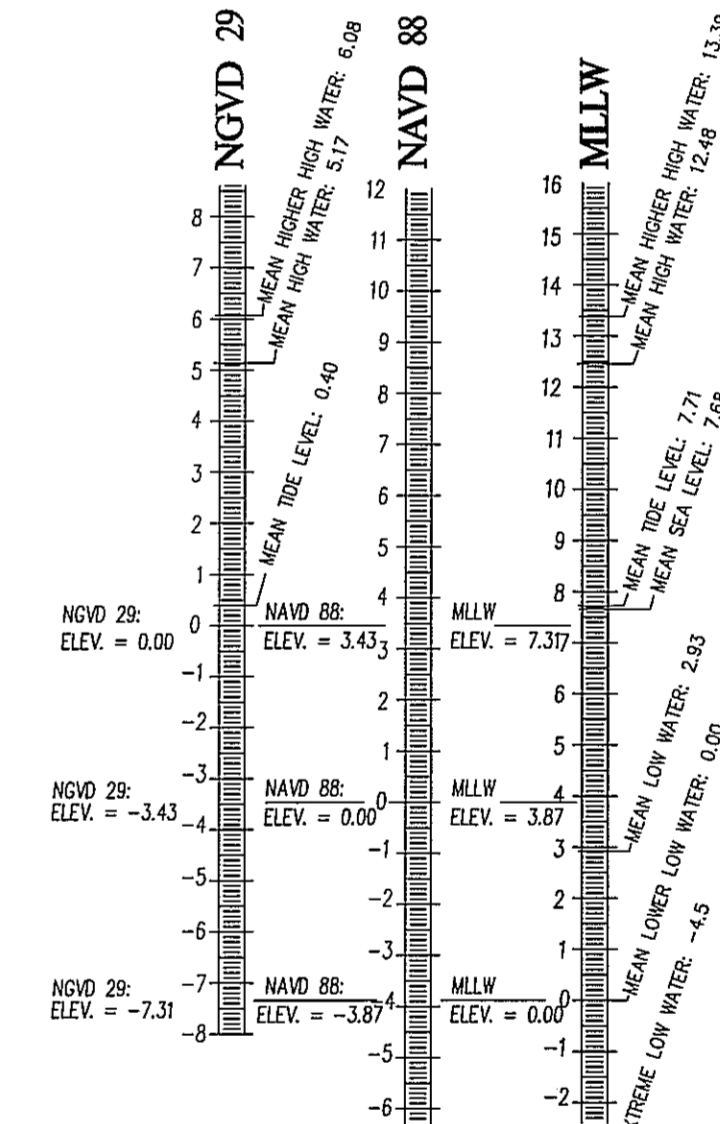
BENCHMARK NO. P11-6M2
SURFACE BRASS MONUMENT IN ASPHALT WALK, SOUTH SIDE OF S.W. DRIVEWAY TO VOYAGER ELEMENTARY SCHOOL. APPROXIMATELY 180 FEET NORTH OF THE INTERSECTION OF 56TH STREET N.W. AND KOPACHUCK DRIVE. N.W. ELEVATION = 228.51

BENCHMARK NO. P11-6:

ELEVATION = 232.39

DATUM RELATIONSHIPS

NOT TO SCALE

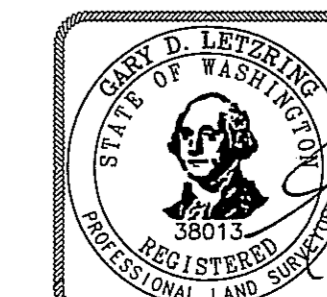


MEAN LOWER LOW WATER DATUM WAS CALCULATED USING NOAA VERTICAL DATUM TRANSFORMATION SOFTWARE v3.3 CONVERTING THE N.G.V.D. 1929 DATUM BASED ON THE NOTED VERTICAL BENCHMARK.

**PROJECT NAME:
KOPACHUCK STATE PARK
DAY USE DEVELOPMENT**

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT THIS MAP CORRECTLY REPRESENTS A BOUNDARY AND TOPOGRAPHIC SURVEY MADE BY ME OR UNDER MY DIRECT SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE REPRESENTS THE TOPOGRAPHIC FEATURES AS THEY EXIST ON THE GROUND AS OF JANUARY, 2015.



GARY D. LETZRING P.L.S. NO. 38013

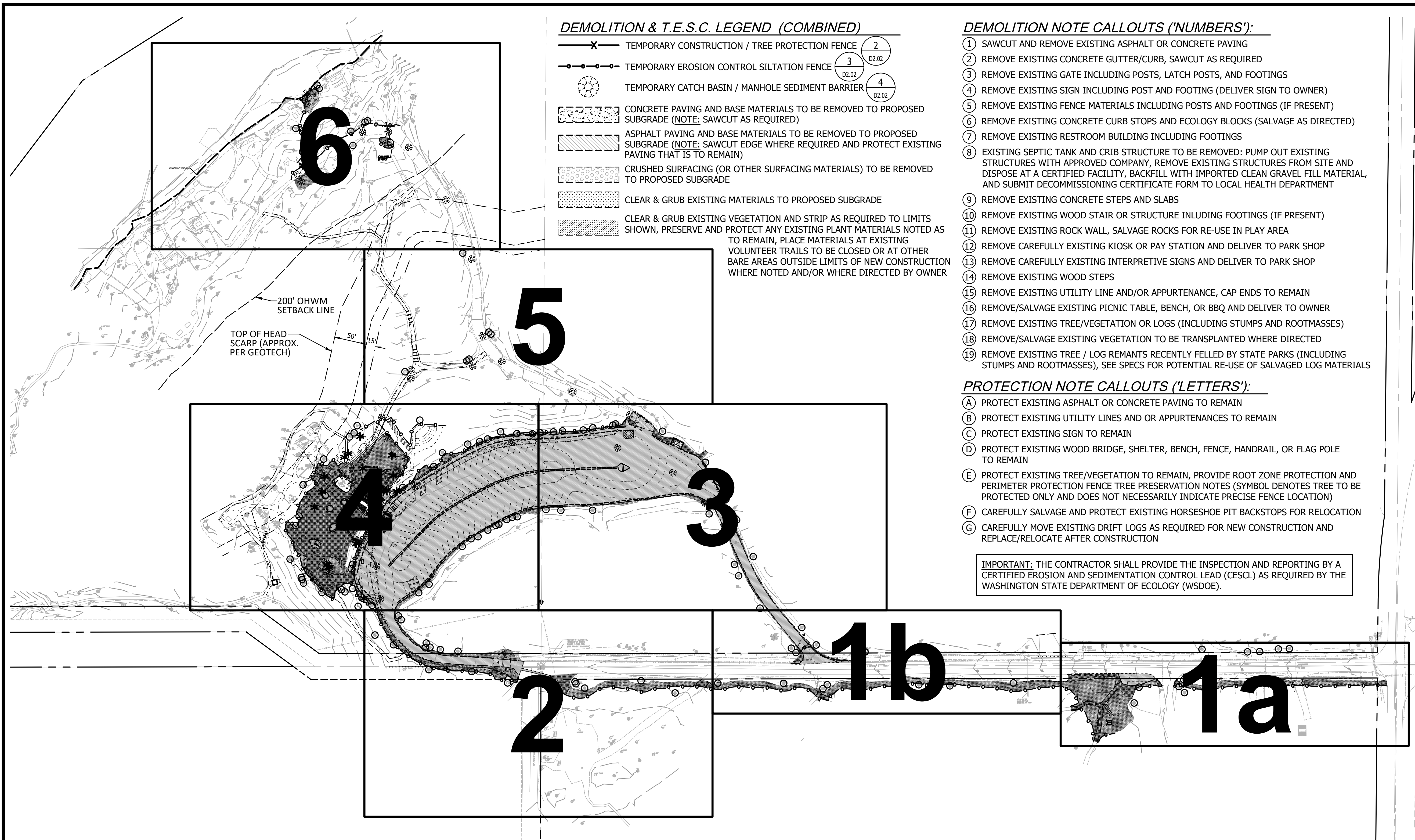
3/10/15
DATE

REV. NO.	DESCRIPTION OF REVISION	DATE

**TOPOGRAPHIC SURVEY
KOPACHUCK STATE PARK**
CLIENT
**MR. BRIAN YEAROUT, CPC
WASHINGTON STATE PARKS
111 ISRAEL ROAD S.W.
OLYMPIA, WA 98504-2650**

PRIZM SURVEYING INC.
P. O. BOX 110700
TACOMA WA. 98411
ESTABLISHED 1993
OFFICE 253-404-0983
FAX 253-404-0984
CONSTRUCTION LAYOUT - BOUNDARY AND TOPOGRAPHIC SURVEYS

DATE OF SURVEY	11/26/2014
DRAWN BY	DAH/GDL
DATE	03/10/2015
SEC. 16 TWP. 21 RNG. 1 E.	
SHEET	3 of 102
SV1.00	
PROJECT NO.	2014-109EG



DEMOLITION & T.E.S.C. LEGEND (COMBINED)

- TEMPORARY CONSTRUCTION / TREE PROTECTION FENCE
- TEMPORARY EROSION CONTROL SILTATION FENCE
- TEMPORARY CATCH BASIN / MANHOLE SEDIMENT BARRIER
- CONCRETE PAVING AND BASE MATERIALS TO BE REMOVED TO PROPOSED SUBGRADE (NOTE: SAWCUT AS REQUIRED)
- ASPHALT PAVING AND BASE MATERIALS TO BE REMOVED TO PROPOSED SUBGRADE (NOTE: SAWCUT EDGE WHERE REQUIRED AND PROTECT EXISTING PAVING THAT IS TO REMAIN)
- CRUSHED SURFACING (OR OTHER SURFACING MATERIALS) TO BE REMOVED TO PROPOSED SUBGRADE
- CLEAR & GRUB EXISTING MATERIALS TO PROPOSED SUBGRADE
- CLEAR & GRUB EXISTING VEGETATION AND STRIP AS REQUIRED TO LIMITS SHOWN, PRESERVE AND PROTECT ANY EXISTING PLANT MATERIALS NOTED AS TO REMAIN, PLACE MATERIALS AT EXISTING VOLUNTEER TRAILS TO BE CLOSED OR AT OTHER BARE AREAS OUTSIDE LIMITS OF NEW CONSTRUCTION WHERE NOTED AND/OR WHERE DIRECTED BY OWNER

DEMOLITION NOTE CALLOUTS ('NUMBERS'):

- 1 SAWCUT AND REMOVE EXISTING ASPHALT OR CONCRETE PAVING
- 2 REMOVE EXISTING CONCRETE GUTTER/CURB, SAWCUT AS REQUIRED
- 3 REMOVE EXISTING GATE INCLUDING POSTS, LATCH POSTS, AND FOOTINGS
- 4 REMOVE EXISTING SIGN INCLUDING POST AND FOOTING (DELIVER SIGN TO OWNER)
- 5 REMOVE EXISTING FENCE MATERIALS INCLUDING POSTS AND FOOTINGS (IF PRESENT)
- 6 REMOVE EXISTING CONCRETE CURB STOPS AND ECOLOGY BLOCKS (SALVAGE AS DIRECTED)
- 7 REMOVE EXISTING RESTROOM BUILDING INCLUDING FOOTINGS
- 8 EXISTING SEPTIC TANK AND CRIB STRUCTURE TO BE REMOVED: PUMP OUT EXISTING STRUCTURES WITH APPROVED COMPANY, REMOVE EXISTING STRUCTURES FROM SITE AND DISPOSE AT A CERTIFIED FACILITY, BACKFILL WITH IMPORTED CLEAN GRAVEL FILL MATERIAL, AND SUBMIT DECOMMISSIONING CERTIFICATE FORM TO LOCAL HEALTH DEPARTMENT
- 9 REMOVE EXISTING CONCRETE STEPS AND SLABS
- 10 REMOVE EXISTING WOOD STAIR OR STRUCTURE INCLUDING FOOTINGS (IF PRESENT)
- 11 REMOVE EXISTING ROCK WALL, SALVAGE ROCKS FOR RE-USE IN PLAY AREA
- 12 REMOVE CAREFULLY EXISTING KIOSK OR PAY STATION AND DELIVER TO PARK SHOP
- 13 REMOVE CAREFULLY EXISTING INTERPRETIVE SIGNS AND DELIVER TO PARK SHOP
- 14 REMOVE EXISTING WOOD STEPS
- 15 REMOVE EXISTING UTILITY LINE AND/OR APPURTENANCE, CAP ENDS TO REMAIN
- 16 REMOVE/SALVAGE EXISTING PICNIC TABLE, BENCH, OR BBQ AND DELIVER TO OWNER
- 17 REMOVE EXISTING TREE/VEGETATION OR LOGS (INCLUDING STUMPS AND ROOTMASSES)
- 18 REMOVE/SALVAGE EXISTING VEGETATION TO BE TRANSPLANTED WHERE DIRECTED
- 19 REMOVE EXISTING TREE / LOG REMANTS RECENTLY FELLED BY STATE PARKS (INCLUDING STUMPS AND ROOTMASSES), SEE SPECS FOR POTENTIAL RE-USE OF SALVAGED LOG MATERIALS

PROTECTION NOTE CALLOUTS ('LETTERS'):

- A PROTECT EXISTING ASPHALT OR CONCRETE PAVING TO REMAIN
- B PROTECT EXISTING UTILITY LINES AND OR APPURTENANCES TO REMAIN
- C PROTECT EXISTING SIGN TO REMAIN
- D PROTECT EXISTING WOOD BRIDGE, SHELTER, BENCH, FENCE, HANDRAIL, OR FLAG POLE TO REMAIN
- E PROTECT EXISTING TREE/VEGETATION TO REMAIN, PROVIDE ROOT ZONE PROTECTION AND PERIMETER PROTECTION FENCE TREE PRESERVATION NOTES (SYMBOL DENOTES TREE TO BE PROTECTED ONLY AND DOES NOT NECESSARILY INDICATE PRECISE FENCE LOCATION)
- F CAREFULLY SALVAGE AND PROTECT EXISTING HORSESHOE PIT BACKSTOPS FOR RELOCATION
- G CAREFULLY MOVE EXISTING DRIFT LOGS AS REQUIRED FOR NEW CONSTRUCTION AND REPLACE/RELOCATE AFTER CONSTRUCTION

IMPORTANT: THE CONTRACTOR SHALL PROVIDE THE INSPECTION AND REPORTING BY A CERTIFIED EROSION AND SEDIMENTATION CONTROL LEAD (CESCL) AS REQUIRED BY THE WASHINGTON STATE DEPARTMENT OF ECOLOGY (WSDOE).

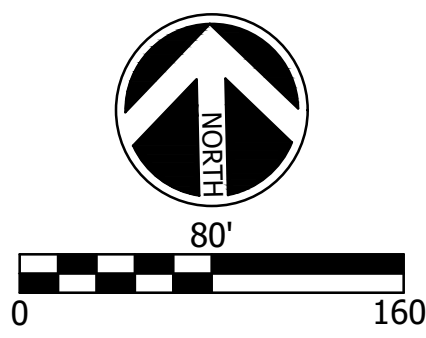
TREE PRESERVATION NOTES (TYP)

1. TREE PROTECTION FENCES ARE TO BE ERECTED PRIOR TO BEGINNING OF WORK TO PROTECT TREES THAT ARE TO BE PRESERVED. FENCES DEFINE SPECIFIC PROTECTION ZONE FOR GROUPS OF TREES. FENCES ARE TO REMAIN UNTIL ALL SITE WORK HAS BEEN COMPLETED.
2. CONSTRUCTION TRAILERS, TRAFFIC, AND STORAGE AREAS MUST REMAIN WITHIN WORK AREA AND OUTSIDE OF TREE PROTECTION FENCING AT ALL TIMES.
3. ALL UNDERGROUND UTILITIES, DRAINLINES OR IRRIGATION LINES SHALL BE ROUTED OUTSIDE THE TREE PROTECTION ZONES.
4. NO MATERIALS, EQUIPMENT, SPOILS, WASTE, OR WASHOUT WATER MAY BE DEPOSITED, STORED OR PARKED WITHIN THE TREE PROTECTION ZONE FENCING.
5. ADDITIONAL TREE PRUNING MAY BE REQUIRED FOR CLEARANCE DURING CONSTRUCTION. ALL TREE PRUNING MUST CONFORM TO ANSI A300 STANDARDS.
6. NO HERBICIDES OR PESTICIDES SHALL BE USED IN THIS CONSTRUCTION PROJECT EXCEPT IF APPROVED IN WRITING BY THE COUNTY'S PROJECT MANAGER.
7. IF INJURY SHOULD OCCUR TO ANY TREE DURING CONSTRUCTION, IT SHALL BE EVALUATED AS SOON AS POSSIBLE BY THE COUNTY'S ARBORIST TO DETERMINE APPROPRIATE ACTION, IF ANY.
8. ANY GRADING, TRENCHING, CONSTRUCTION, DEMOLITION, OR OTHER WORK THAT IS EXPECTED TO ENCOUNTER TREE ROOTS MUST BE MONITORED. WHEN ROOTS ARE ENCOUNTERED 1" IN DIAMETER OR GREATER, THEY SHALL BE CLEANLY CUT WITH A SHARP PRUNING TOOL.
9. ANY ROOTS DAMAGED DURING EXCAVATION, GRADING OR CONSTRUCTION SHALL BE EXPOSED BACK TO SOUND TISSUE BY HAND DIGGING, AND CUT CLEANLY WITH A SHARP PRUNING TOOL.
10. MAINTAIN FIRE-SAFE AREAS AROUND TREE PROTECTION ZONES. NO HEAT SOURCES, FLAMES, IGNITION SOURCES OR HEATED LIQUIDS SHALL BE ALLOWED IN TREE PROTECTION ZONES.
11. THE INTENDED PLACEMENT OF THE TREE PROTECTION FENCING IS TO BE OUTSIDE THE DRIPLINE OF THE TREE. IN SOME INSTANCES THAT IS NOT POSSIBLE WITH THE REQUIRED CONSTRUCTION. IN THESE INSTANCES THE FENCE IS TO BE PLACED AS FAR AWAY FROM THE TREE TRUNK AS POSSIBLE WHILE STILL ALLOWING ROOM FOR THE REQUIRED CONSTRUCTION.

DEMO./SWPPP GENERAL NOTES

1. CONTRACTOR SHALL ESTABLISH, MAINTAIN, ADJUST, AND REMOVE TEMPORARY EROSION CONTROL MEASURES (SILT FENCING, ETC.) AS REQUIRED FOR NEW CONSTRUCTION.
2. CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION. CONTACT 'CALL BEFORE YOU DIG' AT 800-424-5555 FOR FIELD LOCATION ASSISTANCE WITHIN PUBLIC RIGHT-OF-WAY. RETAIN A PRIVATE LOCATOR SERVICE TO LOCATE UTILITIES WITHIN THE PROJECT SITE.
3. AT ALL CLEAR & GRUB AREAS, REMOVE ALL EXIST. STRUCTURES OR OTHER ITEMS AS REQUIRED FOR NEW CONSTRUCTION AND PROTECT EXISTING ITEMS NOTED TO REMAIN. PROTECT AND USE HAND METHODS WITHIN DRIPLINE OF THOSE EXISTING TREES THAT ARE TO REMAIN.
4. TEMPORARY SEDIMENT BARRIERS SHALL BE USED WITHIN THE CONSTRUCTION LIMITS. CONTRACTOR SHALL ADJUST AND MAINTAIN THE SEDIMENT BARRIERS DURING CONSTRUCTION TO PREVENT SEDIMENT LADEN WATER FROM LEAVING THE SITE.
5. SEE SHEETS D2.01 & D2.02 FOR TEMPORARY EROSION AND SEDIMENT CONTROL DETAILS, NOTES, CONSTRUCTION SEQUENCE NOTES, AND EROSION CONTROL SEEDING NOTES.

IMPORTANT NOTE:
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SHEET 4 OF 102
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DESIGNED	ABD	NOV. 2023
DRAWN	SAJ	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		

PROJECT ENGINEER

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION

**KOPACHUCK
STATE PARK**

**DAY USE
DEVELOPMENT**

**DEMOLITION &
T.E.S.C. KEY PLAN
& NOTES**

D1.00

SCALE
AS NOTED

PARKS FILE#

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CHECKED (HDQTS.)		

PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

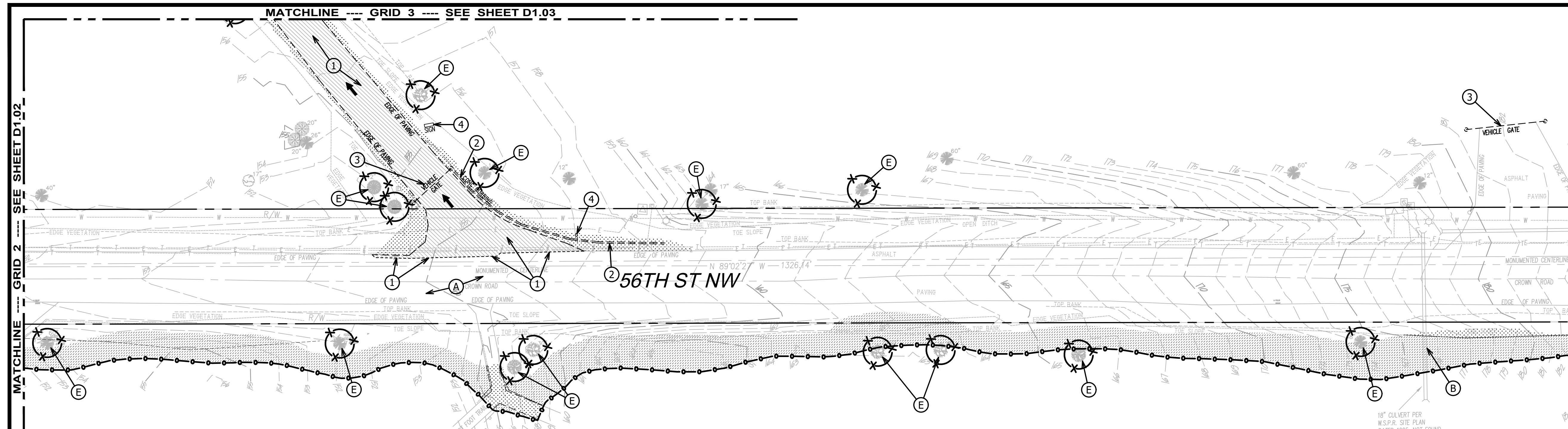
DAY USE DEVELOPMENT

DEMOLITION & T.E.S.C. PLAN GRID 1

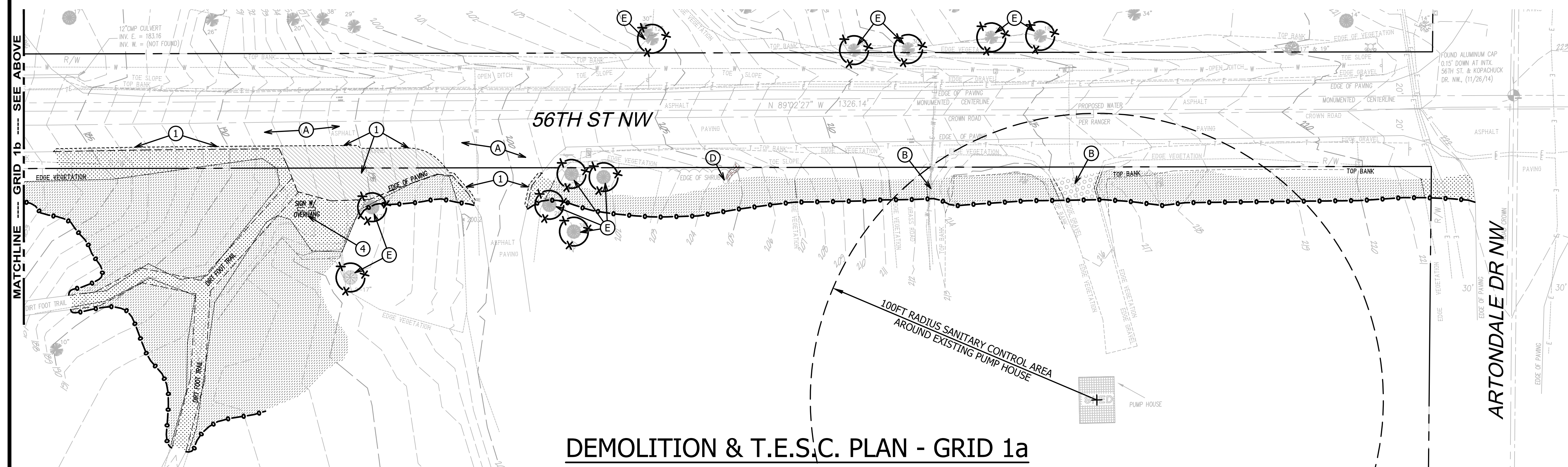
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SCALE AS NOTED

PARKS FILE#



DEMOLITION & T.E.S.C. PLAN - GRID 1b



DEMOLITION & T.E.S.C. PLAN - GRID 1a

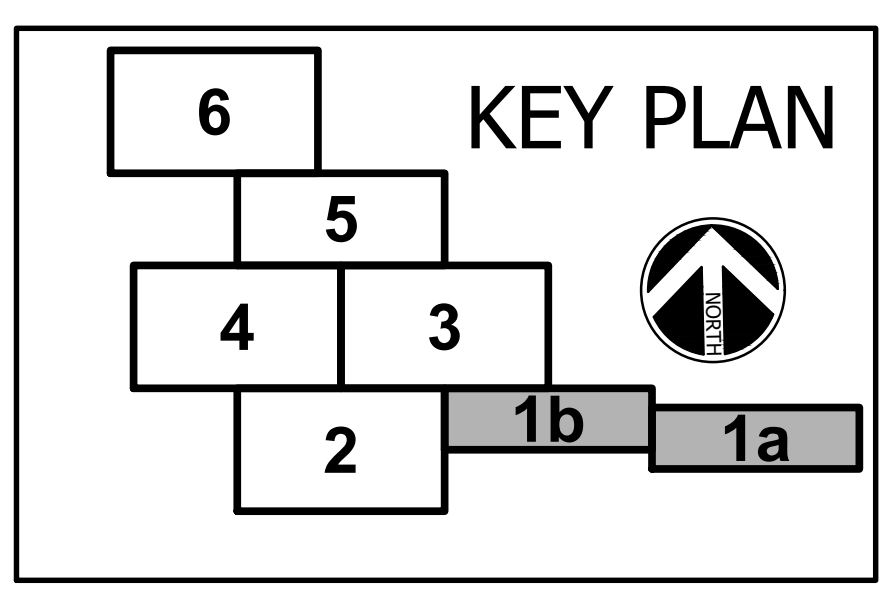
DEMOLITION & T.E.S.C. LEGEND

- TEMPORARY CONSTRUCTION / TREE PROTECTION FENCE (2 D2.02)
- TEMPORARY EROSION CONTROL SILTATION FENCE (3 D2.02)
- ASPHALT PAVING AND BASE MATERIALS TO BE REMOVED TO PROPOSED SUBGRADE (NOTE: SAWCUT EDGE WHERE REQUIRED AND PROTECT EXISTING PAVING THAT IS TO REMAIN)
- CRUSHED SURFACING (OR OTHER SURFACING MATERIALS) TO BE REMOVED TO PROPOSED SUBGRADE
- CLEAR & GRUB EXISTING MATERIALS TO PROPOSED SUBGRADE
- 'NUMBER' CALLOUT DENOTES EXISTING ITEM(S) TO BE REMOVED, (SEE SHEET D1.00 FOR COMPLETE LIST OF 'NUMBERED' CALLOUTS), DEMOLISH AND/OR SALVAGE AS NOTED
- 'LETTER' CALLOUT DENOTES EXISTING ITEM(S) TO REMAIN, (SEE SHEET D1.00 FOR COMPLETE LIST OF 'LETTERED' CALLOUTS), PROTECT FROM DAMAGE DURING CONSTRUCTION ACTIVITIES

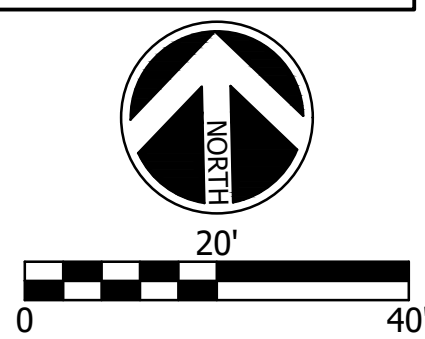
GENERAL NOTES:

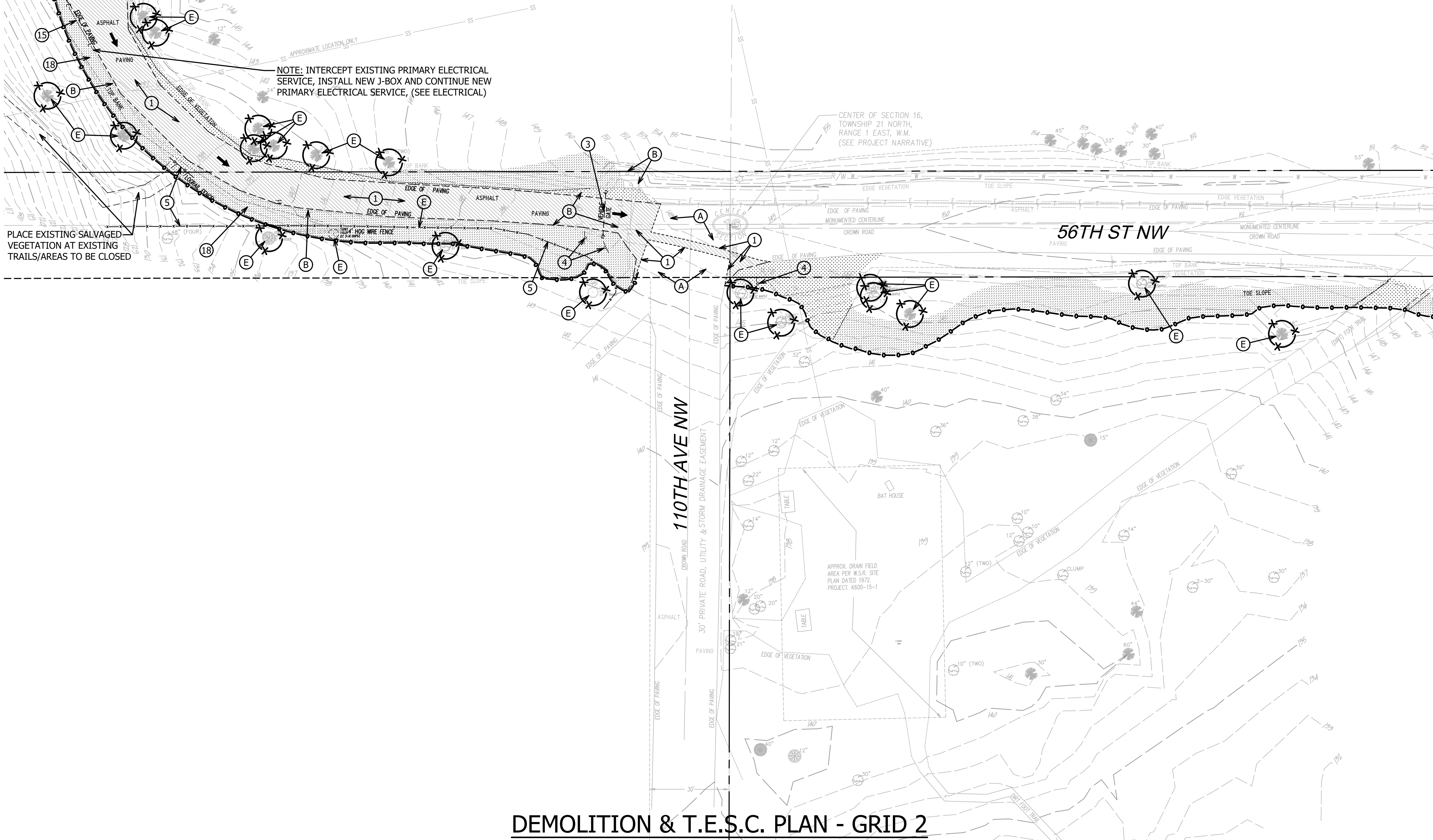
- CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATIONS PRIOR TO DEMOLITION AND CLEARING. CONTACT 'CALL BEFORE YOU DIG' AT (800) 424-5555 FOR FIELD LOCATION ASSISTANCE WITHIN THE PUBLIC RIGHT-OF-WAY, RETAIN A PRIVATE LOCATOR SERVICE TO LOCATE UTILITIES WITHIN THE PROJECT SITE.
- SEE SHEET D1.00 FOR TYPICAL DEMO./SWPPP GENERAL NOTES, TREE PRESERVATION NOTES, AND COMPLETE LISTS OF 'NUMBERED' DEMOLITION CALLOUTS & 'LETTERED' PROTECTION CALLOUTS.
- SEE SHEET D2.01 FOR STANDARD PIERCE COUNTY GENERAL NOTES, EROSION AND SEDIMENT CONTROL NOTES, RECOMMENDED CONSTRUCTION SEQUENCE NOTES, AND EROSION CONTROL SEEDING MIX NOTES.
- SEE SHEET D2.02 FOR TYPICAL DEMOLITION & T.E.S.C. DETAILS.

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NOTE: INTERCEPT EXISTING PRIMARY ELECTRICAL SERVICE, INSTALL NEW J-BOX AND CONTINUE NEW PRIMARY ELECTRICAL SERVICE, (SEE ELECTRICAL)

PLACE EXISTING SALVAGED VEGETATION AT EXISTING TRAILS/AREAS TO BE CLOSED

CENTER OF SECTION 16, TOWNSHIP 21 NORTH, RANGE 1 EAST, W.M. (SEE PROJECT NARRATIVE)

56TH ST NW

110TH AVE NW

DEMOLITION & T.E.S.C. PLAN - GRID 2

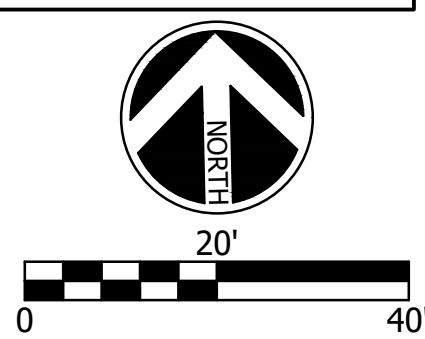
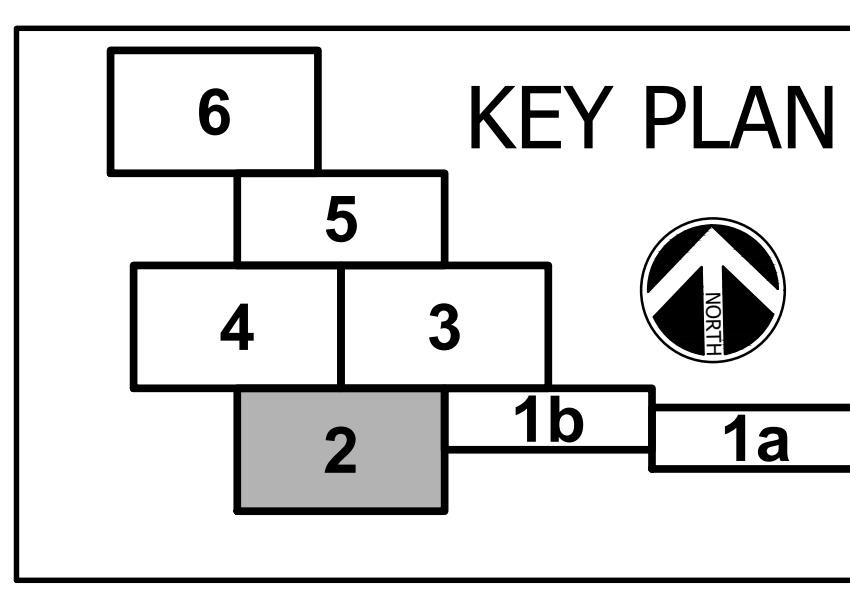
DEMOLITION & T.E.S.C. LEGEND

- TEMPORARY CONSTRUCTION / TREE PROTECTION FENCE (2) D2.02
- TEMPORARY EROSION CONTROL SILTATION FENCE (3) D2.02
- ASPHALT PAVING AND BASE MATERIALS TO BE REMOVED TO PROPOSED SUBGRADE (NOTE: SAWCUT EDGE WHERE REQUIRED AND PROTECT EXISTING PAVING THAT IS TO REMAIN)
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- 'NUMBER' CALLOUT** DENOTES EXISTING ITEM(S) TO BE REMOVED, (SEE SHEET D1.00 FOR COMPLETE LIST OF 'NUMBERED' CALLOUTS), DEMOLISH AND/OR SALVAGE AS NOTED
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GENERAL NOTES:

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4. SEE SHEET D2.02 FOR TYPICAL DEMOLITION & T.E.S.C. DETAILS.

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SHEET 6 OF 102
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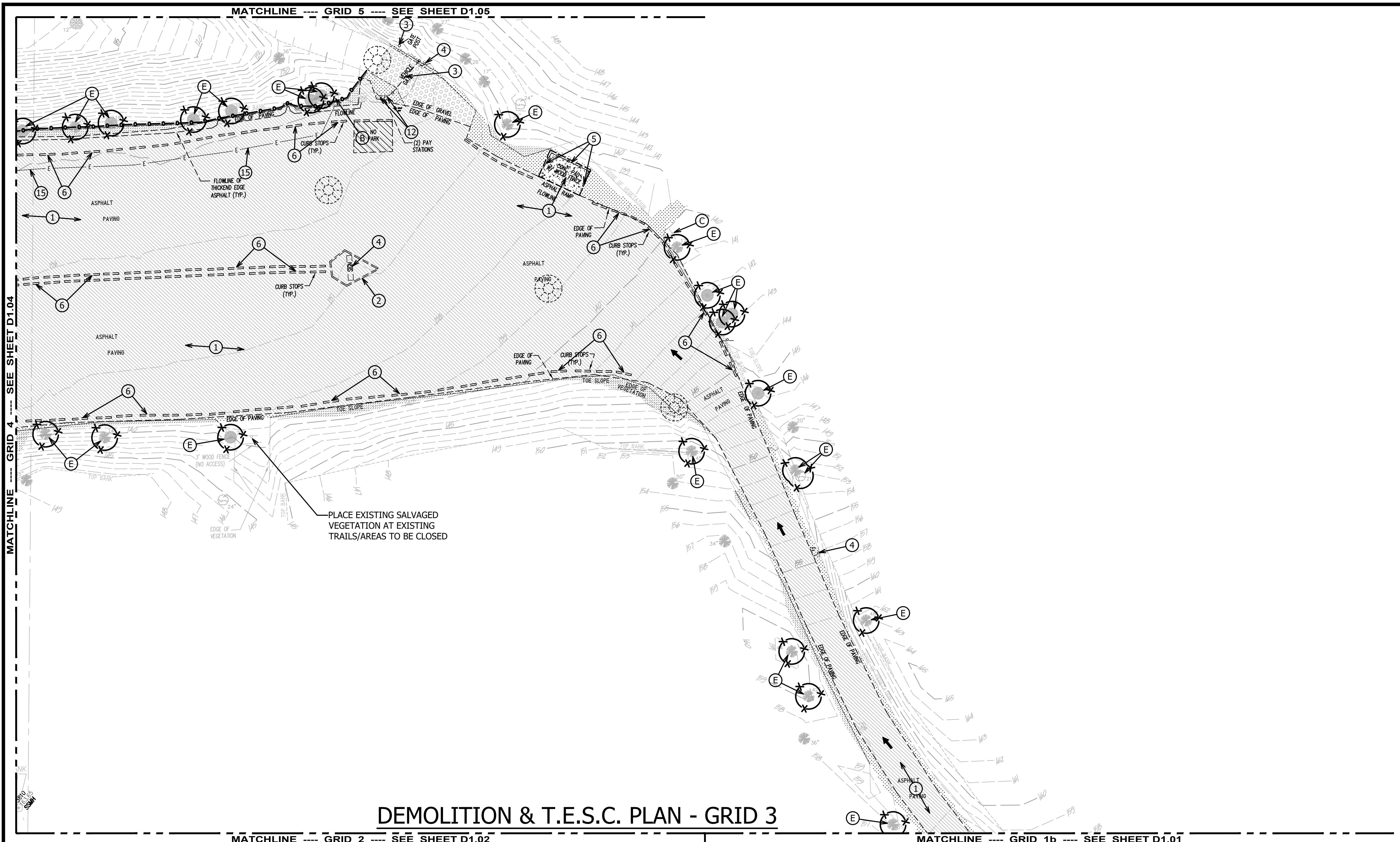
DAY USE DEVELOPMENT

DEMOLITION & T.E.S.C. PLAN GRID 2

D1.02

SCALE AS NOTED

PARKS FILE#



DEMOLITION & T.E.S.C. PLAN - GRID 3

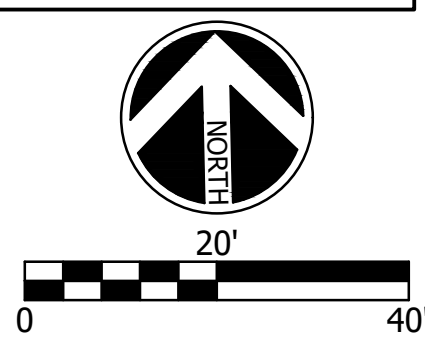
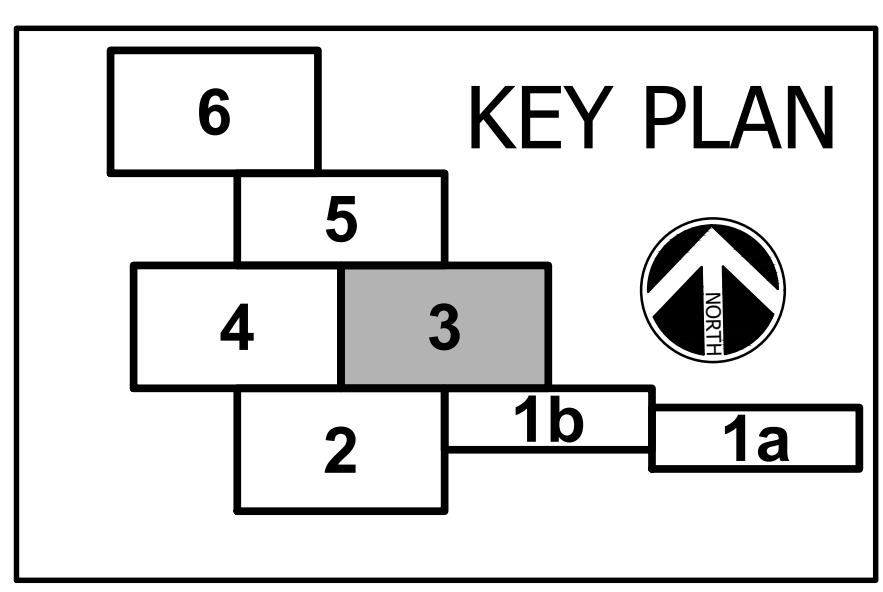
DEMOLITION & T.E.S.C. LEGEND

	TEMPORARY CONSTRUCTION / TREE PROTECTION FENCE		2	D2.02	CLEAR & GRUB EXISTING VEGETATION AND STRIP AS REQUIRED TO LIMITS SHOWN, PRESERVE AND PROTECT ANY EXISTING PLANT MATERIALS NOTED AS TO REMAIN, PLACE MATERIALS AT EXISTING VOLUNTEER TRAILS TO BE CLOSED OR OTHER BARE AREAS OUTSIDE LIMITS OF NEW CONSTRUCTION WHERE NOTED AND/OR WHERE DIRECTED BY OWNER
	TEMPORARY EROSION CONTROL SILTATION FENCE		3	D2.02	
	TEMPORARY CATCH BASIN / MANHOLE SEDIMENT BARRIER		4	D2.02	
	CONCRETE PAVING AND BASE MATERIALS TO BE REMOVED TO PROPOSED SUBGRADE (NOTE: SAWCUT AS REQUIRED)		5		
	ASPHALT PAVING AND BASE MATERIALS TO BE REMOVED TO PROPOSED SUBGRADE (NOTE: SAWCUT EDGE WHERE REQUIRED AND PROTECT EXISTING PAVING THAT IS TO REMAIN)		E		
	CRUSHED SURFACING (OR OTHER SURFACING MATERIALS) TO BE REMOVED TO PROPOSED SUBGRADE				'NUMBER' CALLOUT DENOTES EXISTING ITEM(S) TO BE REMOVED, (SEE SHEET D1.00 FOR COMPLETE LIST OF 'NUMBERED' CALLOUTS), DEMOLISH AND/OR SALVAGE AS NOTED
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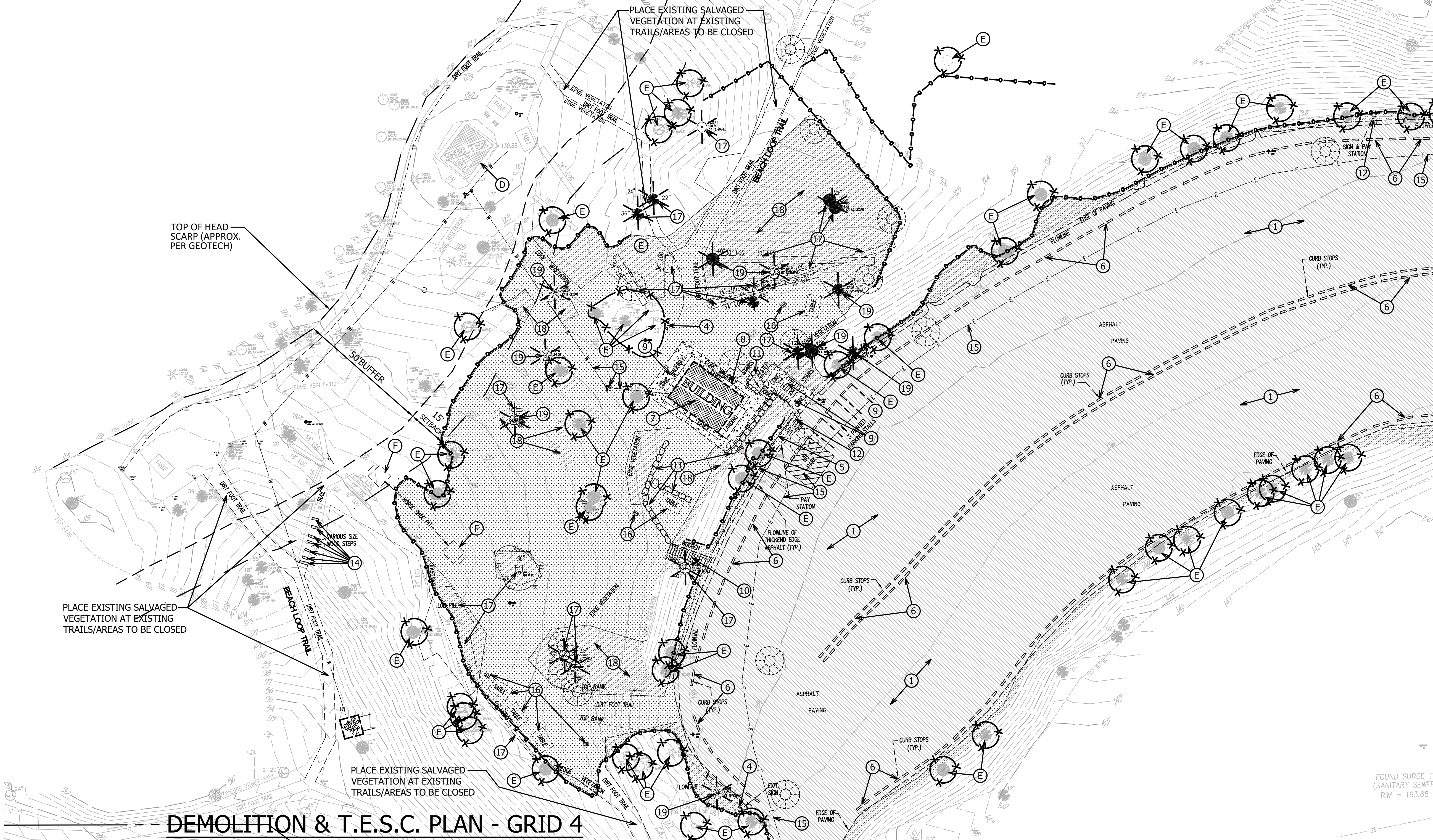
DAY USE
DEVELOPMENT

DEMOLITION &
T.E.S.C. PLAN
GRID 3

D1.03

SCALE
AS NOTED

PARKS FILE#



DEMOLITION & T.E.S.C. PLAN - GRID 4

DEMOLITION & T.E.S.C. LEGEND

- TEMPORARY CONSTRUCTION / TREE PROTECTION FENCE (2) D2.02
- TEMPORARY EROSION CONTROL SILTATION FENCE (3) D2.02
- TEMPORARY CATCH BASIN / MANHOLE SEDIMENT BARRIER (4) D2.02
- CONCRETE PAVING AND BASE MATERIALS TO BE REMOVED TO PROPOSED SUBGRADE (NOTE: SAWCUT AS REQUIRED)
- ASPHALT PAVING AND BASE MATERIALS TO BE REMOVED TO PROPOSED SUBGRADE (NOTE: SAWCUT EDGE WHERE REQUIRED AND PROTECT EXISTING PAVING THAT IS TO REMAIN)
- CLEAR & GRUB EXISTING MATERIALS TO PROPOSED SUBGRADE

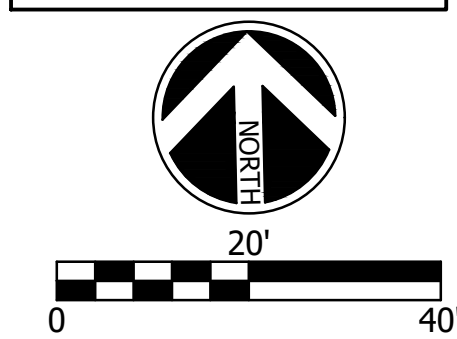
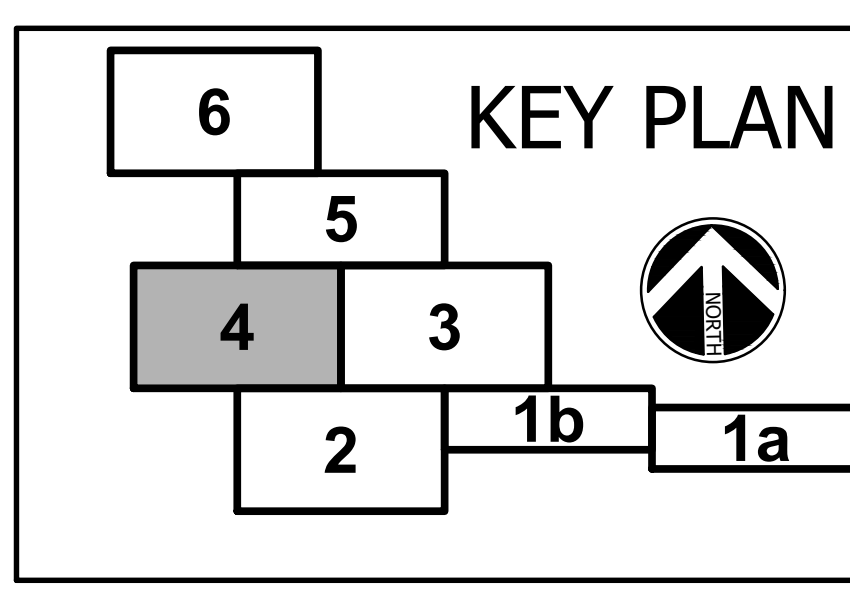
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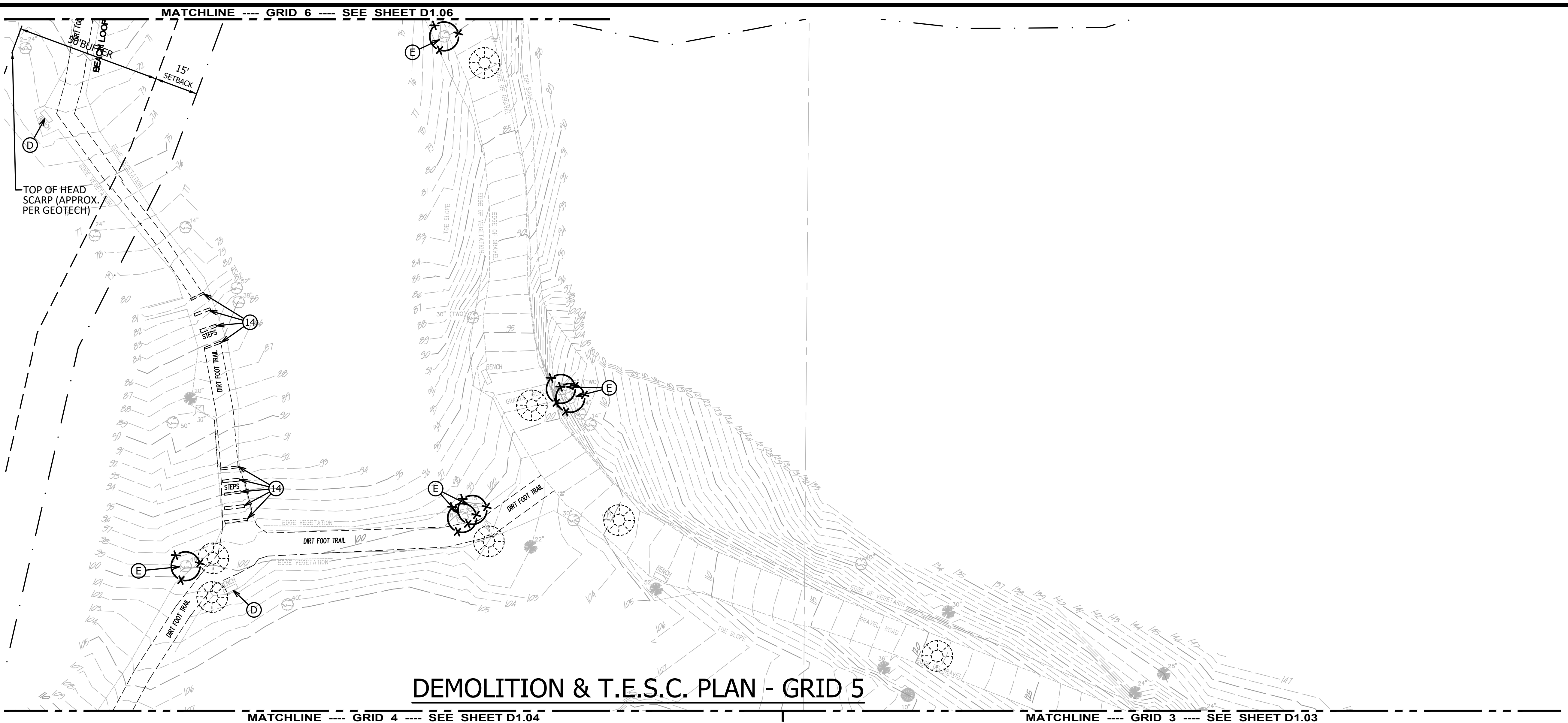
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DEMOLITION &
T.E.S.C. PLAN
GRID 4

D1.04

SCALE
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DEMOLITION & T.E.S.C. PLAN - GRID 5

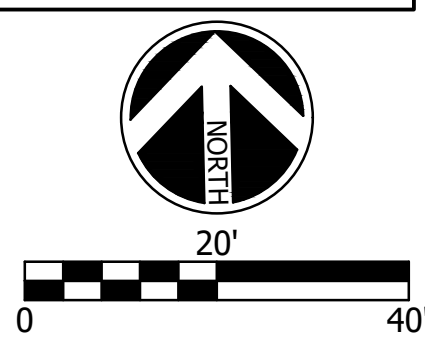
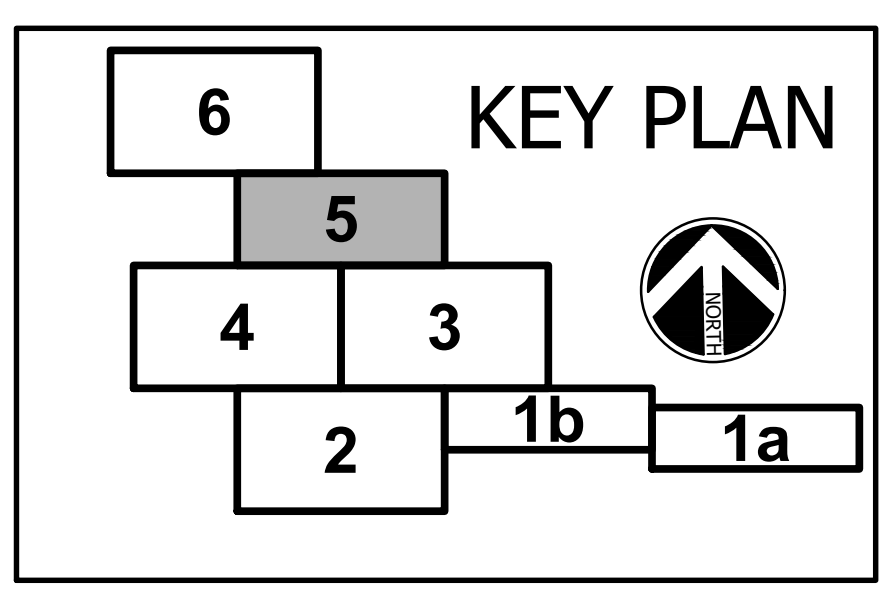
DEMOLITION & T.E.S.C. LEGEND

- TEMPORARY CONSTRUCTION / TREE PROTECTION FENCE
 - TEMPORARY EROSION CONTROL SILTATION FENCE
 - TEMPORARY CATCH BASIN / MANHOLE SEDIMENT BARRIER
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- SEE SHEET D2.02 FOR TYPICAL DEMOLITION & T.E.S.C. DETAILS.

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SHEET 9 OF 102
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CHECKED (HDQTS.)		

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

DEMOLITION & T.E.S.C. PLAN GRID 5

D1.05

SCALE: **AS NOTED**

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WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

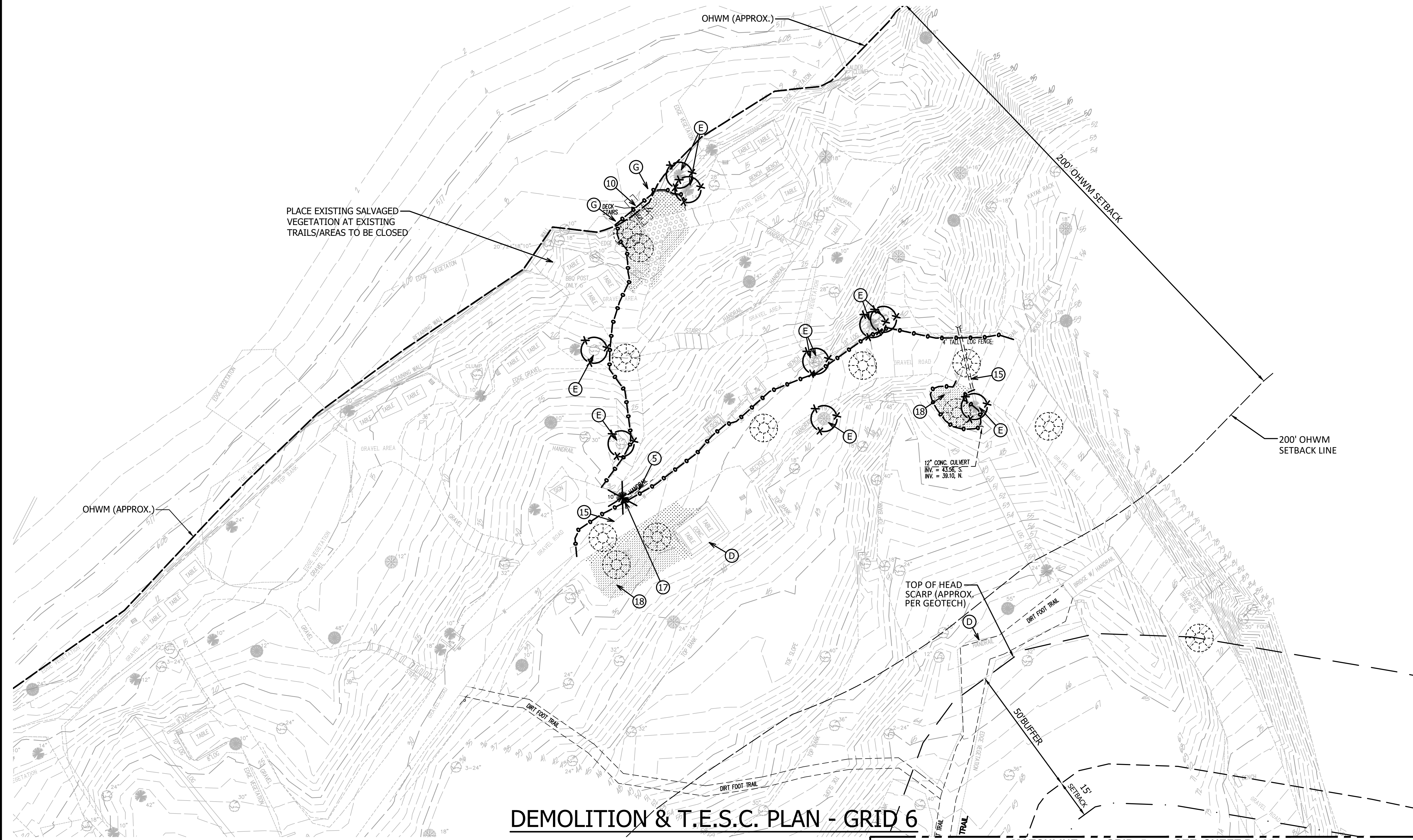
DAY USE DEVELOPMENT

DEMOLITION & T.E.S.C. PLAN GRID 6

D1.06

SCALE AS NOTED

PARKS FILE#



DEMOLITION & T.E.S.C. PLAN - GRID 6

MATCHLINE GRID 5 SEE SHEET D1.05

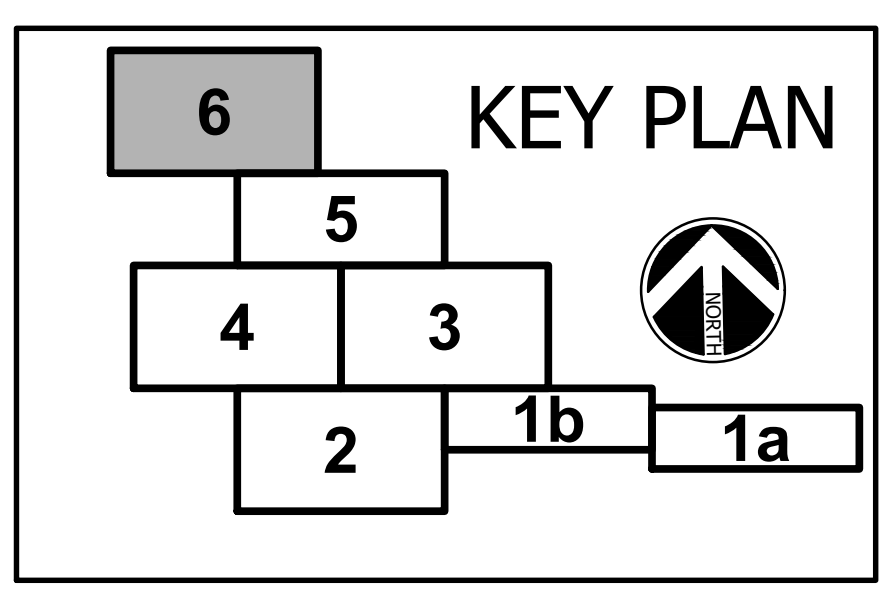
DEMOLITION & T.E.S.C. LEGEND

	2	D2.02	CLEAR & GRUB EXISTING VEGETATION AND STRIP AS REQUIRED TO LIMITS SHOWN, PRESERVE AND PROTECT ANY EXISTING PLANT MATERIALS NOTED AS TO REMAIN, PLACE MATERIALS AT EXISTING VOLUNTEER TRAILS TO BE CLOSED OR OTHER BARE AREAS OUTSIDE LIMITS OF NEW CONSTRUCTION WHERE NOTED AND/OR WHERE DIRECTED BY OWNER
	3		
	4	D2.02	<p>'NUMBER' CALLOUT DENOTES EXISTING ITEM(S) TO BE REMOVED, (SEE SHEET D1.00 FOR COMPLETE LIST OF 'NUMBERED' CALLOUTS), DEMOLISH AND/OR SALVAGE AS NOTED</p> <p>'LETTER' CALLOUT DENOTES EXISTING ITEM(S) TO REMAIN, (SEE SHEET D1.00 FOR COMPLETE LIST OF 'LETTERED' CALLOUTS), PROTECT FROM DAMAGE DURING CONSTRUCTION ACTIVITIES</p>
	5		
	E		

GENERAL NOTES:

- CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATIONS PRIOR TO DEMOLITION AND CLEARING. CONTACT 'CALL BEFORE YOU DIG' AT (800) 424-5555 FOR FIELD LOCATION ASSISTANCE WITHIN THE PUBLIC RIGHT-OF-WAY, RETAIN A PRIVATE LOCATOR SERVICE TO LOCATE UTILITIES WITHIN THE PROJECT SITE.
- SEE SHEET D1.00 FOR TYPICAL DEMO./SWPPP GENERAL NOTES, TREE PRESERVATION NOTES, AND COMPLETE LISTS OF 'NUMBERED' DEMOLITION CALLOUTS & 'LETTERED' PROTECTION CALLOUTS.
- SEE SHEET D2.01 FOR STANDARD PIERCE COUNTY GENERAL NOTES, EROSION AND SEDIMENT CONTROL NOTES, RECOMMENDED CONSTRUCTION SEQUENCE NOTES, AND EROSION CONTROL SEEDING MIX NOTES.
- SEE SHEET D2.02 FOR TYPICAL DEMOLITION & T.E.S.C. DETAILS.

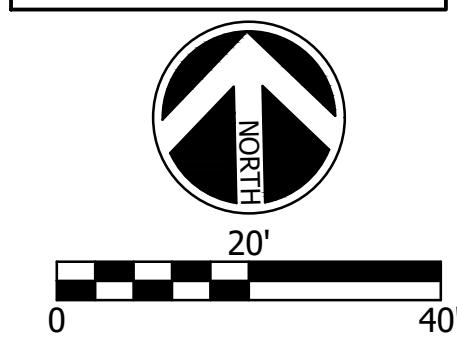
IMPORTANT NOTE:
PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE WORK NECESSARY TO COMPLETE CONSTRUCTION UNDER THIS CONTRACT AS SHOWN AND SPECIFIED ON THESE PLANS.

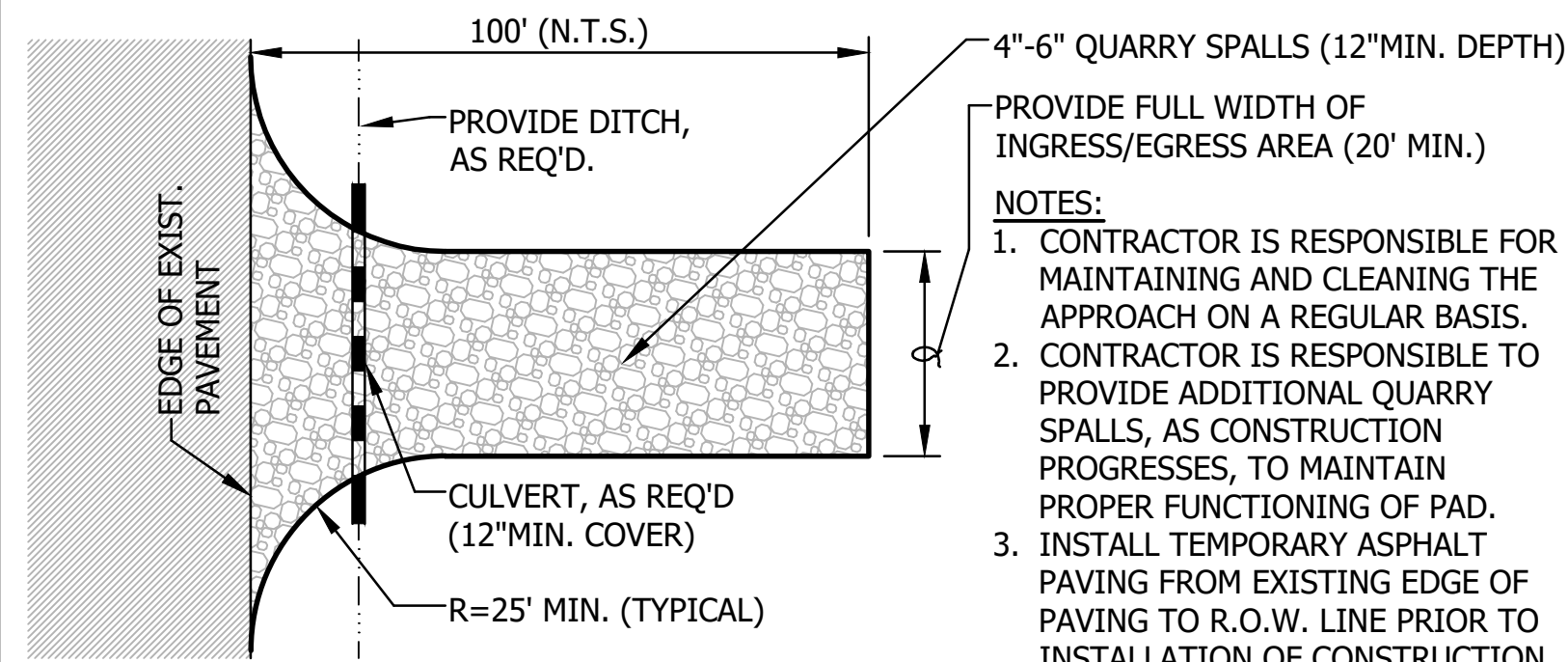


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SHEET 10 OF 102

BID SET



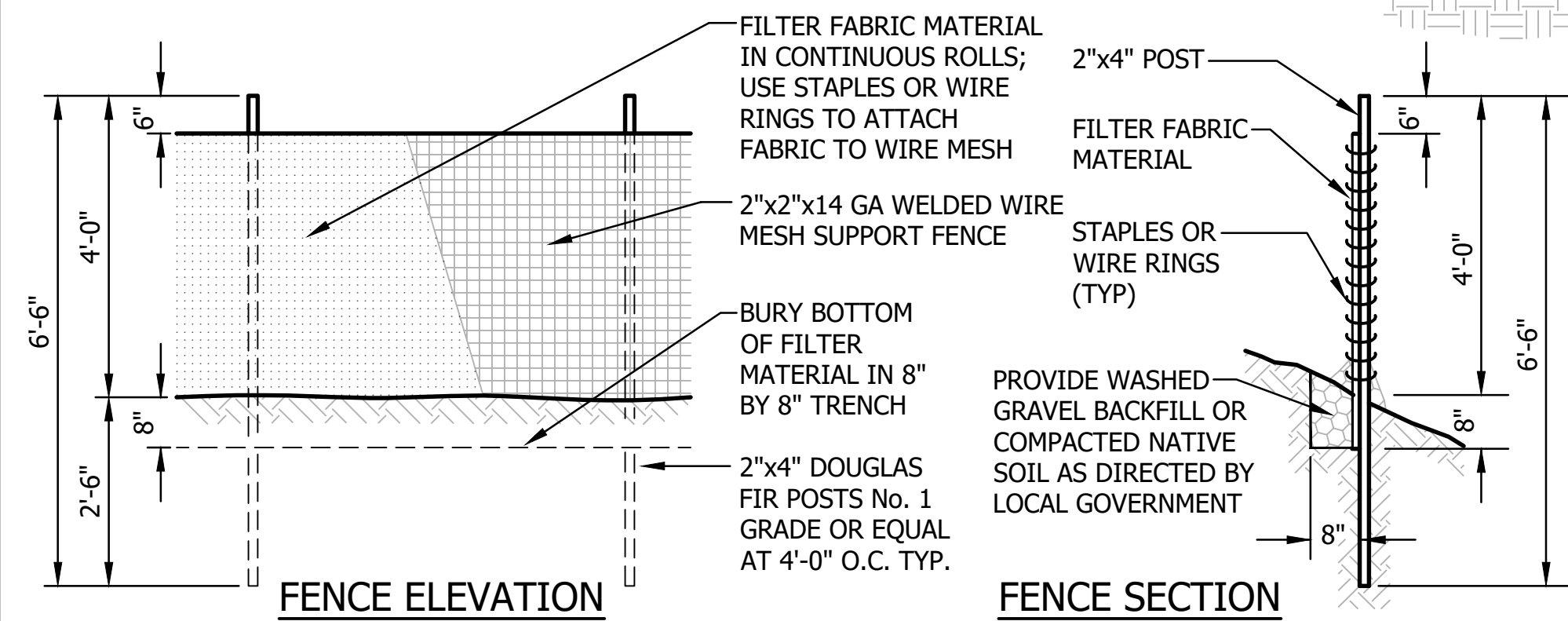


MAINTENANCE STANDARDS NOTES:

1. QUARRY SPALLS SHALL BE ADDED IF THE PAD IS NO LONGER IN ACCORDANCE WITH THE SPECS.
2. IF THE ENTRANCE IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT, THEN ALTERNATIVE MEASURES TO KEEP THE STREETS FREE OF SEDIMENT SHALL BE USED. THIS MAY INCLUDE STREET SWEEPING, AN INCREASE IN THE DIMENSIONS OF THE ENTRANCE, OR THE INSTALLATION OF A WHEEL WASH. IF WASHING IS USED, IT SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK, AND WASH WATER SHALL DRAIN TO A SEDIMENT TRAP OR POND.
3. ANY SEDIMENT THAT IS TRACKED ONTO PAVEMENT SHALL BE REMOVED IMMEDIATELY BY SWEEPING. THE PAVEMENT SHALL NOT BE CLEANED BY WASHING DOWN THE STREET, EXCEPT WHEN SWEEPING IS INEFFECTIVE AND THERE IS A THREAT TO PUBLIC SAFETY. IF IT IS NECESSARY TO WASH THE STREETS, THE CONSTRUCTION OF A SMALL SUMP SHALL BE CONSIDERED. THE SEDIMENT WOULD THEN BE WASHED INTO THE SUMP.
4. ANY QUARRY SPALLS THAT ARE LOOSENED FROM THE PAD AND END UP ON THE ROADWAY SHALL BE REMOVED IMMEDIATELY.
5. IF VEHICLES ARE ENTERING OR EXITING THE SITE AT POINTS OTHER THAN THE CONSTRUCTION ENTRANCE, FENCING SHALL BE INSTALLED TO CONTROL TRAFFIC.

1 STABILIZED CONSTRUCTION ENTRANCE

D1.0* NOT TO SCALE



MAINTENANCE STANDARDS NOTES:

1. ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY.
2. IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT TRAP OR POND.
3. IT IS IMPORTANT TO CHECK THE UPHILL SIDE OF THE FENCE FOR SIGNS OF THE FENCE CLOGGING AND ACTING AS A BARRIER TO FLOW AND THEN CAUSING CHANNELIZATION OF FLOWS PARALLEL TO THE FENCE. IF THIS OCCURS, REPLACE THE FENCE OR REMOVE THE TRAPPED SEDIMENT.
4. SEDIMENT MUST BE REMOVED WHEN THE SEDIMENT IS 6 INCHES HIGH.
5. IF THE FILTER FABRIC (GEOTEXTILE) HAS DETERIORATED DUE TO ULTRAVIOLET BREAKDOWN, IT SHALL BE REPLACED.

3 TEMPORARY EROSION CONTROL SILT FENCE

D1.0* 1/2" = 1'-0" ON FULL SIZE (34"x22")

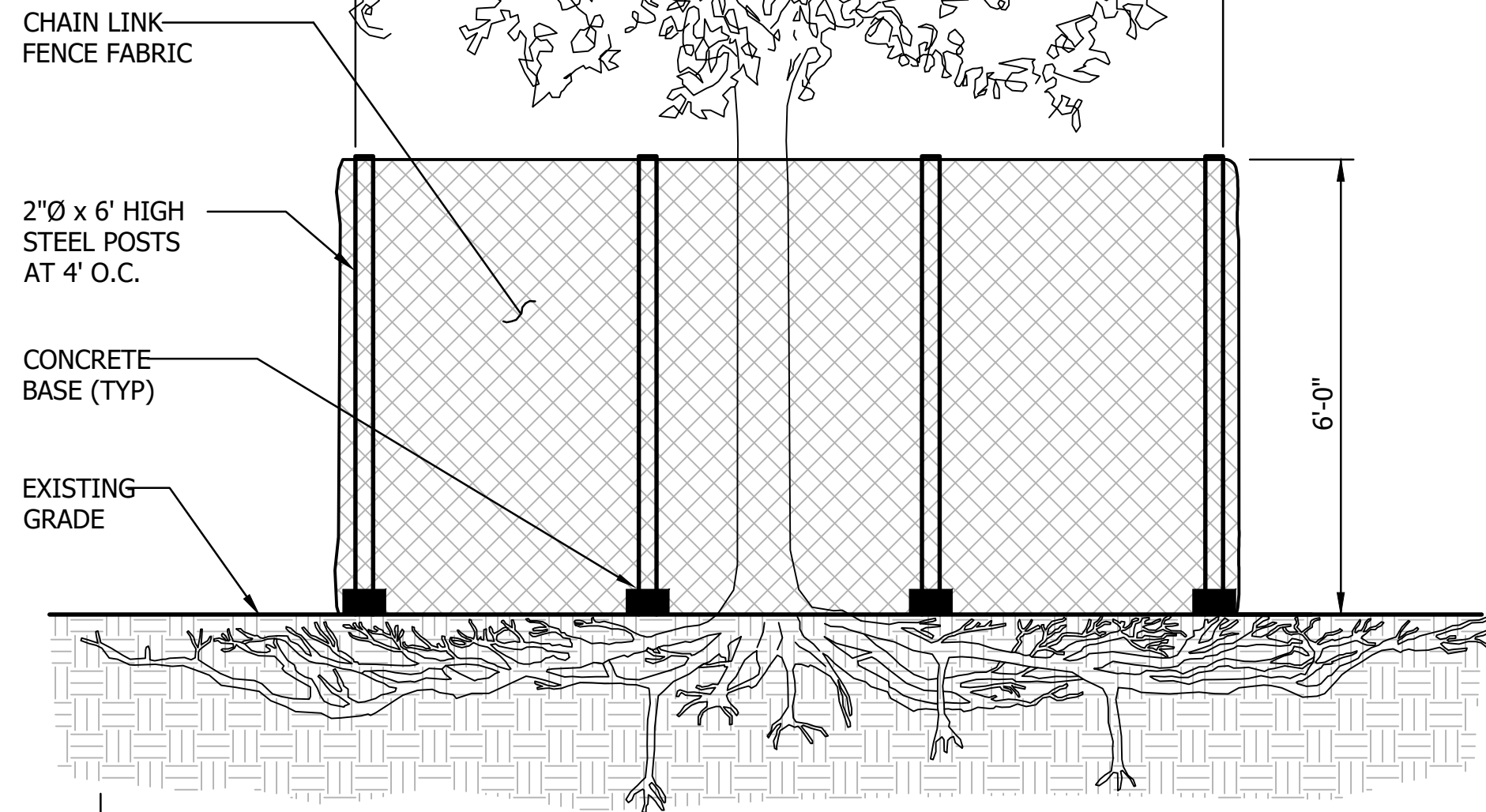
MAINTENANCE STANDARDS NOTES:

1. ANY ACCUMULATED SEDIMENT ON OR AROUND THE FILTER FABRIC PROTECTION SHALL BE REMOVED IMMEDIATELY. SEDIMENT SHALL NOT BE REMOVED WITH WATER, AND ALL SEDIMENT MUST BE DISPOSED OF AS FILL ON SITE OR HAULED OFF SITE.
2. ANY SEDIMENT IN THE CATCH BASIN / TRENCH DRAIN INSERT SHALL BE REMOVED WHEN THE SEDIMENT HAS FILLED ONE-THIRD OF THE AVAILABLE STORAGE. THE FILTER MEDIA FOR THE INSERT SHALL BE CLEANED OR REPLACED AT LEAST MONTHLY.
3. REGULAR MAINTENANCE IS CRITICAL FOR BOTH FORMS OF CATCH BASIN PROTECTION. UNLIKE MANY FORMS OF PROTECTION THAT FAIL GRADUALLY, CATCH BASIN PROTECTION WILL FAIL SUDDENLY AND COMPLETELY IF NOT MAINTAINED PROPERLY.

4 TEMPORARY CATCH BASIN / MANHOLE SEDIMENT BARRIER

D1.0* NOT TO SCALE

- TREE PROTECTION NOTES:**
1. SEE SPECIFICATIONS FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.
 2. NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.
 3. NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.

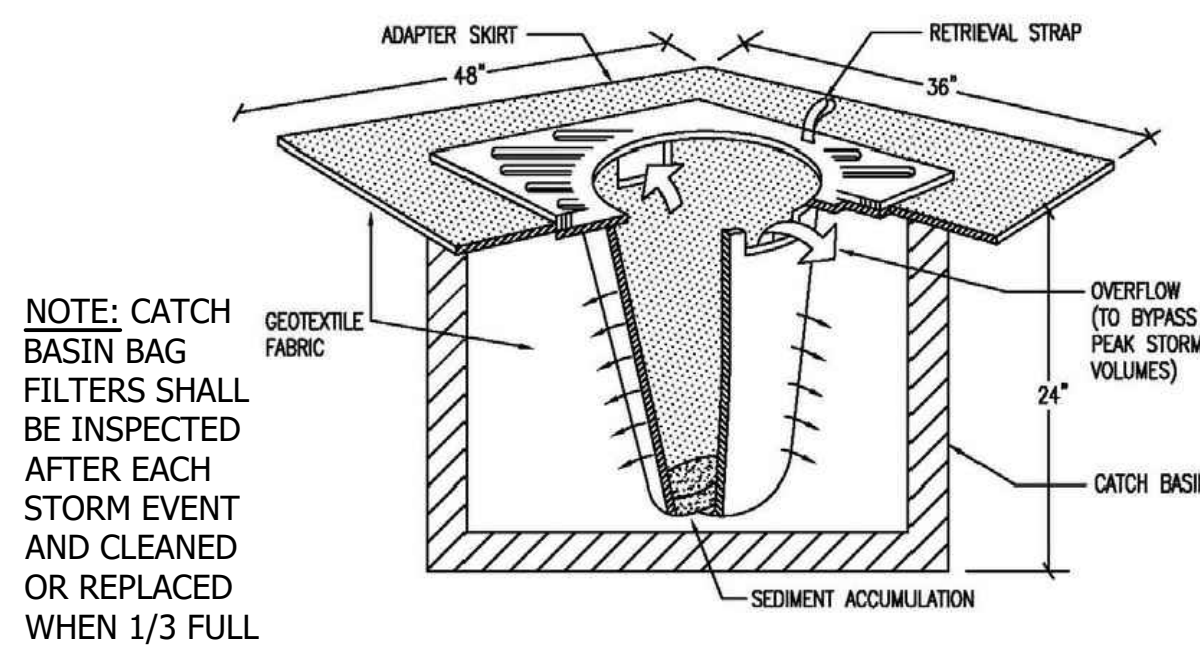


MAINTENANCE STANDARDS NOTES:

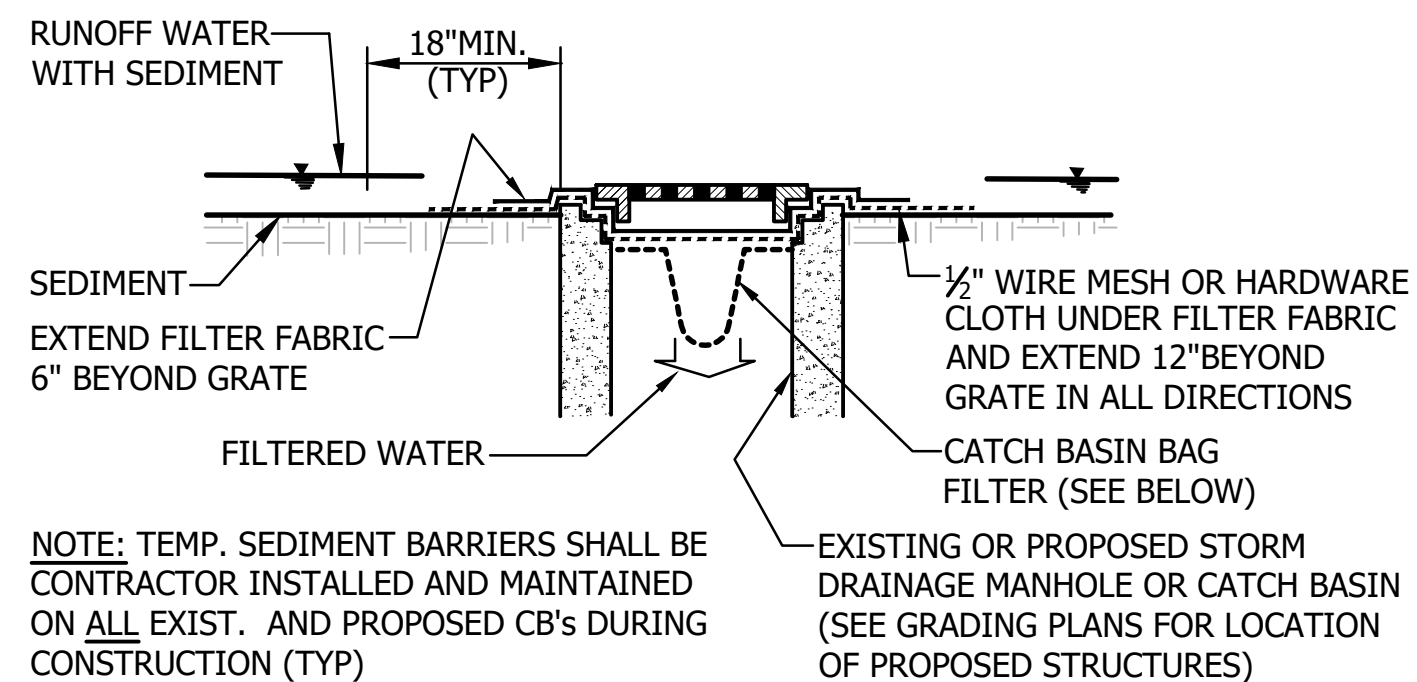
1. IF THE FENCE HAS BEEN DAMAGED OR VISIBILITY REDUCED, IT SHALL BE REPAIRED OR REPLACED IMMEDIATELY AND VISIBILITY RESTORED.
2. DISTURBANCE OF A CRITICAL AREA, CRITICAL AREA BUFFER, NATIVE GROWTH RETENTION AREA, OR OTHER AREA REQUIRED TO BE LEFT UNDISTURBED SHALL BE REPORTED TO THE COUNTY FOR RESOLUTION.

2 TEMPORARY CONSTRUCTION / TREE PROTECTION FENCE

D1.0* 1/2" = 1'-0" ON FULL SIZE (34"x22")



CATCH BASIN / TRENCH DRAIN BAG FILTER



GRAVEL & WIRE MESH FILTER

STANDARD EROSION CONTROL NOTES:

1. ON-SITE EROSION CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE DEVELOPER. ANY PROBLEMS OCCURRING BEFORE FINAL ACCEPTANCE OF THE STORM SYSTEM BY THE MUNICIPALITY SHALL BE CORRECTED BY THE APPLICANT AND/OR THE CONTRACTOR.
 2. IN CASE EROSION OR SEDIMENTATION OCCURS TO ADJACENT PROPERTY, ALL CONSTRUCTION WORK WITHIN THE DEVELOPMENT THAT WILL AGGRAVATE THE SITUATION MUST CEASE AND THE APPLICANT/CONTRACTOR SHALL IMMEDIATELY COMMENCE RESTORATION OR MITIGATION MEASURES. RESTORATION ACTIVITY SHALL CONTINUE UNTIL SUCH TIME AS THE PROBLEM IS RECTIFIED.
 3. ALL EROSION AND SEDIMENTATION CONTROL DEVICES SHOWN ON THIS DRAWING SHALL BE INSTALLED PRIOR TO OR AS THE FIRST STAGE OF SITE PREPARATION.
 4. SHOULD THE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AS SHOWN ON THIS DRAWING NOT PROVE ADEQUATE TO CONTROL EROSION AND SEDIMENTATION, THE APPLICANT/CONTRACTOR SHALL INSTALL ADDITIONAL FACILITIES AS NECESSARY TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES, AND/OR STORM DRAINAGE SYSTEMS.
 5. IN ANY AREA WHICH HAS BEEN STRIPPED OF VEGETATION OR EXPERIENCED LAND DISTURBING ACTIVITIES AND WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD EXCEEDING THE LISTED CRITERIA, ALL DISTURBED AREAS MUST BE IMMEDIATELY STABILIZED WITH MULCHING, GRASS PLANTING, OR OTHER APPROVED EROSION CONTROL TREATMENT APPLICABLE TO THE TIME OF YEAR IN QUESTIONS. GRASS SEEDING ALONE WILL BE ACCEPTABLE ONLY DURING THE MONTHS OF APRIL THROUGH SEPTEMBER, INCLUSIVE. SEEDING MAY PROCEED, HOWEVER, WHENEVER IT IS IN THE INTEREST OF THE APPLICANT/CONTRACTOR, BUT MUST BE AUGMENTED WITH MULCHING, NETTING OR OTHER TREATMENT.
- CRITERIA FOR EXPOSURE OF DISTURBED SURFACES FROM CHAPTER 8 OF THE PIERCE COUNTY STORMWATER MANAGEMENT MANUAL SHALL BE LISTED HERE BY THE ENGINEER.
6. THE PROJECT ENGINEER OR PROJECT SURVEYOR WILL BE RESPONSIBLE FOR FIELD LOCATING THE CLEARING LIMITS AND ESTABLISHING THOSE BOUNDARIES WITH BRIGHT COLORED FLAGGING. THE CONTRACTOR SHALL CLEAR TO THE LIMITS AS ESTABLISHED ON THIS PLAN AND AS FLAGGED IN THE FIELD.
 7. THE COUNTY SHALL BE RESPONSIBLE FOR THE INSPECTION AND ACCEPTANCE OF ALL CLEARING AND GRADING WORK AND EROSION AND SEDIMENTATION CONTROL FACILITIES. THE APPLICANT AND/OR CONTRACTOR SHALL NOTIFY THE COUNTY FORTY-EIGHT HOURS IN ADVANCE OF EACH REQUIRED EROSION AND SEDIMENT CONTROL INSPECTION.

- INSPECTION NO. 1 - INSTALLATION OF EROSION CONTROL FACILITIES/PRIOR TO CLEARING.
 INSPECTION NO. 2 - COMPLETION OF CLEARING.
 INSPECTION NO. 3 - UPON COMPLETION OF EXCAVATION, FILLING, AND EARTHWORK.
 INSPECTION NO. 4 - COMPLETION OF PROJECT.
 INSPECTION NO. 5 - AS NEEDED TO DETERMINE COMPLIANCE WITH APPROVED PLANS AND/OR SPECIFICATIONS. (DOES NOT REQUIRE ADVANCE NOTICE.)

8. ALL WORK ASSOCIATED WITH STABILIZING THE DISTURBED AREAS SHALL BE IN ACCORDANCE WITH THE PIERCE COUNTY STORMWATER MANAGEMENT MANUAL.
9. ALL NECESSARY FACILITIES SHALL BE MAINTAINED ON SITE TO PREVENT DEBRIS, DUST, AND MUD FROM ACCUMULATING ON THE PUBLIC RIGHT-OF-WAY.

STANDARD SILT FENCE NOTES:

1. FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL AND CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY FASTENED AT BOTH ENDS TO POSTS.
2. POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 30 INCHES).
3. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 8 INCHES WIDE AND 12 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER. THIS TRENCH SHALL BE BACKFILLED WITH WASHED GRAVEL.
4. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 4 INCHES AND SHALL NOT EXTEND MORE THAN 24 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
5. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 20 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 24 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
6. WHEN EXTRA-STRENGTH FILTER FABRIC AND CLOSER POST SPACING IS USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ABOVE NOTES APPLYING.
7. FILTER FABRIC FENCES SHALL NOT BE REMOVED BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
8. FILTER FABRIC FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
9. SILT FENCES WILL BE INSTALLED PARALLEL TO ANY SLOPE CONTOURS.
10. CONTRIBUTING LENGTH TO FENCE WILL NOT BE GREATER THAN 100 FEET.
11. DO NOT INSTALL BELOW AN OUTLET PIPE OR WEIR.
12. INSTALL DOWNSLOPE OF EXPOSED AREAS.
13. DO NOT DRIVE OVER OR FILL OVER SILT FENCES.

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	DATE
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	INT.
	REVISIONS
	NO.

ACTION	BY	DATE
DESIGNED	ABD	NOV. 2023
DRAWN	SAJ	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		

PROFESSIONAL ENGINEER
 SHAWN ALLAN JENSEN
 LICENSE No. 1408
 EXPIRES ON 04/04/2025
 PROJECT ENGINEER

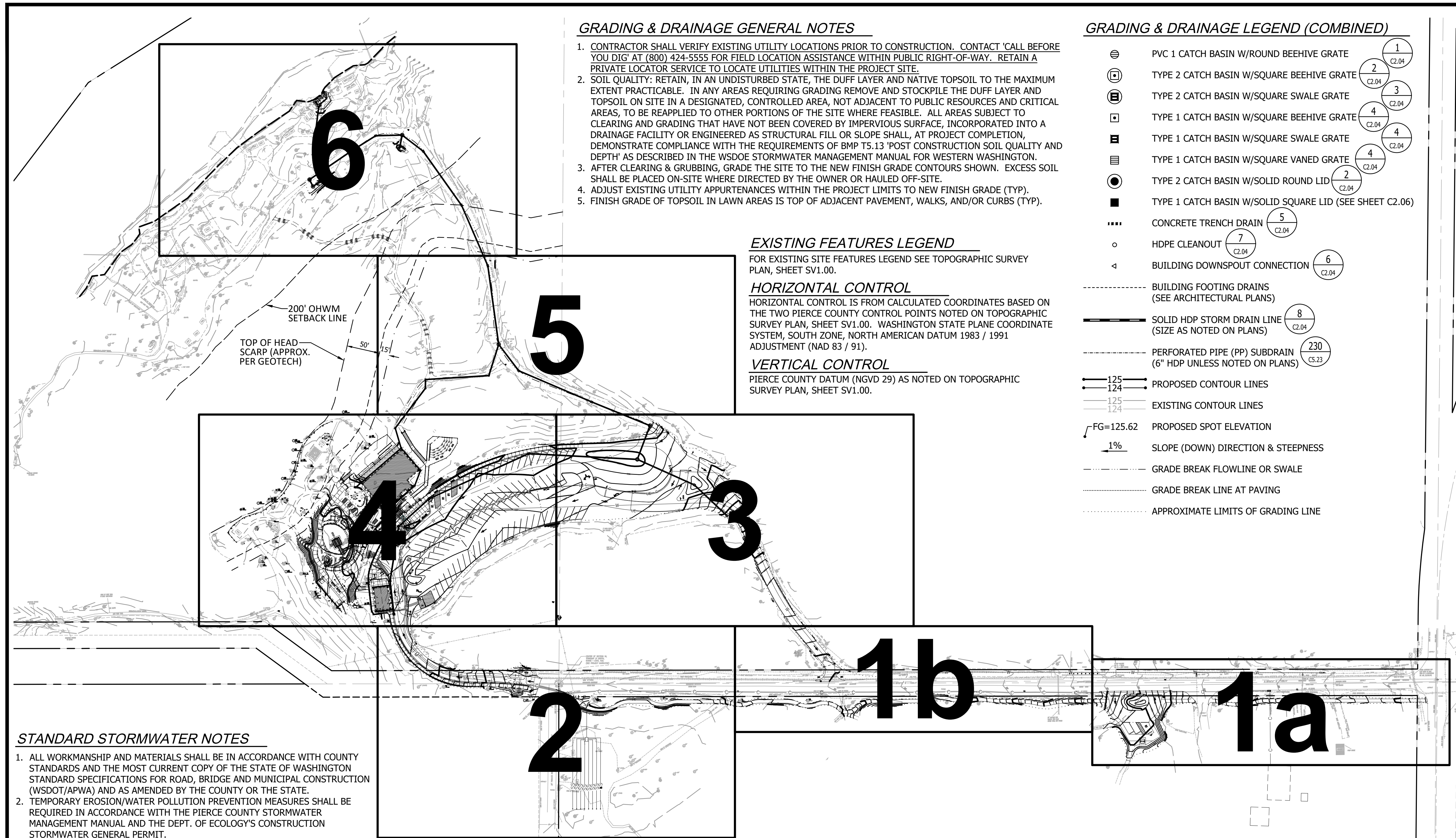
WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

DEMOLITION & T.E.S.C. DETAILS

D2.02



GRADING & DRAINAGE GENERAL NOTES

- CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION. CONTACT 'CALL BEFORE YOU DIG' AT (800) 424-5555 FOR FIELD LOCATION ASSISTANCE WITHIN PUBLIC RIGHT-OF-WAY. RETAIN A PRIVATE LOCATOR SERVICE TO LOCATE UTILITIES WITHIN THE PROJECT SITE.
- SOIL QUALITY: 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. 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 COMPLIANCE WITH THE REQUIREMENTS OF BMP T5.13 'POST CONSTRUCTION SOIL QUALITY AND DEPTH' AS DESCRIBED IN THE WSDOE STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON.
- AFTER CLEARING & GRUBBING, GRADE THE SITE TO THE NEW FINISH GRADE CONTOURS SHOWN. EXCESS SOIL SHALL BE PLACED ON-SITE WHERE DIRECTED BY THE OWNER OR HAULED OFF-SITE.
- ADJUST EXISTING UTILITY APPURTENANCES WITHIN THE PROJECT LIMITS TO NEW FINISH GRADE (TYP).
- FINISH GRADE OF TOPSOIL IN LAWN AREAS IS TOP OF ADJACENT PAVEMENT, WALKS, AND/OR CURBS (TYP).

EXISTING FEATURES LEGEND

FOR EXISTING SITE FEATURES LEGEND SEE TOPOGRAPHIC SURVEY PLAN, SHEET SV1.00.

HORIZONTAL CONTROL

HORIZONTAL CONTROL IS FROM CALCULATED COORDINATES BASED ON THE TWO PIERCE COUNTY CONTROL POINTS NOTED ON TOPOGRAPHIC SURVEY PLAN, SHEET SV1.00. WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM 1983 / 1991 ADJUSTMENT (NAD 83 / 91).

VERTICAL CONTROL

PIERCE COUNTY DATUM (NGVD 29) AS NOTED ON TOPOGRAPHIC SURVEY PLAN, SHEET SV1.00.

GRADING & DRAINAGE LEGEND (COMBINED)

- ⊖ PVC 1 CATCH BASIN W/ROUND BEEHIVE GRATE (1 C2.04)
- ⊖ TYPE 2 CATCH BASIN W/SQUARE BEEHIVE GRATE (2 C2.04)
- ⊖ TYPE 2 CATCH BASIN W/SQUARE SWALE GRATE (3 C2.04)
- ⊖ TYPE 1 CATCH BASIN W/SQUARE BEEHIVE GRATE (4 C2.04)
- ⊖ TYPE 1 CATCH BASIN W/SQUARE SWALE GRATE (4 C2.04)
- ⊖ TYPE 1 CATCH BASIN W/SQUARE VANED GRATE (4 C2.04)
- ⊖ TYPE 2 CATCH BASIN W/SOLID ROUND LID (2 C2.04)
- TYPE 1 CATCH BASIN W/SOLID SQUARE LID (SEE SHEET C2.06)
- CONCRETE TRENCH DRAIN (5 C2.04)
- HDPE CLEANOUT (7 C2.04)
- ◁ BUILDING DOWNSPOUT CONNECTION (6 C2.04)
- BUILDING FOOTING DRAINS (SEE ARCHITECTURAL PLANS)
- SOLID HDP STORM DRAIN LINE (SIZE AS NOTED ON PLANS) (8 C2.04)
- PERFORATED PIPE (PP) SUBDRAIN (6" HDP UNLESS NOTED ON PLANS) (230 C5.23)
- 125—124— PROPOSED CONTOUR LINES
- 125—124— EXISTING CONTOUR LINES
- FG=125.62 PROPOSED SPOT ELEVATION
- 1% SLOPE (DOWN) DIRECTION & STEEPNESS
- GRADE BREAK FLOWLINE OR SWALE
- GRADE BREAK LINE AT PAVING
- APPROXIMATE LIMITS OF GRADING LINE

STANDARD STORMWATER NOTES

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH COUNTY STANDARDS AND THE MOST CURRENT COPY OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (WSDOT/APWA) AND AS AMENDED BY THE COUNTY OR THE STATE.
- TEMPORARY EROSION/WATER POLLUTION PREVENTION MEASURES SHALL BE REQUIRED IN ACCORDANCE WITH THE PIERCE COUNTY STORMWATER MANAGEMENT MANUAL AND THE DEPT. OF ECOLOGY'S CONSTRUCTION STORMWATER GENERAL PERMIT. SHOULD THE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AS SHOWN ON THESE DRAWINGS NOT PROVE ADEQUATE TO CONTROL EROSION AND SEDIMENTATION, THE APPLICANT/CONTRACTOR SHALL INSTALL ADDITIONAL FACILITIES AS NECESSARY TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES, AND/OR STORM DRAINAGE SYSTEMS.
- CALL THE UNDERGROUND LOCATE LINE 1-800-424-5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATIONS.
- THE STORM DRAINAGE SYSTEM SHALL BE CONSTRUCTED ACCORDING TO APPROVED PLANS ON FILE WITH THE COUNTY. ANY SIGNIFICANT DEVIATION FROM THE APPROVED PLANS WILL REQUIRE WRITTEN APPROVAL FROM THE COUNTY.
- A COPY OF THE APPROVED CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN AND STORMWATER PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- ALL EROSION CONTROL AND STORMWATER FACILITIES SHALL BE REGULARLY INSPECTED AND MAINTAINED BY THE DESIGNATED CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL) DURING CONSTRUCTION.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN STREET USE AND OTHER RELATED OR REQUIRED PERMITS PRIOR TO ANY CONSTRUCTION ACTIVITY IN THE MUNICIPALITY'S RIGHT-OF-WAY. IT SHALL ALSO BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL ABIDE BY ALL REQUIREMENTS FOR TRAFFIC CONTROL & SAFETY WHEN WORKING IN THE ROAD RIGHT-OF-WAY.
- THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN THE EVENT OF DISCOVERY OF POOR SOILS, STANDING GROUNDWATER, OR SEVERE DISCREPANCIES FROM SOIL LOG DESCRIPTIONS AS NOTED ON THE PLANS.
- FOR PUBLIC SYSTEMS, THE CONTRACTOR SHALL CALL FOR INSPECTION 48 HOURS PRIOR TO COVERING ANY DRAINAGE STRUCTURE.
- ALL DRAINAGE STRUCTURES, SUCH AS CATCH BASINS AND MANHOLES, NOT LOCATED WITHIN A TRAVELED ROADWAY OR SIDEWALK, SHALL HAVE SOLID LOCKING LIDS. ALL DRAINAGE STRUCTURES ASSOCIATED WITH A PERMANENT RETENTION/DETENTION FACILITY SHALL HAVE SOLID LOCKING LIDS.

ABBREVIATIONS

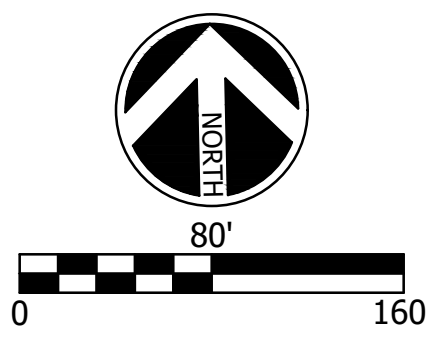
BD	BOTTOM OF DECK	HDPE	HIGH DENSITY POLYETHYLENE	S	SOUTH	TD	TOP OF DECK
BR	BOTTOM OF RAMP	HP	HIGH POINT ELEV.	SD	STORM DRAIN	TDN	TRENCH DRAIN
BS	BOTTOM OF STAIR	IE	INVERT ELEV.	SE	SOUTHEAST	TC	TOP OF CURB
BW	BOTTOM OF WALL	IN	INLET	SG	SUBGRADE	TP	TOP OF PAVING
BLDG	BUILDING	L.F.	LINEAR FEET	SL	SLOPE	TR	TOP OF RAMP
BRK	BREAK	LP	LOW POINT	SPEC.	SPECIFICATIONS	TS	TOP OF STAIR
CB	CATCH BASIN	MH	MANHOLE	SS	SANITARY SEWER	TW	TOP OF WALL
CO	CLEANOUT	N	NORTH	SW	SOUTHWEST	TYP	TYPICAL
DS	DOWNSPOUT	NE	NORTHEAST	T	TELEPHONE	W	WEST (OR WATER)
E	EAST	NW	NORTHWEST				
	(OR ELECTRICAL)	OUT	OUTLET				
ELECT.	ELECTRICAL	PERF	PERFORATED				
ELEV.	ELEVATION	PP	PERFORATED PIPE				
FG	FINISH GRADE ELEV.	PVC	POLYVINYL CHLORIDE				
FL	FLOW LINE ELEV.	RIM	RIM ELEV.				
GRD	GRADE						

PROJECT LAYOUT & STAKING

FIELD LOCATING AND STAKING OF PROPOSED IMPROVEMENTS SHALL BE BY DIMENSIONS SHOWN ON DRAWINGS AND COORDINATES OBTAINED VIA ELECTRONIC DRAWING FILES WHICH WILL BE PROVIDED WITHIN 5 DAYS OF RECEIVING WRITTEN REQUEST AFTER NOTICE OF AWARD. DIMENSIONS SHOWN ARE TAKEN AT 'FACE OF WALL/CURB' UNLESS OTHERWISE NOTED ON PLANS.

IMPORTANT NOTE:

PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE WORK NECESSARY TO COMPLETE CONSTRUCTION UNDER THIS CONTRACT AS SHOWN AND SPECIFIED ON THESE PLANS.



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SHEET 13 OF 102

BID SET

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME	
	DATE
	APP.
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	REVISIONS
	NO.
ACTION	BY DATE
DESIGNED	ABD NOV. 2023
DRAWN	SAJ NOV. 2023
CHECKED (FIELD)	
CHECKED (HDQTS.)	

PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

GRADING & DRAINAGE KEY PLAN & NOTES

C1.00

SCALE
AS NOTED

PARKS FILE#

DATE
APP.
INT.

NO.	REVISIONS
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ACTION	BY	DATE
DESIGNED	ABD	NOV. 2023
DRAWN	SAJ	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		

PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

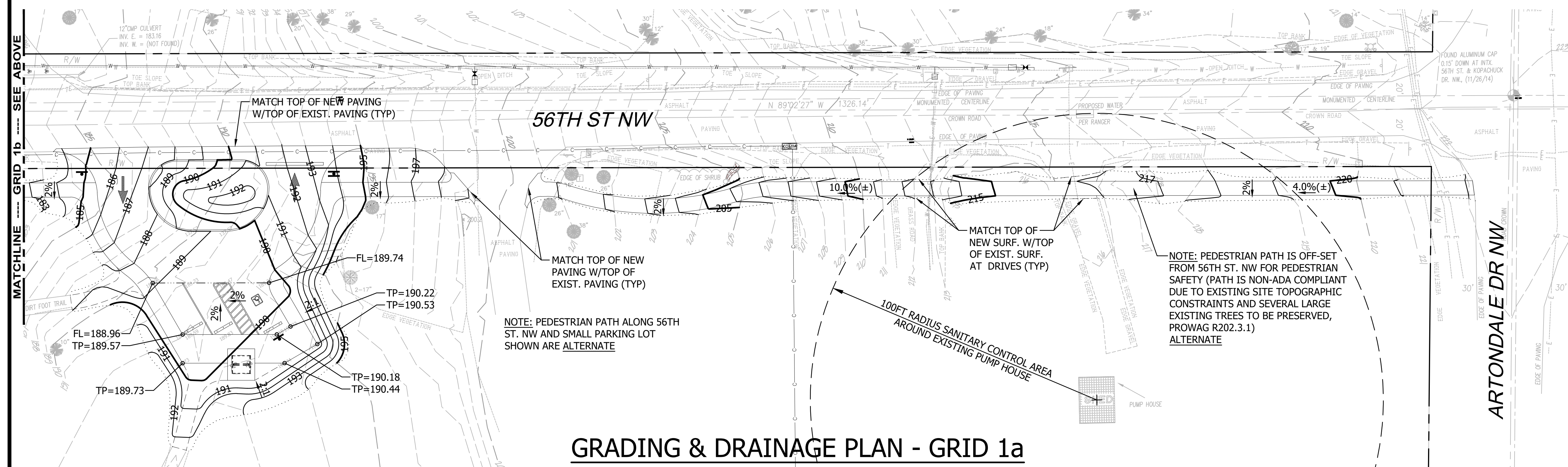
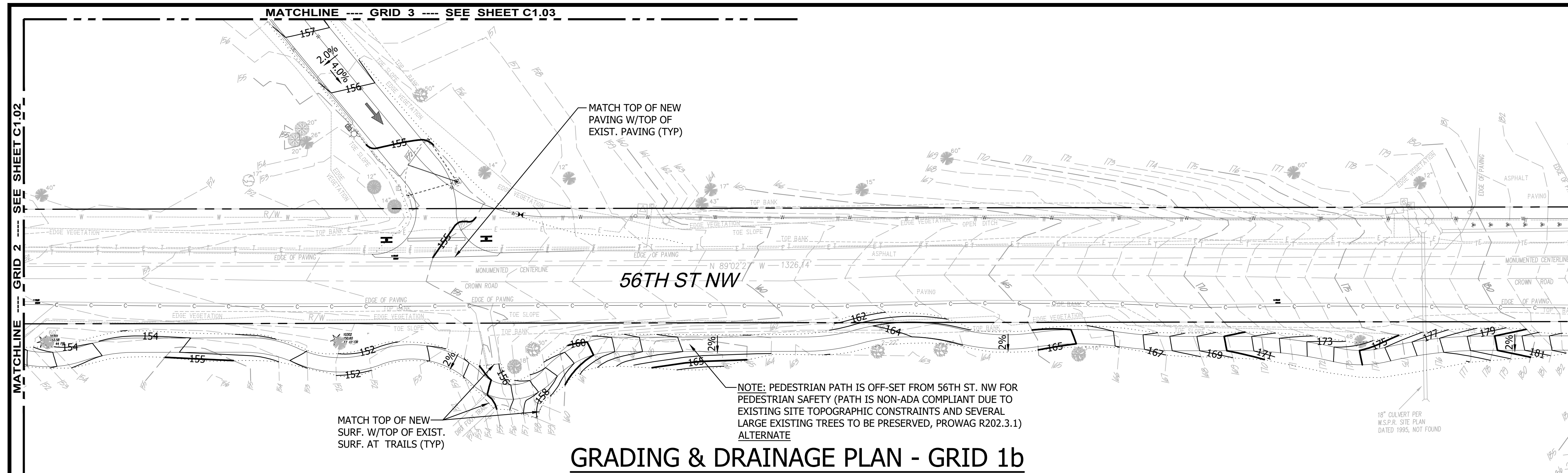
DAY USE DEVELOPMENT

GRADING & DRAINAGE PLAN GRID 1

C1.01

SCALE AS NOTED

PARKS FILE#



GRADING & DRAINAGE LEGEND

	125	PROPOSED CONTOUR LINES
	124	EXISTING CONTOUR LINES
	FG=125.62	PROPOSED SPOT ELEVATION
	1%	SLOPE (DOWN) DIRECTION & STEEPNESS
		GRADE BREAK FLOWLINE OR SWALE
		GRADE BREAK LINE AT PAVING
		APPROXIMATE LIMITS OF GRADING LINE

GENERAL NOTES:

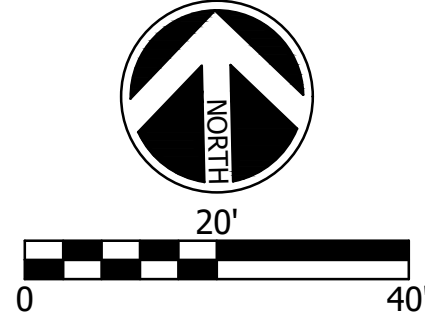
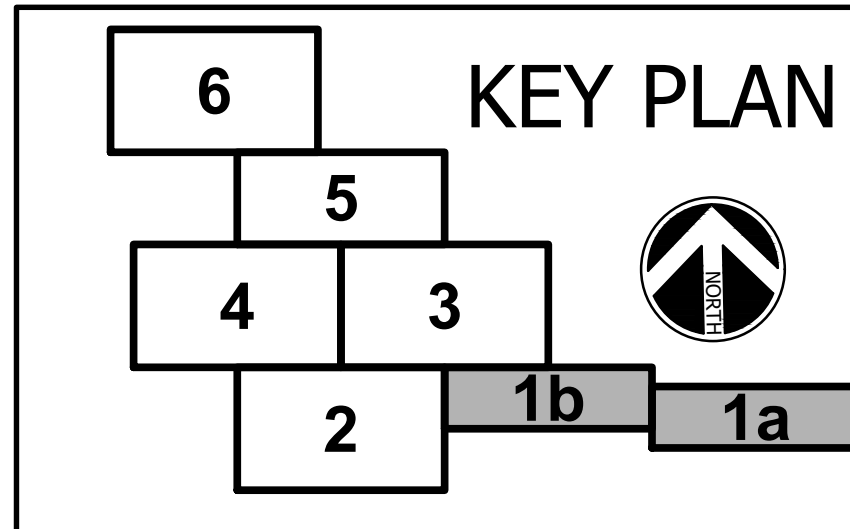
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- SEE SHEET C1.0 FOR FULL GRADING & DRAINAGE PLAN LEGEND (COMBINED), GENERAL NOTES, ABBREVIATIONS, AND HORIZONTAL & VERTICAL CONTROL NOTES.

PROJECT LAYOUT & STAKING

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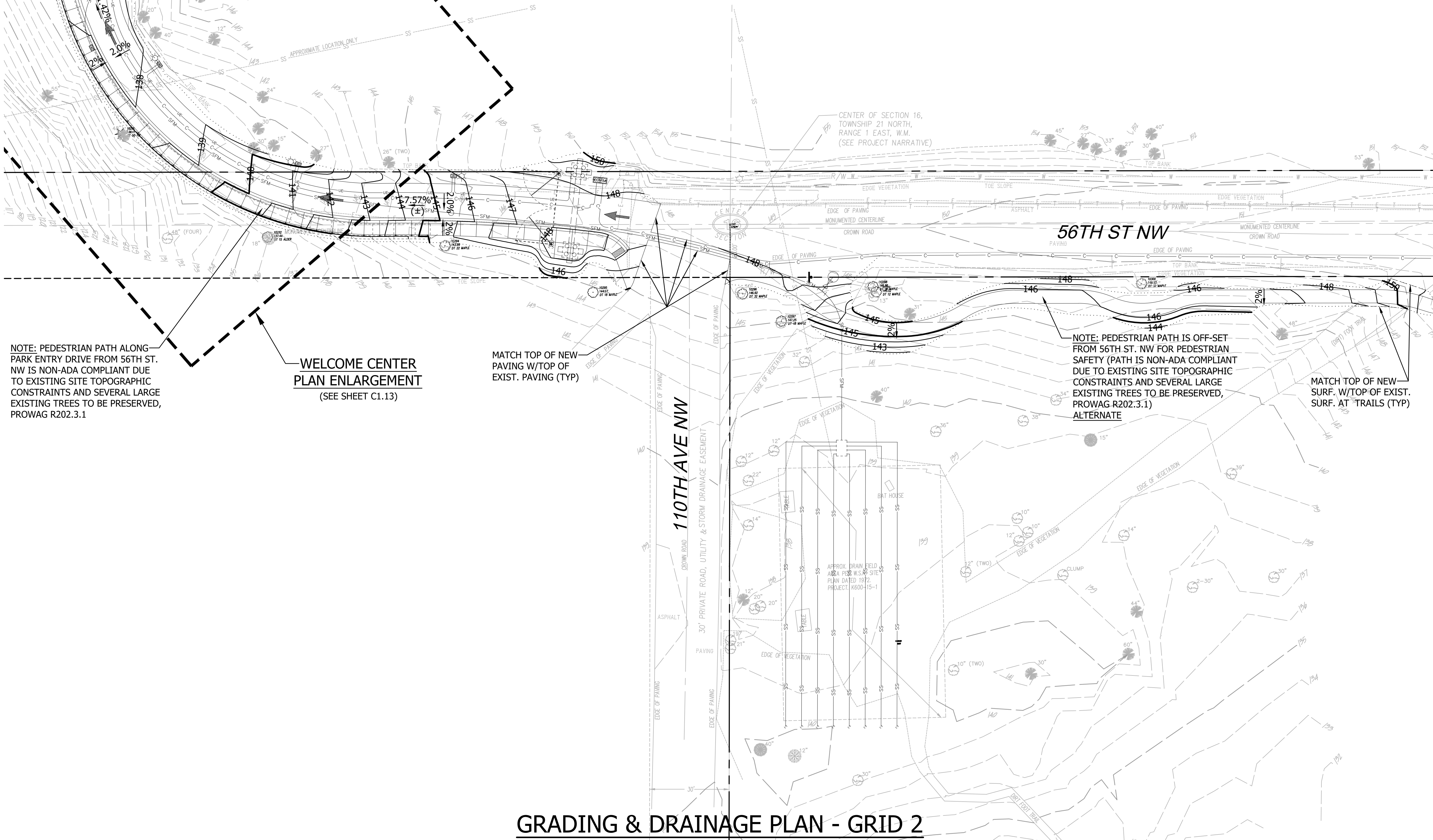


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SHEET 14 OF 102
BID SET



NOTE: PEDESTRIAN PATH ALONG PARK ENTRY DRIVE FROM 56TH ST. NW IS NON-ADA COMPLIANT DUE TO EXISTING SITE TOPOGRAPHIC CONSTRAINTS AND SEVERAL LARGE EXISTING TREES TO BE PRESERVED, PROWAG R202.3.1

WELCOME CENTER PLAN ENLARGEMENT (SEE SHEET C1.13)

MATCH TOP OF NEW PAVING W/TOP OF EXIST. PAVING (TYP)

NOTE: PEDESTRIAN PATH IS OFF-SET FROM 56TH ST. NW FOR PEDESTRIAN SAFETY (PATH IS NON-ADA COMPLIANT DUE TO EXISTING SITE TOPOGRAPHIC CONSTRAINTS AND SEVERAL LARGE EXISTING TREES TO BE PRESERVED, PROWAG R202.3.1) ALTERNATE

MATCH TOP OF NEW SURF. W/TOP OF EXIST. SURF. AT TRAILS (TYP)

GRADING & DRAINAGE PLAN - GRID 2

GRADING & DRAINAGE LEGEND

- PROPOSED CONTOUR LINES
- EXISTING CONTOUR LINES
- PROPOSED SPOT ELEVATION
- SLOPE (DOWN) DIRECTION & STEEPNESS
- GRADE BREAK FLOWLINE OR SWALE
- GRADE BREAK LINE AT PAVING
- APPROXIMATE LIMITS OF GRADING LINE

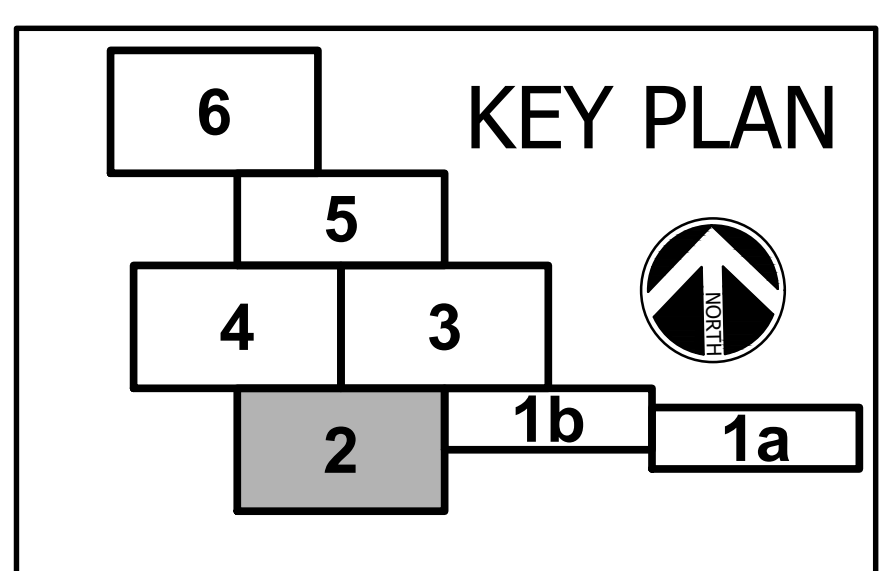
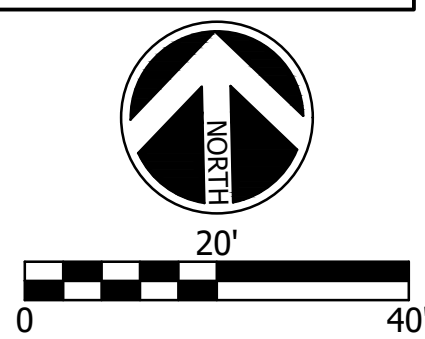
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SHEET 15 OF 102
BID SET

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	ABD	NOV. 2023
DRAWN	SAJ	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		

PROJECT ENGINEER

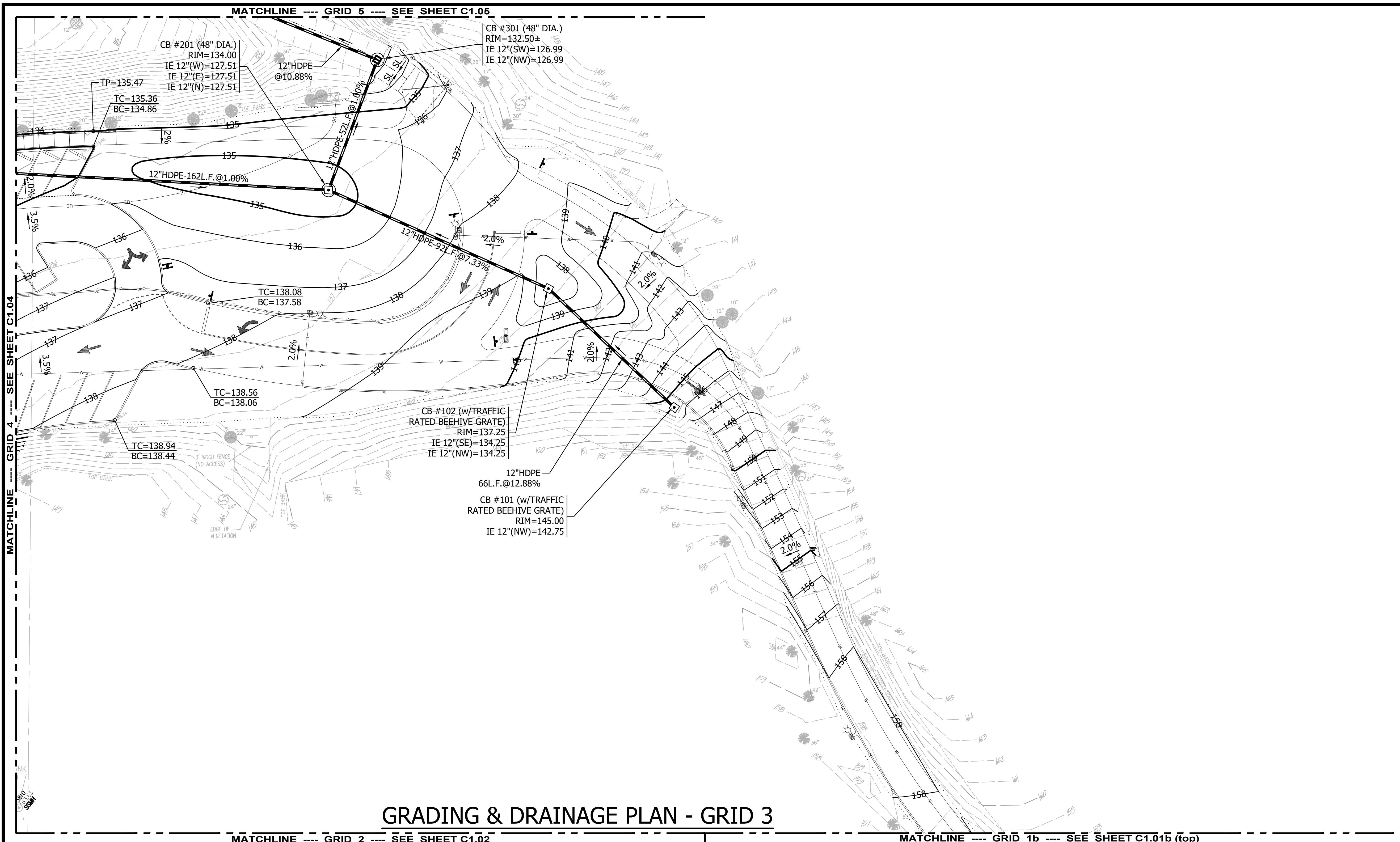
WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK
DAY USE DEVELOPMENT

GRADING & DRAINAGE PLAN
GRID 2

C1.02
SCALE AS NOTED

PARKS FILE#



GRADING & DRAINAGE PLAN - GRID 3

GRADING & DRAINAGE LEGEND

	TYPE 1 CATCH BASIN W/SQUARE BEEHIVE GRATE		PROPOSED CONTOUR LINES
	TYPE 2 CATCH BASIN W/SQUARE BEEHIVE GRATE		EXISTING CONTOUR LINES
	TYPE 2 CATCH BASIN W/SQUARE SWALE GRATE		PROPOSED SPOT ELEVATION
	SOLID HDP STORM DRAIN LINE (SIZE AS NOTED ON PLANS)		SLOPE (DOWN) DIRECTION & STEEPNESS
			GRADE BREAK FLOWLINE OR SWALE
			GRADE BREAK LINE AT PAVING
			APPROXIMATE LIMITS OF GRADING LINE

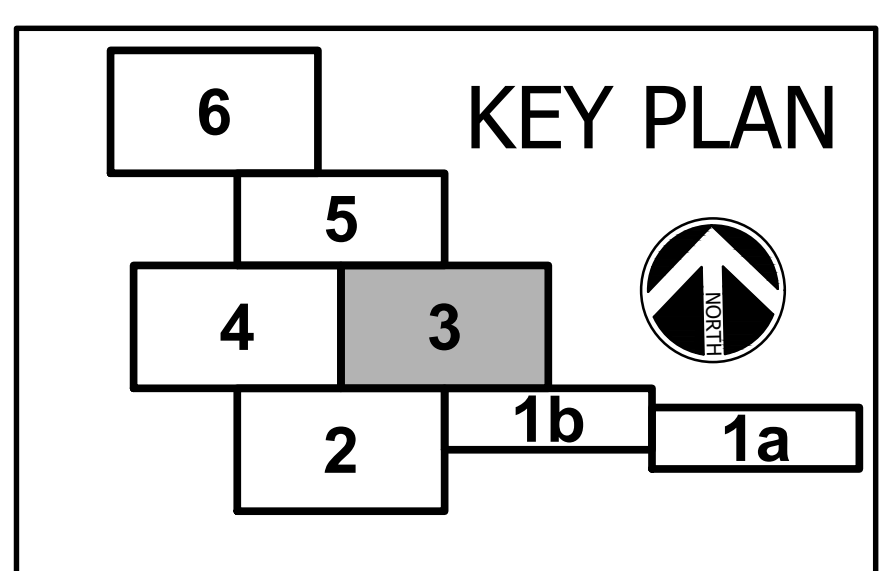
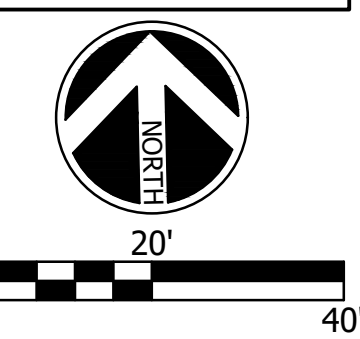
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SHEET 16 OF 102
BID SET

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME		
	DATE	
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	INT.	
	REVISIONS	
	NO.	

ACTION	BY	DATE
DESIGNED	ABD	NOV. 2023
DRAWN	SAJ	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		

PROJECT ENGINEER

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION

KOPACHUCK
STATE PARK

DAY USE
DEVELOPMENT

GRADING &
DRAINAGE PLAN
GRID 3

C1.03

SCALE
AS NOTED

PARKS FILE#

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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

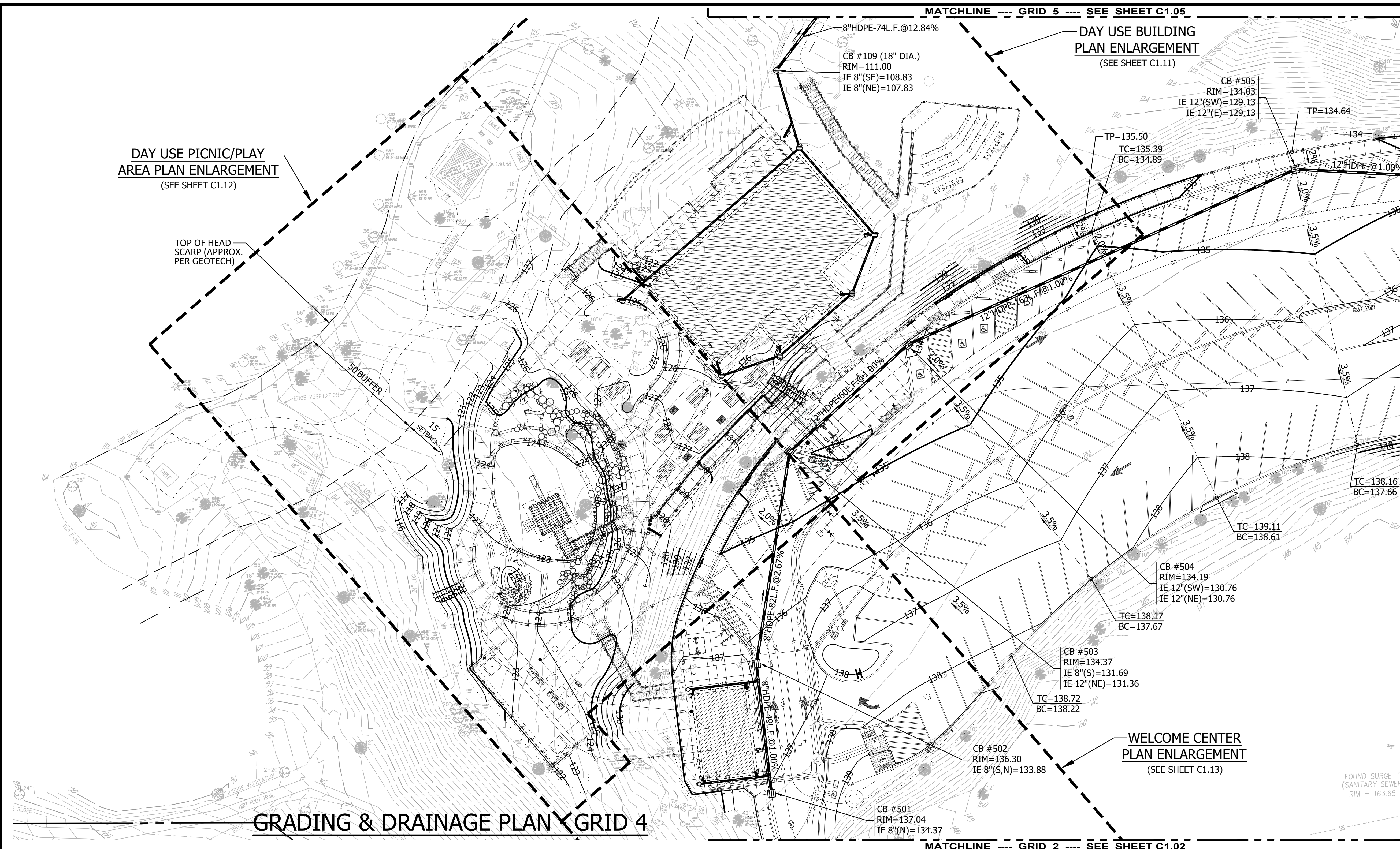
KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

GRADING & DRAINAGE PLAN GRID 4

C1.04
SCALE AS NOTED

BID SET
PARKS FILE#



GRADING & DRAINAGE LEGEND

	PVC CATCH BASIN W/ROUND BEEHIVE GRATE (1) (C2.04)		PROPOSED CONTOUR LINES
	TYPE 1 CATCH BASIN W/SQUARE VANED GRATE (4) (C2.04)		EXISTING CONTOUR LINES
	CONCRETE TRENCH DRAIN (5) (C2.04)		PROPOSED SPOT ELEVATION
	HDPE CLEANOUT (7) (C2.04)		SLOPE (DOWN) DIRECTION & STEEPNESS
	BUILDING DOWNSPOUT CONNECTION (6) (C2.04)		GRADE BREAK FLOWLINE OR SWALE
	BUILDING FOOTING DRAINS (SEE ARCHITECTURAL PLANS)		GRADE BREAK LINE AT PAVING
	SOLID HDP STORM DRAIN LINE (8) (C2.04) (SIZE AS NOTED ON PLANS)		APPROXIMATE LIMITS OF GRADING LINE

GENERAL NOTES:

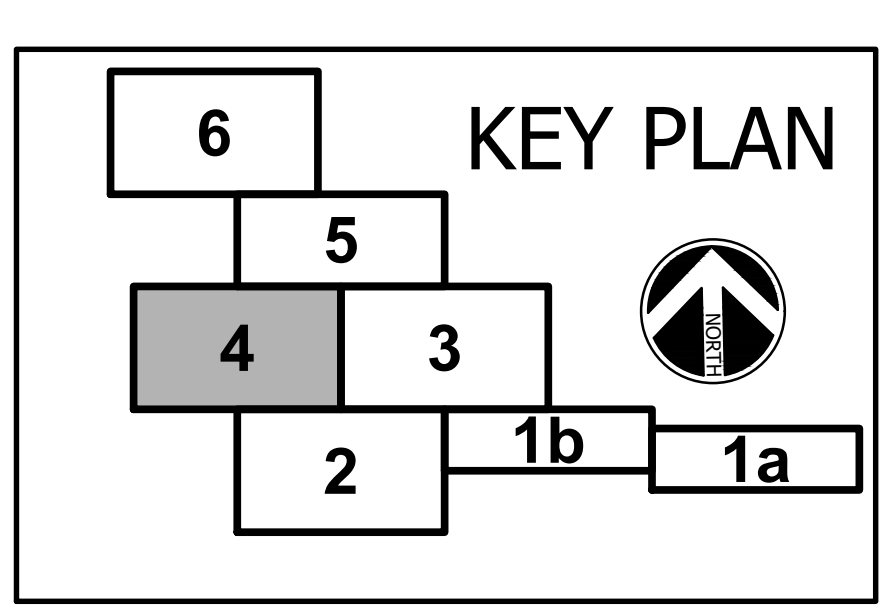
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PROJECT LAYOUT & STAKING

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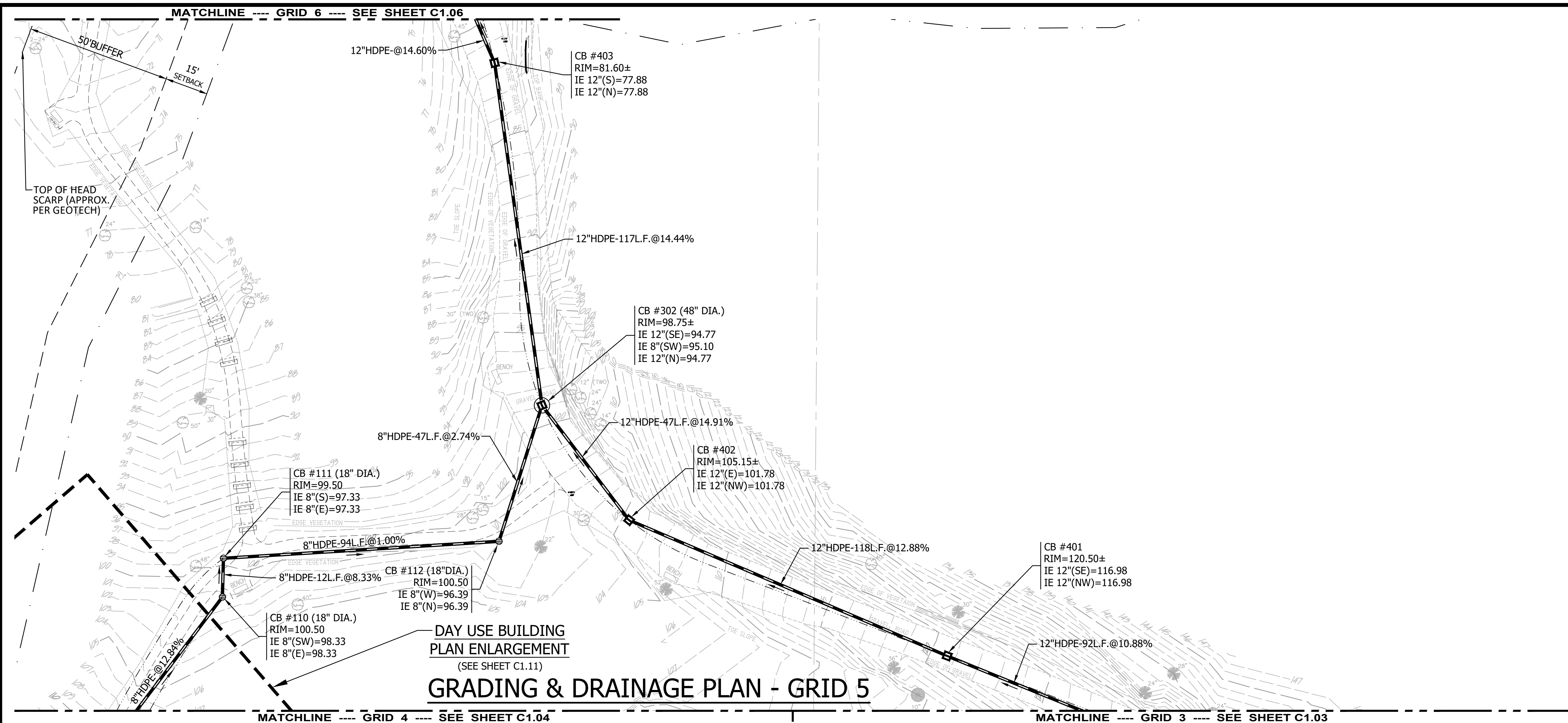
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SHEET 17 OF 102
BID SET



CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME	
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GARY ROBERT JENSEN
PROFESSIONAL ENGINEER
LICENSE No. 1408
EXPIRES ON 04/04/2025

SHAWN ALLAN JENSEN
LANDSCAPE ARCHITECT
LICENSE No. 1408
EXPIRES ON 04/04/2025

PROJECT ENGINEER

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION

KOPACHUCK
STATE PARK

DAY USE
DEVELOPMENT

GRADING &
DRAINAGE PLAN
GRID 5

C1.05

SCALE
AS NOTED

PARKS FILE#

GRADING & DRAINAGE LEGEND

	PVC CATCH BASIN W/ROUND BEEHIVE GRATE		PROPOSED CONTOUR LINES
	TYPE 2 CATCH BASIN W/SQUARE SWALE GRATE		EXISTING CONTOUR LINES
	TYPE 1 CATCH BASIN W/SQUARE SWALE GRATE		PROPOSED SPOT ELEVATION
	SOLID HDP STORM DRAIN LINE (SIZE AS NOTED ON PLANS)		SLOPE (DOWN) DIRECTION & STEEPNESS
			GRADE BREAK FLOWLINE OR SWALE
			GRADE BREAK LINE AT PAVING
			APPROXIMATE LIMITS OF GRADING LINE

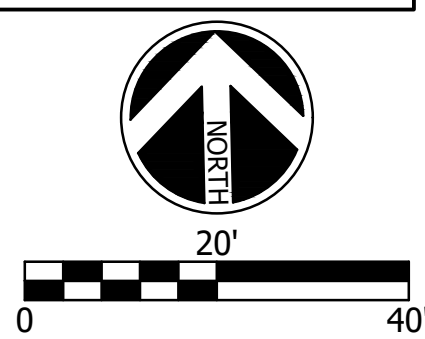
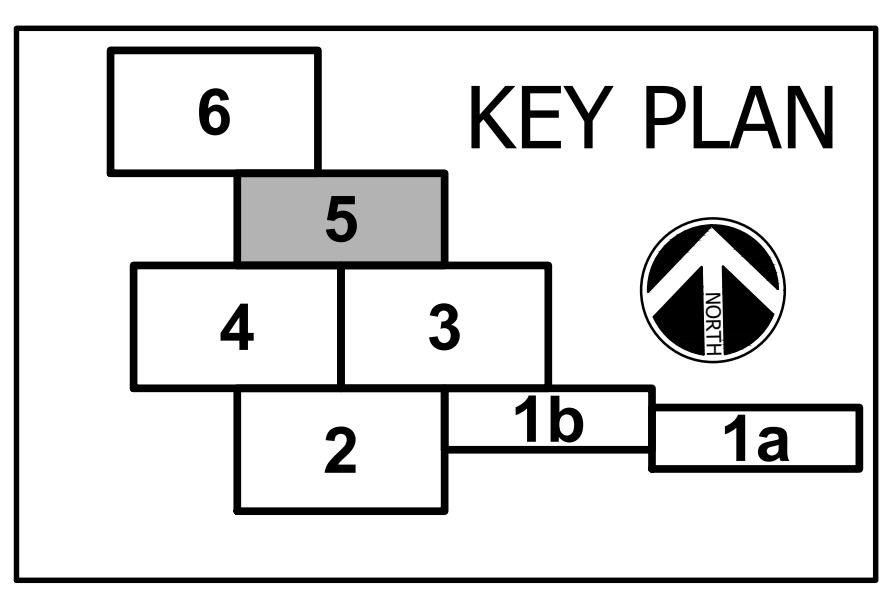
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	DATE
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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

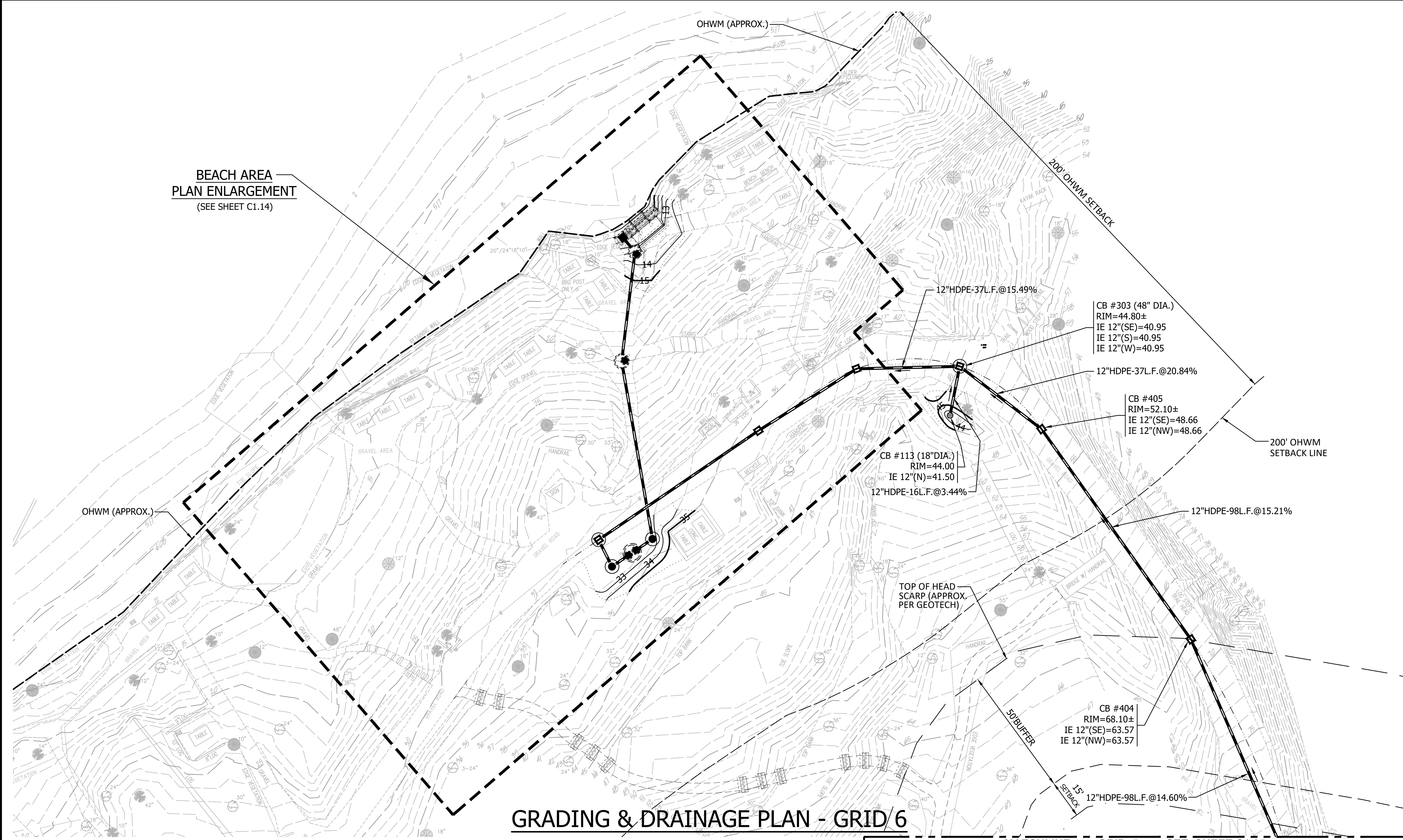
DAY USE DEVELOPMENT

GRADING & DRAINAGE PLAN GRID 6

C1.06

SCALE AS NOTED

BID SET PARKS FILE#



GRADING & DRAINAGE PLAN - GRID 6

GRADING & DRAINAGE LEGEND

	PVC CATCH BASIN W/ROUND BEEHIVE GRATE (1 C2.04)		PROPOSED CONTOUR LINES
	TYPE 2 CATCH BASIN W/SQUARE SWALE GRATE (3 C2.04)		EXISTING CONTOUR LINES
	TYPE 1 CATCH BASIN W/SQUARE SWALE GRATE (4 C2.04)		PROPOSED SPOT ELEVATION
	TYPE 2 CATCH BASIN W/SOLID ROUND LID (2 C2.04)		SLOPE (DOWN) DIRECTION & STEEPNESS
	TYPE 1 CATCH BASIN W/SOLID SQUARE LID (SEE SHT. C2.06)		GRADE BREAK FLOWLINE OR SWALE
	SOLID HDP STORM DRAIN LINE (SIZE AS NOTED ON PLANS) (8 C2.04)		GRADE BREAK LINE AT PAVING
			APPROXIMATE LIMITS OF GRADING LINE

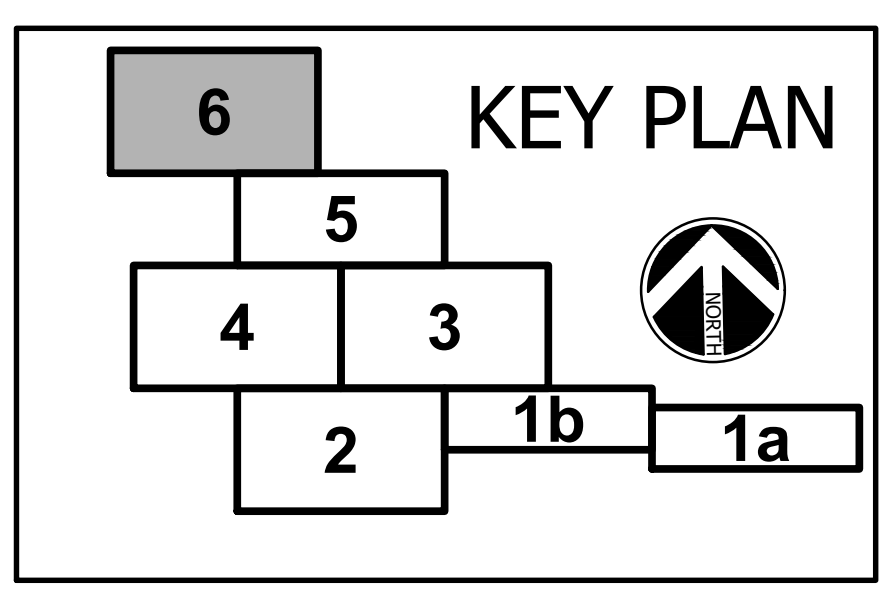
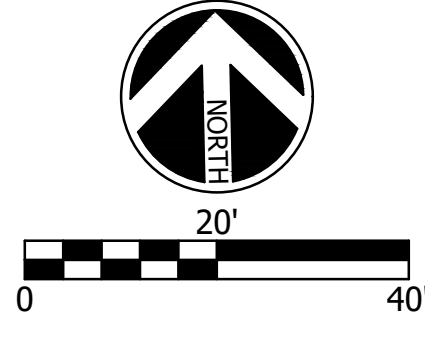
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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

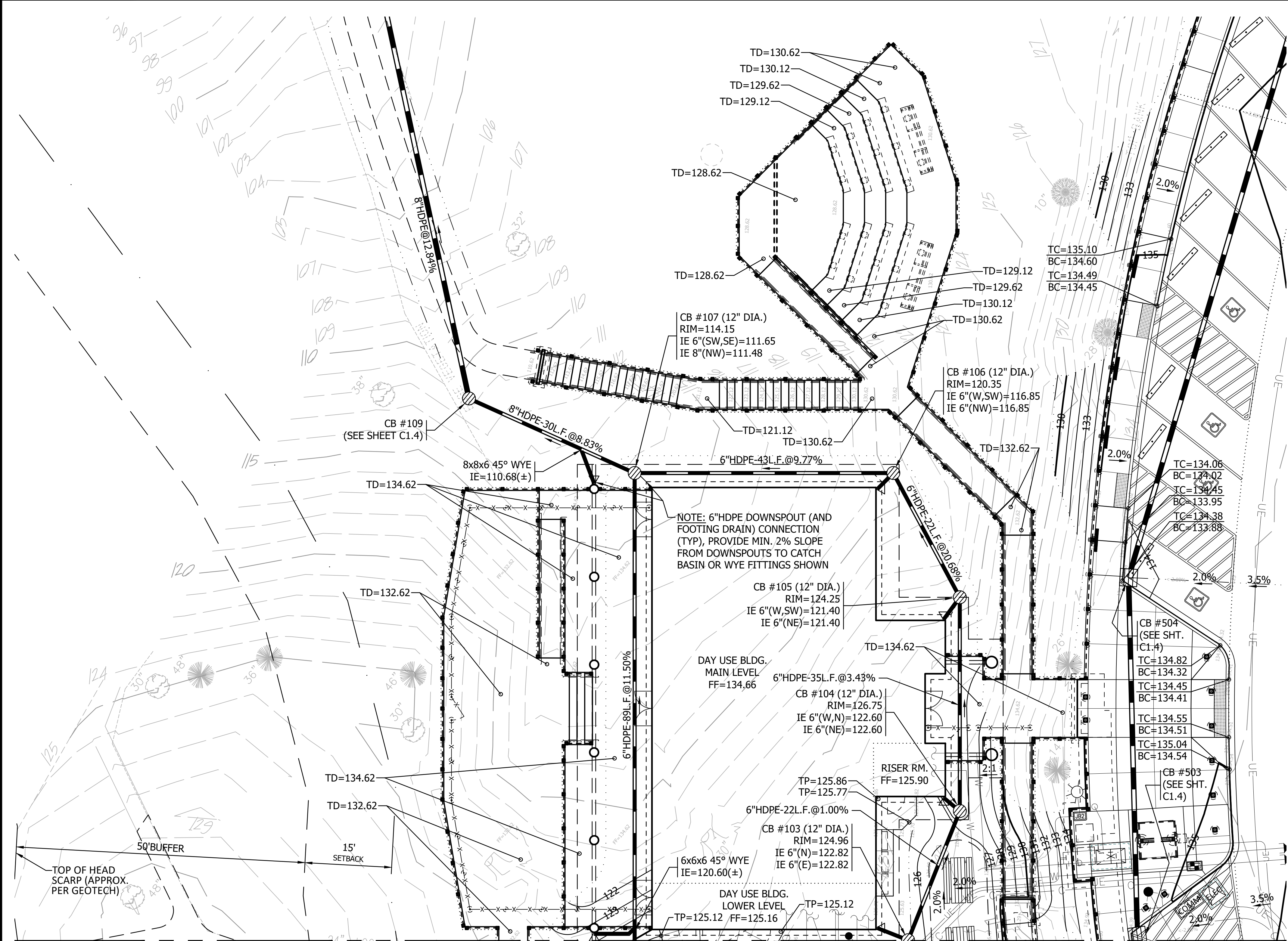
KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

GRADING & DRAINAGE PLAN ENLGMT. - DAY USE BUILDING AREA

C1.11
SCALE AS NOTED

PARKS FILE#



MATCHLINE - DAY USE PICNIC/PLAY AREA PLAN ENLARGEMENT - SEE SHEET C1.12

GRADING & DRAINAGE LEGEND

- 1 PVC CATCH BASIN W/ROUND BEEHIVE GRATE (C2.04)
- 125 PROPOSED CONTOUR LINES
- 4 TYPE 1 CATCH BASIN W/SQUARE VANED GRATE (C2.04)
- 124 EXISTING CONTOUR LINES
- 7 HDPE CLEANOUT (C2.04)
- 6 BUILDING DOWNSPOUT CONNECTION (C2.04)
- FG=125.62 PROPOSED SPOT ELEVATION
- BUILDING FOOTING DRAINS (SEE ARCHITECTURAL PLANS)
- 1% SLOPE (DOWN) DIRECTION & STEEPNESS
- 8 SOLID HDP STORM DRAIN LINE (SIZE AS NOTED ON PLANS) (C2.04)
- GRADE BREAK FLOWLINE OR SWALE
- GRADE BREAK LINE AT PAVING
- APPROXIMATE LIMITS OF GRADING LINE

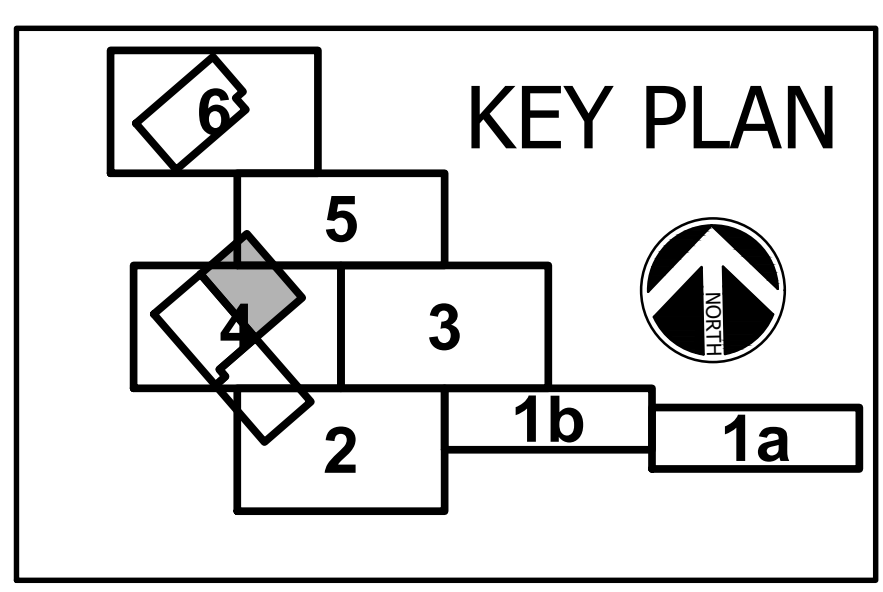
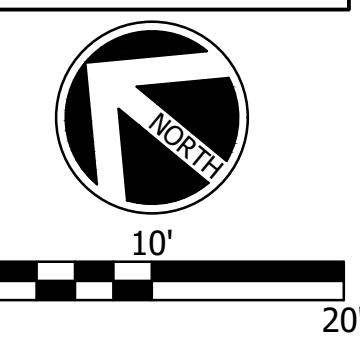
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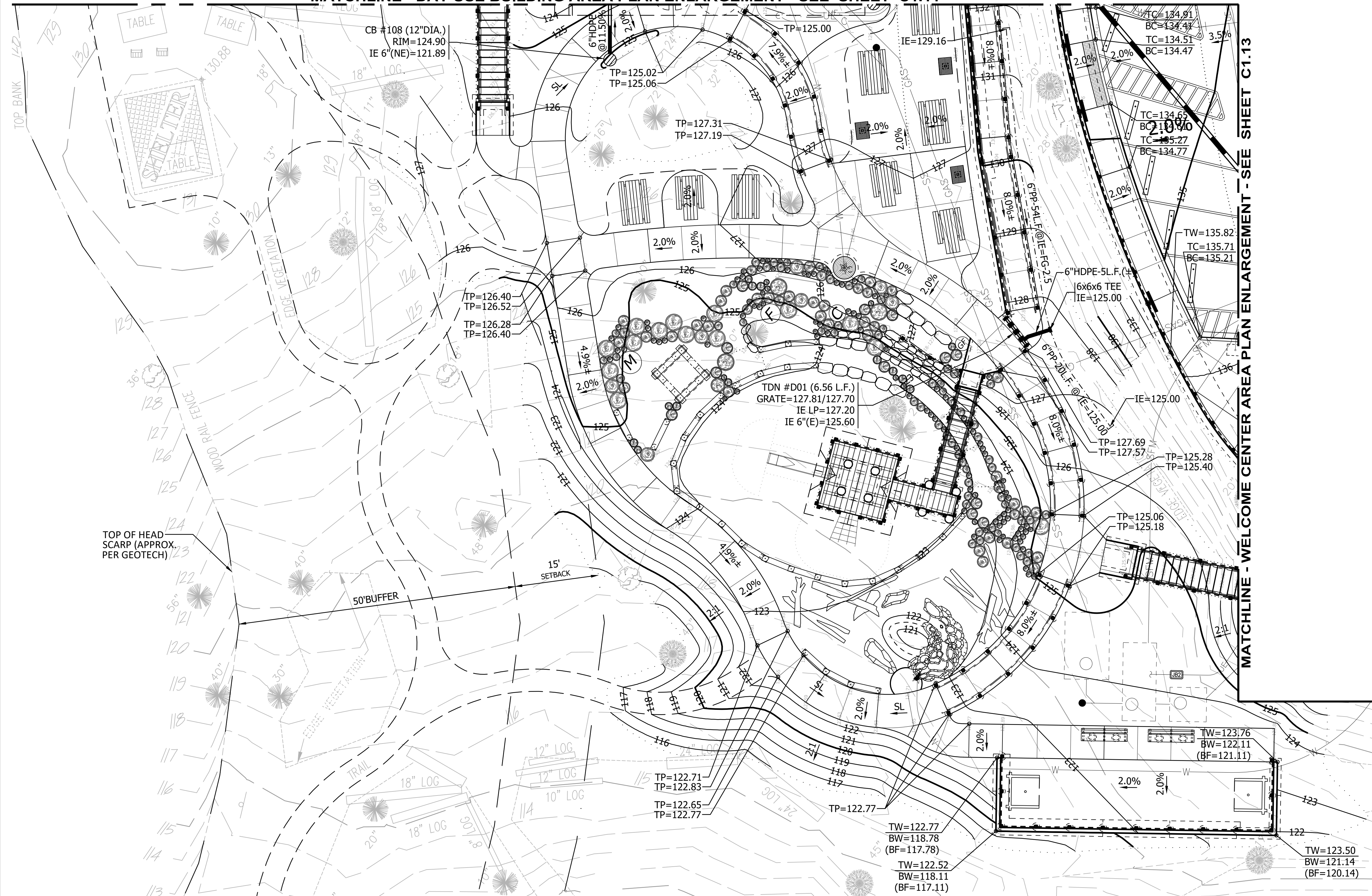
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MATCHLINE - DAY USE BUILDING AREA PLAN ENLARGEMENT - SEE SHEET C1.11



GRADING & DRAINAGE LEGEND

- PVC CATCH BASIN W/ROUND BEEHIVE GRATE (1) (C2.04)
- CONCRETE TRENCH DRAIN (5) (C2.04)
- SOLID HDP STORM DRAIN LINE (SIZE AS NOTED ON PLANS) (8) (C2.04)
- PERFORATED PIPE (PP) FRENCH DRAIN (6" HDP UNLESS NOTED ON PLANS) (10) (C2.05)
- 125 PROPOSED CONTOUR LINES
- 124 EXISTING CONTOUR LINES
- FG=125.62 PROPOSED SPOT ELEVATION
- 1% SLOPE (DOWN) DIRECTION & STEEPNESS
- GRADE BREAK LINE AT PAVING
- APPROXIMATE LIMITS OF GRADING LINE

GENERAL NOTES:

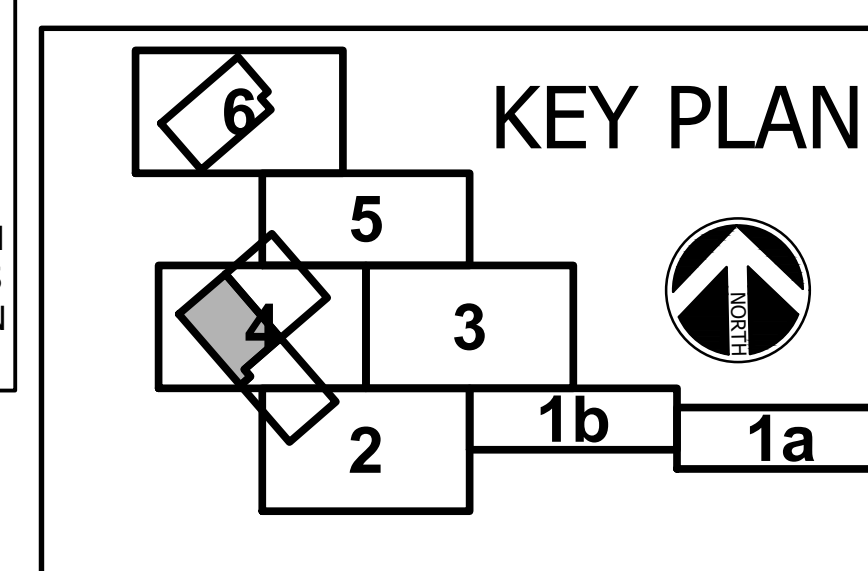
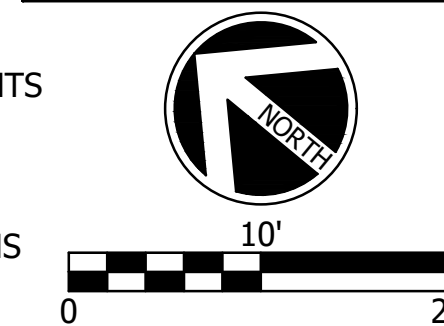
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SHEET 21 OF 102
 BID SET

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

NO.	REVISIONS	INT.	APP.	DATE

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DRAWN	SAJ	NOV. 2023
CHECKED (FIELD)		
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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

GRADING & DRAINAGE PLAN ENLGMT. - DAY USE PICNIC/PLAY AREA

C1.12
 SCALE AS NOTED

PARKS FILE#

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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

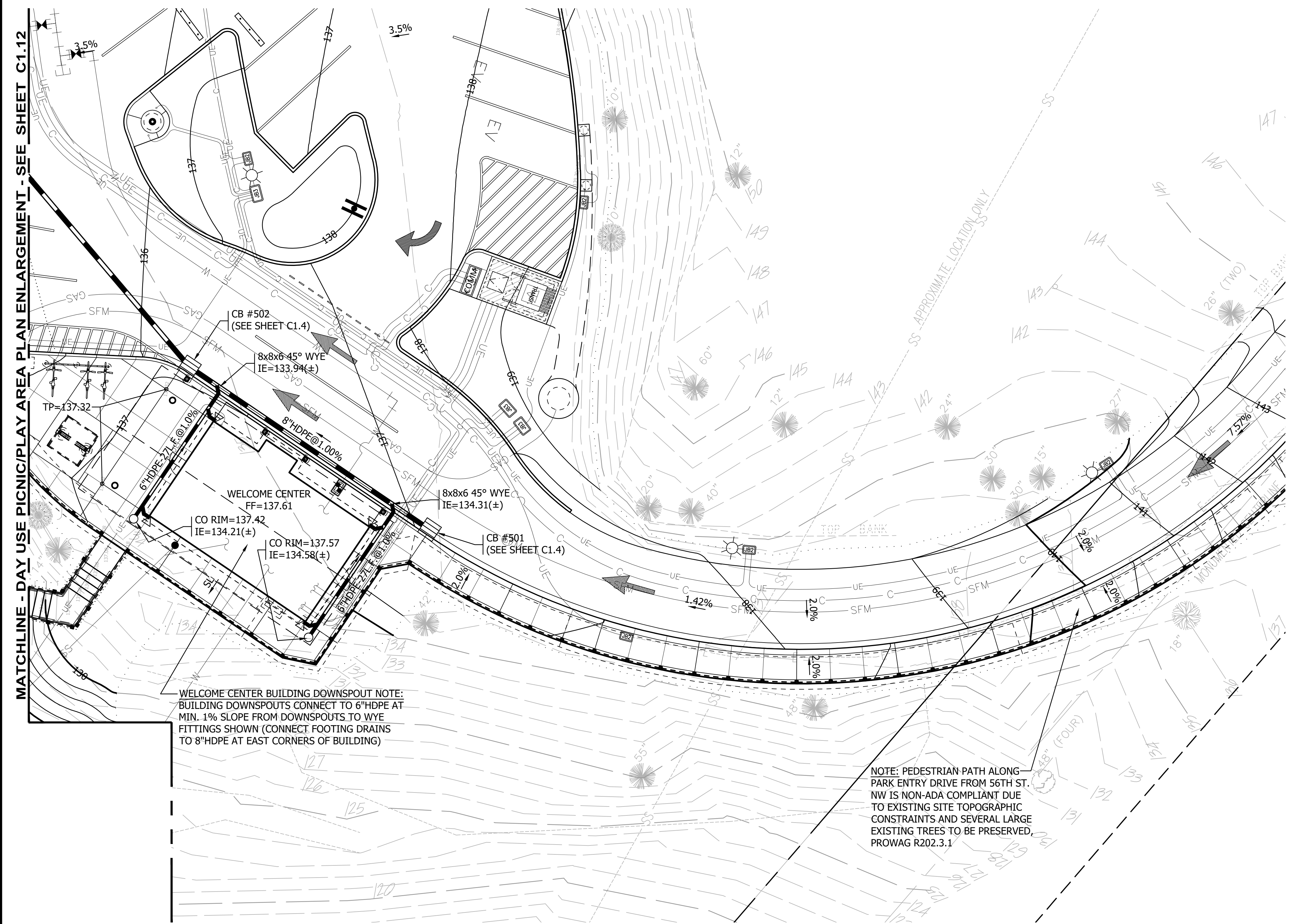
DAY USE DEVELOPMENT

GRADING & DRAINAGE PLAN ENLGMT. - WELCOME CENTER AREA

C1.13

SCALE AS NOTED

BID SET PARKS FILE#



GRADING & DRAINAGE LEGEND

	TYPE 1 CATCH BASIN W/SQUARE VANED GRATE (4) (C2.04)		PROPOSED CONTOUR LINES
	HDPE CLEANOUT (7) (C2.04)		EXISTING CONTOUR LINES
	BUILDING DOWNSPOUT CONNECTION (6) (C2.04)		PROPOSED SPOT ELEVATION
	BUILDING FOOTING DRAINS (SEE ARCHITECTURAL PLANS)		SLOPE (DOWN) DIRECTION & STEEPNESS
	SOLID HDP STORM DRAIN LINE (SIZE AS NOTED ON PLANS) (8) (C2.04)		GRADE BREAK LINE AT PAVING
			APPROXIMATE LIMITS OF GRADING LINE

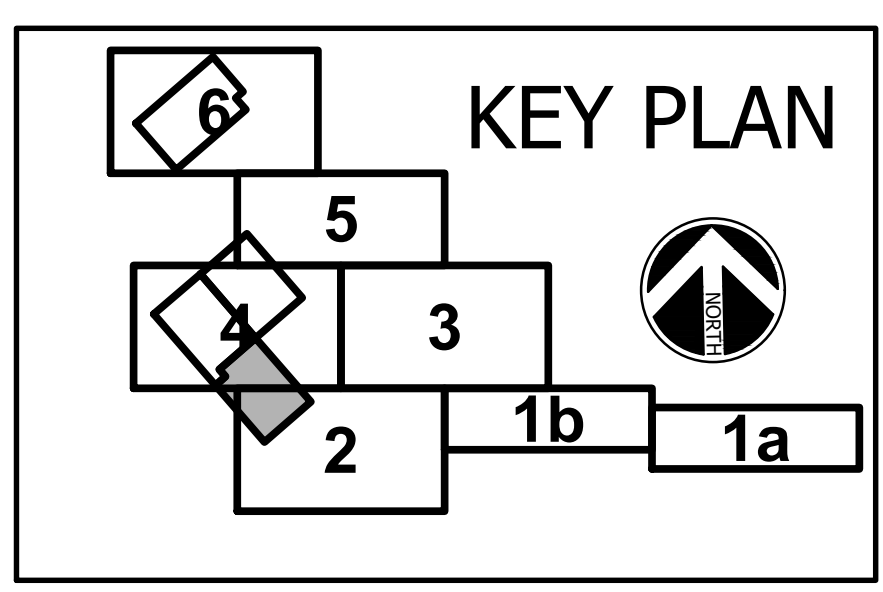
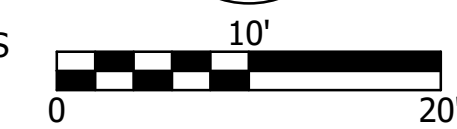
GENERAL NOTES:

- CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATIONS PRIOR TO DEMOLITION AND CLEARING. CONTACT 'CALL BEFORE YOU DIG' AT (800) 424-5555 FOR FIELD LOCATION ASSISTANCE WITHIN THE PUBLIC RIGHT-OF-WAY, RETAIN A PRIVATE LOCATOR SERVICE TO LOCATE UTILITIES WITHIN THE PROJECT SITE.
- SEE SHEET C1.0 FOR FULL GRADING & DRAINAGE PLAN LEGEND (COMBINED), GENERAL NOTES, ABBREVIATIONS, AND HORIZONTAL & VERTICAL CONTROL NOTES.

IMPORTANT NOTE:
PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE WORK NECESSARY TO COMPLETE CONSTRUCTION UNDER THIS CONTRACT AS SHOWN AND SPECIFIED ON THESE PLANS.

PROJECT LAYOUT & STAKING

FIELD LOCATING AND STAKING OF PROPOSED IMPROVEMENTS SHALL BE BY DIMENSIONS SHOWN ON DRAWINGS AND COORDINATES OBTAINED VIA ELECTRONIC DRAWING FILES WHICH WILL BE PROVIDED WITHIN 5 DAYS OF RECEIVING WRITTEN REQUEST AFTER NOTICE OF AWARD. DIMENSIONS SHOWN ARE TAKEN AT 'FACE OF WALL/CURB' UNLESS OTHERWISE NOTED ON PLANS.



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DESIGNED	ABD	NOV. 2023
DRAWN	SAJ	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		

PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

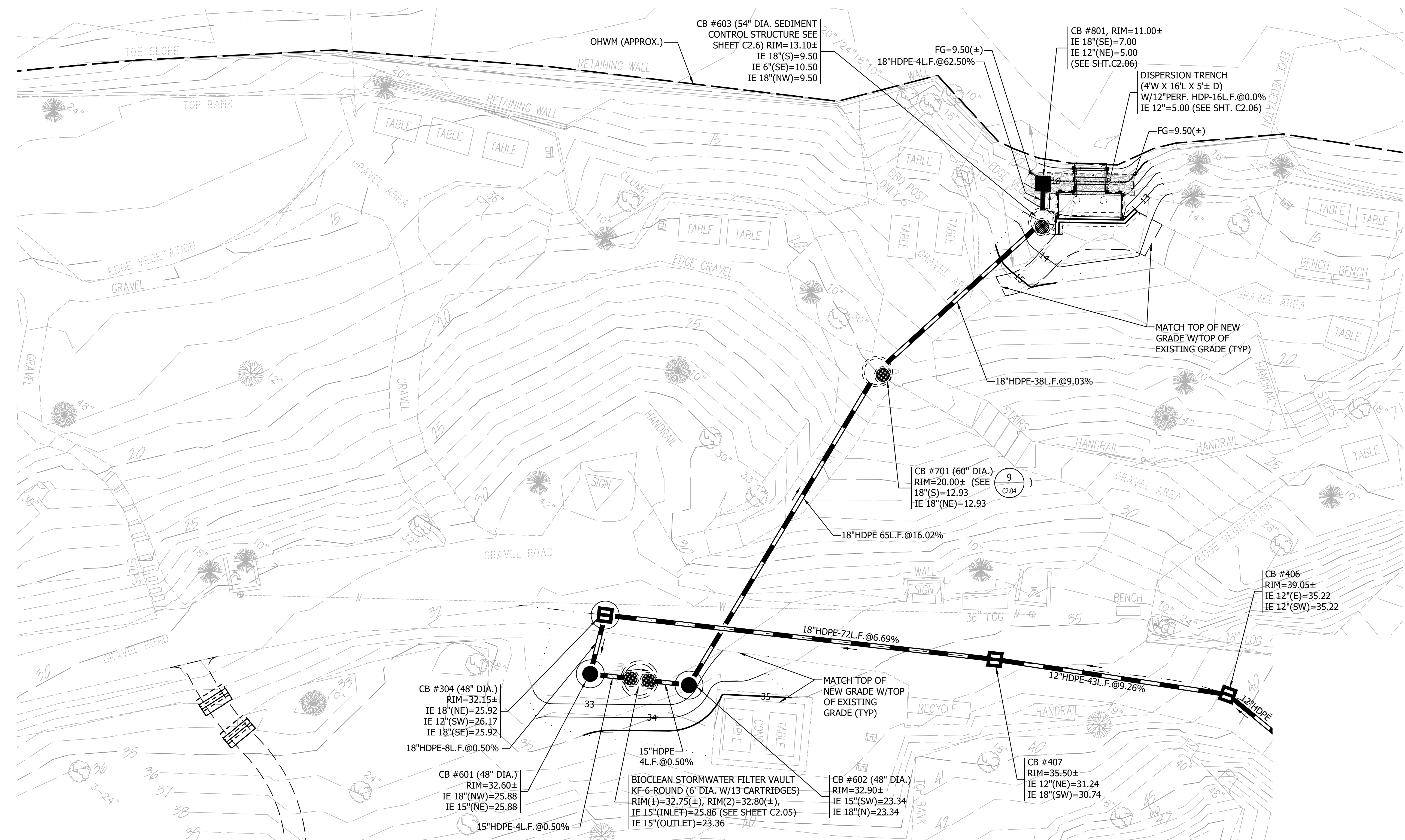
KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

GRADING & DRAINAGE PLAN ENLGMT. - BEACH AREA

C1.14
SCALE AS NOTED

PARKS FILE#



GRADING & DRAINAGE LEGEND

	TYPE 2 CATCH BASIN W/SQUARE SWALE GRATE		PROPOSED CONTOUR LINES
	TYPE 1 CATCH BASIN W/SQUARE SWALE GRATE		EXISTING CONTOUR LINES
	TYPE 2 CATCH BASIN W/SOLID ROUND LID		PROPOSED SPOT ELEVATION
	TYPE 1 CATCH BASIN W/SOLID SQUARE LID (SEE SHT. C2.06)		SLOPE (DOWN) DIRECTION & STEEPNESS
	SOLID HDP STORM DRAIN LINE (SIZE AS NOTED ON PLANS)		GRADE BREAK FLOWLINE OR SWALE
			GRADE BREAK LINE AT PAVING
			APPROXIMATE LIMITS OF GRADING LINE

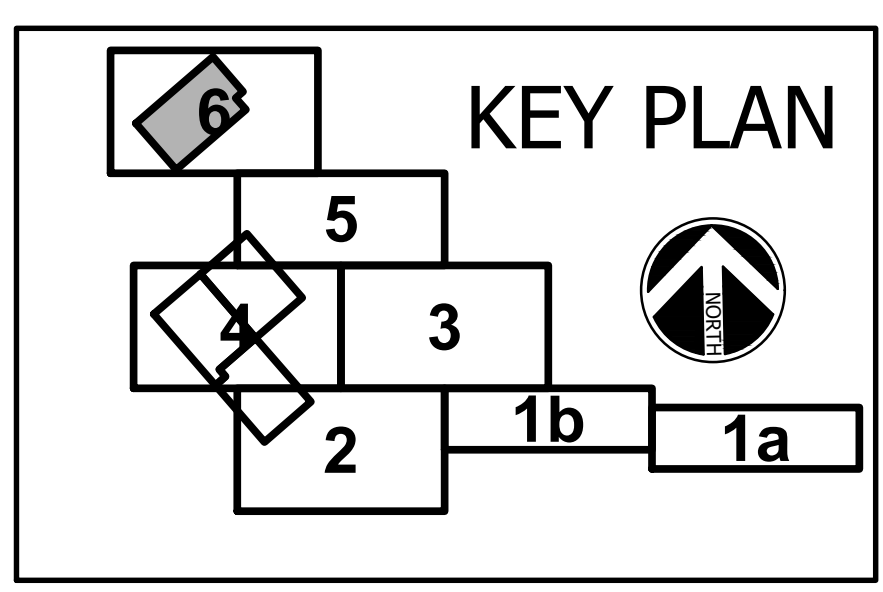
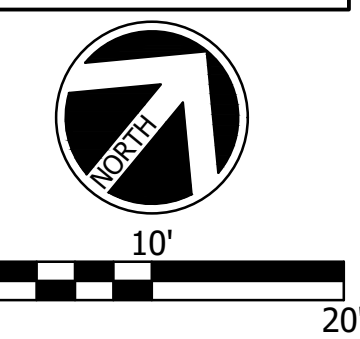
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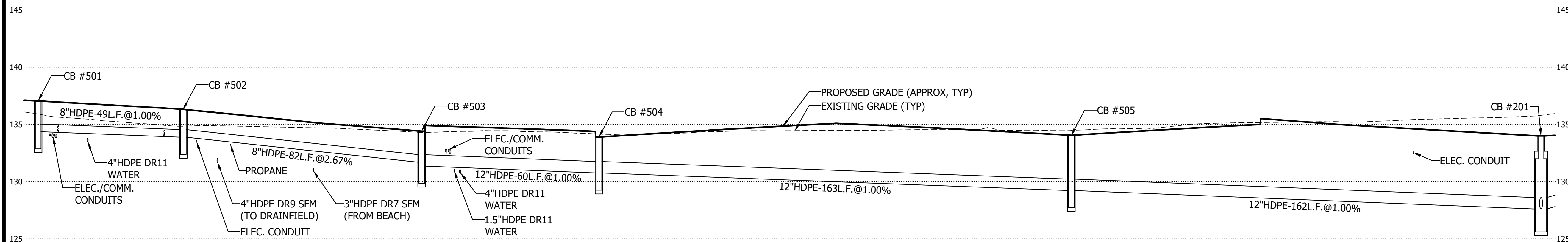
PROJECT LAYOUT & STAKING

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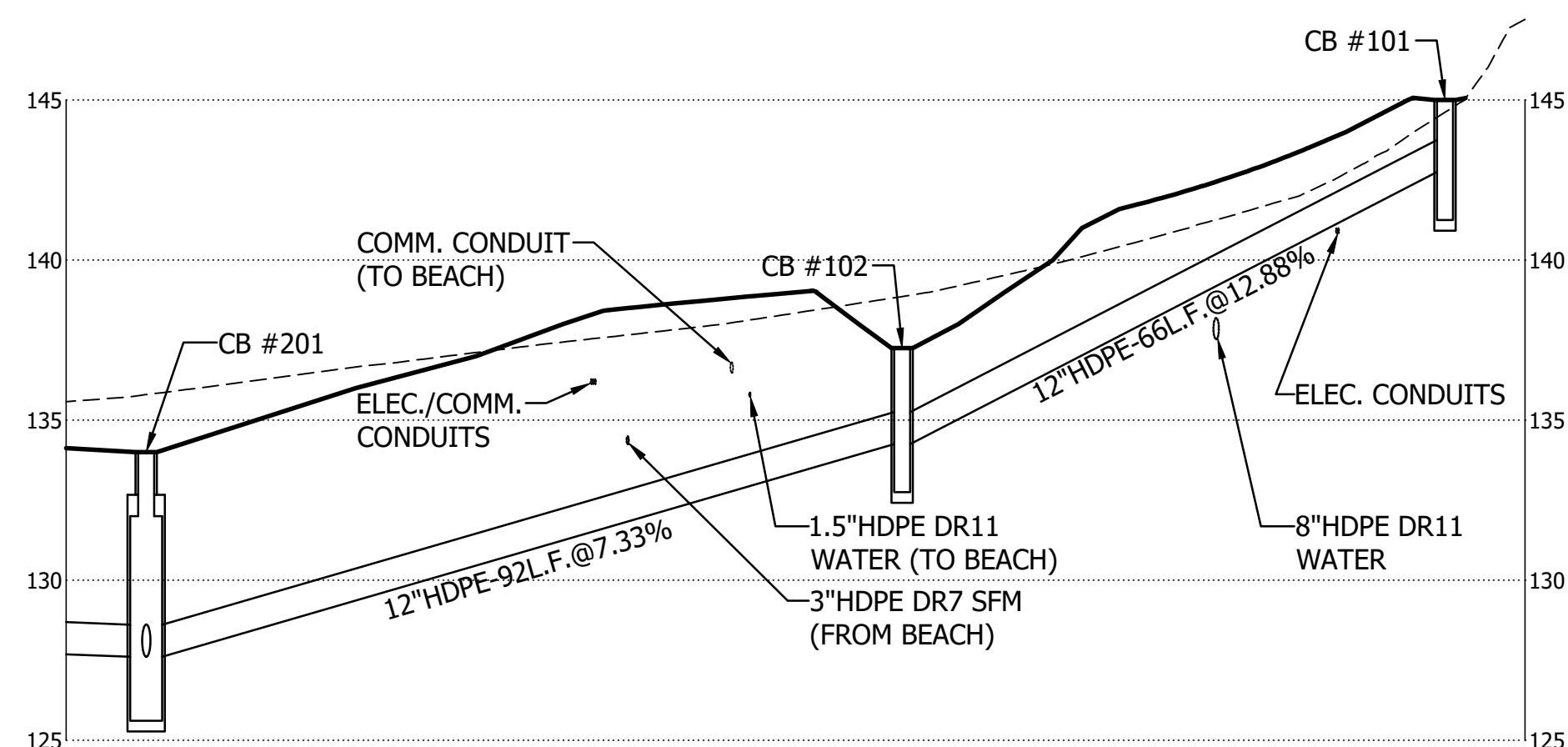
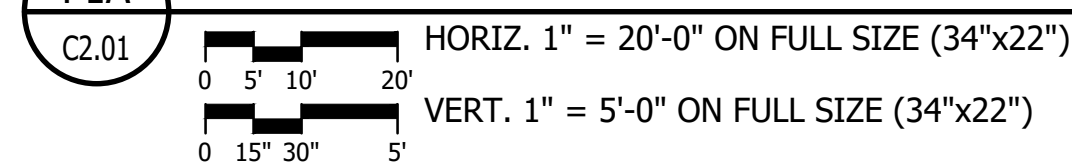


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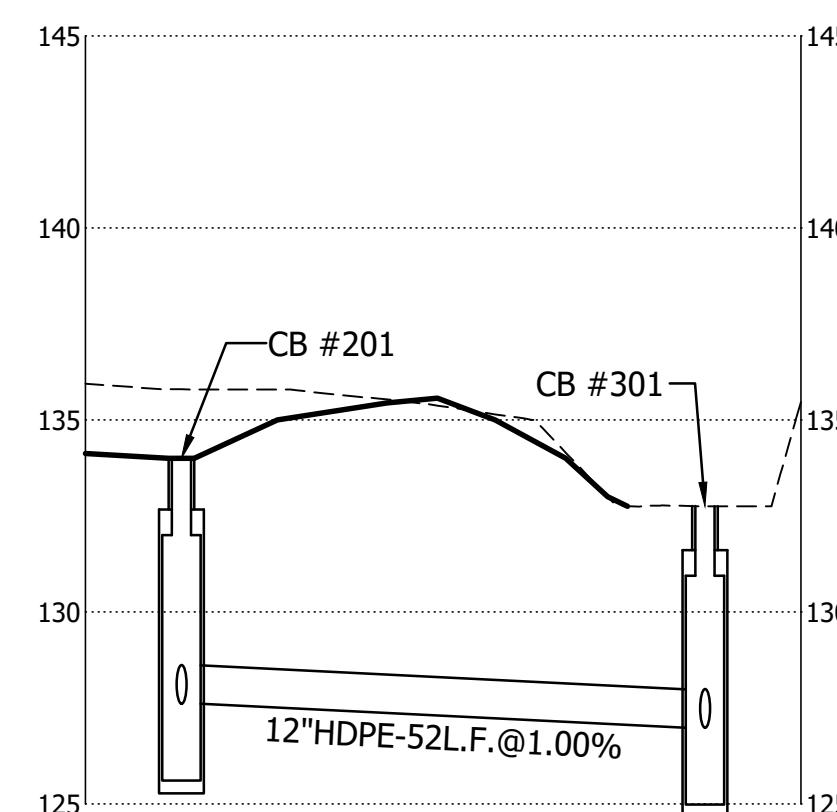
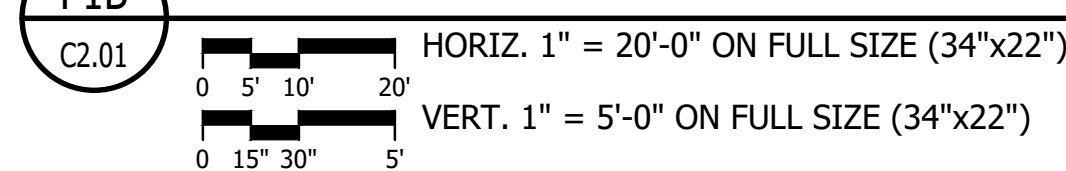
SHEET 23 OF 102
BID SET



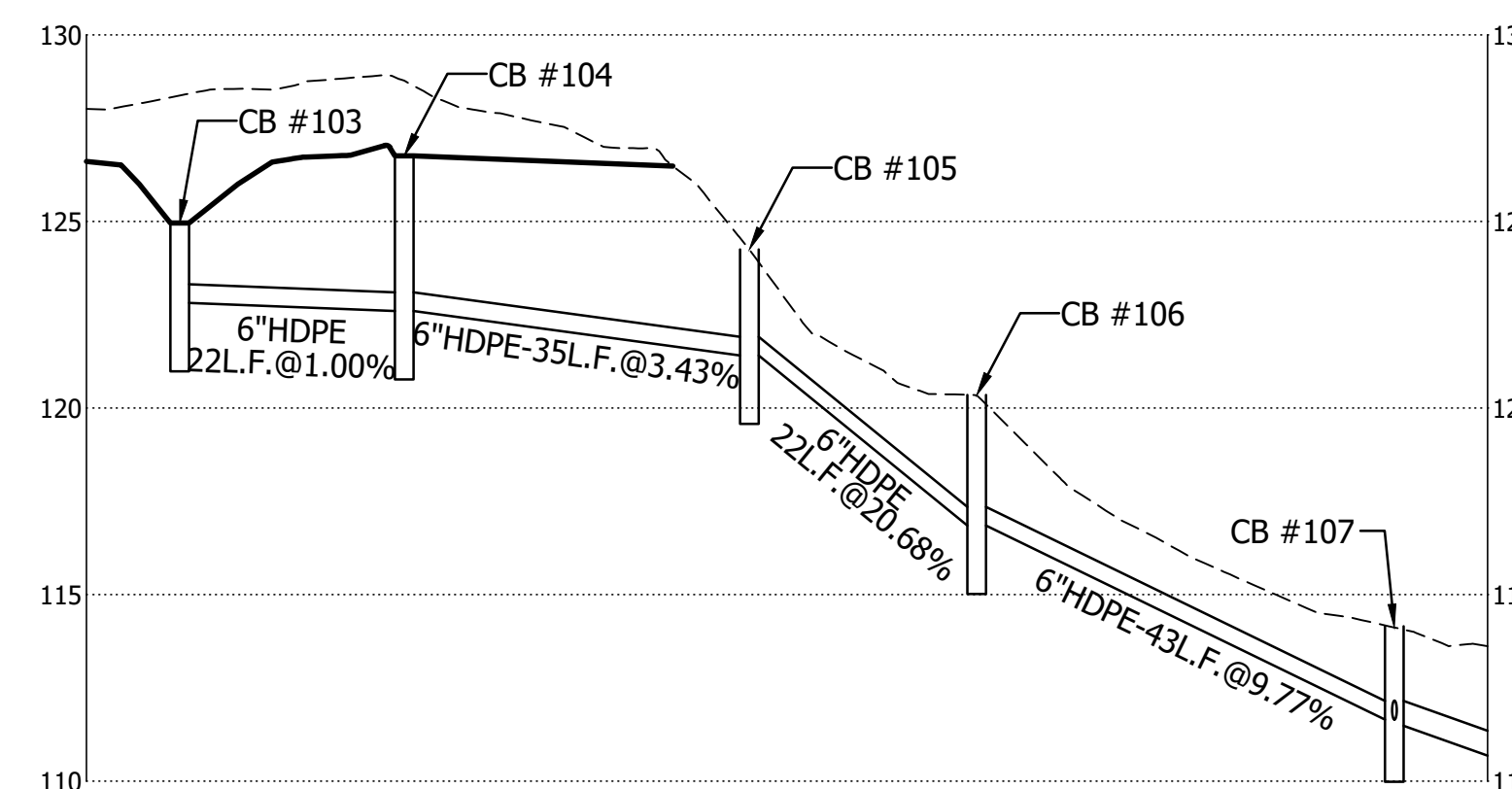
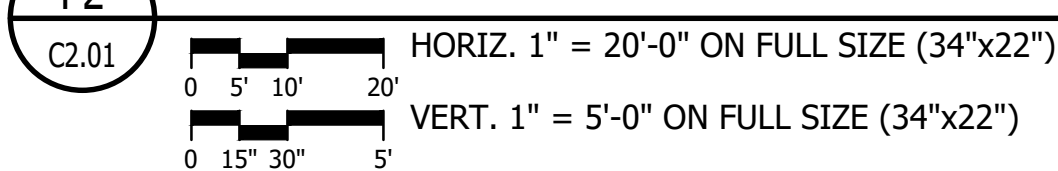
P1A STORM DRAIN PROFILE - FROM CB #501 TO CB #201



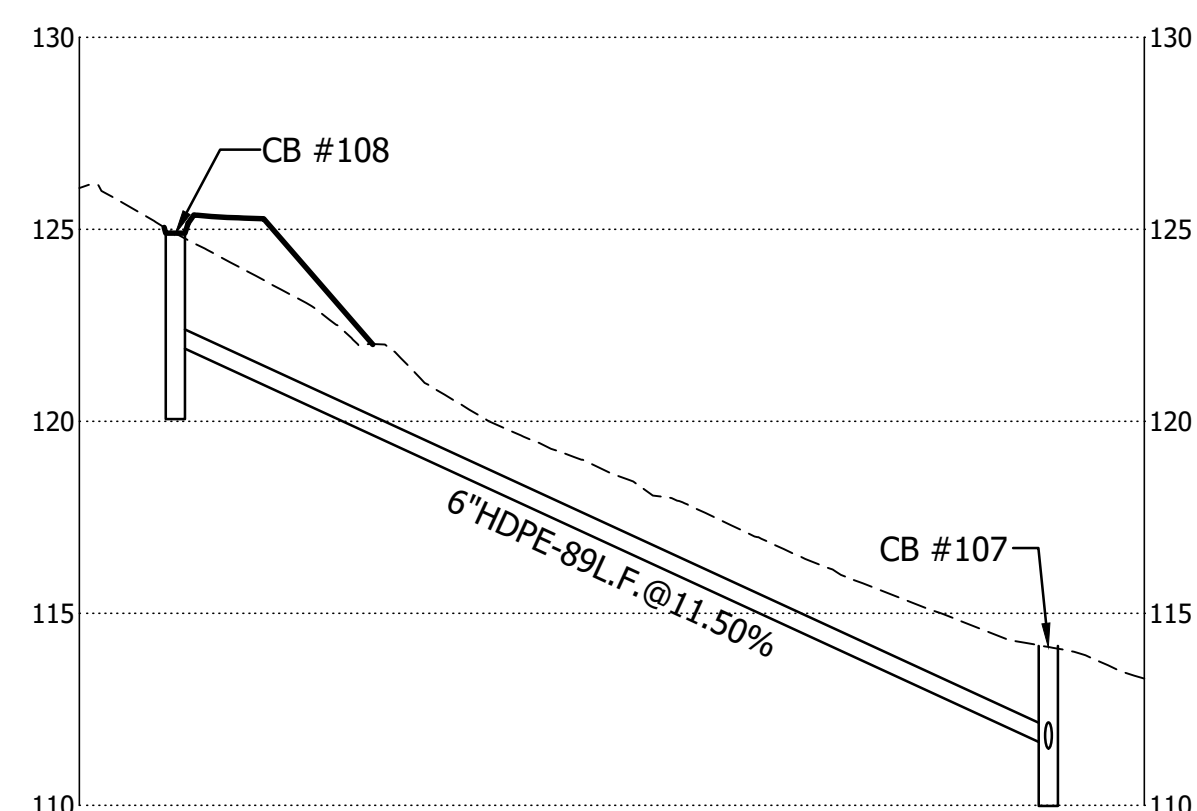
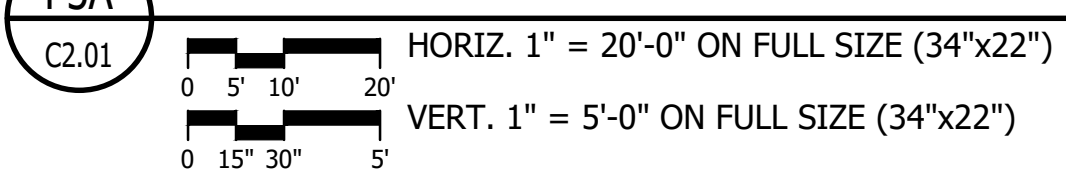
P1B STORM DRAIN PROFILE FROM CB #201 TO CB #101



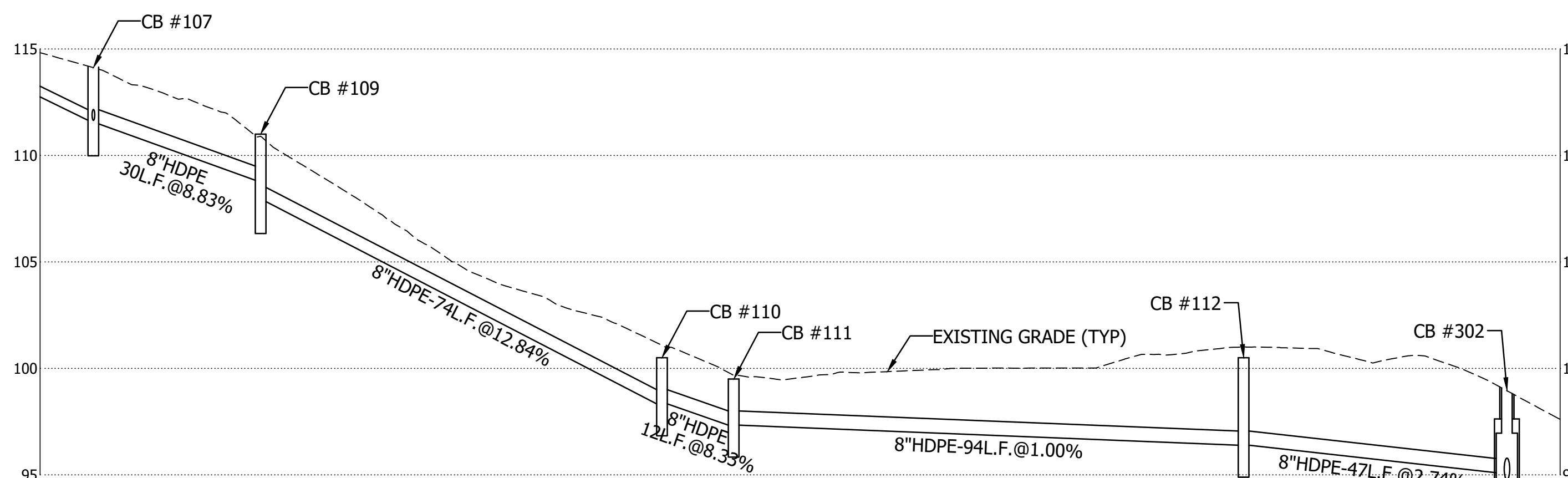
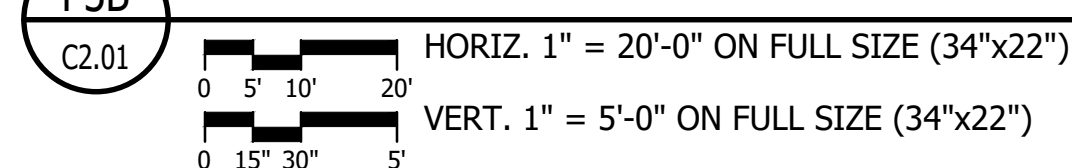
P2 STORM DRAIN PROFILE FROM CB #201 TO CB #301



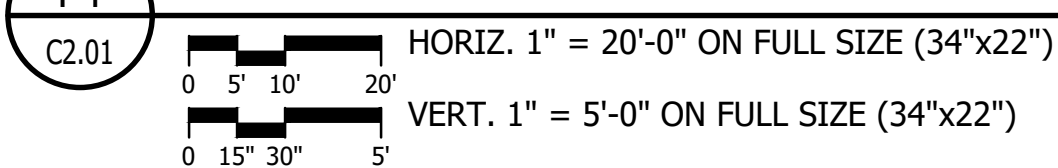
P3A STORM DRAIN PROFILE FROM CB #103 TO CB #107



P3B STORM DRAIN PROFILE FROM CB #108 TO CB #107



P4 STORM DRAIN PROFILE - FROM CB #107 TO CB #302



NOTE: REMOVABLE HDP TEE (SILT TRAP) ON THE OUTLET PIPES OF CATCH BASINS ARE NOT SHOWN FOR CLARITY (TYP)

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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

STORM DRAIN PROFILES

C2.01

SCALE AS NOTED

PARKS FILE#

	DATE
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	REVISIONS

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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

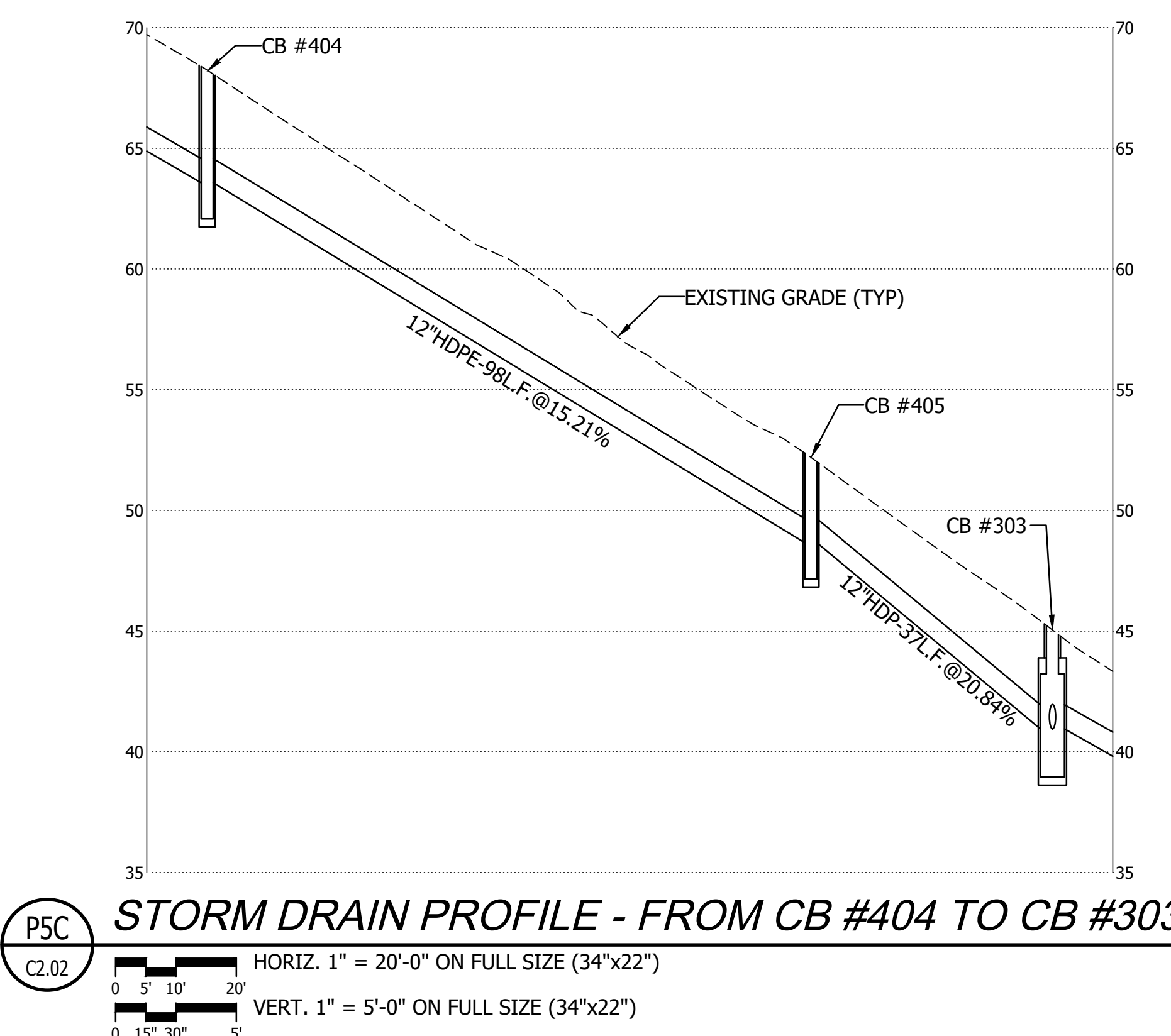
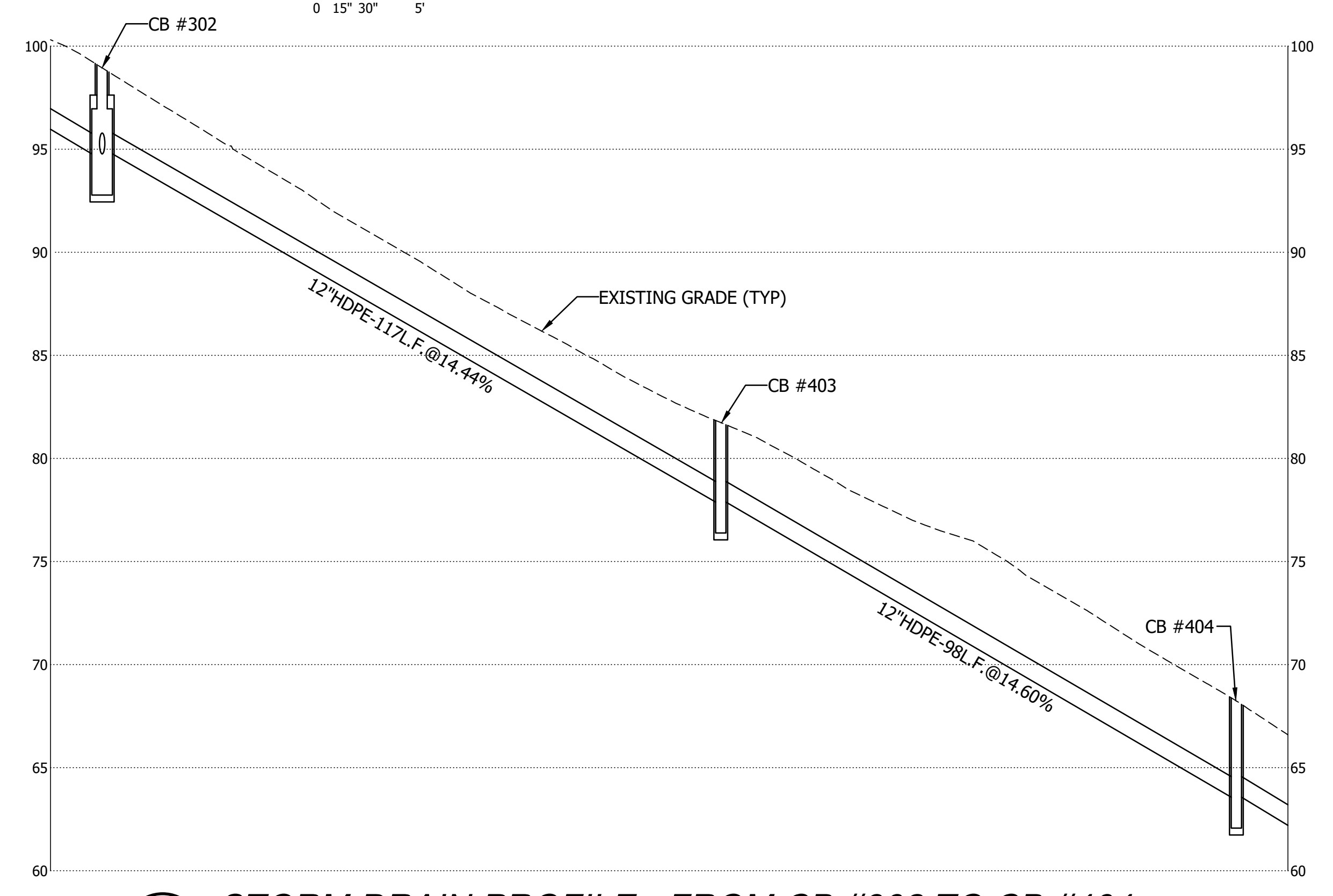
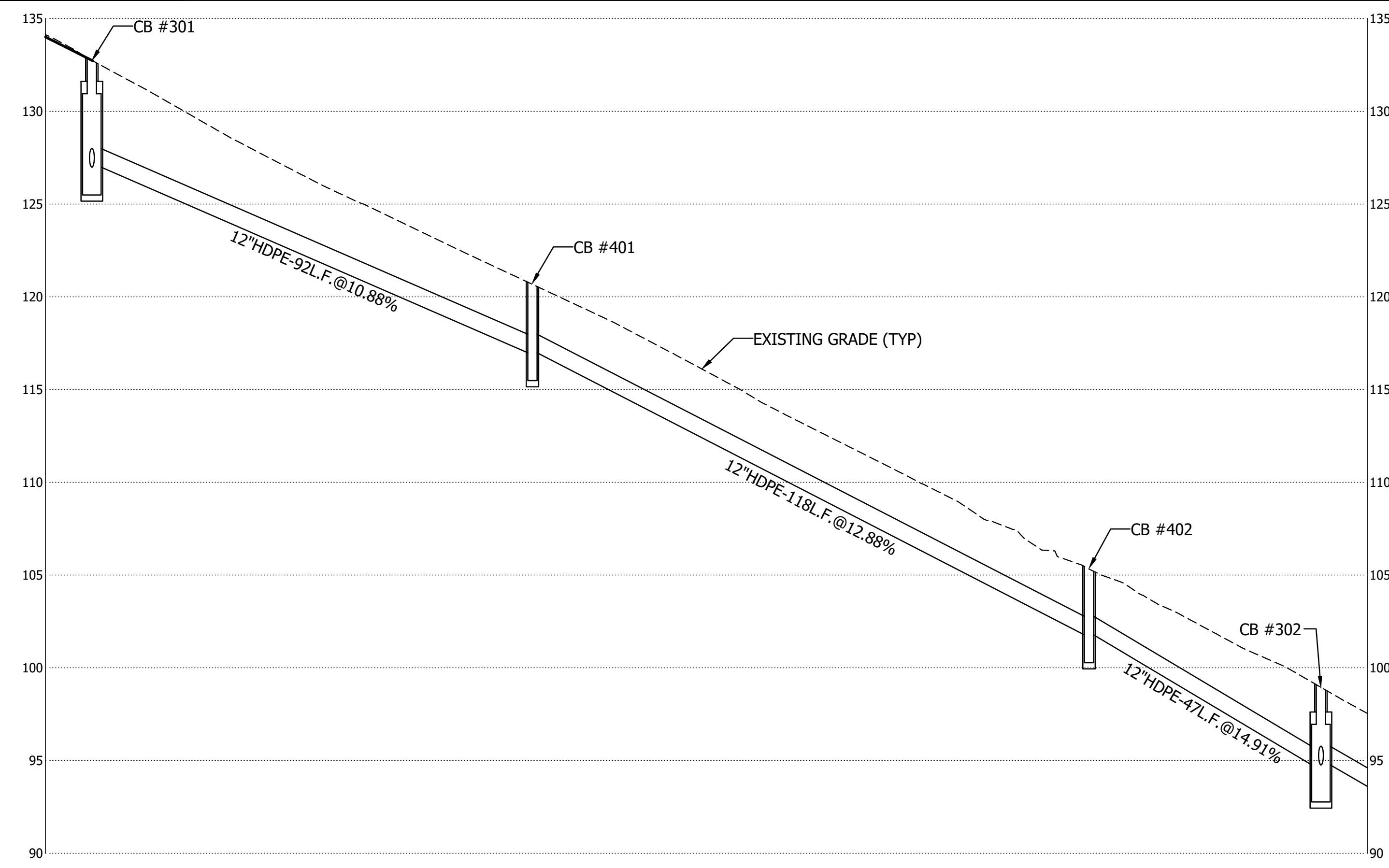
DAY USE DEVELOPMENT

STORM DRAIN PROFILES

C2.02

SCALE: **AS NOTED**

PARKS FILE#



NOTE: REMOVABLE HDP TEE (SILT TRAP) ON THE OUTLET PIPES OF CATCH BASINS ARE NOT SHOWN FOR CLARITY (TYP)

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SHEET 25 OF 102
BID SET

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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

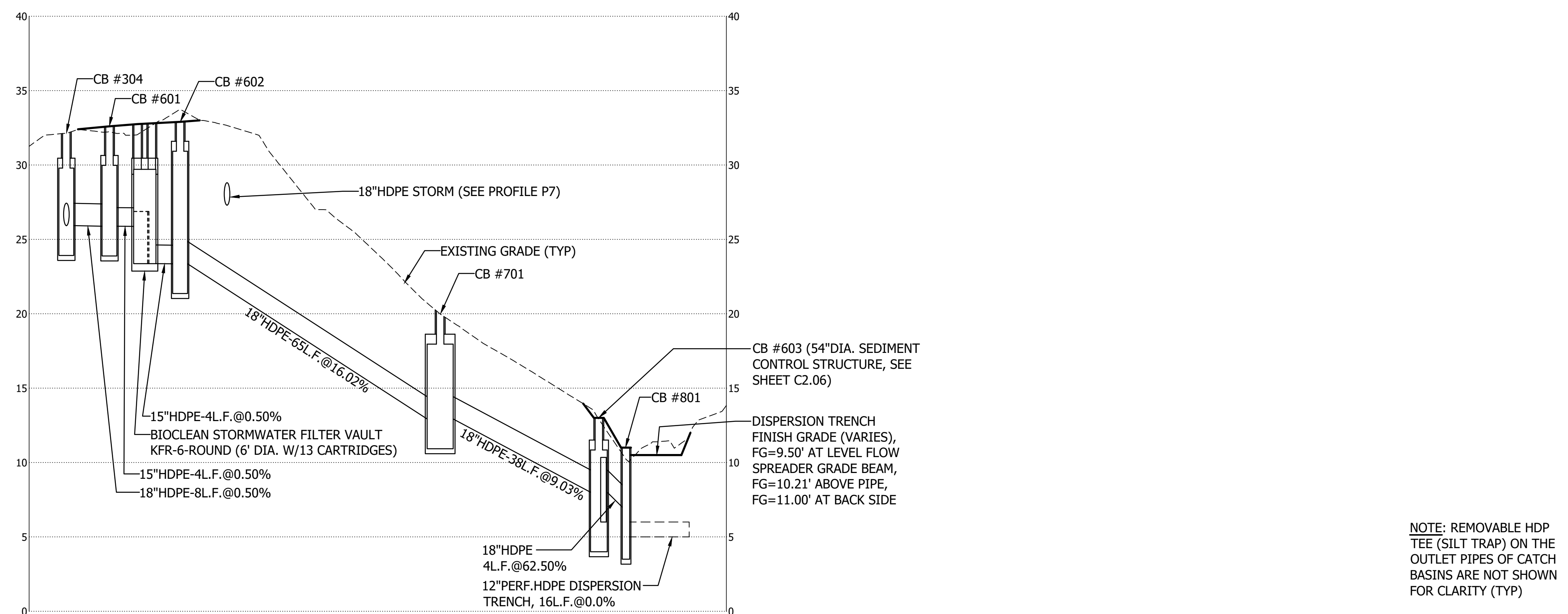
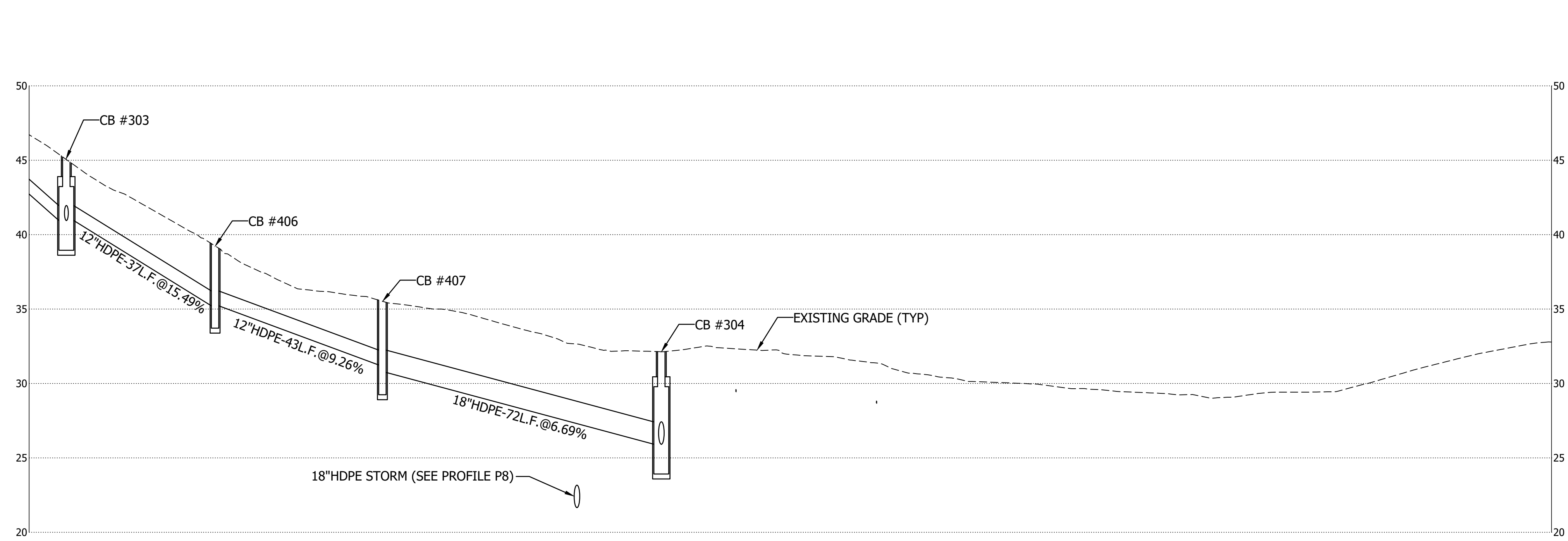
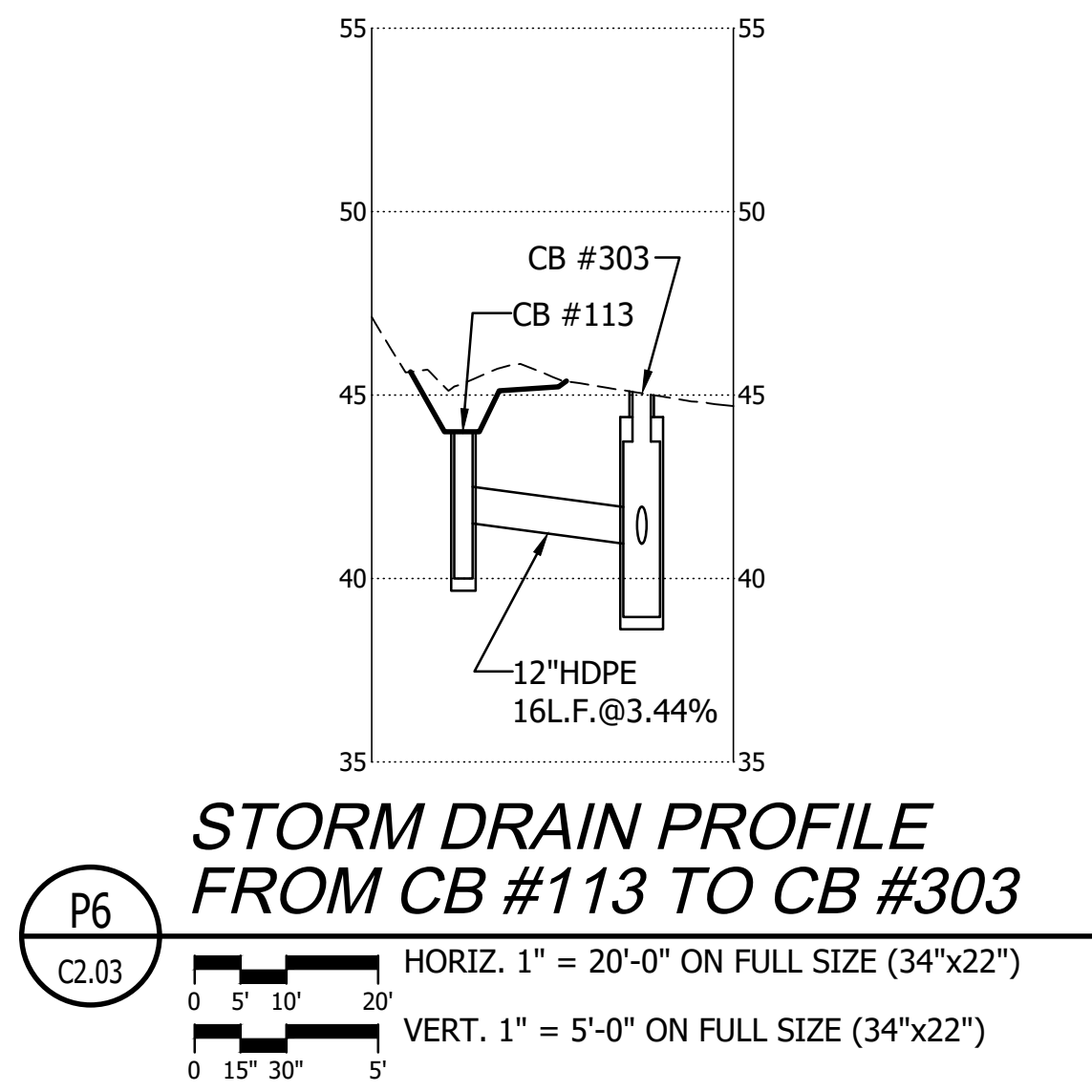
DAY USE DEVELOPMENT

STORM DRAIN PROFILES

C2.03

SCALE AS NOTED

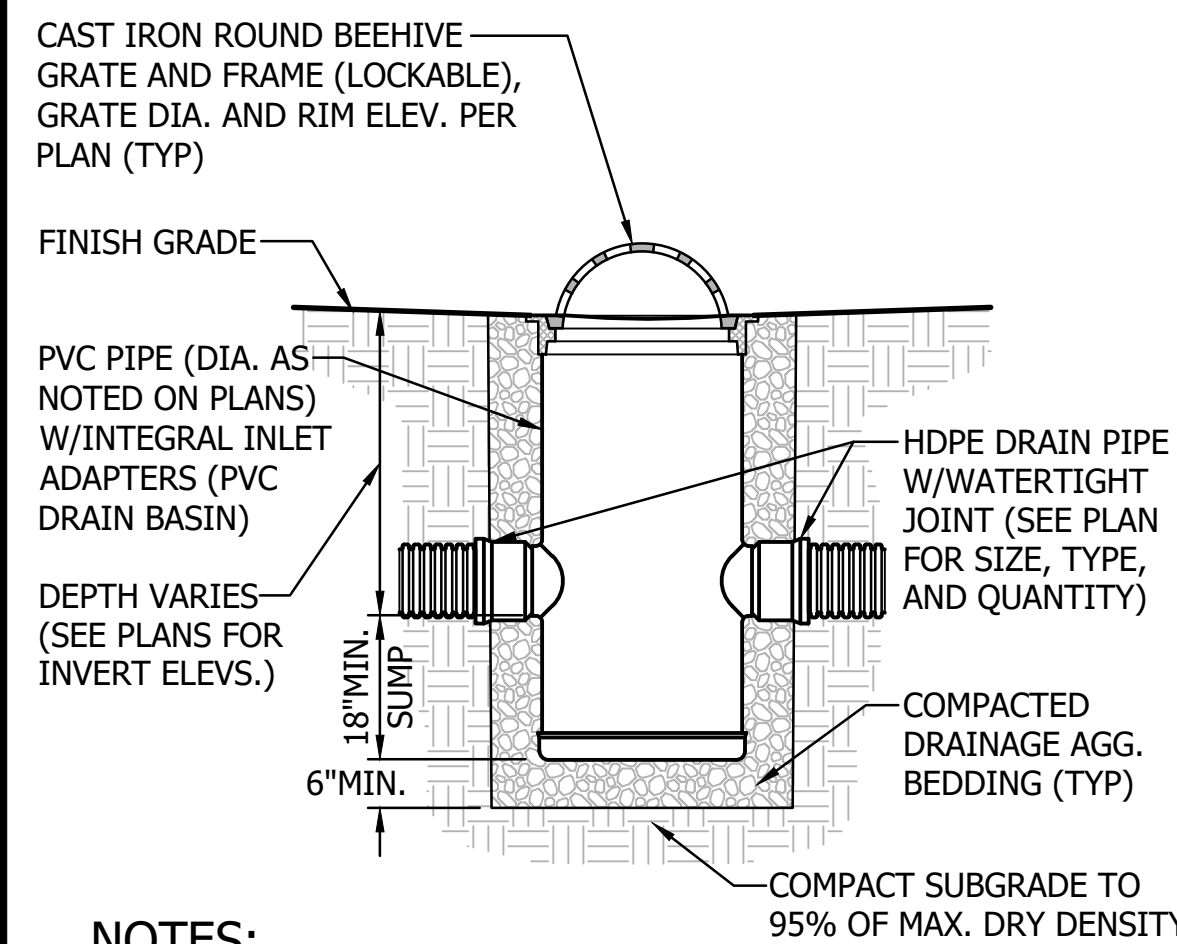
PARKS FILE#



NOTE: REMOVABLE HDP TEE (SILT TRAP) ON THE OUTLET PIPES OF CATCH BASINS ARE NOT SHOWN FOR CLARITY (TYP)

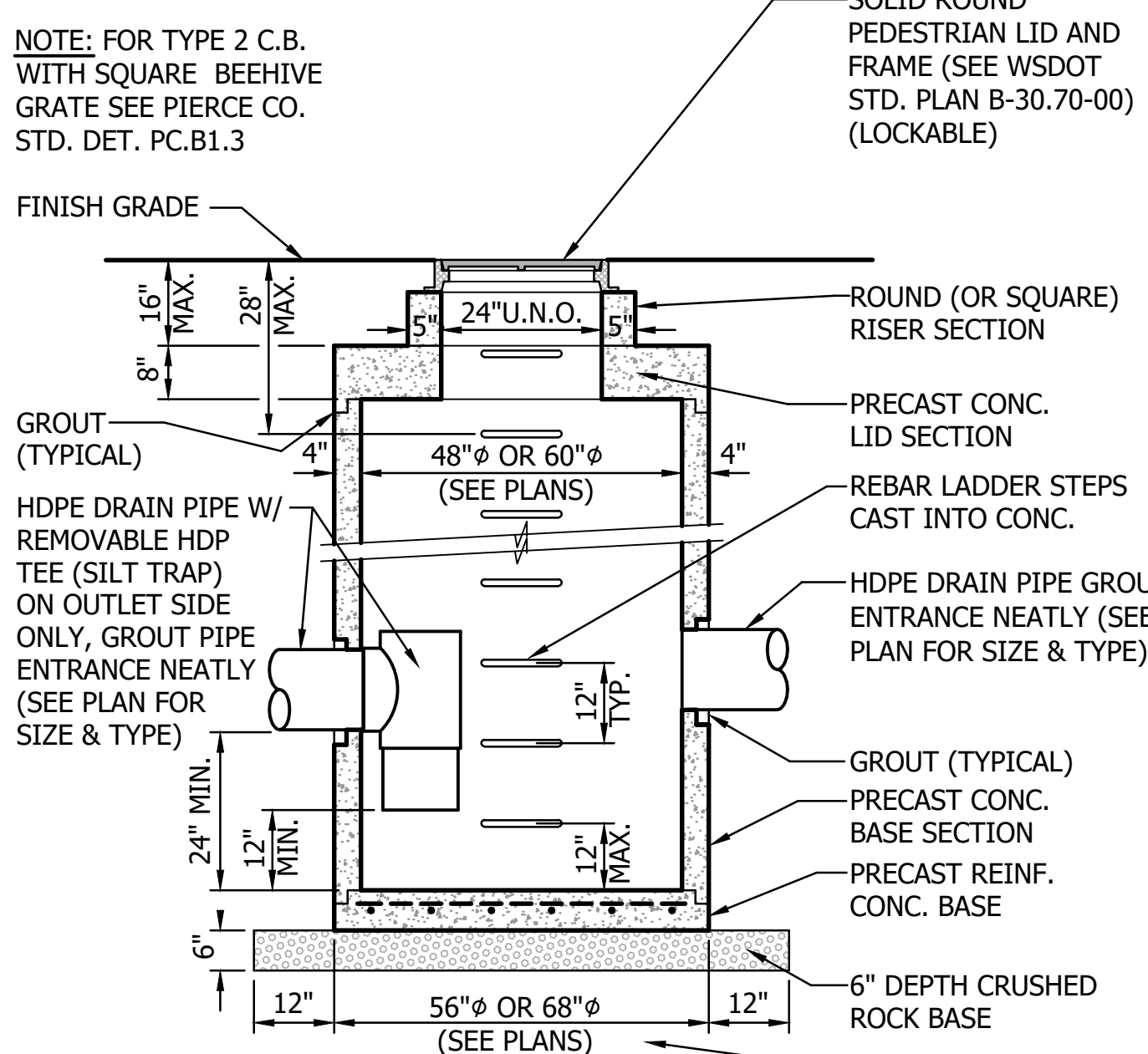
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SHEET 26 OF 102
BID SET



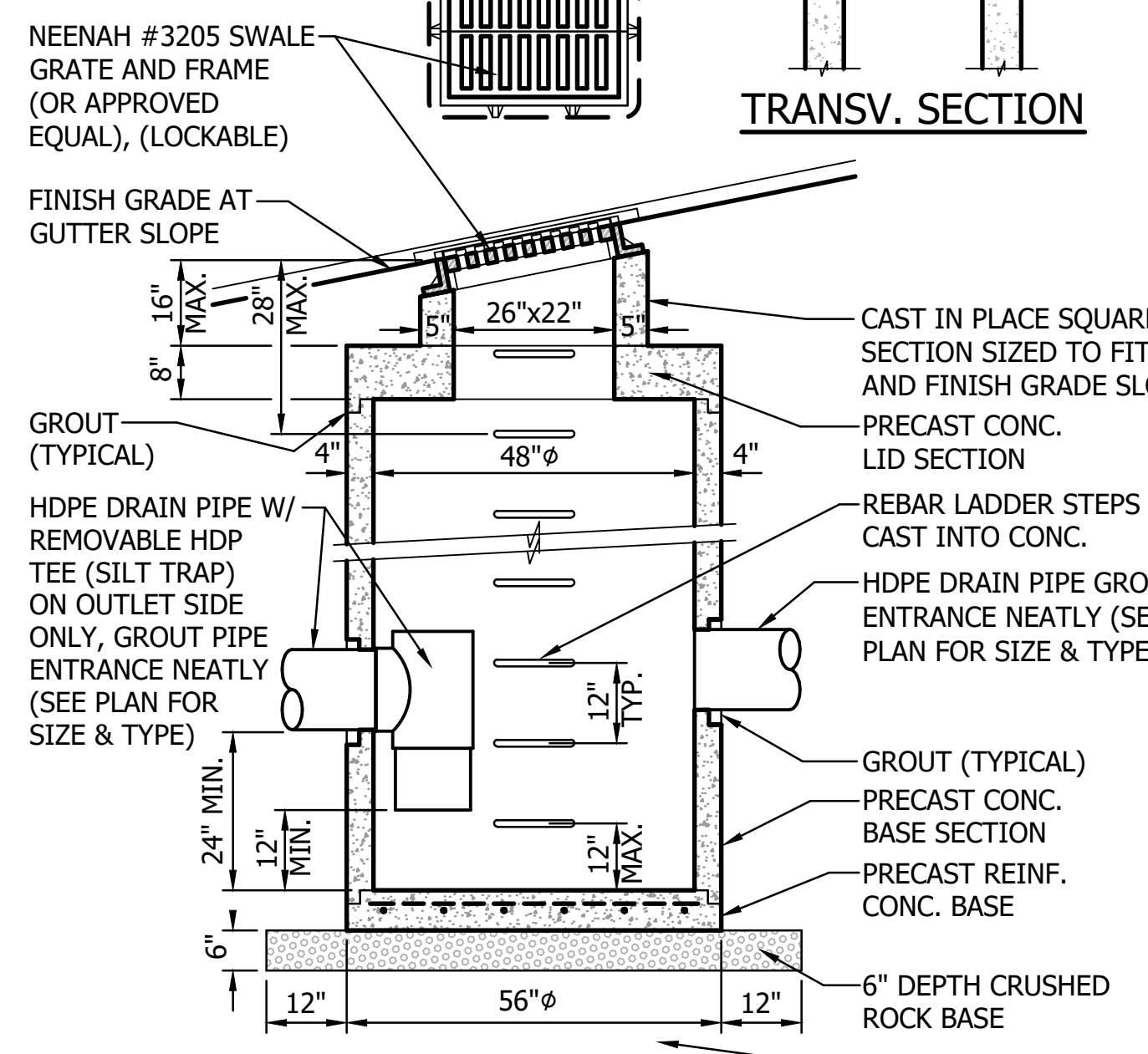
- NOTES:**
- USE ADDITIONAL SECTIONS OF PVC PIPE AS REQUIRED FOR INVERT ELEVATIONS SHOWN ON PLANS (TYP).
 - SLOPE SURROUNDING GRADES TOWARDS DRAIN BASIN (SEE GRADING PLANS).

1 PVC CATCH BASIN WITH ROUND BEEHIVE GRATE
 C2.04 1/2" = 1'-0" ON FULL SIZE (34"x22")



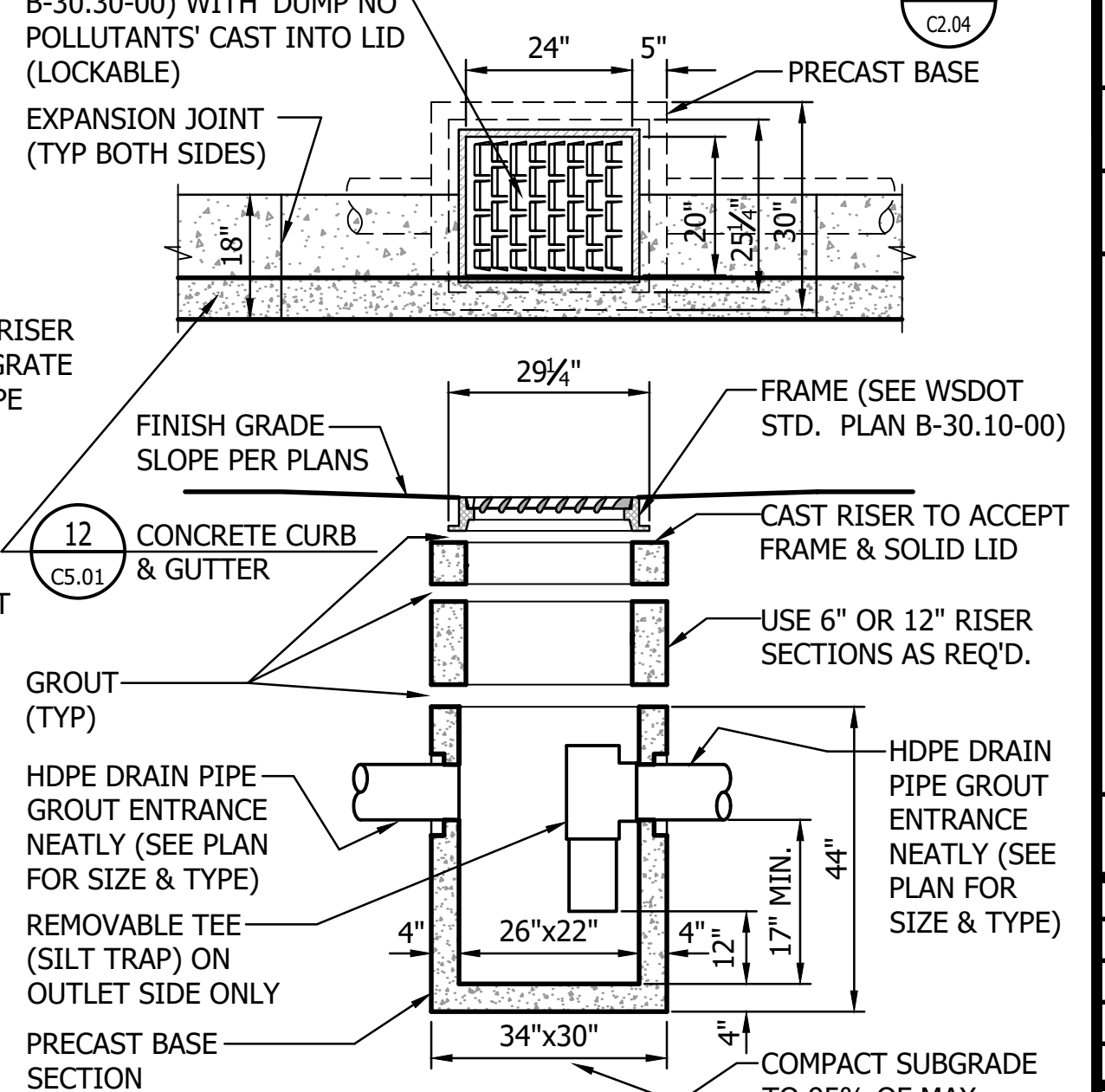
- NOTES:**
- CATCH BASIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH WSDOT STANDARD PLANS B-10.20-00 & B-30.90-00.

2 TYPE 2 CATCH BASIN W/ROUND SOLID LID OR BEEHIVE GRATE
 C2.04 1/2" = 1'-0" ON FULL SIZE (34"x22")



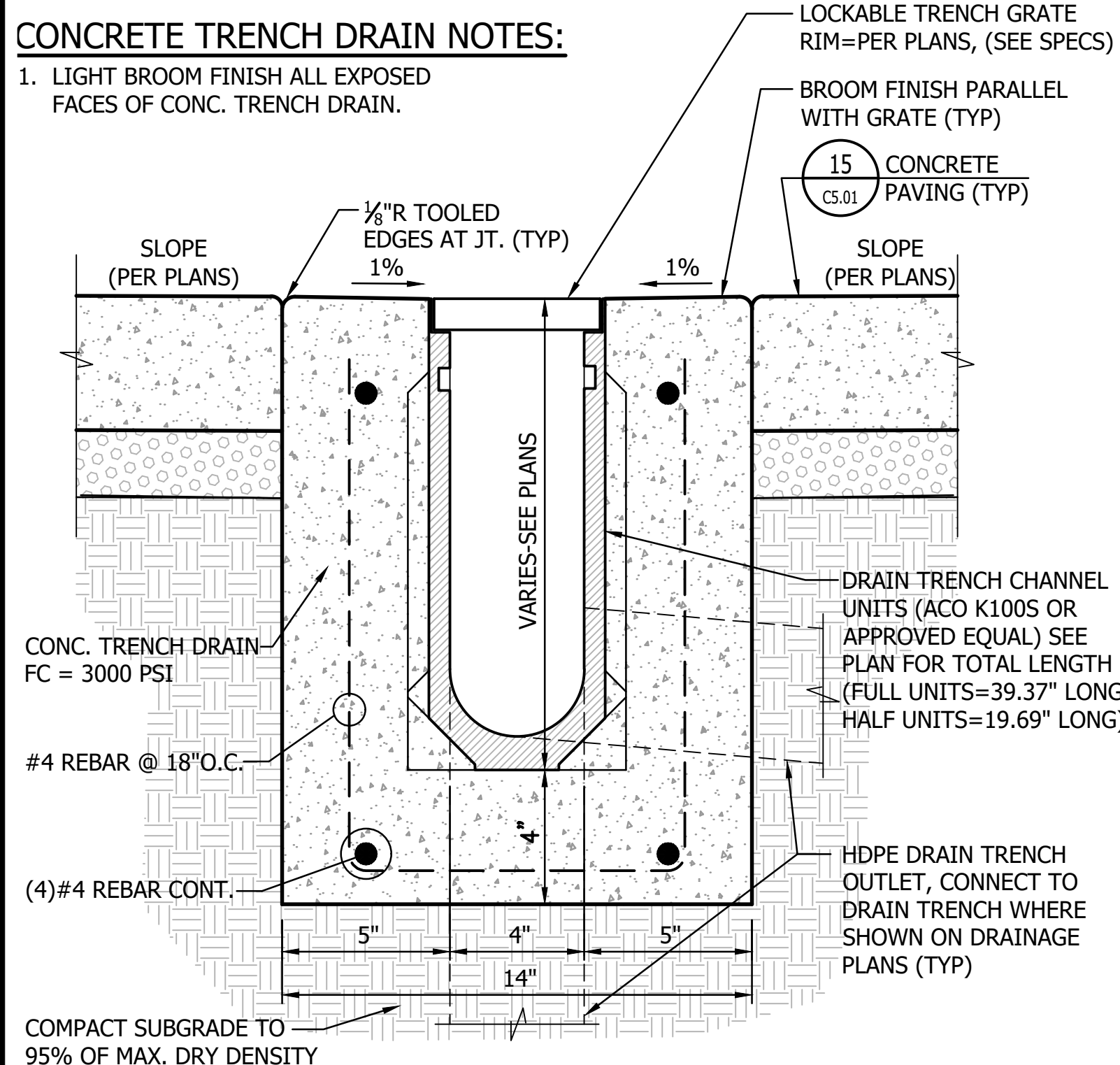
- NOTES:**
- CATCH BASIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH WSDOT STANDARD PLANS B-10.20-00 & B-30.90-00.

3 TYPE 2 CATCH BASIN W/SQUARE SWALE GRATE
 C2.04 1/2" = 1'-0" ON FULL SIZE (34"x22")

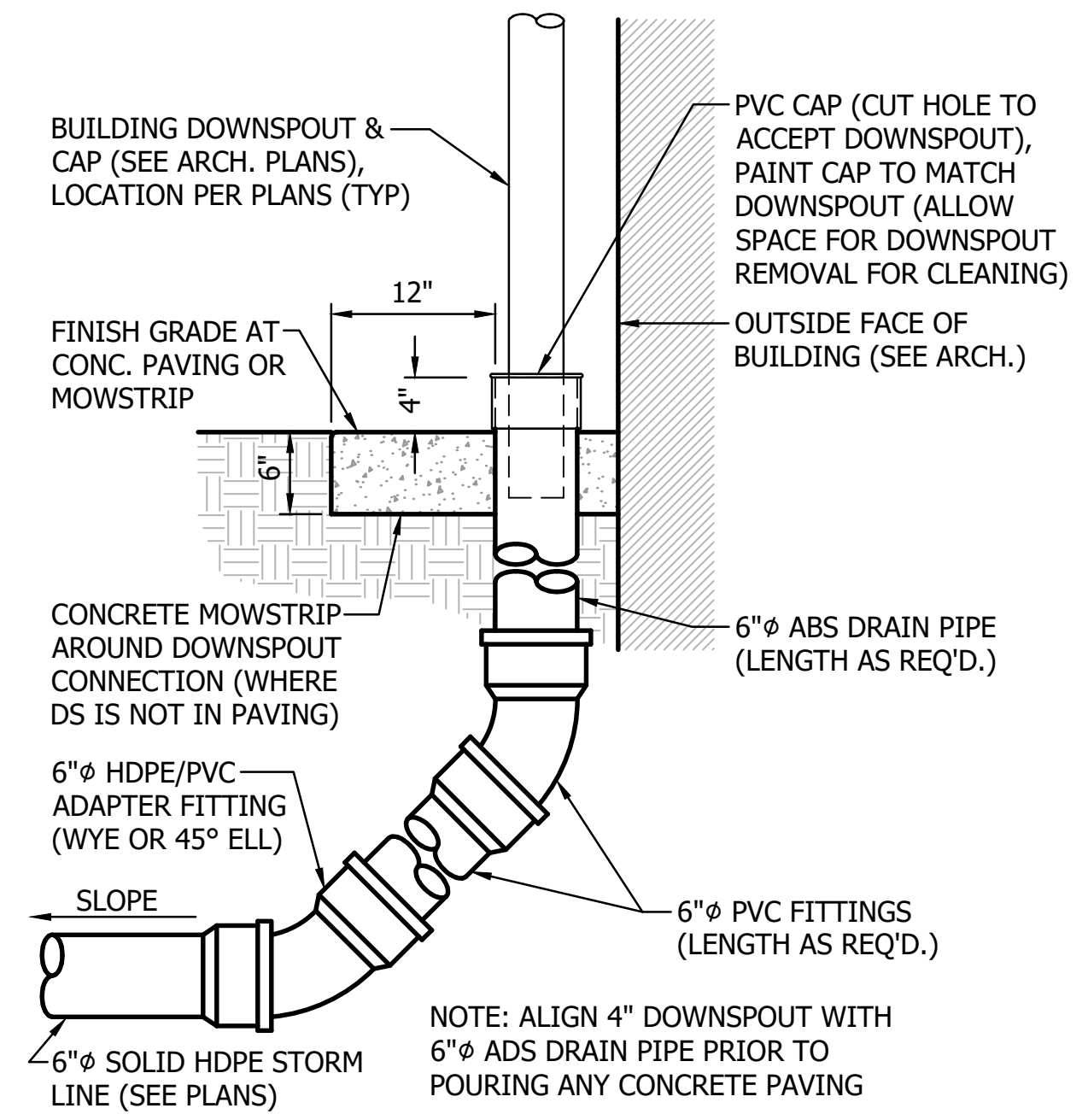


- NOTES:**
- CATCH BASIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH WSDOT STANDARD PLANS B-5.20-00 & B-30.50-00.

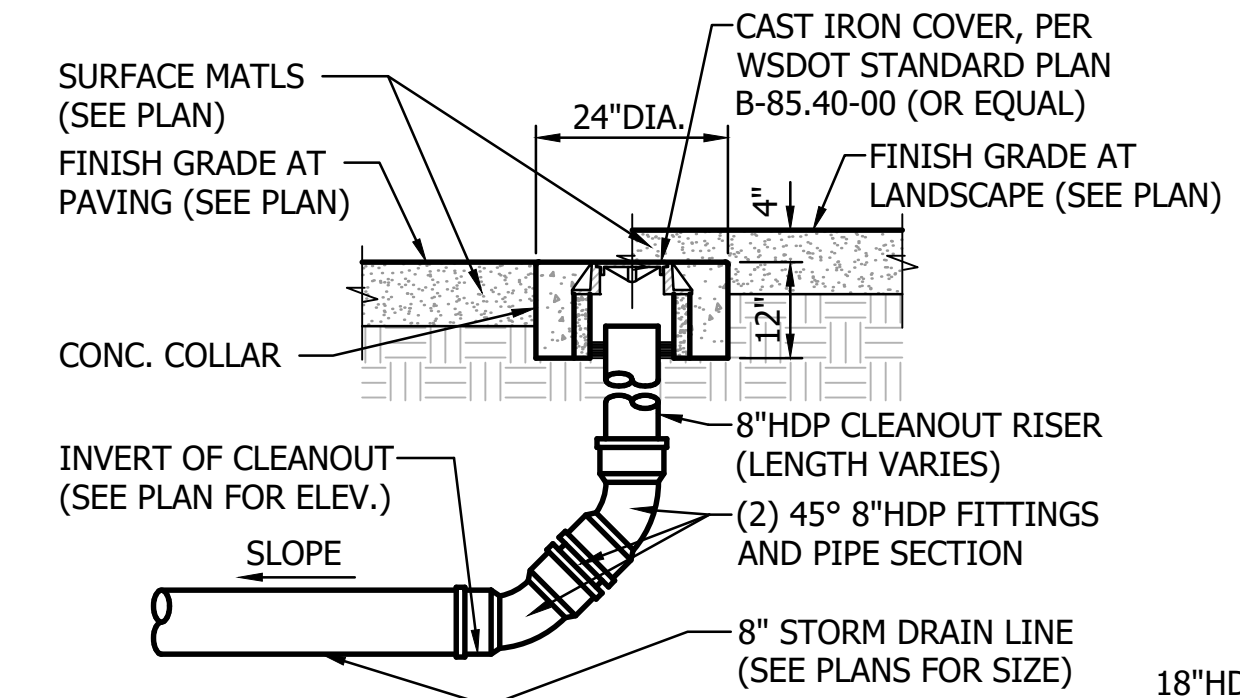
4 TYPE 1 CATCH BASIN W/SQUARE VANED GRATE
 C2.04 1/2" = 1'-0" ON FULL SIZE (34"x22")



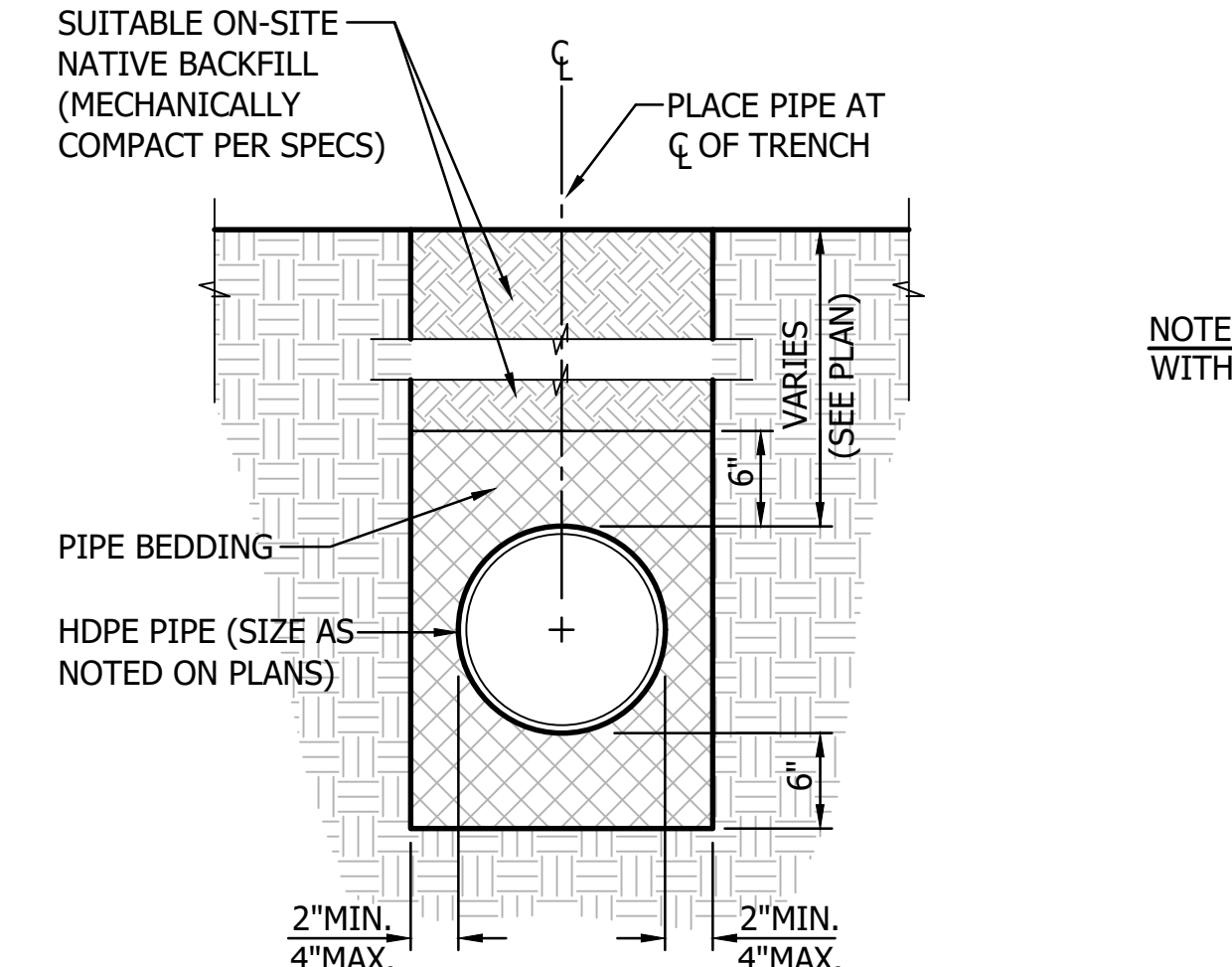
5 CONCRETE TRENCH DRAIN
 C2.04 3" = 1'-0" ON FULL SIZE (34"x22")



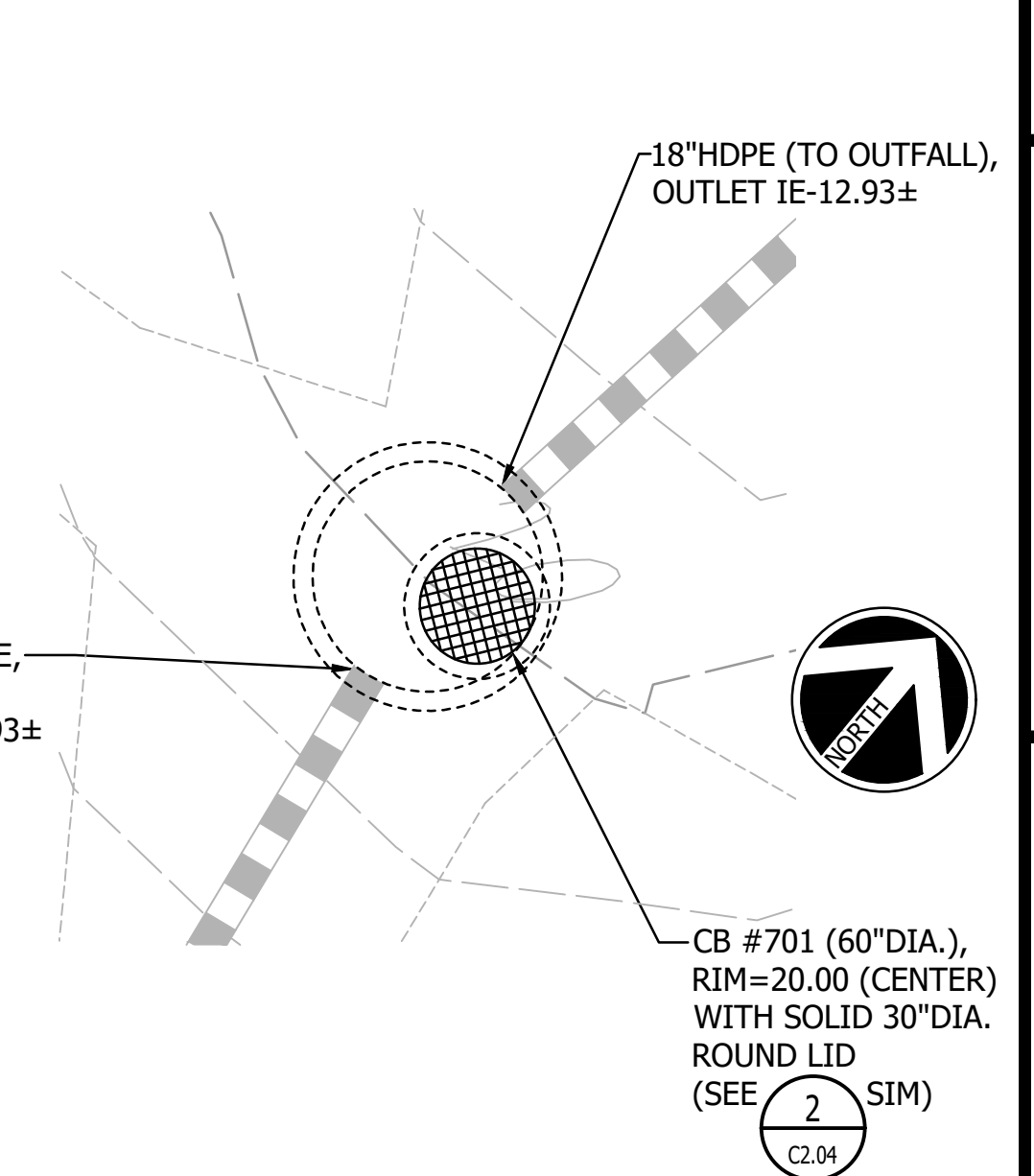
6 DOWNSPOUT CONNECTION
 C2.04 1" = 1'-0" ON FULL SIZE (34"x22")



7 HDPE CLEANOUT
 C2.04 1/2" = 1'-0" ON FULL SIZE (34"x22")



8 SOLID HDPE STORM DRAIN
 C2.04 1" = 1'-0" ON FULL SIZE (34"x22")



9 60" DIA. CB #701 - PLAN
 C2.04 1/4" = 1'-0" ON FULL SIZE (34"x22")

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME		DATE
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DRAWN	SAJ	NOV. 2023
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GARY ROBERT JAY
 STATE OF WASHINGTON
 LICENSED LANDSCAPE ARCHITECT
 SHAWN ALLAN JENSEN
 LICENSE No. 1408
 EXPIRES ON 04/04/2025
 PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK
DAY USE DEVELOPMENT

STORM DRAIN SECTIONS & DETAILS

C2.04
 SCALE AS NOTED
 PARKS FILE#

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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

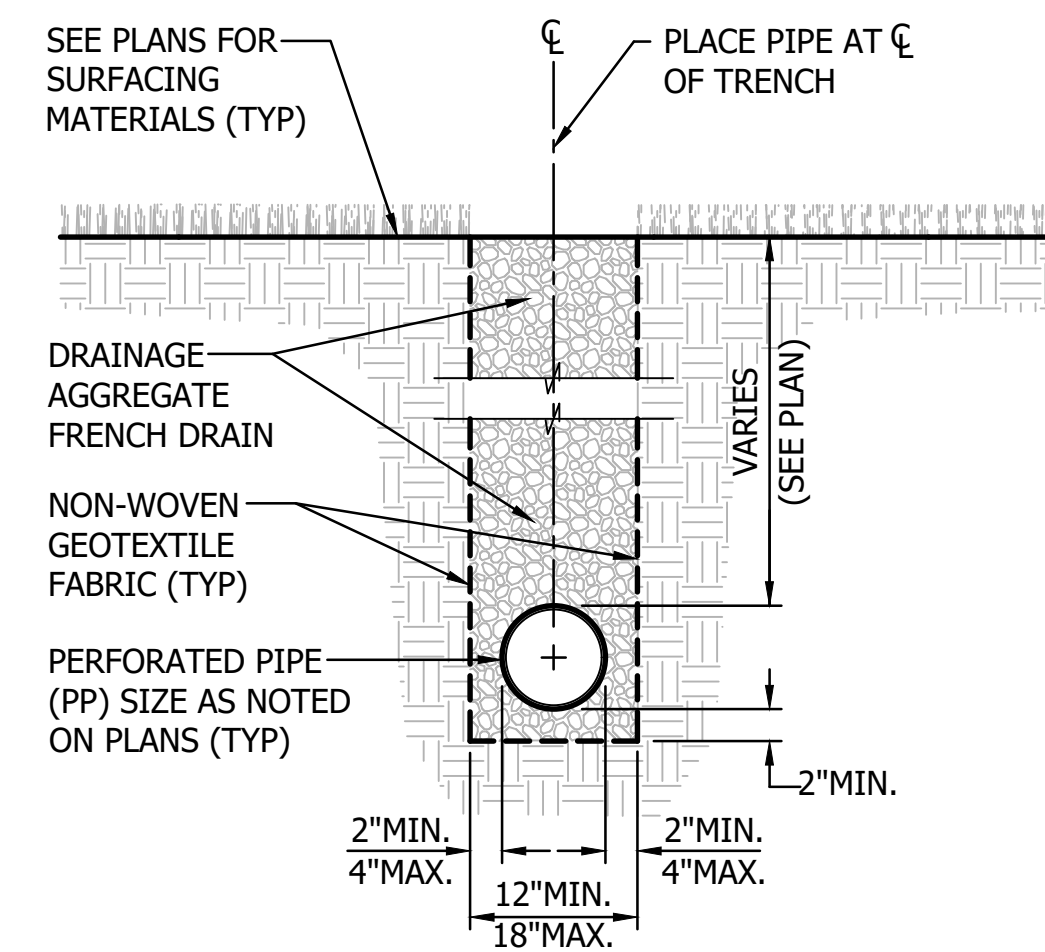
DAY USE DEVELOPMENT

STORM DRAIN SECTIONS & DETAILS

C2.05

SCALE AS NOTED

PARKS FILE#



PERF. PIPE (PP) FRENCH DRAIN IN DRAINAGE AGG.

10
C2.05

1" = 1'-0" ON FULL SIZE (34"x22")

SITE SPECIFIC DATA*

PROJECT NUMBER			
PROJECT NAME	KOPACHUCK STATE PARK		
PROJECT LOCATION	PIERCE COUNTY, WA		
STRUCTURE ID	KF-6-ROUND		
WATER QUALITY FLOW RATE (CFS)	0.244 CFS		
PEAK FLOW RATE (CFS)	2.045 CFS		
PEAK STORM DURATION (YEARS)	100 YR		
PIPE DATA	I.E.	MATERIAL	DIAMETER
INFLOW PIPE 1	25.86	HDPE	15
OUTFLOW PIPE 1	23.36	HDPE	15
RIM ELEVATION	R1=32.75(±), R2=32.80(±)		
SURFACE LOADING REQUIREMENT	HS20		
FRAME AND COVER	(2) Ø30"		
CORROSIVE SOIL CONDITIONS	NA		
KNOWN GROUNDWATER ELEVATION	NA		

NOTES: MAX PIPE SIZE 15"Ø.

*PER ENGINEER OF RECORD

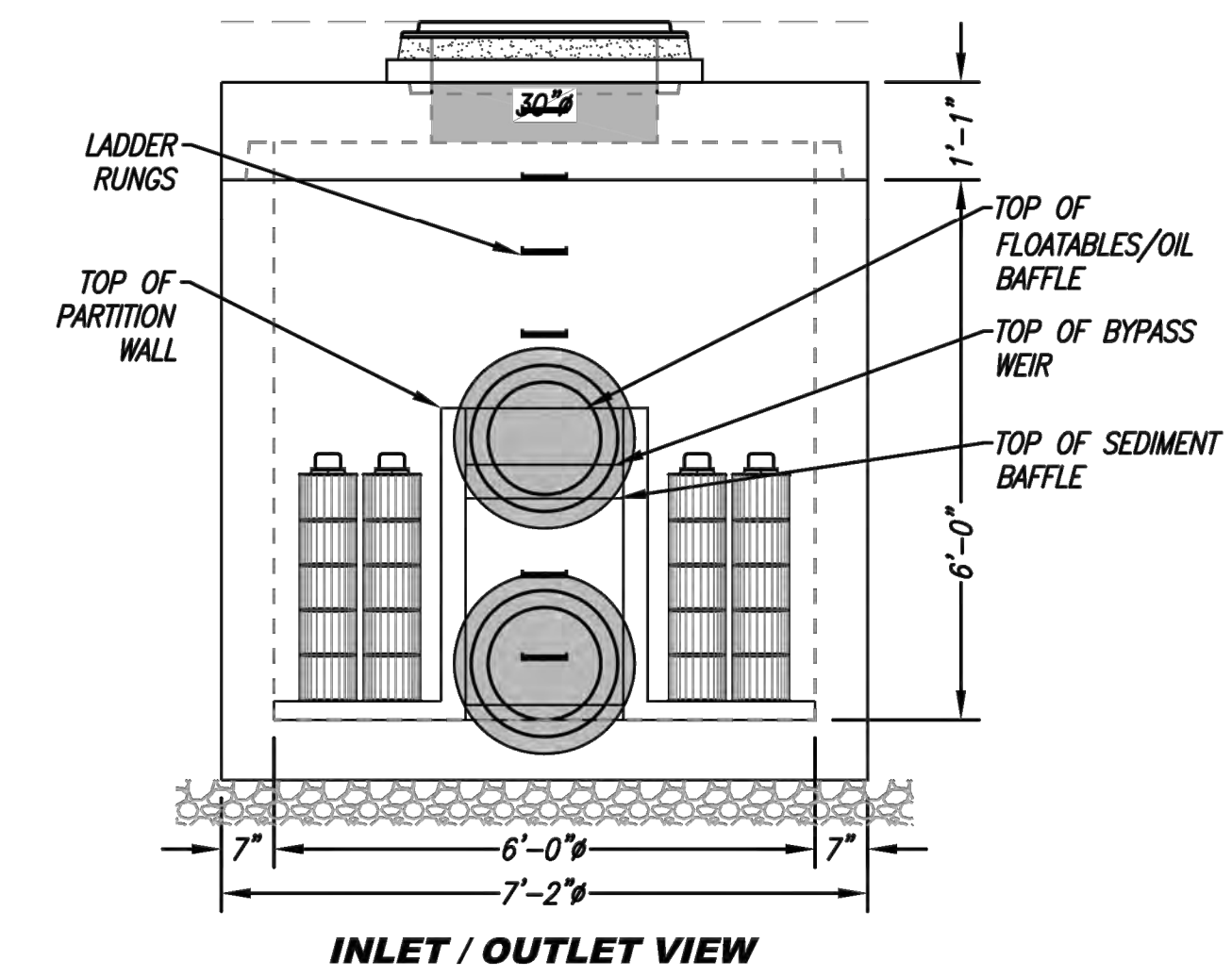
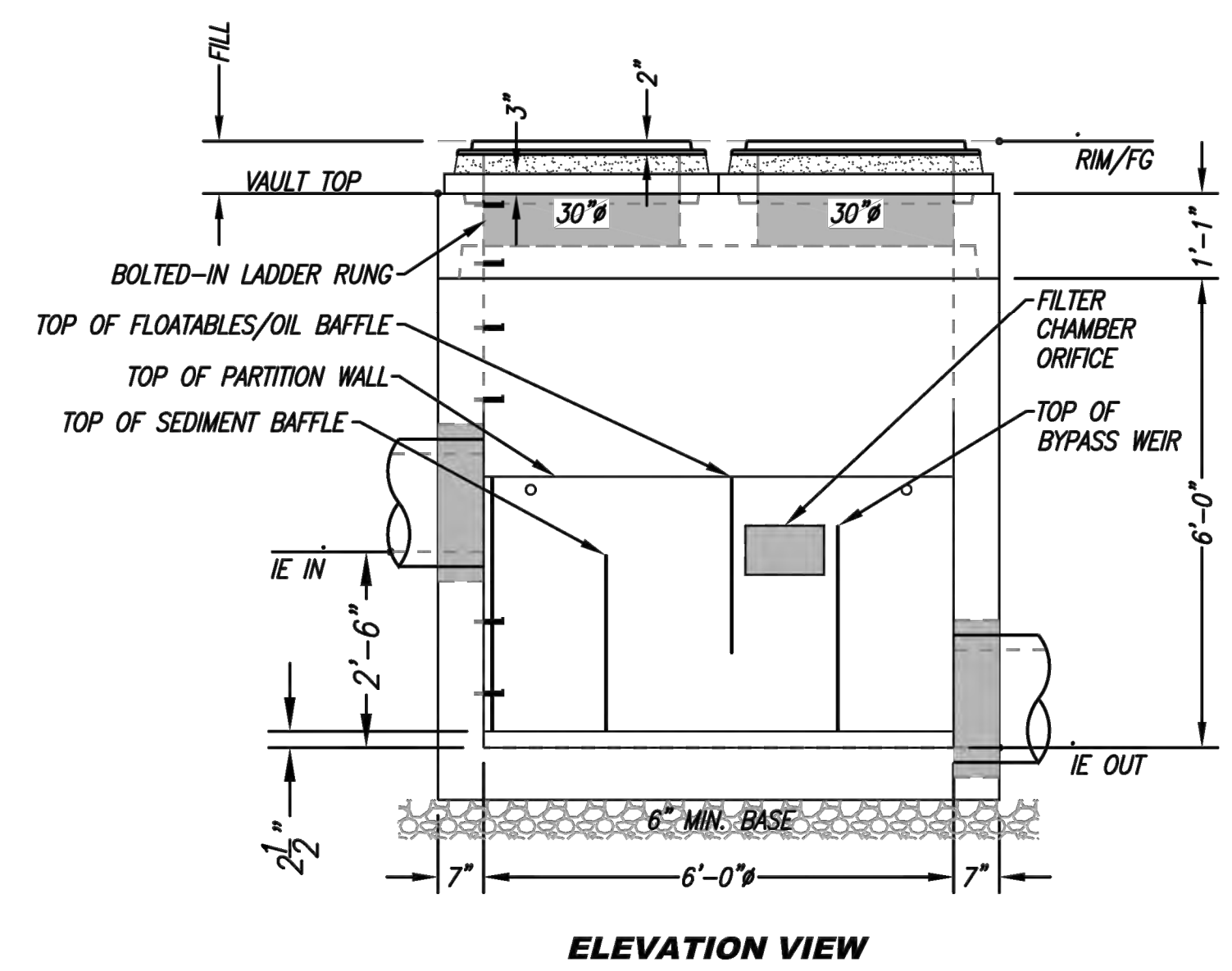
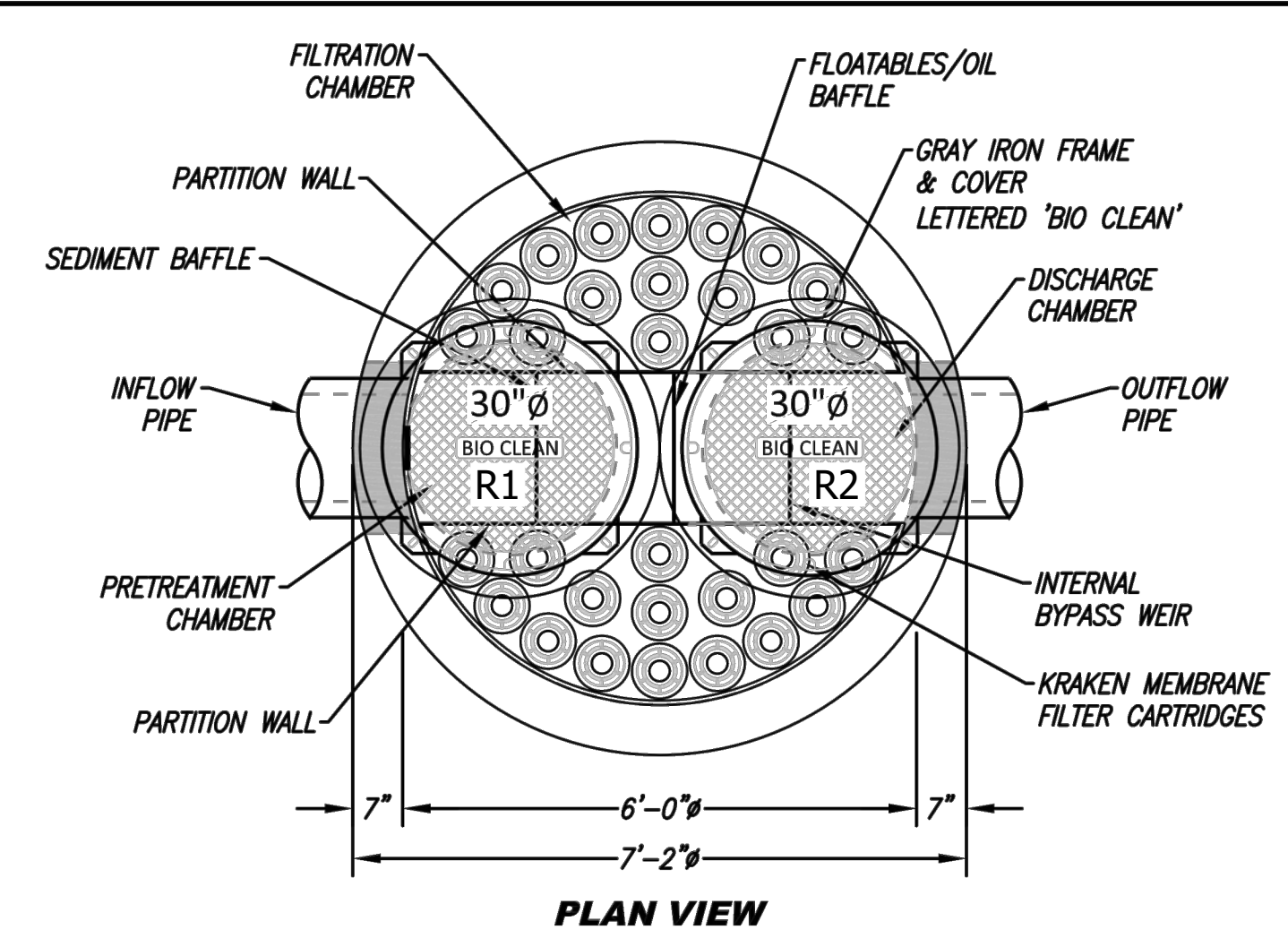
KRAKEN FILTER PERFORMANCE DATA

CARTRIDGE HEIGHT (IN)	30.75
CARTRIDGE FLOW RATE (GPM)	8.50
NUMBER OF CARTRIDGES	13 (MIN.)
TOTAL TREATMENT FLOW RATE (CFS)	0.57
SEDIMENT STORAGE CAPACITY (CF)	13.94

- INSTALLATION NOTES**
- CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE KRAKEN FILTER UNIT AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURER'S SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURER'S CONTRACT.
 - MANUFACTURER RECOMMENDS A 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE FOR VERIFYING PROJECT ENGINEER'S RECOMMENDED BASE SPECIFICATIONS.
 - ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE (PIPES CANNOT INTRUDE BEYOND FLUSH).
 - ALL GAPS AROUND PIPES SHALL BE SEALED WATERTIGHT WITH A NON-SHRINK GROUT PER MANUFACTURER'S STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
 - CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL PIPES, RISERS, AND MANHOLES. ALL COVERS SHALL BE SHIPPED LOOSE. CONTRACTOR TO USE GROUT AND/OR BRICKS TO MATCH COVERS WITH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.

1:30 SCALE

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



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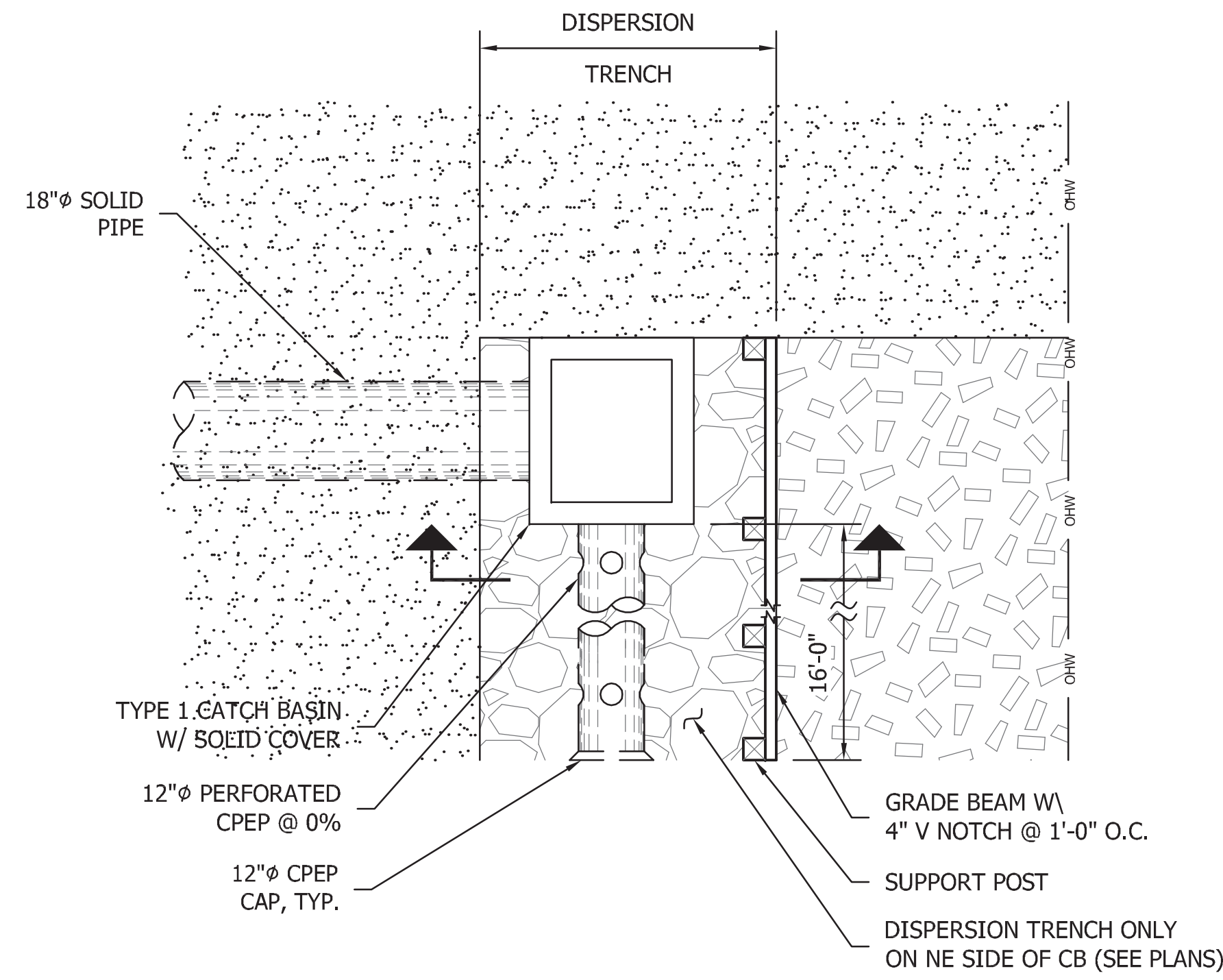


KRAKEN ROUND KFR-6
MEMBRANE FILTRATION SYSTEM WITH PRETREATMENT STANDARD DETAIL

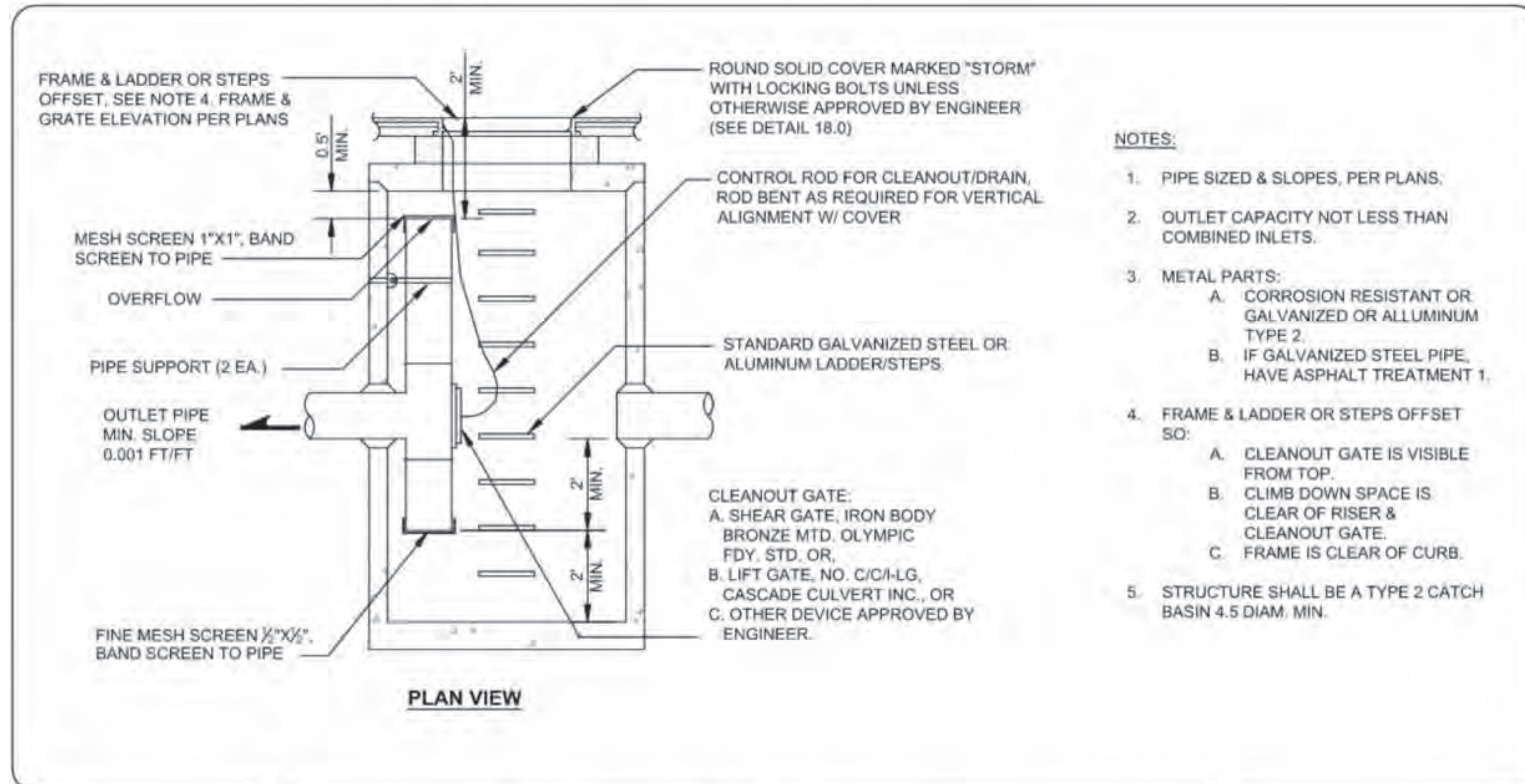
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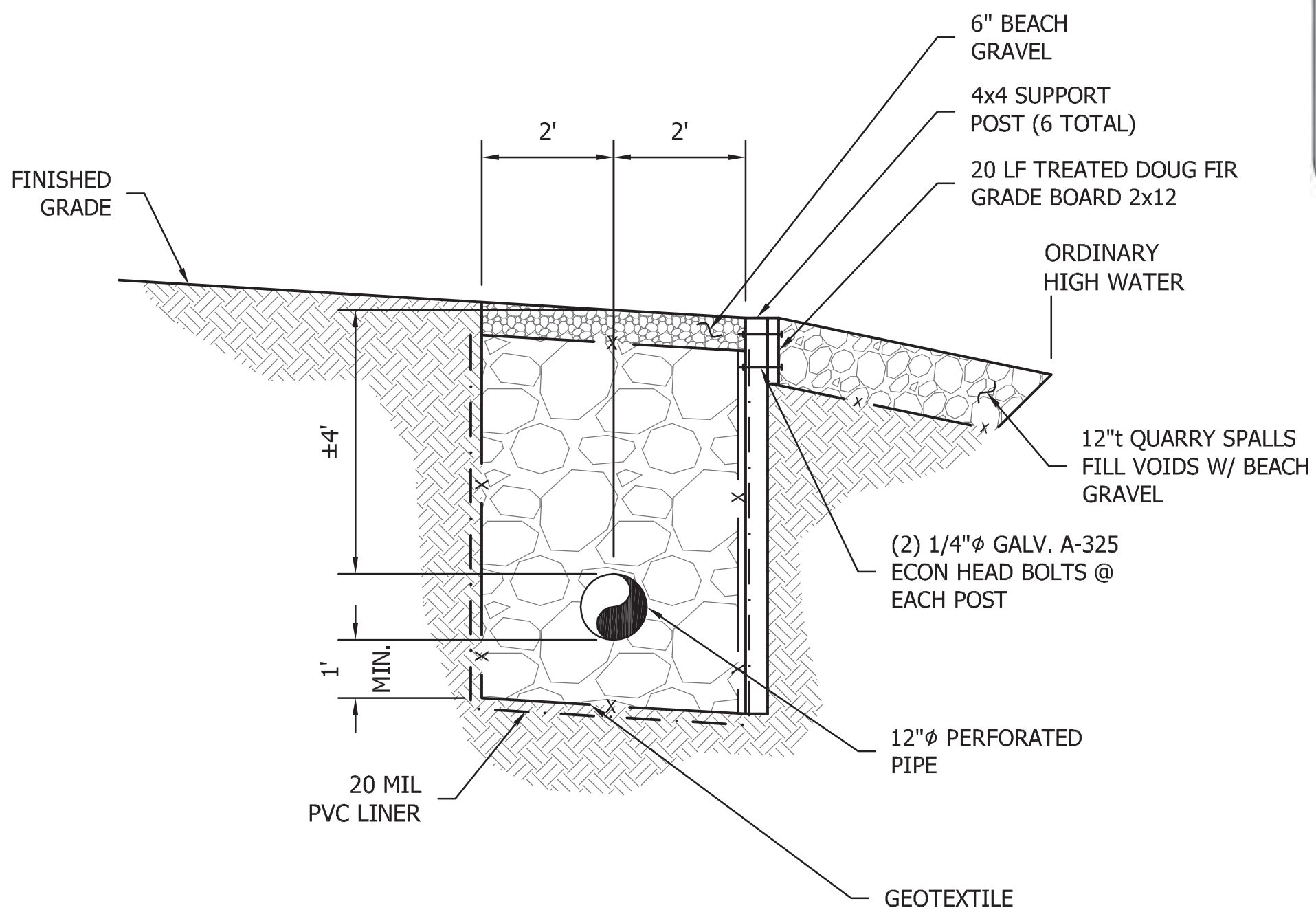
OUTFALL PLAN



PLAN VIEW

NOTES:

1. PIPE SIZED & SLOPES, PER PLANS.
2. OUTLET CAPACITY NOT LESS THAN COMBINED INLETS.
3. METAL PARTS:
 - A. CORROSION RESISTANT OR GALVANIZED OR ALUMINUM TYPE 2.
 - B. IF GALVANIZED STEEL PIPE, HAVE ASPHALT TREATMENT 1.
4. FRAME & LADDER OR STEPS OFFSET SO:
 - A. CLEANOUT GATE IS VISIBLE FROM TOP.
 - B. CLIMB DOWN SPACE IS CLEAR OF RISER & CLEANOUT GATE.
 - C. FRAME IS CLEAR OF CURB.
5. STRUCTURE SHALL BE A TYPE 2 CATCH BASIN 4.5 DIAM. MIN.



OUTFALL SECTION

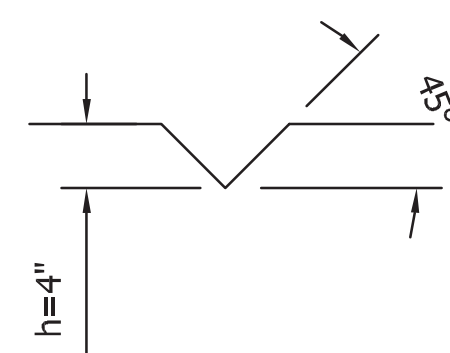


INFILTRATION TRENCH SUMP STRUCTURE (COMMERCIAL)

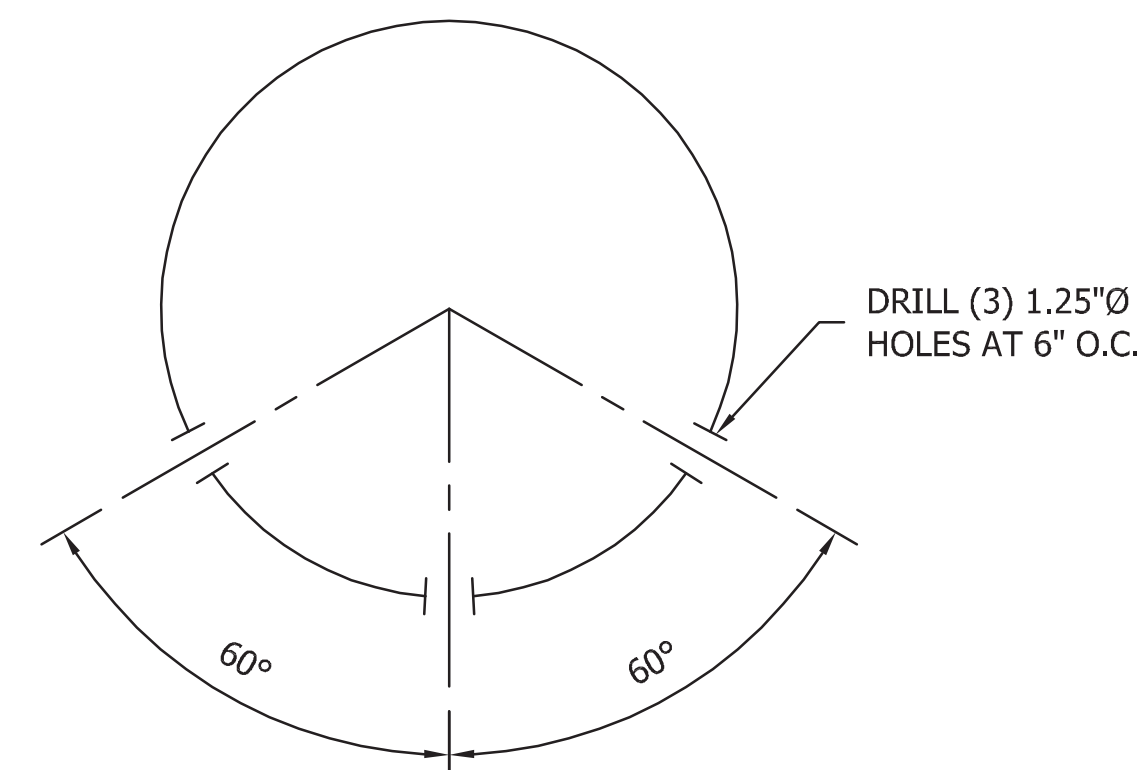
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ORDINANCE: 2021-xxx
EFFECTIVE DATE: 7/1/2021

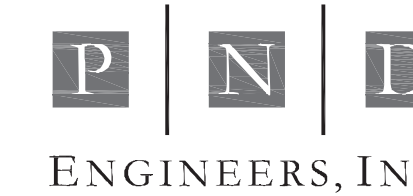
CB#603 DETAIL



GRADE BOARD \"V\" NOTCH



PIPE PERFORATIONS



3240 Eastlake Avenue E
Seattle, Washington 98102
P: 206.624.1387
www.pndengineers.com

DATE	APP.	INT.	NO.

ACTION	BY	DATE
DESIGNED	GW	NOV. 2023
DRAWN	GD	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

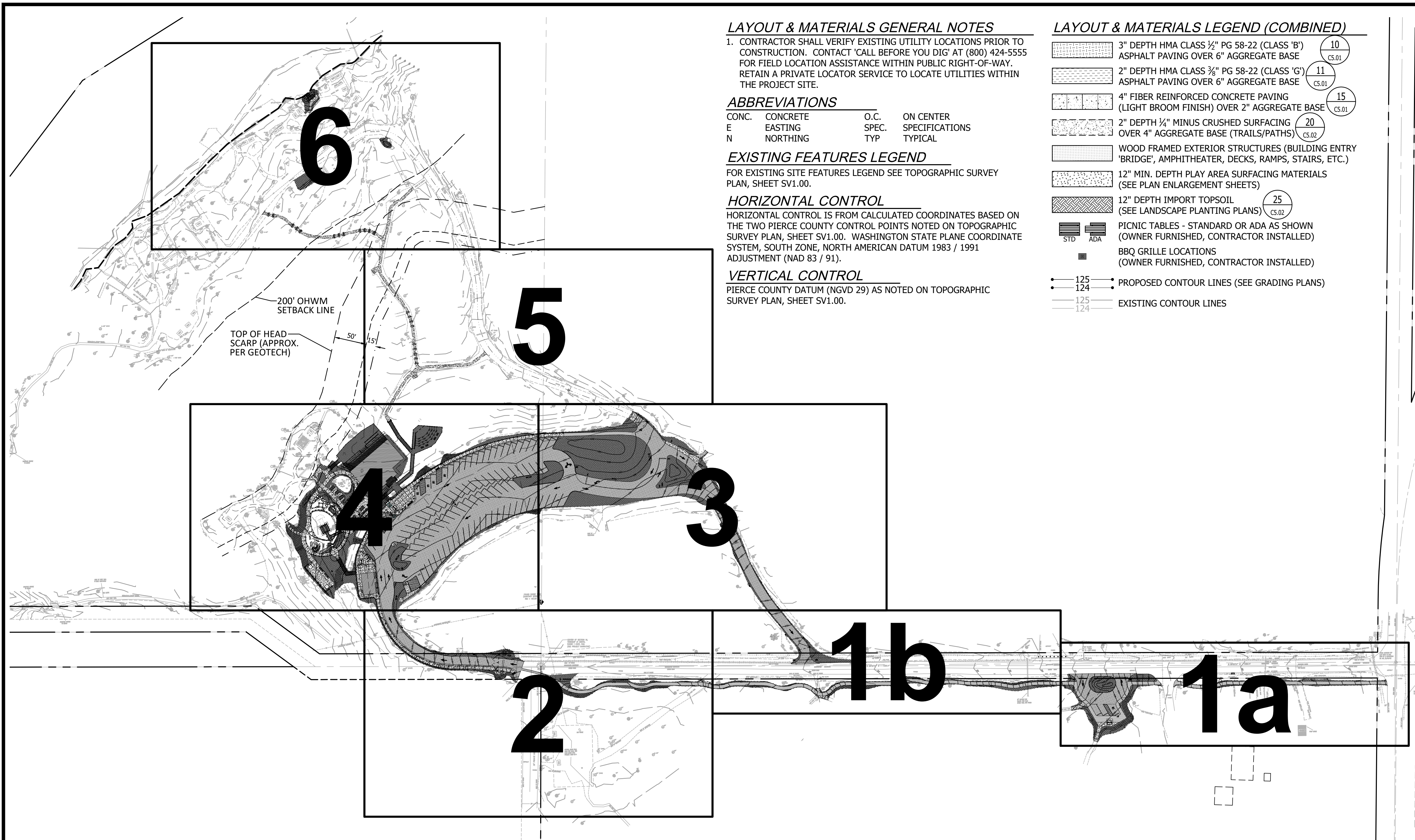
STORMWATER SECTIONS AND OUTFALL DETAILS

C2.06

SCALE AS NOTED

DIGITAL SIGNATURE:

THIS DRAWING SET WAS CREATED AS AN ELECTRONIC DOCUMENT. IF THE ELECTRONIC DOCUMENT DOES NOT INCLUDE A VERIFIABLE DIGITAL SIGNATURE IN THE BOX ABOVE, PLEASE CONTACT THE ENGINEER OF RECORD FOR THE ORIGINAL CERTIFIED ELECTRONIC DOCUMENT.



LAYOUT & MATERIALS GENERAL NOTES

1. CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION. CONTACT 'CALL BEFORE YOU DIG' AT (800) 424-5555 FOR FIELD LOCATION ASSISTANCE WITHIN PUBLIC RIGHT-OF-WAY. RETAIN A PRIVATE LOCATOR SERVICE TO LOCATE UTILITIES WITHIN THE PROJECT SITE.

ABBREVIATIONS

CONC.	CONCRETE	O.C.	ON CENTER
E	EASTING	SPEC.	SPECIFICATIONS
N	NORTHING	TYP	TYPICAL

EXISTING FEATURES LEGEND

FOR EXISTING SITE FEATURES LEGEND SEE TOPOGRAPHIC SURVEY PLAN, SHEET SV1.00.

HORIZONTAL CONTROL

HORIZONTAL CONTROL IS FROM CALCULATED COORDINATES BASED ON THE TWO PIERCE COUNTY CONTROL POINTS NOTED ON TOPOGRAPHIC SURVEY PLAN, SHEET SV1.00. WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM 1983 / 1991 ADJUSTMENT (NAD 83 / 91).

VERTICAL CONTROL

PIERCE COUNTY DATUM (NGVD 29) AS NOTED ON TOPOGRAPHIC SURVEY PLAN, SHEET SV1.00.

LAYOUT & MATERIALS LEGEND (COMBINED)

- 3" DEPTH HMA CLASS ½" PG 58-22 (CLASS 'B') ASPHALT PAVING OVER 6" AGGREGATE BASE (10 CS.01)
- 2" DEPTH HMA CLASS ¾" PG 58-22 (CLASS 'G') ASPHALT PAVING OVER 6" AGGREGATE BASE (11 CS.01)
- 4" FIBER REINFORCED CONCRETE PAVING (LIGHT BROOM FINISH) OVER 2" AGGREGATE BASE (15 CS.01)
- 2" DEPTH ¼" MINUS CRUSHED SURFACING OVER 4" AGGREGATE BASE (TRAILS/PATHS) (20 CS.02)
- WOOD FRAMED EXTERIOR STRUCTURES (BUILDING ENTRY 'BRIDGE', AMPHITHEATER, DECKS, RAMPS, STAIRS, ETC.)
- 12" MIN. DEPTH PLAY AREA SURFACING MATERIALS (SEE PLAN ENLARGEMENT SHEETS)
- 12" DEPTH IMPORT TOPSOIL (SEE LANDSCAPE PLANTING PLANS) (25 CS.02)
- PICNIC TABLES - STANDARD OR ADA AS SHOWN (OWNER FURNISHED, CONTRACTOR INSTALLED)
- BBQ GRILLE LOCATIONS (OWNER FURNISHED, CONTRACTOR INSTALLED)
- 125, 124 PROPOSED CONTOUR LINES (SEE GRADING PLANS)
- 125, 124 EXISTING CONTOUR LINES

GENERAL NOTES:

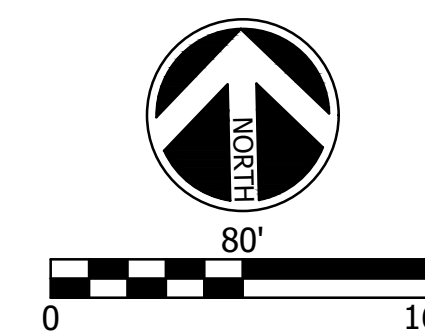
1. CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATIONS PRIOR TO DEMOLITION AND CLEARING. CONTACT 'CALL BEFORE YOU DIG' AT (800) 424-5555 FOR FIELD LOCATION ASSISTANCE WITHIN THE PUBLIC RIGHT-OF-WAY, RETAIN A PRIVATE LOCATOR SERVICE TO LOCATE UTILITIES WITHIN THE PROJECT SITE.

PROJECT LAYOUT & STAKING

FIELD LOCATING AND STAKING OF PROPOSED IMPROVEMENTS SHALL BE BY DIMENSIONS SHOWN ON DRAWINGS AND COORDINATES OBTAINED VIA ELECTRONIC DRAWING FILES WHICH WILL BE PROVIDED WITHIN 5 DAYS OF RECEIVING WRITTEN REQUEST AFTER NOTICE OF AWARD. DIMENSIONS SHOWN ARE TAKEN AT 'FACE OF WALL/CURB' UNLESS OTHERWISE NOTED ON PLANS.

IMPORTANT NOTE:

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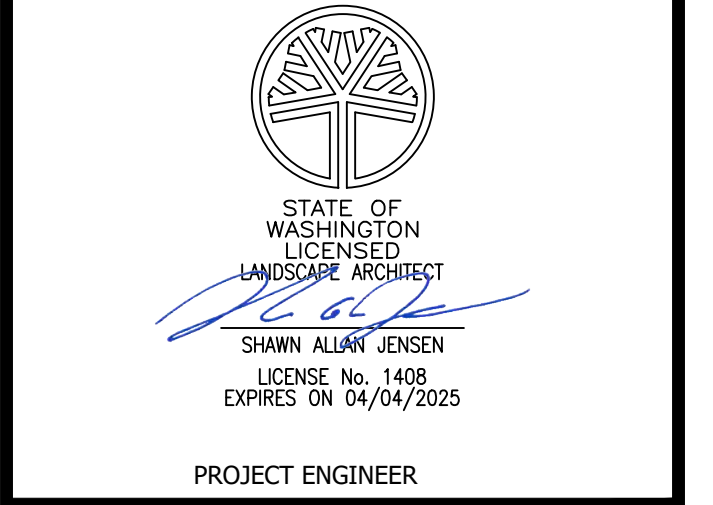
SHEET 30 OF 102

BID SET

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

DATE	APP.	INT.	REVISIONS	NO.

ACTION	BY	DATE
DESIGNED	ABD	NOV. 2023
DRAWN	SAJ	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		



WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

LAYOUT & MATERIALS KEY PLAN & NOTES

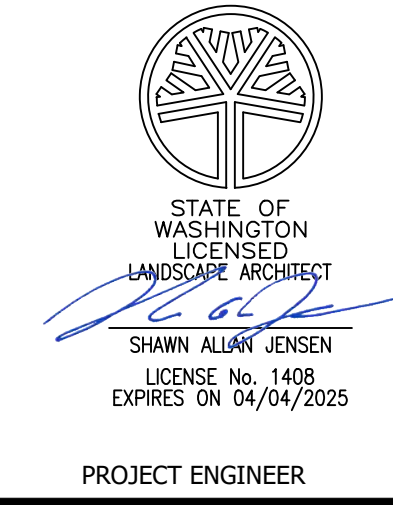
C3.00

SCALE AS NOTED

PARKS FILE#

DATE	
APP.	
INT.	
REVISIONS	
NO.	

ACTION	BY	DATE
DESIGNED	ABD	NOV. 2023
DRAWN	SAJ	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		



WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

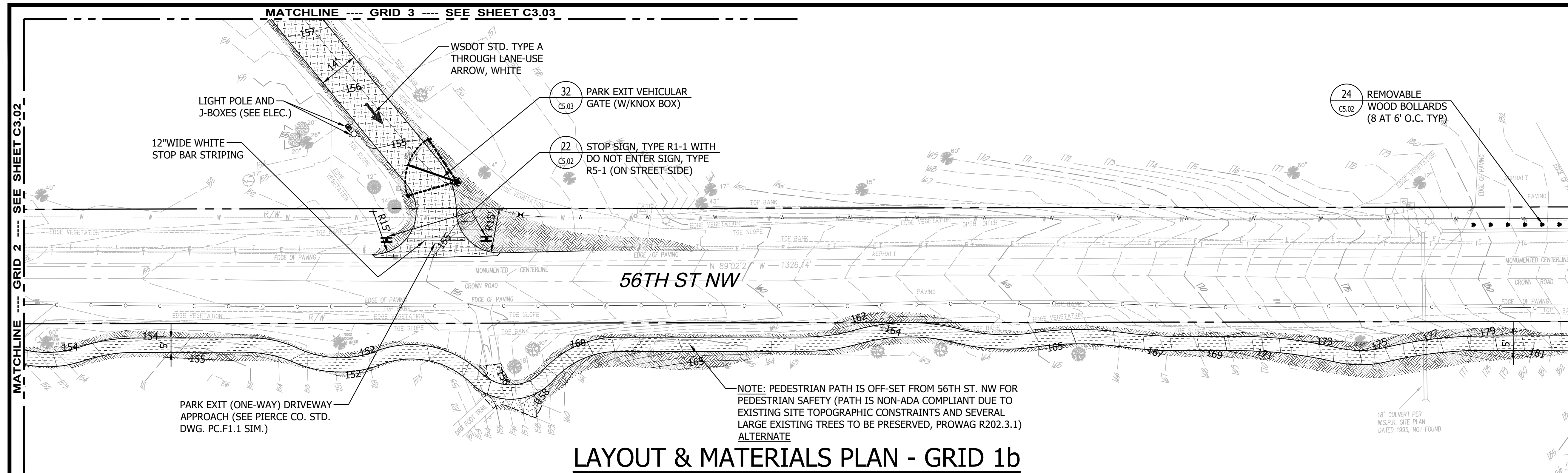
DAY USE DEVELOPMENT

LAYOUT & MATERIALS PLAN GRID 1

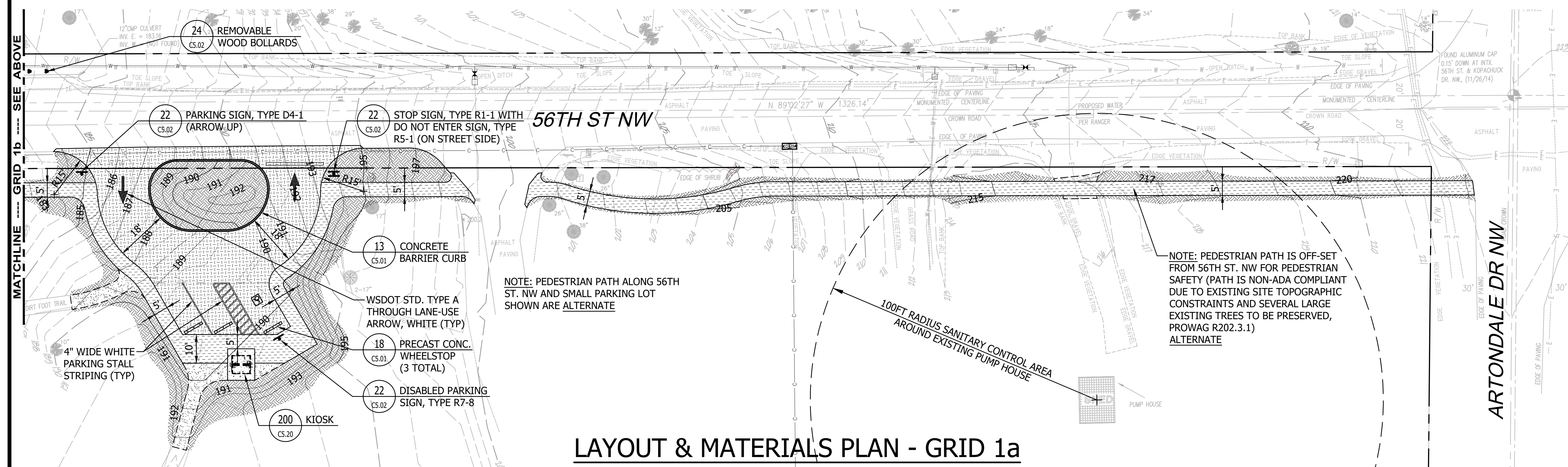
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SCALE AS NOTED

PARKS FILE#



LAYOUT & MATERIALS PLAN - GRID 1b



LAYOUT & MATERIALS PLAN - GRID 1a

LAYOUT & MATERIALS LEGEND

3" DEPTH HMA CLASS 1/2" PG 58-22 (CLASS 'B') ASPHALT PAVING OVER 6" AGGREGATE BASE	10 (C5.01)	12" DEPTH IMPORT TOPSOIL (SEE LANDSCAPE PLANTING PLANS)	25 (C5.02)
2" DEPTH HMA CLASS 3/8" PG 58-22 (CLASS 'G') ASPHALT PAVING OVER 6" AGGREGATE BASE	11 (C5.01)	125 PROPOSED CONTOUR LINES (SEE GRADING PLANS)	
2" DEPTH 1/4" MINUS CRUSHED SURFACING OVER 4" AGGREGATE BASE (TRAILS/PATHS)	20 (C5.02)	124 EXISTING CONTOUR LINES	

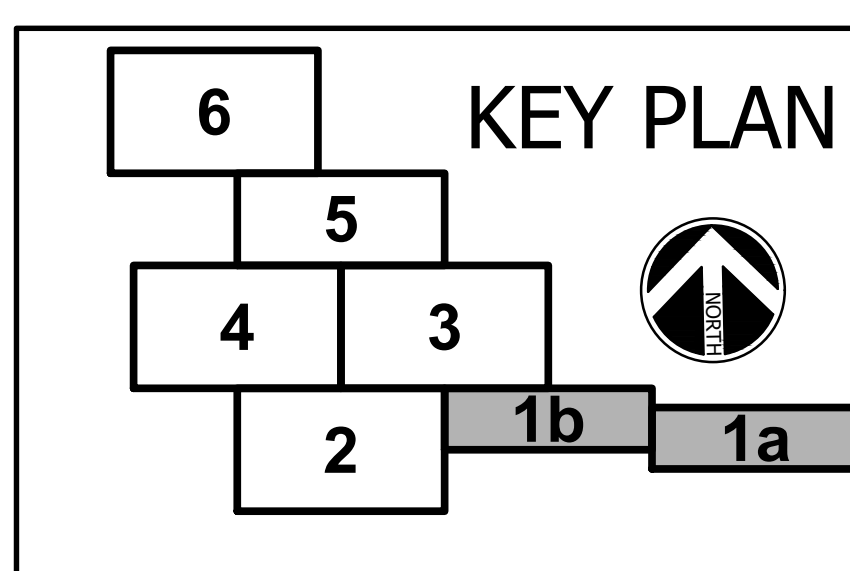
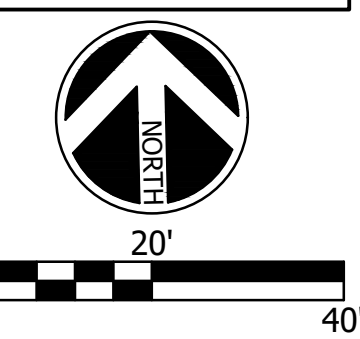
GENERAL NOTES:

- CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATIONS PRIOR TO DEMOLITION AND CLEARING. CONTACT 'CALL BEFORE YOU DIG' AT (800) 424-5555 FOR FIELD LOCATION ASSISTANCE WITHIN THE PUBLIC RIGHT-OF-WAY, RETAIN A PRIVATE LOCATOR SERVICE TO LOCATE UTILITIES WITHIN THE PROJECT SITE.
- SEE SHEET C3.0 FOR FULL LAYOUT & MATERIALS PLAN LEGEND (COMBINED), GENERAL NOTES, ABBREVIATIONS, AND HORIZONTAL & VERTICAL CONTROL NOTES.

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PROJECT LAYOUT & STAKING

FIELD LOCATING AND STAKING OF PROPOSED IMPROVEMENTS SHALL BE BY DIMENSIONS SHOWN ON DRAWINGS AND COORDINATES OBTAINED VIA ELECTRONIC DRAWING FILES WHICH WILL BE PROVIDED WITHIN 5 DAYS OF RECEIVING WRITTEN REQUEST AFTER NOTICE OF AWARD. DIMENSIONS SHOWN ARE TAKEN AT 'FACE OF WALL/CURB' UNLESS OTHERWISE NOTED ON PLANS.



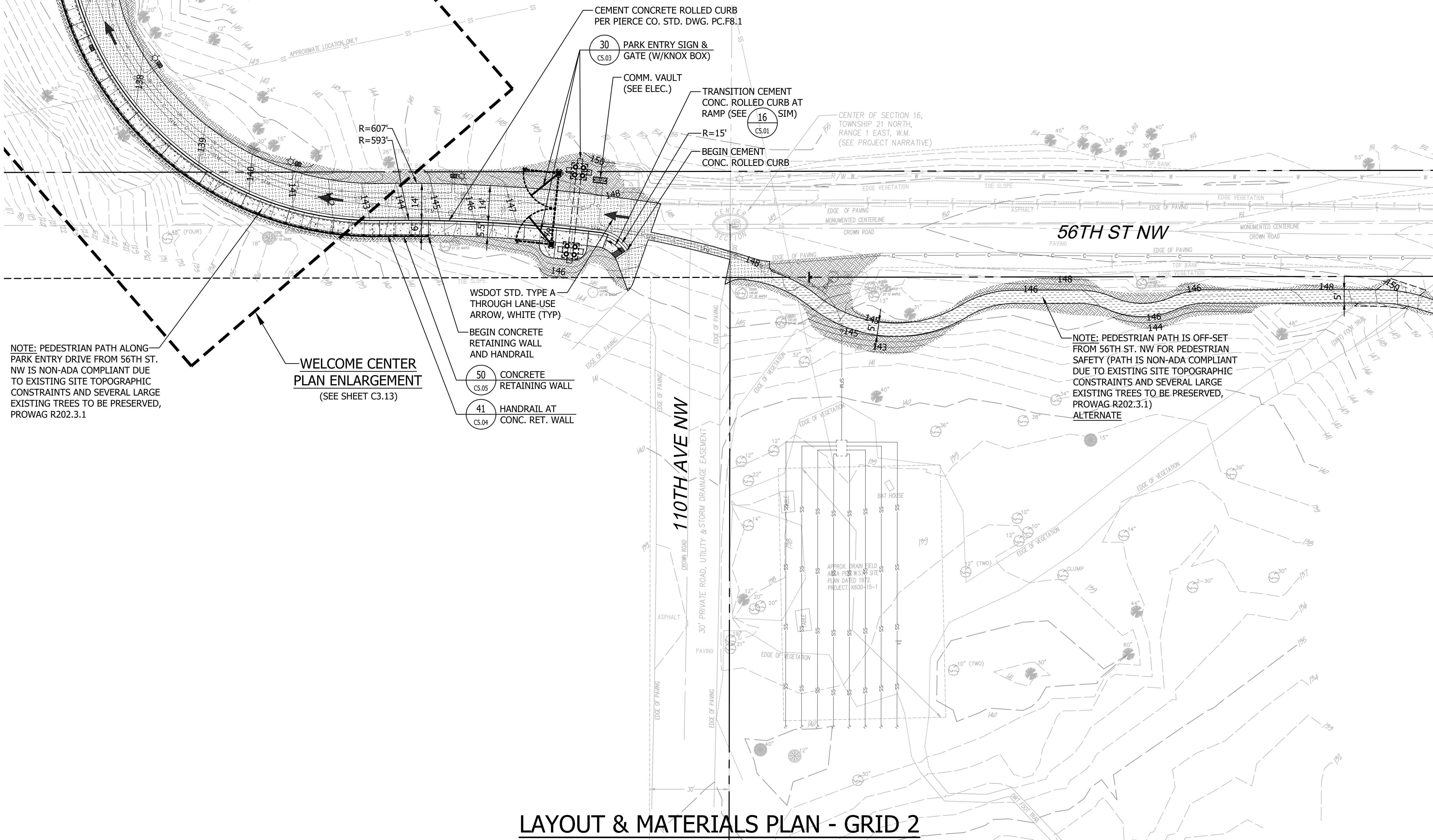
SHEET 31 OF 102

BID SET

MATCHLINE GRID 4 SEE SHEET C3.04

MATCHLINE GRID 3 SEE SHEET C3.03

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME



LAYOUT & MATERIALS PLAN - GRID 2

LAYOUT & MATERIALS LEGEND

	3" DEPTH HMA CLASS 1/2" PG 58-22 (CLASS 'B') ASPHALT PAVING OVER 6" AGGREGATE BASE	10 CS.01		12" DEPTH IMPORT TOPSOIL (SEE LANDSCAPE PLANTING PLANS)	25 CS.02
	2" DEPTH HMA CLASS 3/8" PG 58-22 (CLASS 'G') ASPHALT PAVING OVER 6" AGGREGATE BASE	11 CS.01		PROPOSED CONTOUR LINES (SEE GRADING PLANS)	125, 124
	4" FIBER REINFORCED CONCRETE PAVING (LIGHT BROOM FINISH) OVER 2" AGGREGATE BASE	15 CS.01		EXISTING CONTOUR LINES	125, 124

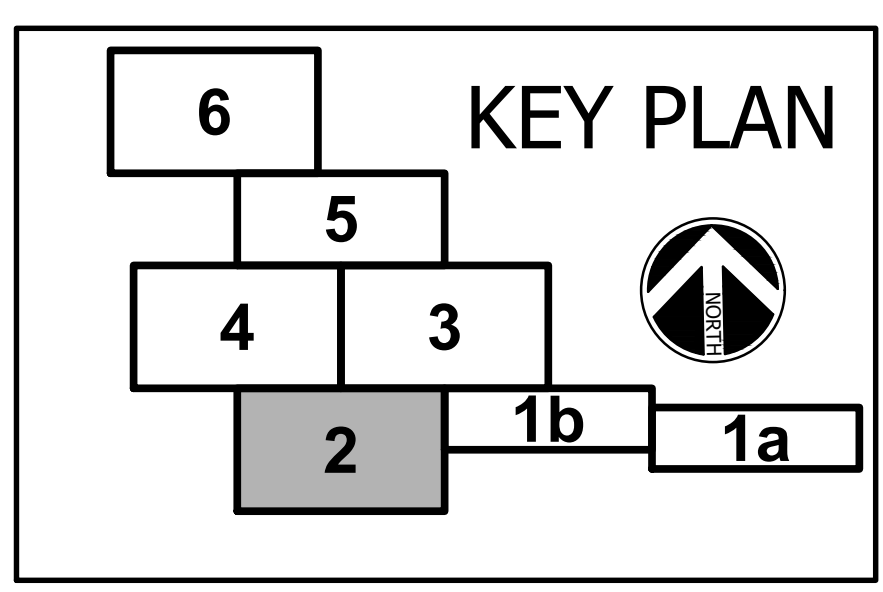
GENERAL NOTES:

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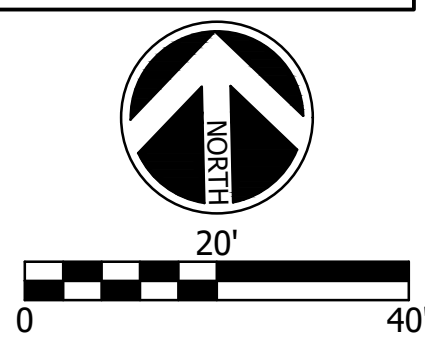
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PROJECT LAYOUT & STAKING

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SHEET 32 OF 102

BID SET

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	ABD	NOV. 2023
DRAWN	SAJ	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		

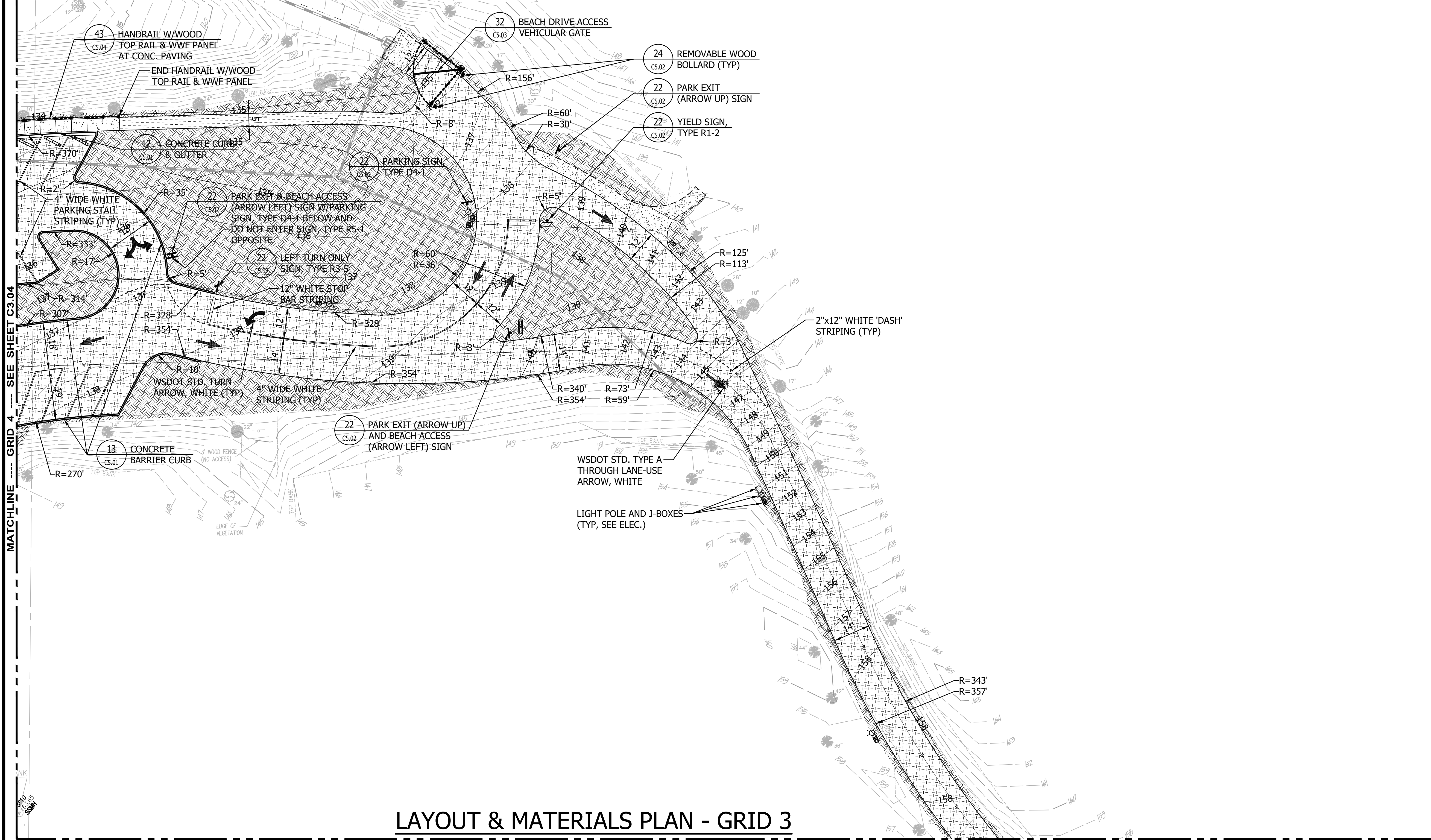
SHAWN ALLAN JENSEN
LICENSE No. 1408
EXPIRES ON 04/04/2025
PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK
DAY USE DEVELOPMENT

LAYOUT & MATERIALS PLAN GRID 2
C3.02
SCALE AS NOTED
PARKS FILE#

MATCHLINE --- GRID 5 --- SEE SHEET C3.05

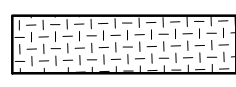

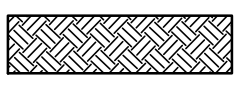
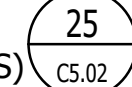
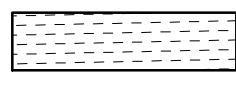
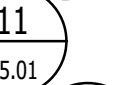
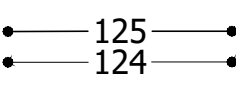

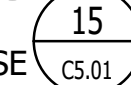
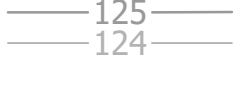
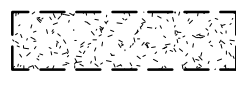



LAYOUT & MATERIALS PLAN - GRID 3

MATCHLINE --- GRID 2 --- SEE SHEET C3.02

MATCHLINE --- GRID 1b --- SEE SHEET C3.01

LAYOUT & MATERIALS LEGEND

 3" DEPTH HMA CLASS 1/2" PG 58-22 (CLASS 'B') ASPHALT PAVING OVER 6" AGGREGATE BASE	 10 (C5.01)	 12" DEPTH IMPORT TOPSOIL (SEE LANDSCAPE PLANTING PLANS)	 25 (C5.02)
 2" DEPTH HMA CLASS 3/8" PG 58-22 (CLASS 'G') ASPHALT PAVING OVER 6" AGGREGATE BASE	 11 (C5.01)	 125 --- 124 --- PROPOSED CONTOUR LINES (SEE GRADING PLANS)	
 4" FIBER REINFORCED CONCRETE PAVING (LIGHT BROOM FINISH) OVER 2" AGGREGATE BASE	 15 (C5.01)	 125 --- 124 --- EXISTING CONTOUR LINES	
 2" DEPTH 1/4" MINUS CRUSHED SURFACING OVER 4" AGGREGATE BASE (TRAILS/PATHS)	 20 (C5.02)		

GENERAL NOTES:

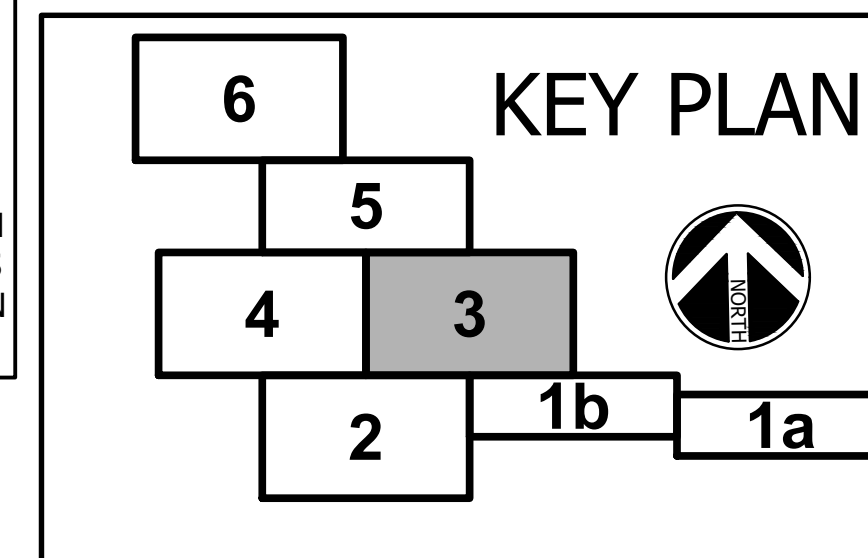
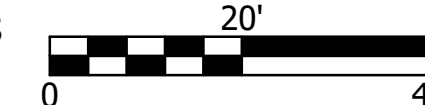
- CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATIONS PRIOR TO DEMOLITION AND CLEARING. CONTACT 'CALL BEFORE YOU DIG' AT (800) 424-5555 FOR FIELD LOCATION ASSISTANCE WITHIN THE PUBLIC RIGHT-OF-WAY, RETAIN A PRIVATE LOCATOR SERVICE TO LOCATE UTILITIES WITHIN THE PROJECT SITE.
- SEE SHEET C3.0 FOR FULL LAYOUT & MATERIALS PLAN LEGEND (COMBINED), GENERAL NOTES, ABBREVIATIONS, AND HORIZONTAL & VERTICAL CONTROL NOTES.

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PROJECT LAYOUT & STAKING

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SHEET 33 OF 102
BID SET

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	ABD	NOV. 2023
DRAWN	SAJ	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

LAYOUT & MATERIALS PLAN GRID 3

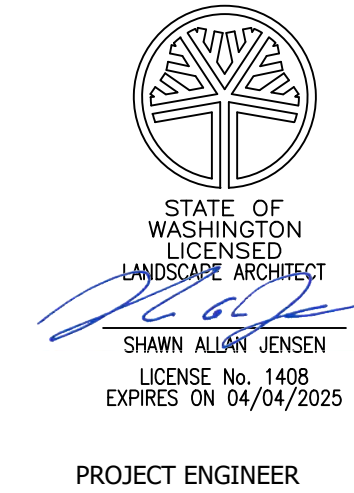
C3.03

SCALE AS NOTED

PARKS FILE#

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	ABD	NOV. 2023
DRAWN	SAJ	NOV. 2023
CHECKED (FIELD)		
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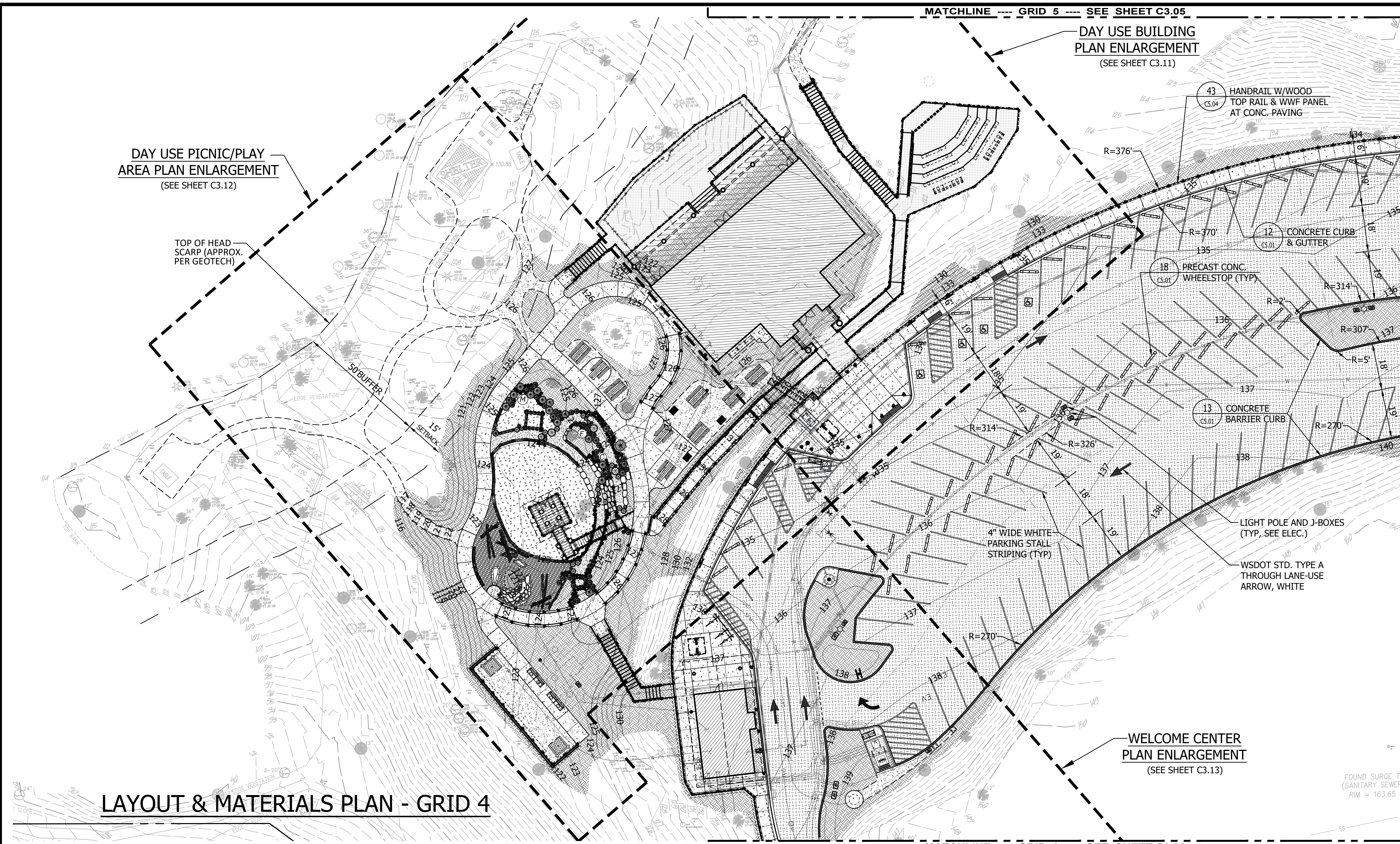
WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

LAYOUT & MATERIALS PLAN GRID 4

C3.04
SCALE AS NOTED
PARKS FILE#



LAYOUT & MATERIALS LEGEND

3" DEPTH HMA CLASS 1/2" PG 58-22 (CLASS 'B') ASPHALT PAVING OVER 6" AGGREGATE BASE (10 CS.01)	12" DEPTH IMPORT TOPSOIL (SEE LANDSCAPE PLANTING PLANS) (25 CS.02)
4" FIBER REINFORCED CONCRETE PAVING (LIGHT BROOM FINISH) OVER 2" AGGREGATE BASE (15 CS.01)	125 PROPOSED CONTOUR LINES (SEE GRADING PLANS)
2" DEPTH 1/4" MINUS CRUSHED SURFACING OVER 4" AGGREGATE BASE (TRAILS/PATHS) (20 CS.02)	124 EXISTING CONTOUR LINES
WOOD FRAMED EXTERIOR STRUCTURES (BUILDING ENTRY 'BRIDGE', AMPHITHEATER, DECKS, RAMPS, STAIRS, ETC.)	
12" MIN. DEPTH PLAY AREA SURFACING MATERIALS (SEE PLAN ENLARGEMENT SHEETS)	

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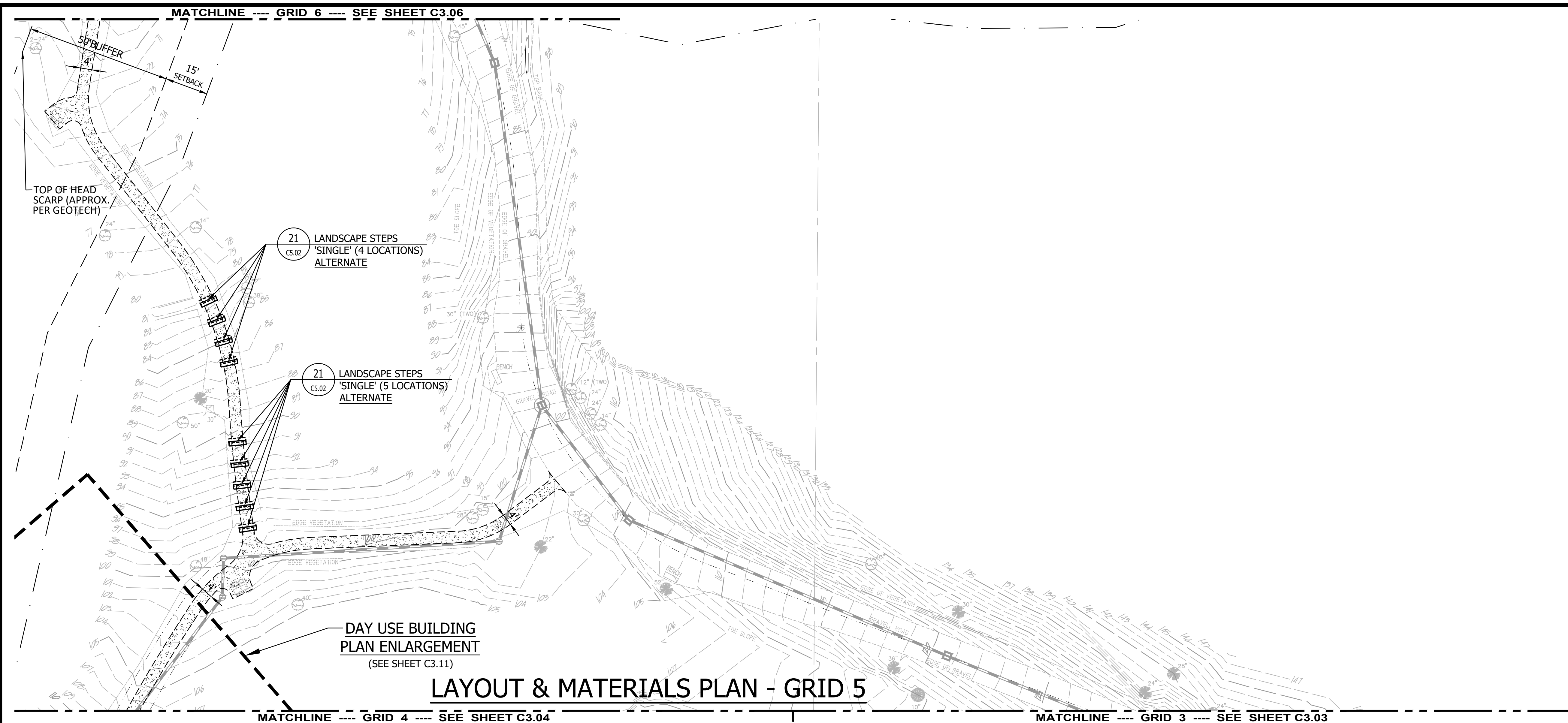
PROJECT LAYOUT & STAKING
FIELD LOCATING AND STAKING OF PROPOSED IMPROVEMENTS SHALL BE BY DIMENSIONS SHOWN ON DRAWINGS AND COORDINATES OBTAINED VIA ELECTRONIC DRAWING FILES WHICH WILL BE PROVIDED WITHIN 5 DAYS OF RECEIVING WRITTEN REQUEST AFTER NOTICE OF AWARD. DIMENSIONS SHOWN ARE TAKEN AT 'FACE OF WALL/CURB' UNLESS OTHERWISE NOTED ON PLANS.

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KEY PLAN

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SHEET 34 OF 102
BID SET



LAYOUT & MATERIALS PLAN - GRID 5

LAYOUT & MATERIALS LEGEND

- 2" DEPTH 1/4" MINUS CRUSHED SURFACING OVER 4" AGGREGATE BASE (TRAILS/PATHS) (20 CS.02)
- 125 PROPOSED CONTOUR LINES (SEE GRADING PLANS)
- 124 EXISTING CONTOUR LINES

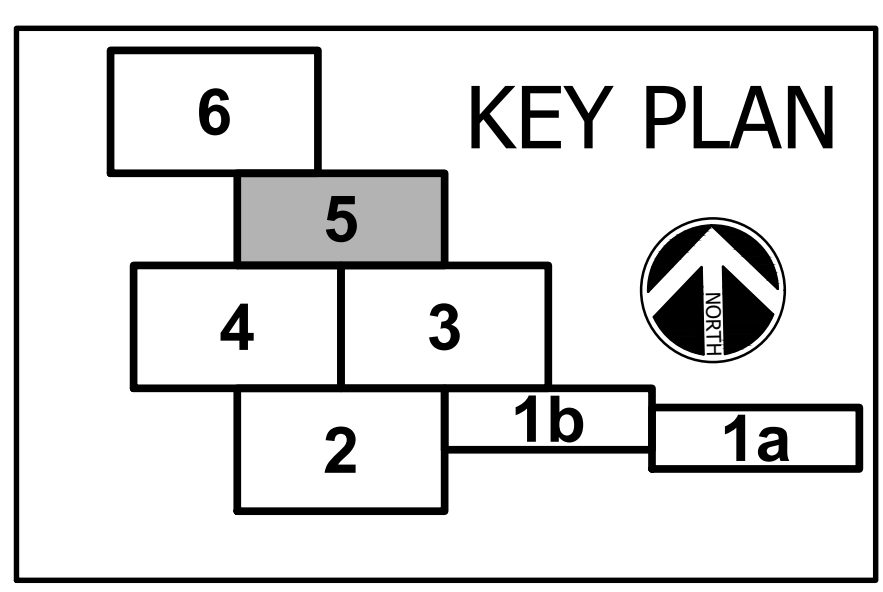
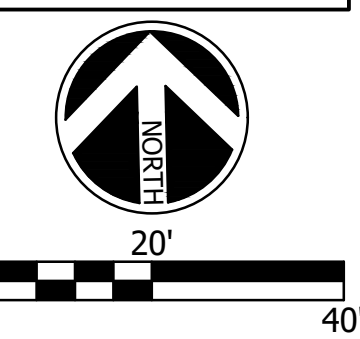
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PROJECT LAYOUT & STAKING

FIELD LOCATING AND STAKING OF PROPOSED IMPROVEMENTS SHALL BE BY DIMENSIONS SHOWN ON DRAWINGS AND COORDINATES OBTAINED VIA ELECTRONIC DRAWING FILES WHICH WILL BE PROVIDED WITHIN 5 DAYS OF RECEIVING WRITTEN REQUEST AFTER NOTICE OF AWARD. DIMENSIONS SHOWN ARE TAKEN AT 'FACE OF WALL/CURB' UNLESS OTHERWISE NOTED ON PLANS.



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SHEET 35 OF 102

BID SET

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME		
	DATE	
	APP.	
	INT.	
	REVISIONS	
	NO.	

ACTION	BY	DATE
DESIGNED	ABD	NOV. 2023
DRAWN	SAJ	NOV. 2023
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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

LAYOUT & MATERIALS PLAN GRID 5

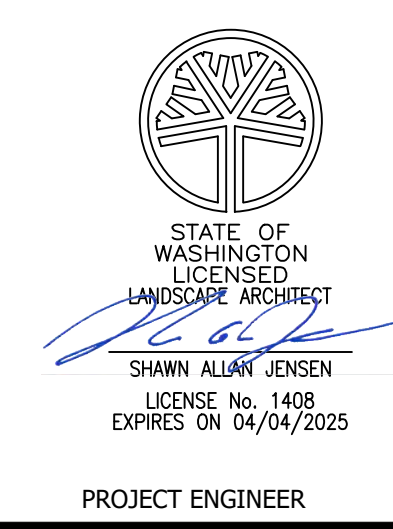
C3.05

SCALE
AS NOTED

PARKS FILE#

DATE
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ACTION	BY	DATE
DESIGNED	ABD	NOV. 2023
DRAWN	SAJ	NOV. 2023
CHECKED (FIELD)		
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WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

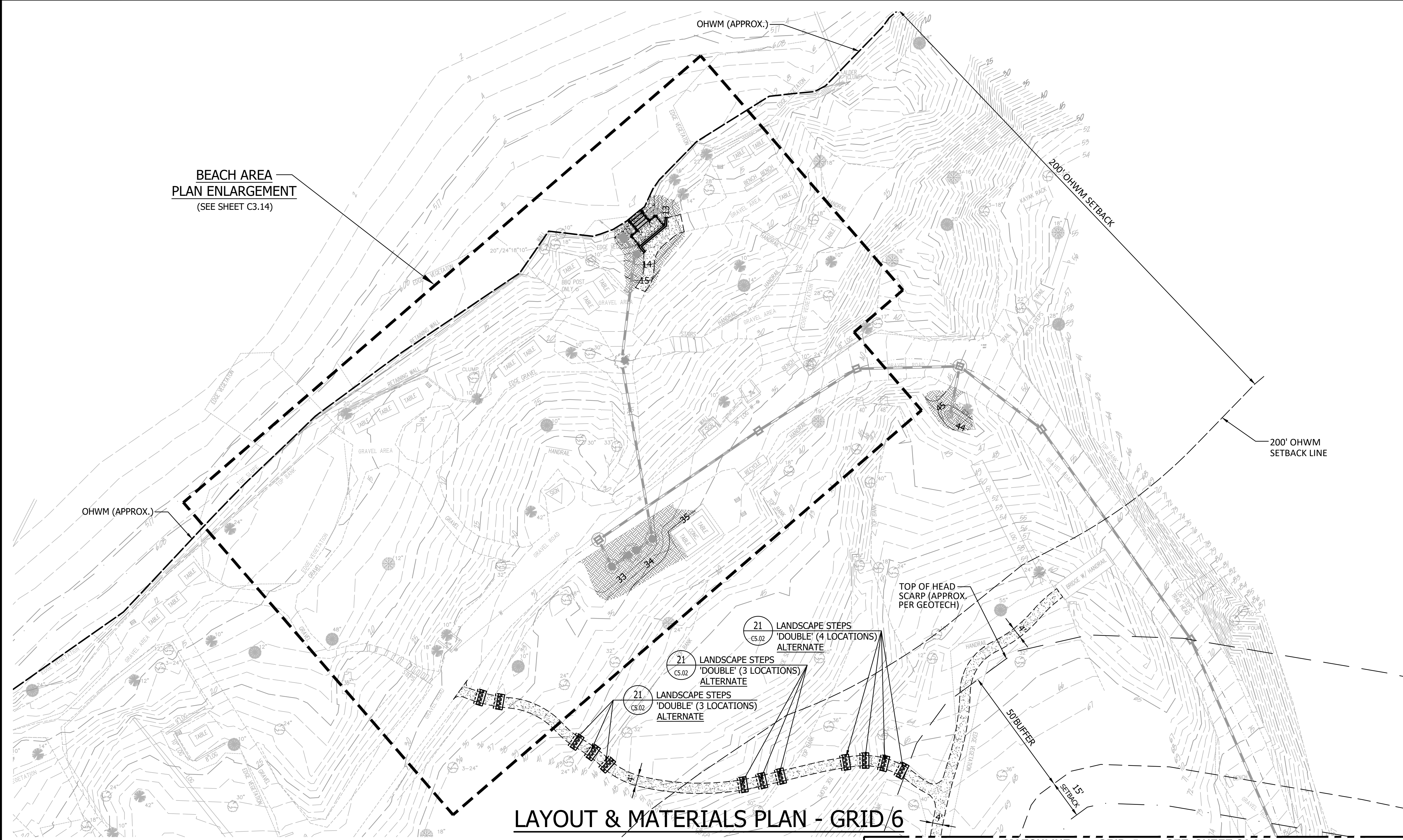
DAY USE DEVELOPMENT

LAYOUT & MATERIALS PLAN GRID 6

C3.06

SCALE AS NOTED

PARKS FILE#



LAYOUT & MATERIALS LEGEND

- 2" DEPTH 1/4" MINUS CRUSHED SURFACING OVER 4" AGGREGATE BASE (TRAILS/PATHS) (20) C5.02
- WOOD FRAMED EXTERIOR STRUCTURES (BEACH ACCESS DECK AND STAIRS)
- 12" DEPTH IMPORT TOPSOIL (SEE LANDSCAPE PLANTING PLANS) (25) C5.02
- 125 PROPOSED CONTOUR LINES (SEE GRADING PLANS)
- 124 EXISTING CONTOUR LINES

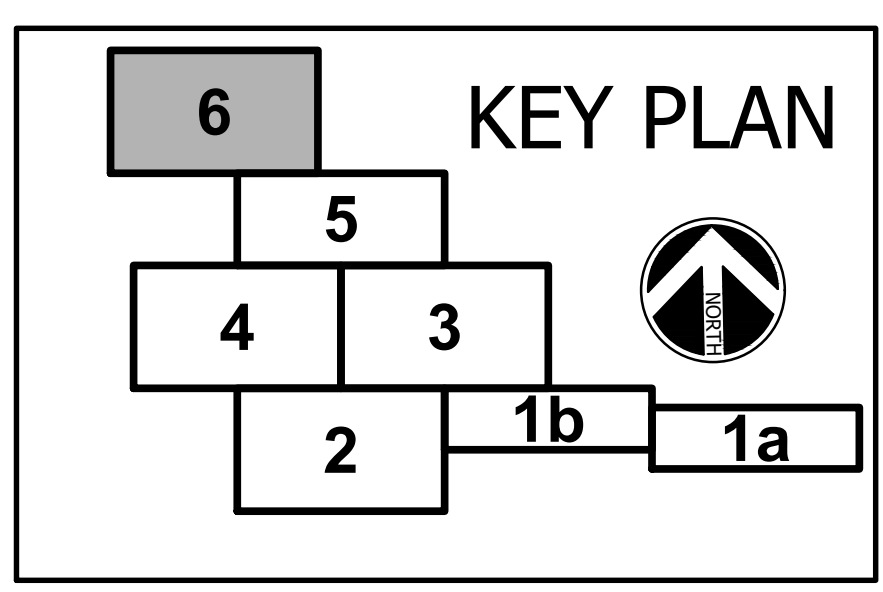
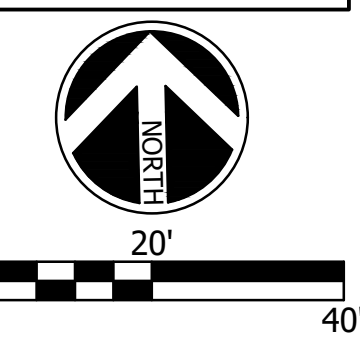
GENERAL NOTES:

- CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATIONS PRIOR TO DEMOLITION AND CLEARING. CONTACT 'CALL BEFORE YOU DIG' AT (800) 424-5555 FOR FIELD LOCATION ASSISTANCE WITHIN THE PUBLIC RIGHT-OF-WAY, RETAIN A PRIVATE LOCATOR SERVICE TO LOCATE UTILITIES WITHIN THE PROJECT SITE.
- SEE SHEET C3.0 FOR FULL LAYOUT & MATERIALS PLAN LEGEND (COMBINED), GENERAL NOTES, ABBREVIATIONS, AND HORIZONTAL & VERTICAL CONTROL NOTES.

IMPORTANT NOTE:
PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE WORK NECESSARY TO COMPLETE CONSTRUCTION UNDER THIS CONTRACT AS SHOWN AND SPECIFIED ON THESE PLANS.

PROJECT LAYOUT & STAKING

FIELD LOCATING AND STAKING OF PROPOSED IMPROVEMENTS SHALL BE BY DIMENSIONS SHOWN ON DRAWINGS AND COORDINATES OBTAINED VIA ELECTRONIC DRAWING FILES WHICH WILL BE PROVIDED WITHIN 5 DAYS OF RECEIVING WRITTEN REQUEST AFTER NOTICE OF AWARD. DIMENSIONS SHOWN ARE TAKEN AT 'FACE OF WALL/CURB' UNLESS OTHERWISE NOTED ON PLANS.

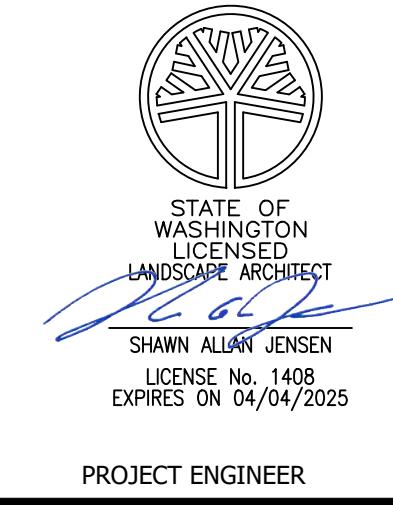


SHEET 36 OF 102

BID SET

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	ABD	NOV. 2023
DRAWN	SAJ	NOV. 2023
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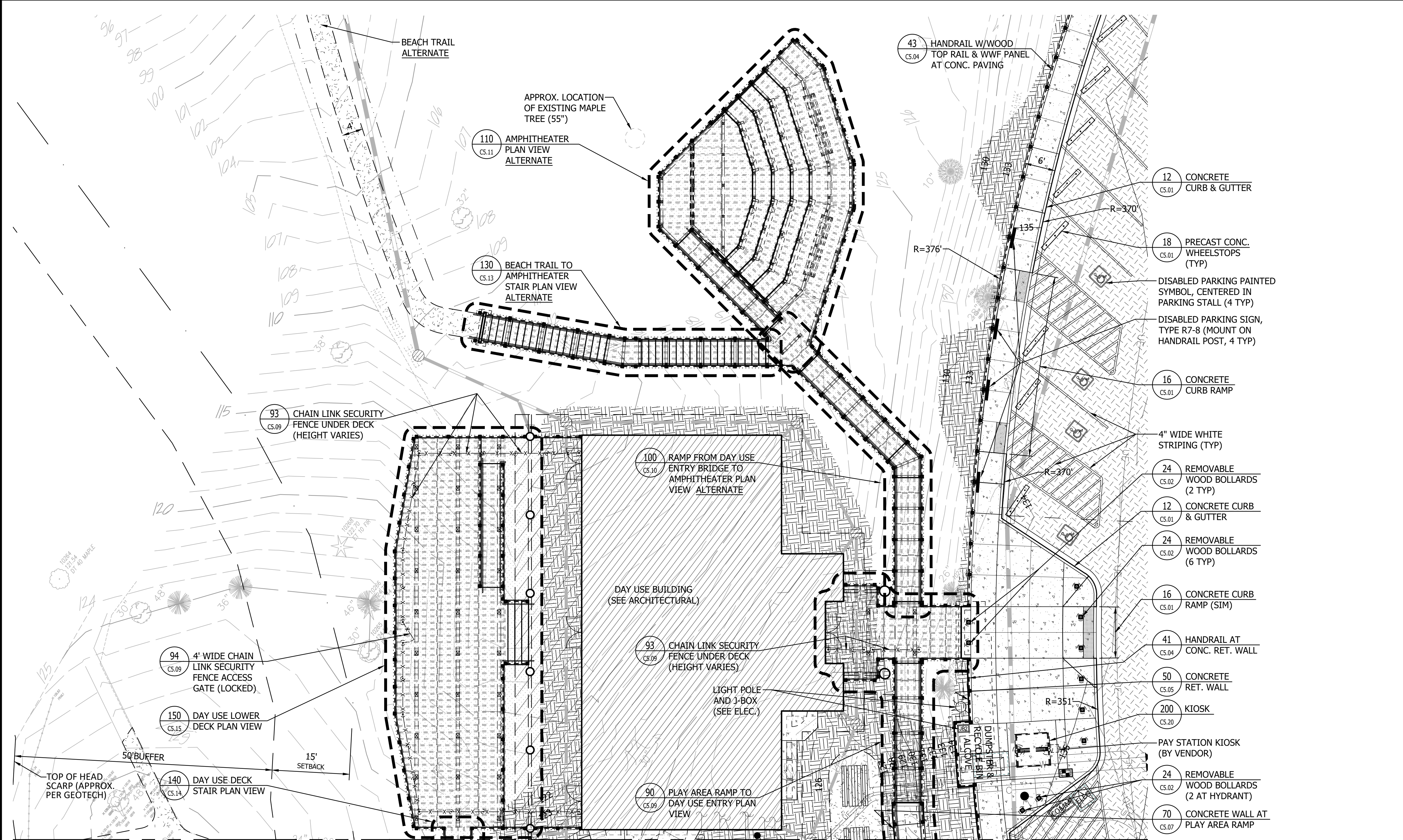
WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

LAYOUT & MATERIALS PLAN ENLGMT. - DAY USE BUILDING AREA

C3.11
SCALE AS NOTED
BID SET
PARKS FILE#



MATCHLINE - DAY USE PICNIC/PLAY AREA PLAN ENLARGEMENT - SEE SHEET C3.12

LAYOUT & MATERIALS LEGEND

3" DEPTH HMA CLASS 1/2" PG 58-22 (CLASS 'B') ASPHALT PAVING OVER 6" AGGREGATE BASE (10 CS.01)	12" DEPTH IMPORT TOPSOIL (SEE LANDSCAPE PLANTING PLANS) (25 CS.02)
4" FIBER REINFORCED CONCRETE PAVING (LIGHT BROOM FINISH) OVER 2" AGGREGATE BASE (15 CS.01)	PICNIC TABLES - STANDARD OR ADA AS SHOWN (OWNER FURNISHED, CONTRACTOR INSTALLED)
2" DEPTH 1/4" MINUS CRUSHED SURFACING OVER 4" AGGREGATE BASE (TRAILS/PATHS) (20 CS.02)	PROPOSED CONTOUR LINES (SEE GRADING PLANS)
WOOD FRAMED EXTERIOR STRUCTURES (BUILDING ENTRY 'BRIDGE', AMPHITHEATER, DECKS, RAMPS, STAIRS, ETC.)	EXISTING CONTOUR LINES

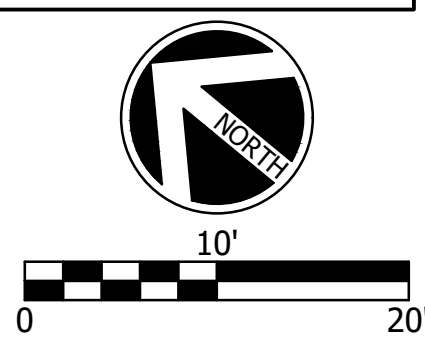
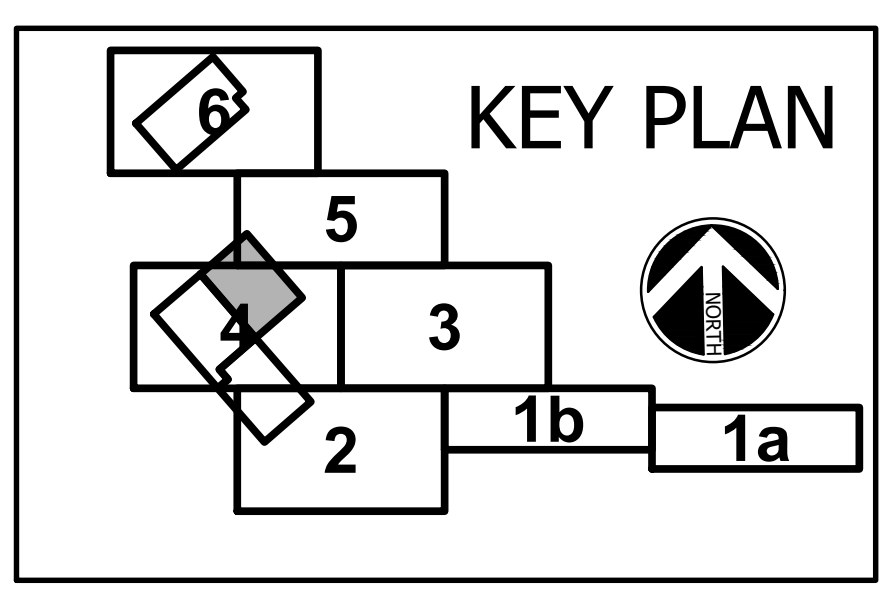
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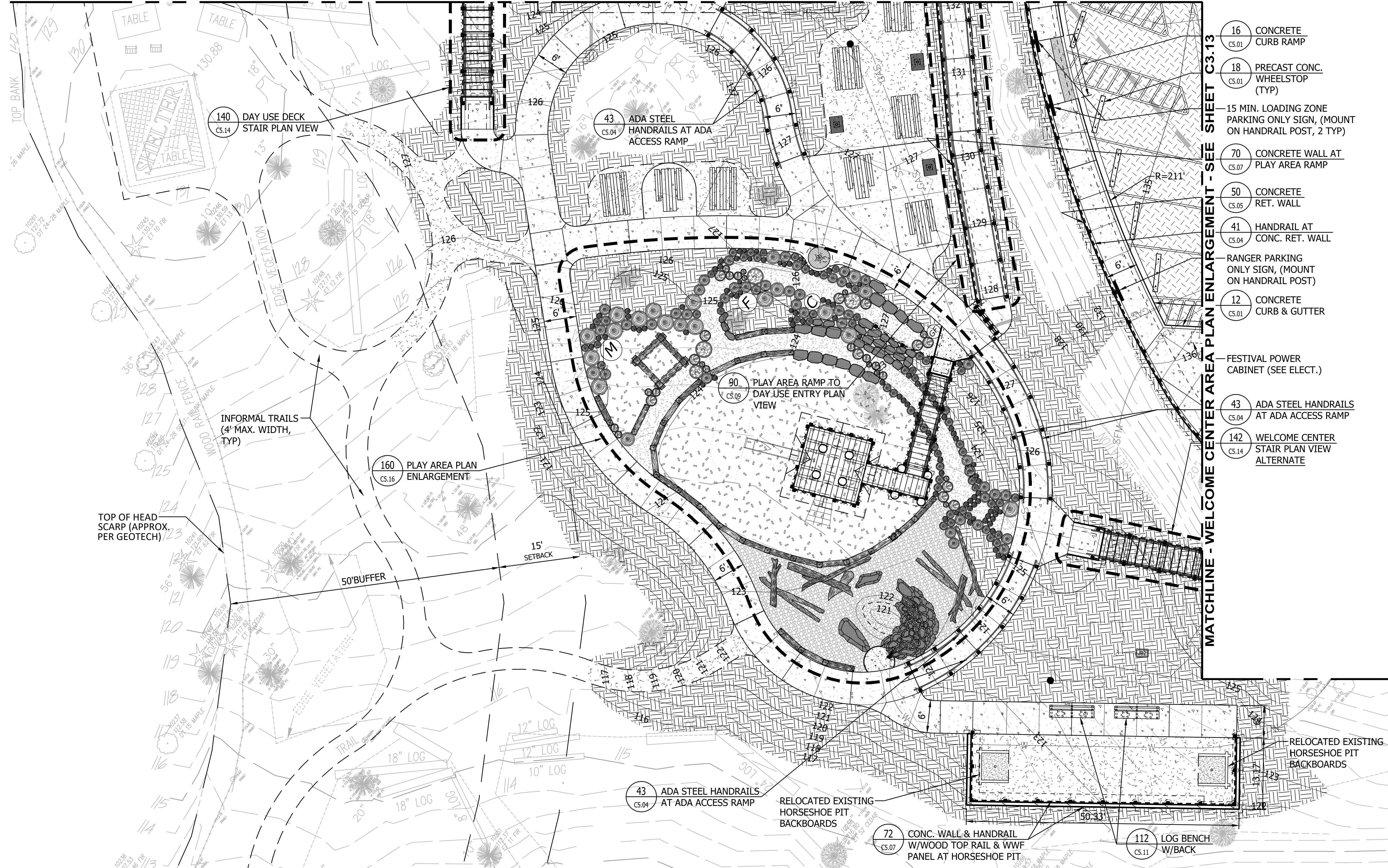
IMPORTANT NOTE:
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PROJECT LAYOUT & STAKING

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MATCHLINE - DAY USE BUILDING AREA PLAN ENLARGEMENT - SEE SHEET C3.11



LAYOUT & MATERIALS LEGEND

	3" DEPTH HMA CLASS 1/2" PG 58-22 (CLASS 'B') ASPHALT PAVING OVER 6" AGGREGATE BASE		12" DEPTH IMPORT TOPSOIL (SEE LANDSCAPE PLANTING PLANS)
	4" FIBER REINFORCED CONCRETE PAVING (LIGHT BROOM FINISH) OVER 2" AGGREGATE BASE		PICNIC TABLES - STANDARD OR ADA AS SHOWN (OWNER FURNISHED, CONTRACTOR INSTALLED)
	2" DEPTH 1/4" MINUS CRUSHED SURFACING OVER 4" AGGREGATE BASE (TRAILS/PATHS)		BBQ GRILLE LOCATIONS (OWNER FURNISHED, CONTRACTOR INSTALLED)
	WOOD FRAMED EXTERIOR STRUCTURES (BUILDING ENTRY 'BRIDGE', AMPHITHEATER, DECKS, RAMPS, STAIRS, ETC.)		PROPOSED CONTOUR LINES (SEE GRADING PLANS)
	12" MIN. DEPTH PLAY AREA SURFACING MATERIALS (SEE PLAN ENLARGEMENT SHEETS)		EXISTING CONTOUR LINES

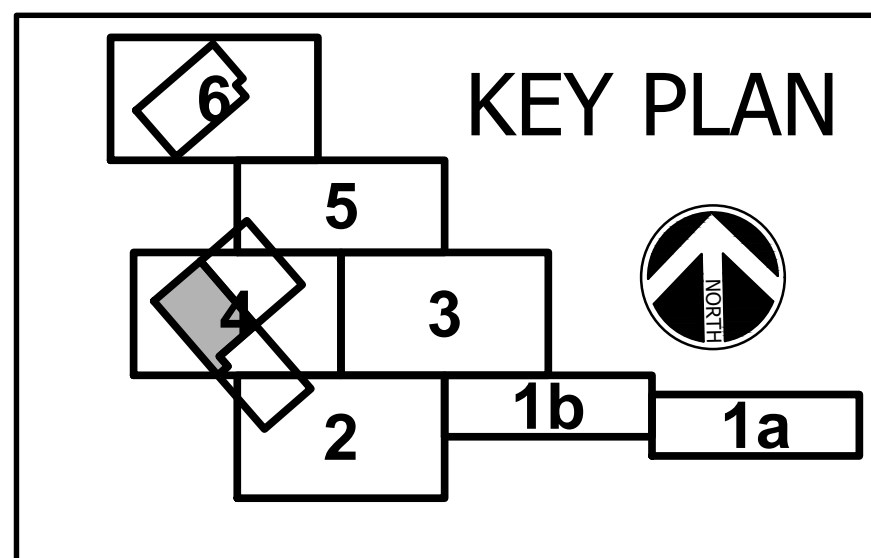
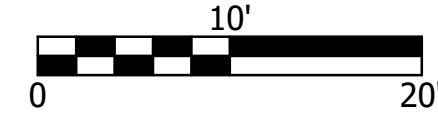
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PROJECT LAYOUT & STAKING

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SHEET 38 OF 102

BID SET

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	ABD	NOV. 2023
DRAWN	SAJ	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		

STATE OF WASHINGTON LICENSED LANDSCAPE ARCHITECT
Shawn
SHAWN ALLAN JENSEN
LICENSE No. 1408
EXPIRES ON 04/04/2025
PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

LAYOUT & MATERIALS PLAN ENLGMT. - DAY USE PICNIC/PLAY AREA

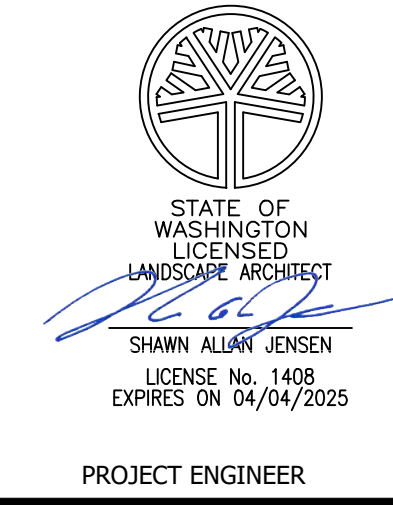
C3.12

SCALE AS NOTED

PARKS FILE#

	DATE
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	NO.
	REVISIONS

ACTION	BY	DATE
DESIGNED	ABD	NOV. 2023
DRAWN	SAJ	NOV. 2023
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CHECKED (HDQTS.)		



WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

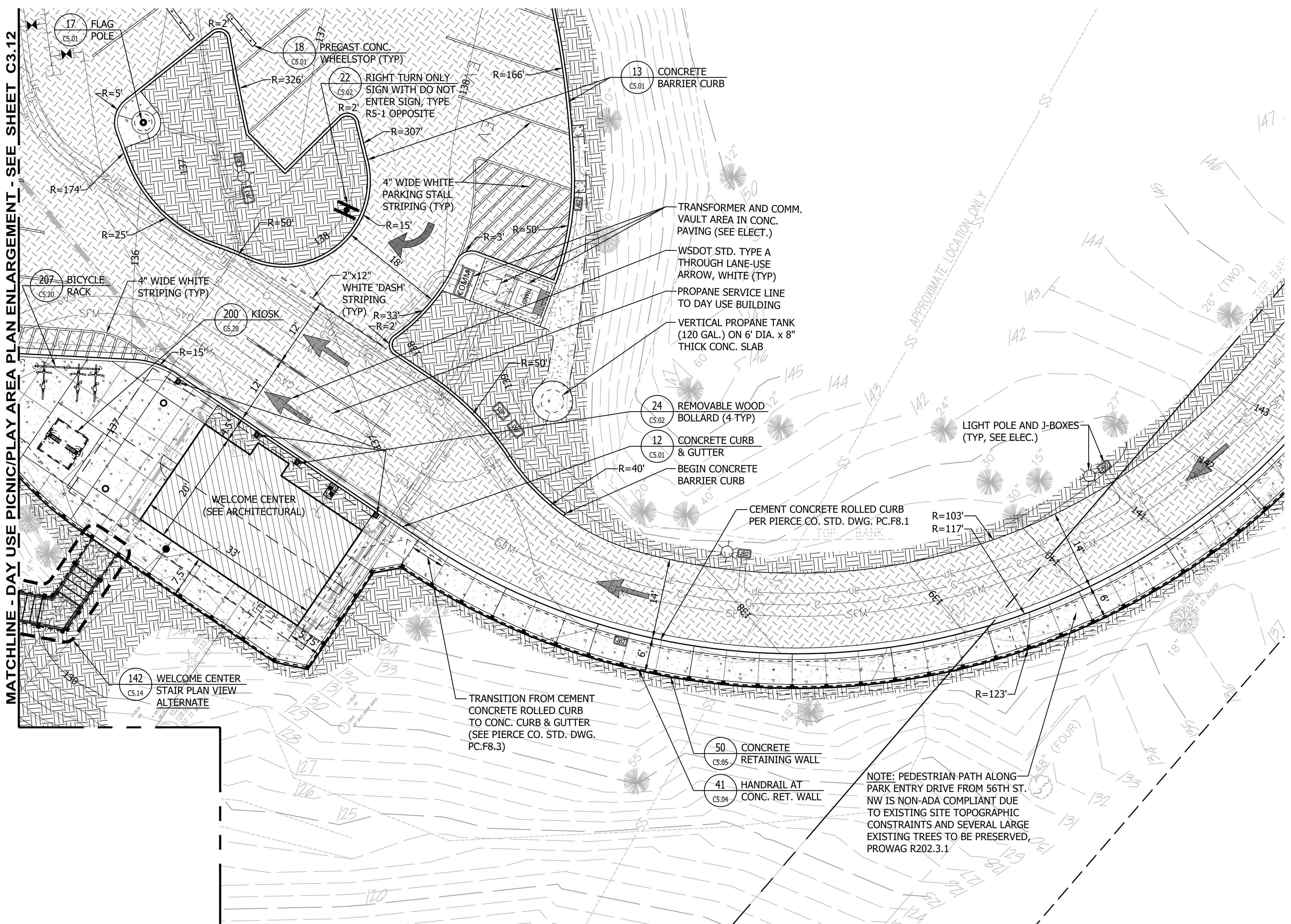
DAY USE DEVELOPMENT

LAYOUT & MATERIALS PLAN ENLGMT. - WELCOME CENTER AREA

C3.13

SCALE AS NOTED

PARKS FILE#



LAYOUT & MATERIALS LEGEND

3" DEPTH HMA CLASS 1/2" PG 58-22 (CLASS 'B') ASPHALT PAVING OVER 6" AGGREGATE BASE (10 CS.01)	12" DEPTH IMPORT TOPSOIL (SEE LANDSCAPE PLANTING PLANS) (25 CS.02)
4" FIBER REINFORCED CONCRETE PAVING (LIGHT BROOM FINISH) OVER 2" AGGREGATE BASE (15 CS.01)	125 124 PROPOSED CONTOUR LINES (SEE GRADING PLANS)
2" DEPTH 1/4" MINUS CRUSHED SURFACING OVER 4" AGGREGATE BASE (TRAILS/PATHS) (20 CS.02)	125 124 EXISTING CONTOUR LINES
WOOD FRAMED EXTERIOR STRUCTURES (BUILDING ENTRY 'BRIDGE', AMPHITHEATER, DECKS, RAMPS, STAIRS, ETC.)	

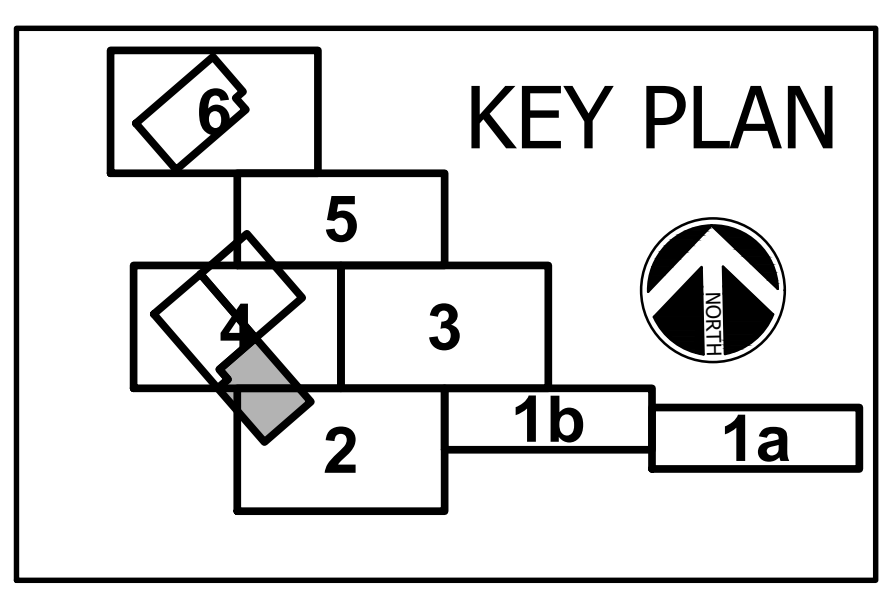
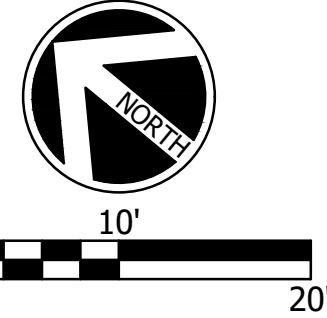
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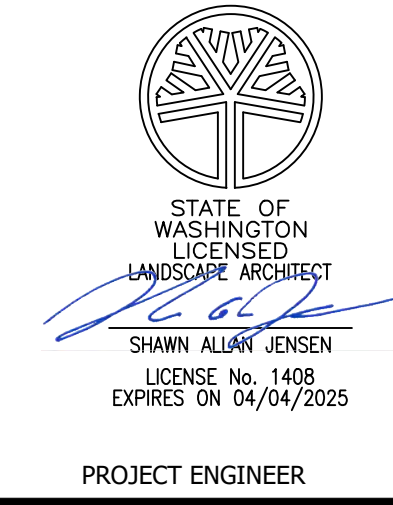
PROJECT LAYOUT & STAKING

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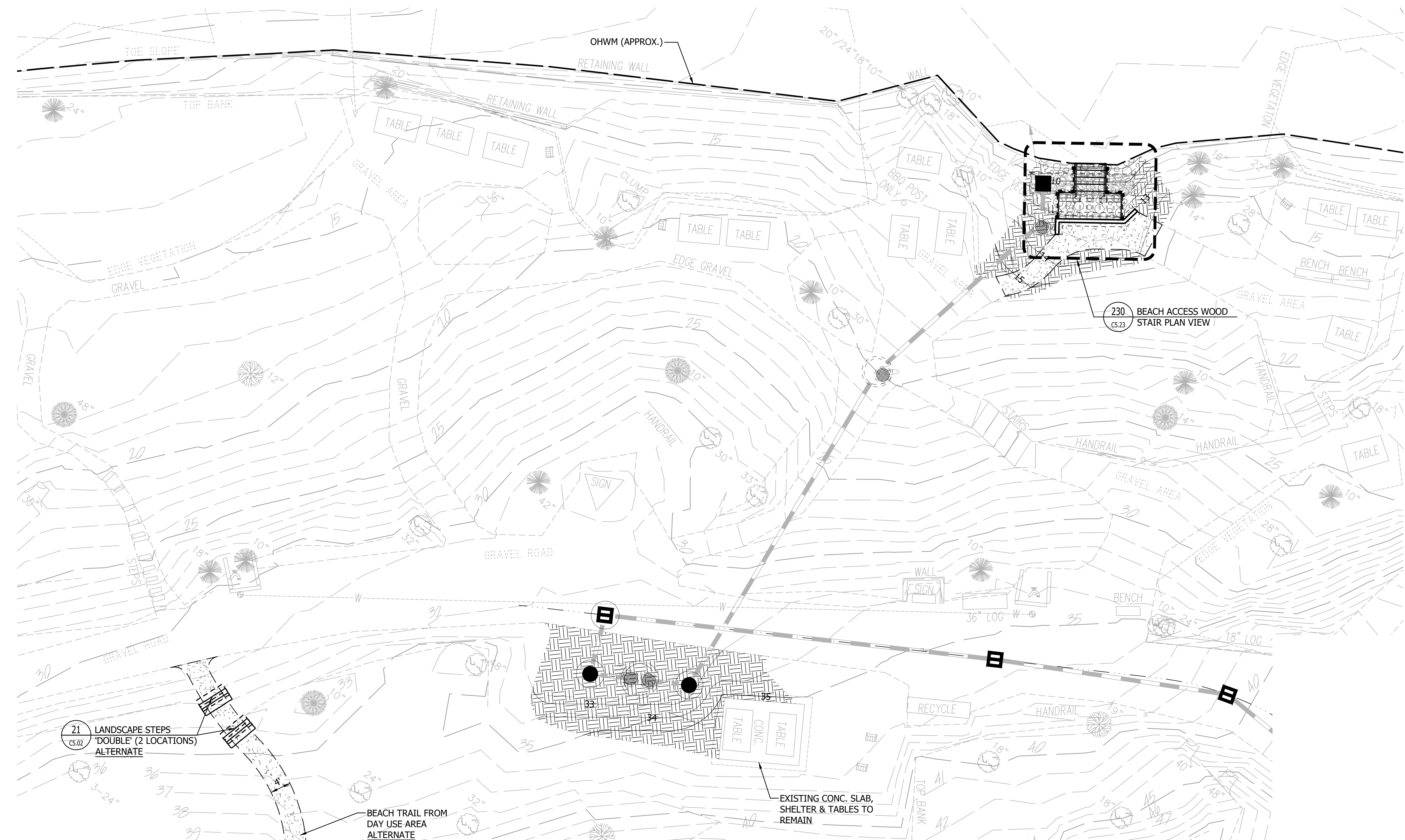
WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

LAYOUT & MATERIALS PLAN ENLGMT. - BEACH AREA

C3.14
SCALE AS NOTED
PARKS FILE#



LAYOUT & MATERIALS LEGEND

- 2" DEPTH 1/4" MINUS CRUSHED SURFACING OVER 4" AGGREGATE BASE (TRAILS/PATHS) (20 CS.02)
- WOOD FRAMED EXTERIOR STRUCTURES (BEACH ACCESS DECK AND STAIRS)
- 12" DEPTH IMPORT TOPSOIL (SEE LANDSCAPE PLANTING PLANS) (25 CS.02)
- 125 - 124 PROPOSED CONTOUR LINES (SEE GRADING PLANS)
- 125 - 124 EXISTING CONTOUR LINES

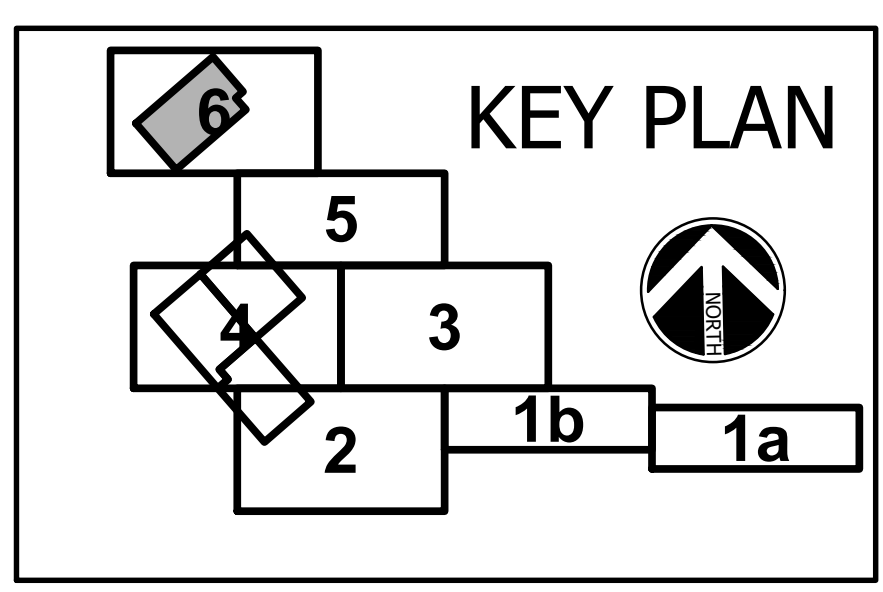
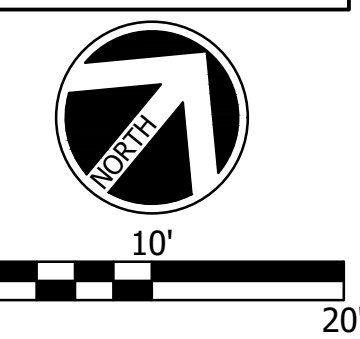
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PROJECT LAYOUT & STAKING

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BID SET

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:

STATEMENT OF SPECIAL INSPECTIONS:

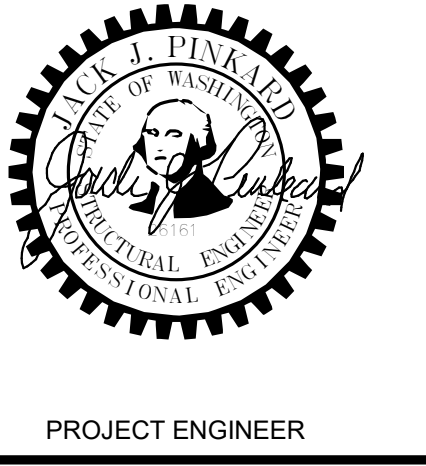
SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED PER THE REQUIREMENTS OF IBC SECTION 1704 AND 1705 AND AS NOTED HEREIN.

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		
STEEL CONSTRUCTION	MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS		X		AISC 360 CHAPTER N5	
	MATERIAL VERIFICATION OF STRUCTURAL STEEL A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360 B. MANUFACTURER'S CERTIFIED MILL TEST REPORTS		X	MANUFACTURER TO PROVIDE CERTIFIED MILL TEST REPORTS	AISC 360 CHAPTER N5 AISC 341 CHAPTER J6	
	MATERIAL VERIFICATION OF WELD FILLER MATERIALS A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATIONS LISTED IN GENERAL NOTES B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE		X	MANUFACTURER TO PROVIDE CERTIFICATE OF COMPLIANCE	AISC 360 CHAPTER N5	
	INSPECTION OF WELDING A. COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS B. MULTI-PASS FILLET WELDS C. SINGLE-PASS FILLET WELDS > 5/16" D. PLUG AND SLOT WELDS E. SINGLE-PASS FILLET WELDS ≤ 5/16"	X X X X		X	SPECIAL INSPECTIONS IN THIS SECTION ARE WAIVED WHERE FABRICATION IS PERFORMED ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED IN ACCORDANCE WITH IBC SECTION 1704.2.5	AISC 360 CHAPTER N5 AISC 341 CHAPTER J6 AWS D1.1
	INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS			X		
	REINFORCING STEEL AND PLACEMENT			X	SPECIAL INSPECTIONS NOT REQUIRED FOR THE FOLLOWING CONDITIONS:	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	NON-STRUCTURAL SLAB ON GRADE	ACI 318: 17.8.2 AISC 360 SECTION N7
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 ACI 318: 26.4, 26.12 IBC 1908.10	
MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES			X		ACI 318: 26.5.3 TO 26.5.5 IBC 1908.9	
VERIFICATION OF IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS			X		ACI 318: 26.11.2	
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED			X		ACI 318: 26.11.2(b)	
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 AWS D1.4 IBC 1705.3.1	
TESTING OF MATERIALS			X		IBC 1705.3.2	

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
BTKN	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
CONG.	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	PLY.	PLYWOOD
DWG	DRAWING	REINF.	REINFORCING
DWL	DOWEL	REQ'D	REQUIRED
(E)	EXISTING	SCHED.	SCHEDULE
EA.	EACH	S.C.L.SHT'G	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.S.	FACE OF STUD	T.O.F.	TOP OF FOOTING
FRM'G	FRAMING	T.O.S.	TOP OF STEEL
F.R.T.	FIRE RETARDANT TREATED	TRT'D	TREATED
F.S.	FAR SIDE	TYP.	TYPICAL
FTG	FOOTING	U.N.O.	UNLESS NOTED OTHERWISE
GA.	GAGE/GAUGE	U.T.	ULTRASONIC TESTED
GALV.	GALVANIZED	VERT.	VERTICAL
GL.	GLULAM	W	WITH
GR.	GRADE	W.P.	WORK POINT
GWB	GYP SUM WALL BOARD	WT	WEIGHT
HDR	HEADER	WWR.	WELDED WIRE REINFORCING

CAD NO.	
	DATE
	APP.
	INT.
	REV. NO.

ACTION	BY	DATE
DESIGNED	JJP	NOV. 2023
DRAWN	MCS	NOV. 2023
CHECKED (FIELD)		
CHECKED (HQTS.)		



WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

STRUCTURAL GENERAL NOTES

C4.04

SCALE

NO SCALE

SHEET 44 of 102

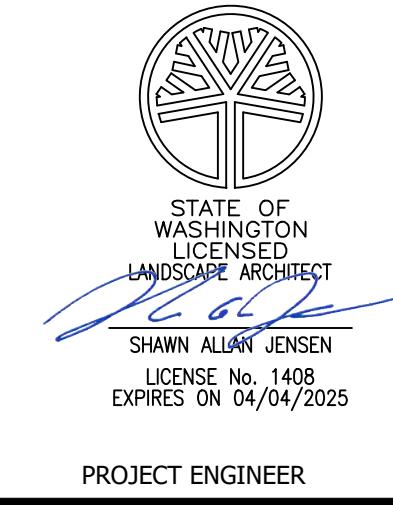
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PARKS FILE#

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		DATE
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	REVISIONS	
		NO.

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CHECKED (HDQTS.)		



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KOPACHUCK STATE PARK

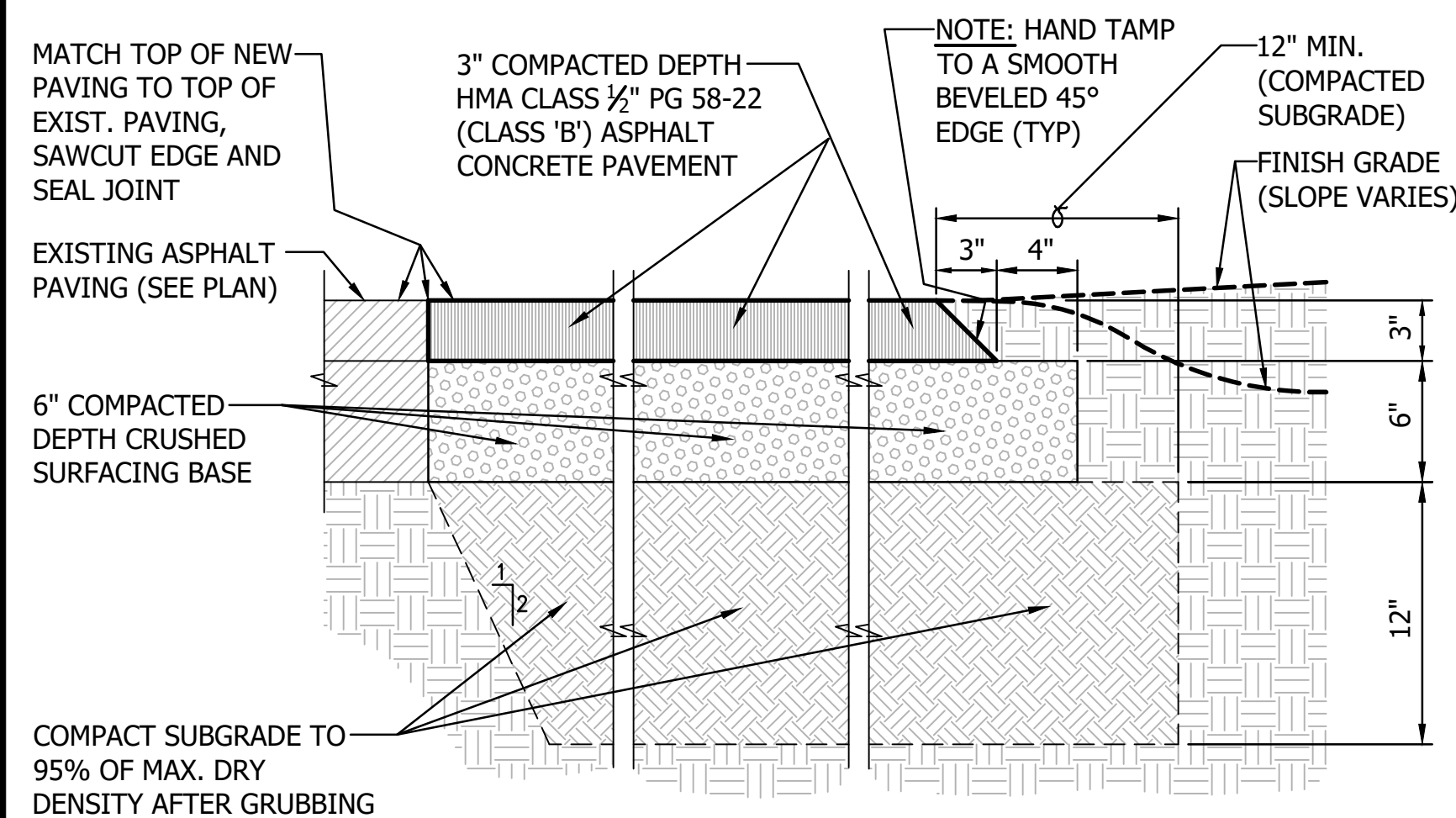
DAY USE DEVELOPMENT

SITE SECTIONS & DETAILS

C5.01

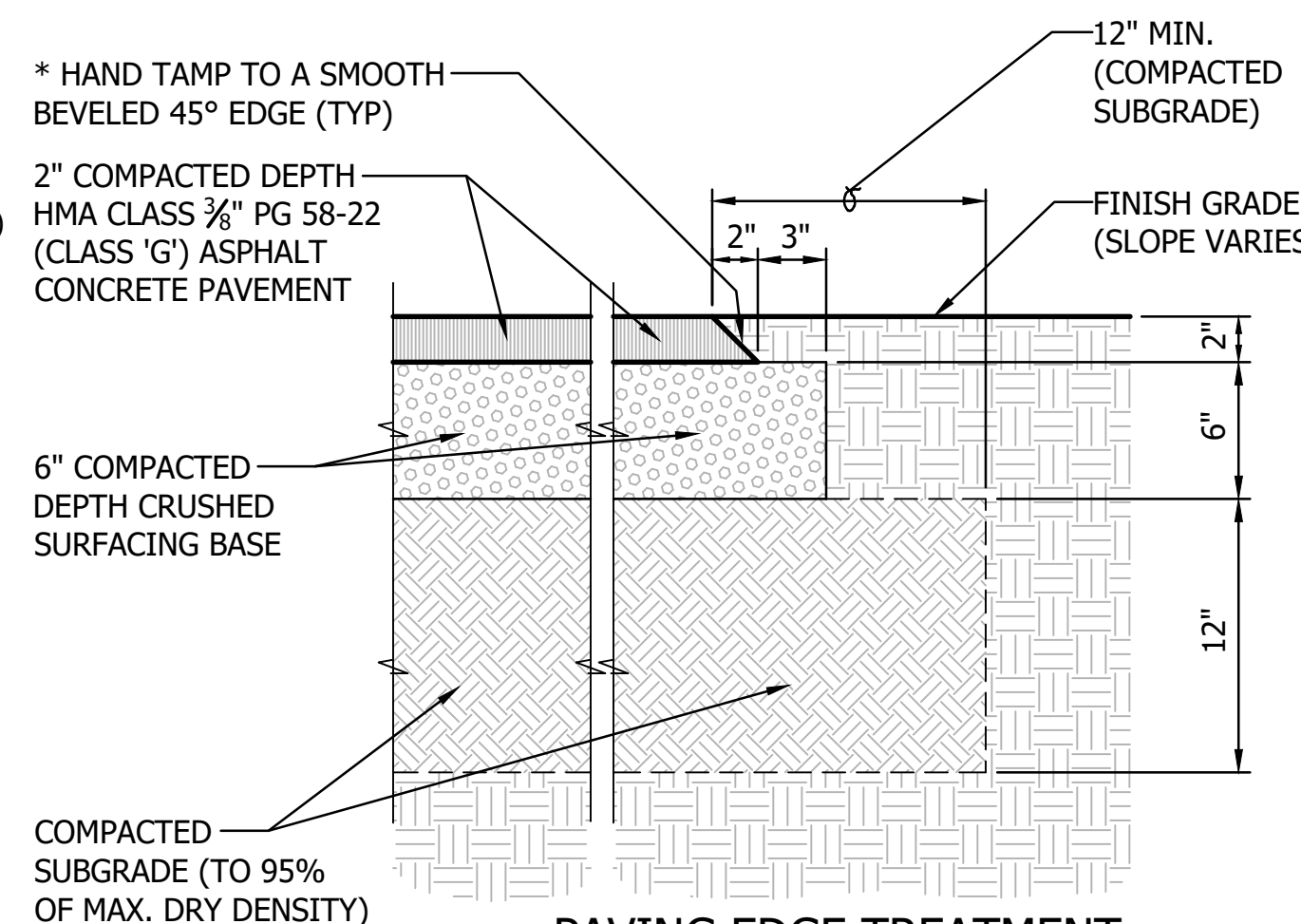
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SHEET 45 OF 102
BID SET
PARKS FILE#



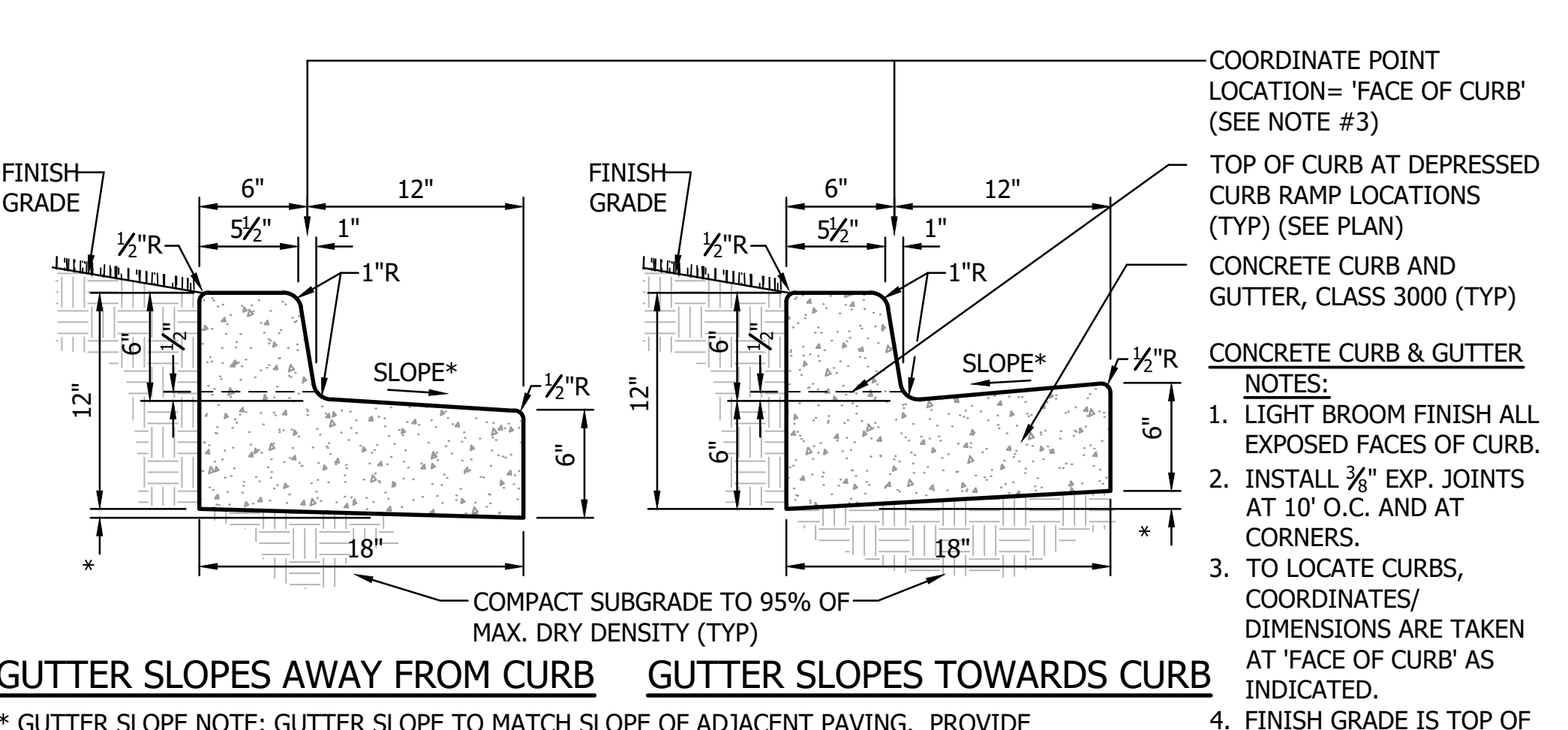
PAVING EDGE TREATMENT (WHERE ABUTTING EXIST. PAVING)

10 3" HMA CL. 1/2" PG 58-22 ASPH. PVMT.
C5.01 1-1/2" = 1'-0" ON FULL SIZE (34"x22")



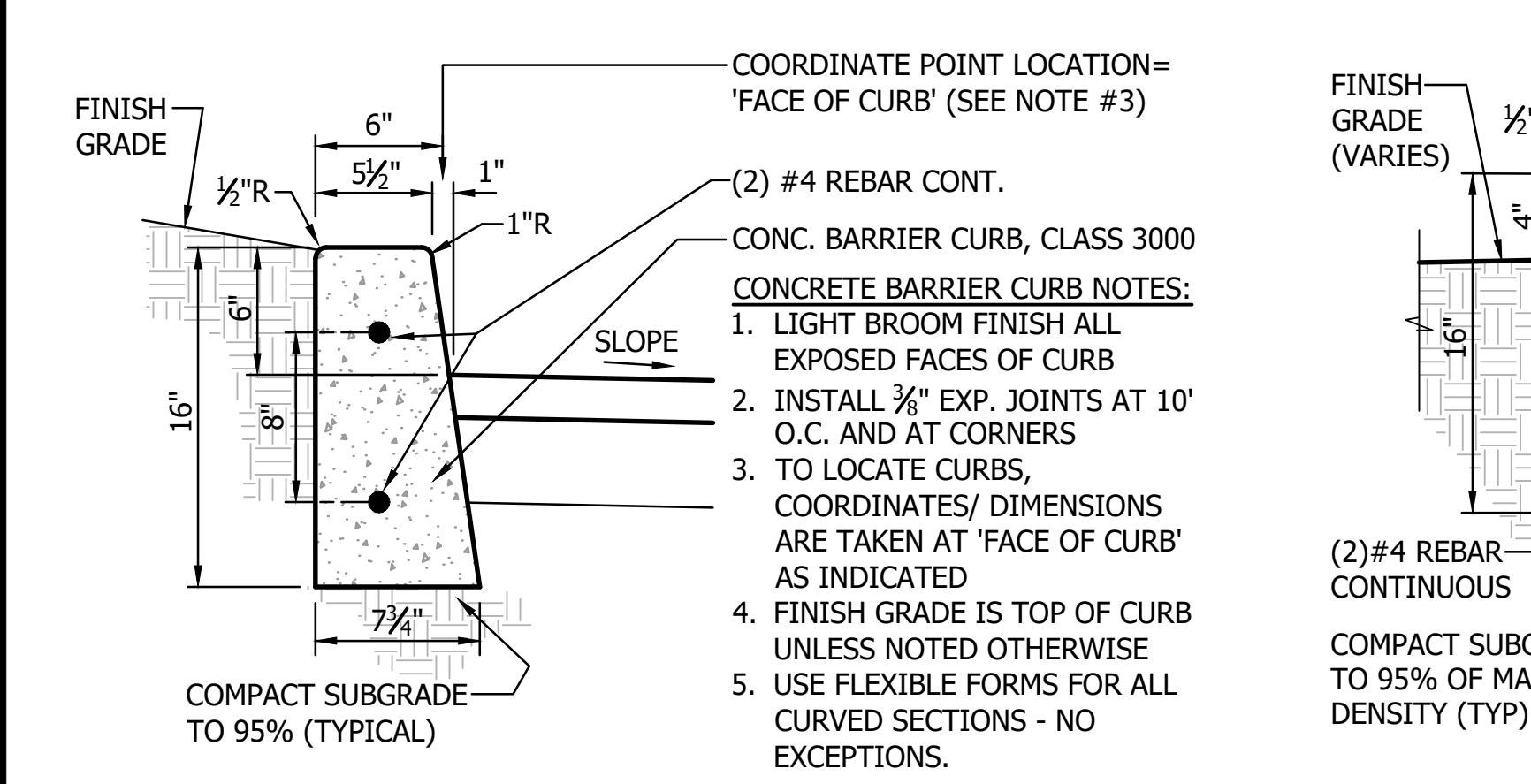
PAVING EDGE TREATMENT (WHERE NOT ABUTTING CURB/PAVING)

11 2" HMA CL. 3/8" PG 58-22 ASPH. PVMT.
C5.01 1-1/2" = 1'-0" ON FULL SIZE (34"x22")



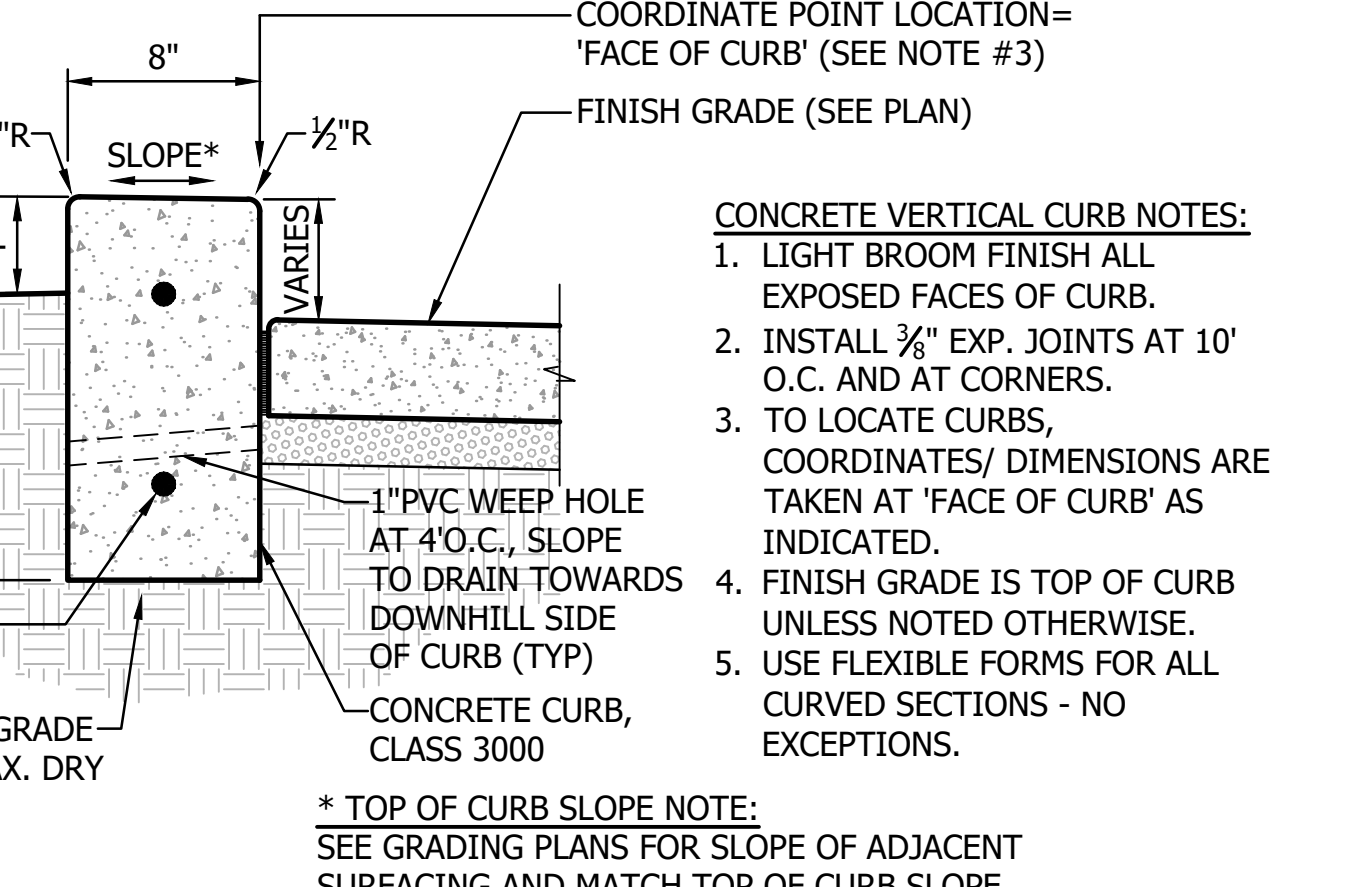
GUTTER SLOPES AWAY FROM CURB GUTTER SLOPES TOWARDS CURB

12 CONCRETE CURB & GUTTER DETAILS
C5.01 1-1/2" = 1'-0" ON FULL SIZE (34"x22")



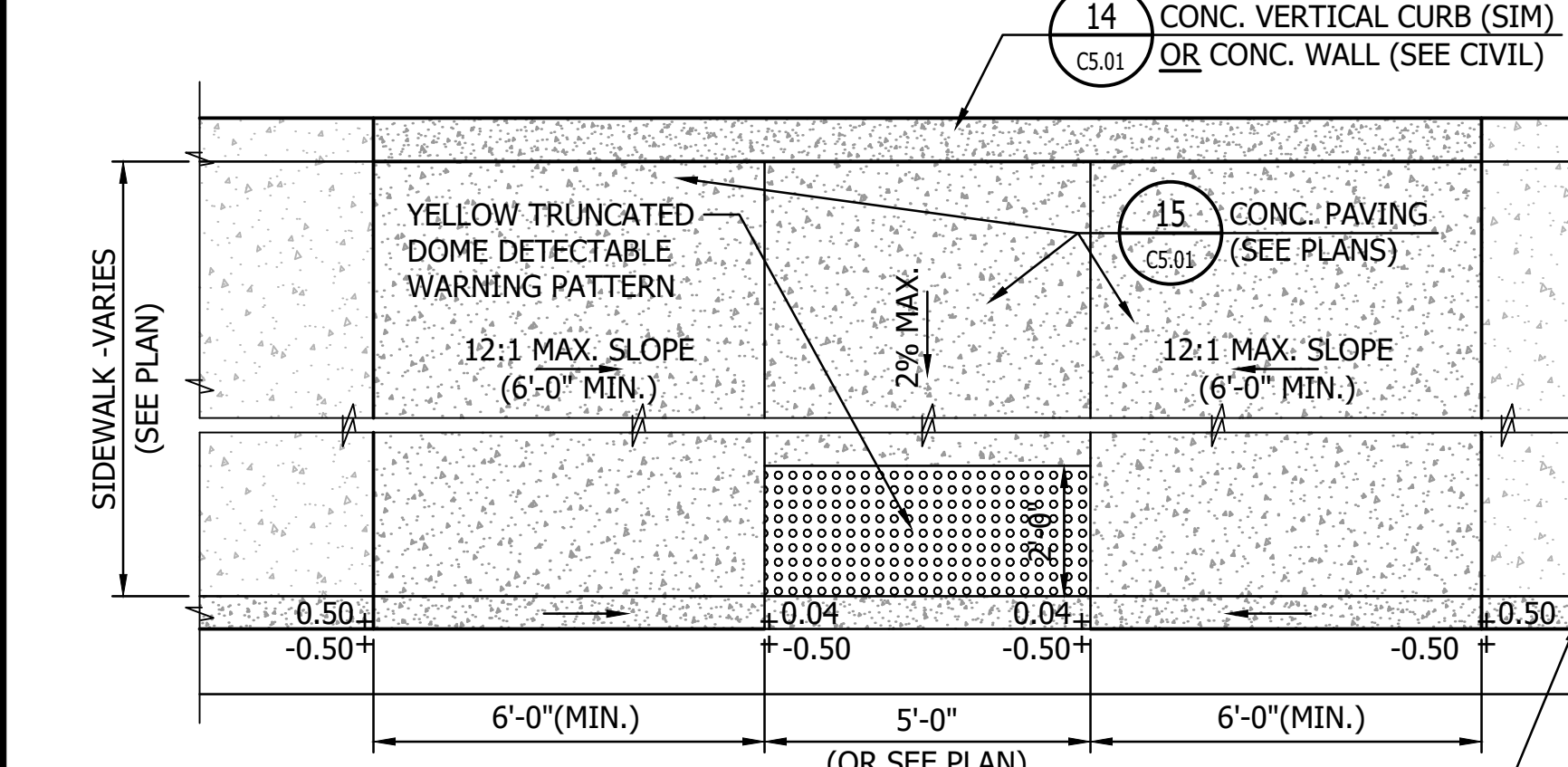
- CONCRETE BARRIER CURB NOTES:**
1. LIGHT BROOM FINISH ALL EXPOSED FACES OF CURB
 2. INSTALL 3/8" EXP. JOINTS AT 10' O.C. AND AT CORNERS
 3. TO LOCATE CURBS, COORDINATES/ DIMENSIONS ARE TAKEN AT 'FACE OF CURB' AS INDICATED
 4. FINISH GRADE IS TOP OF CURB UNLESS NOTED OTHERWISE
 5. USE FLEXIBLE FORMS FOR ALL CURVED SECTIONS - NO EXCEPTIONS.

13 CONCRETE BARRIER CURB
C5.01 1-1/2" = 1'-0" ON FULL SIZE (34"x22")

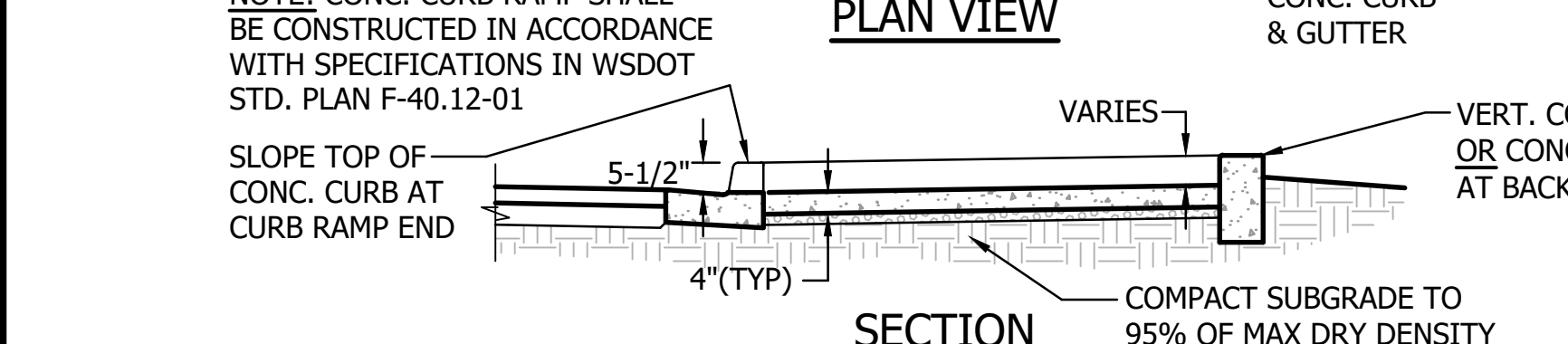


- CONCRETE VERTICAL CURB NOTES:**
1. LIGHT BROOM FINISH ALL EXPOSED FACES OF CURB.
 2. INSTALL 3/8" EXP. JOINTS AT 10' O.C. AND AT CORNERS.
 3. TO LOCATE CURBS, COORDINATES/ DIMENSIONS ARE TAKEN AT 'FACE OF CURB' AS INDICATED.
 4. FINISH GRADE IS TOP OF CURB UNLESS NOTED OTHERWISE.
 5. USE FLEXIBLE FORMS FOR ALL CURVED SECTIONS - NO EXCEPTIONS.

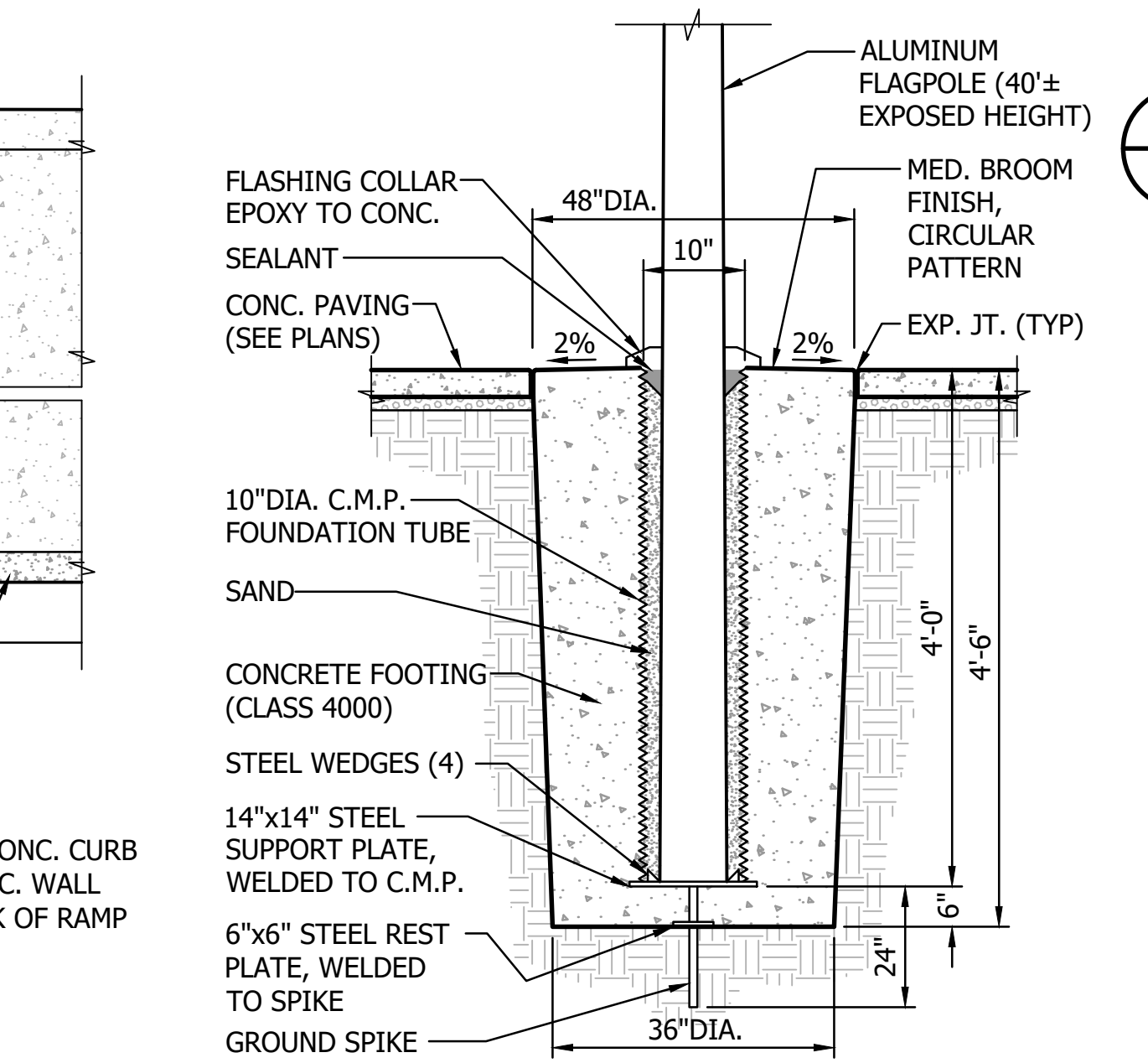
14 CONCRETE VERTICAL CURB
C5.01 1-1/2" = 1'-0" ON FULL SIZE (34"x22")



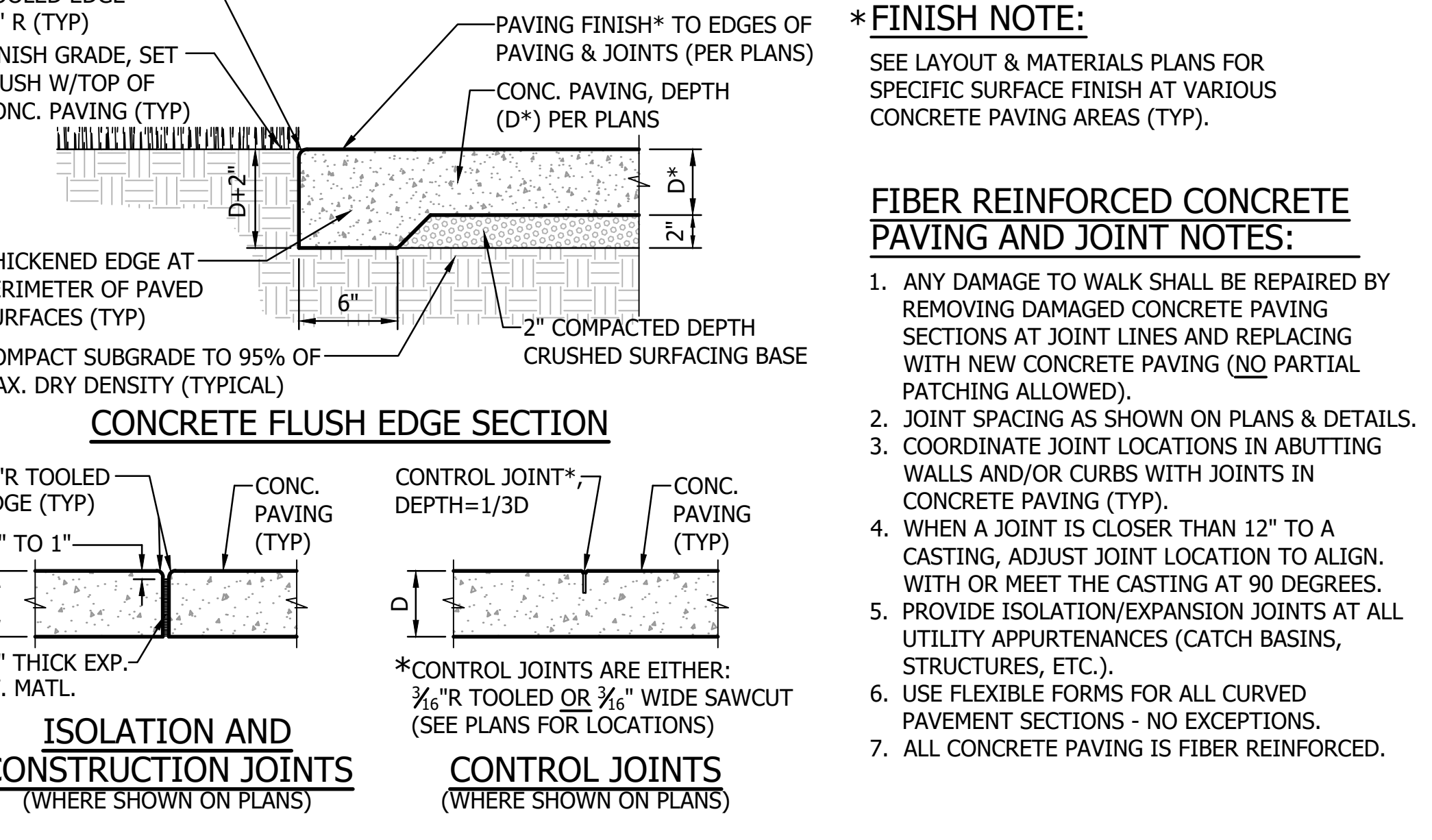
15 CONCRETE CURB RAMP DETAILS
C5.01 3/8" = 1'-0" ON FULL SIZE (34"x22")



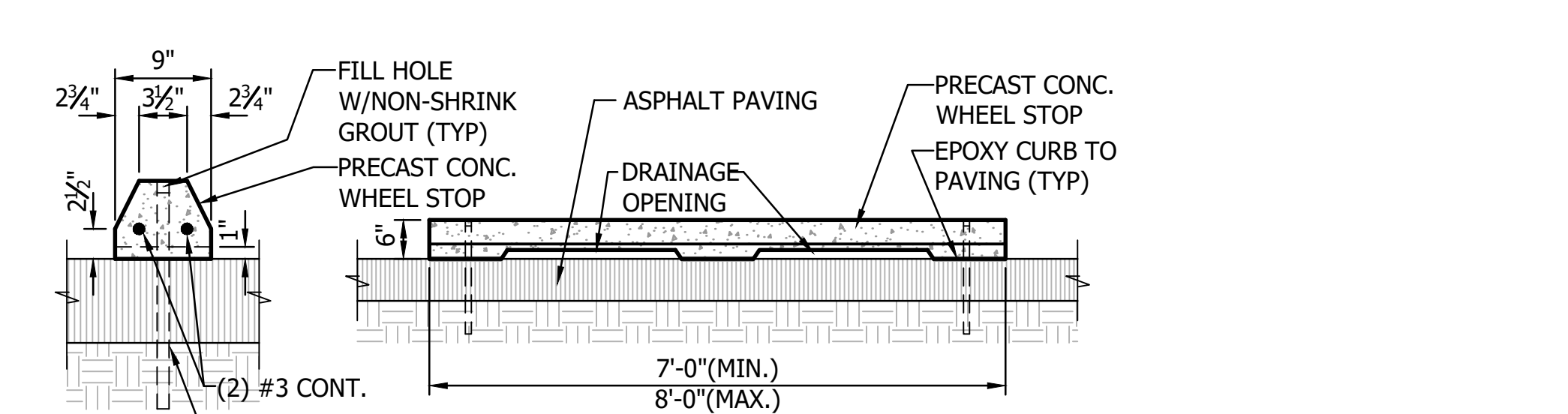
16 CONCRETE CURB RAMP DETAILS
C5.01 3/8" = 1'-0" ON FULL SIZE (34"x22")



17 FLAG POLE INSTALLATION
C5.01 1/2" = 1'-0" ON FULL SIZE (34"x22")



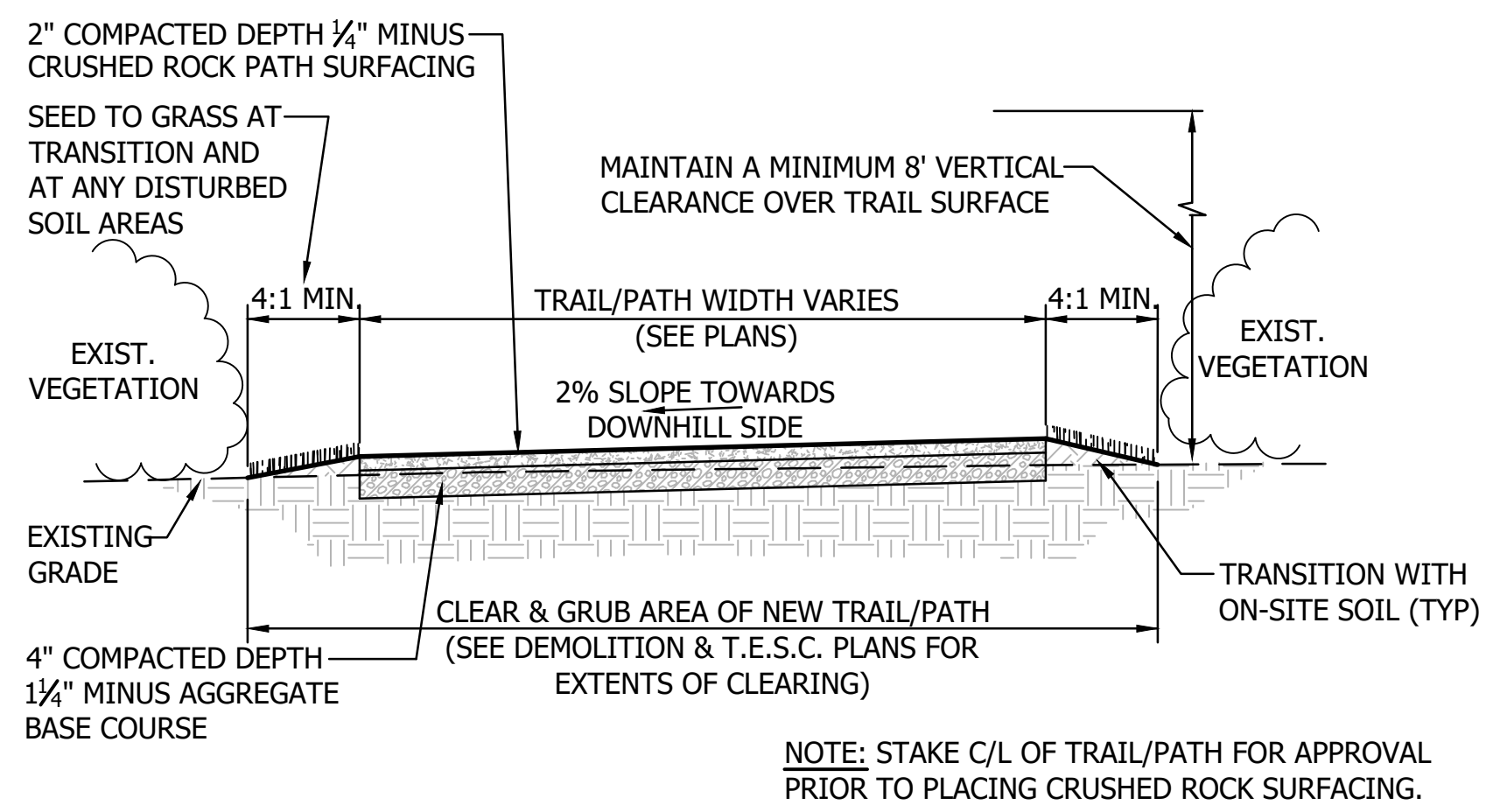
15 FIBER REINFORCED CONCRETE PAVING & JOINT DETAILS
C5.01 1-1/2" = 1'-0" ON FULL SIZE (34"x22")



18 PRECAST CONCRETE WHEELSTOP
C5.01 1/2" = 1'-0" ON FULL SIZE (34"x22")

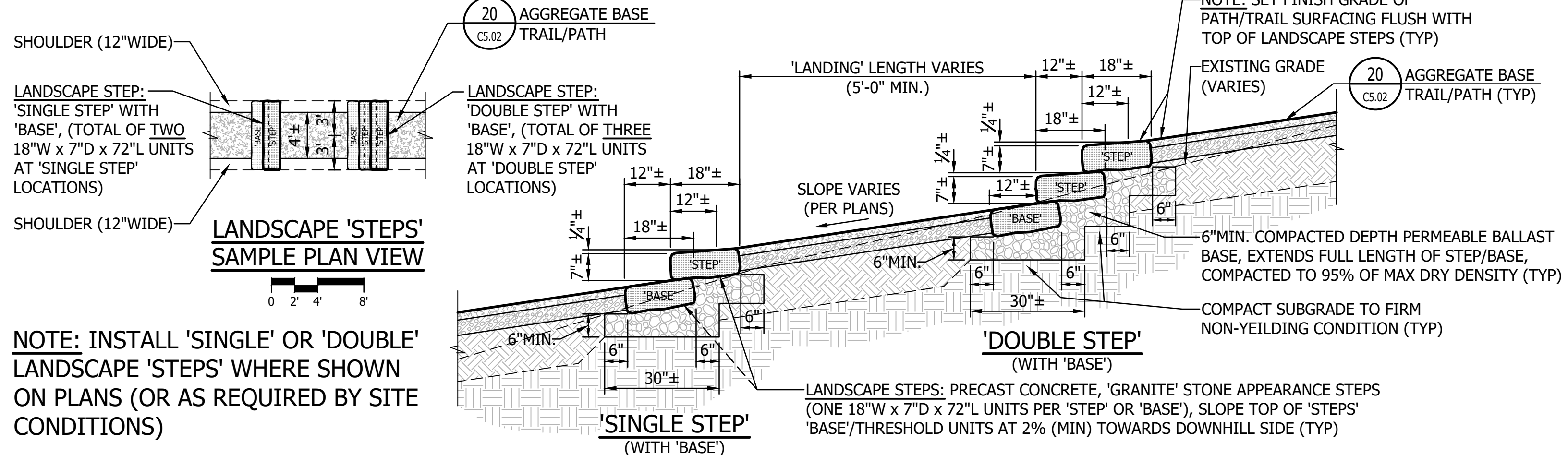


SHEET 45 OF 102
BID SET
PARKS FILE#



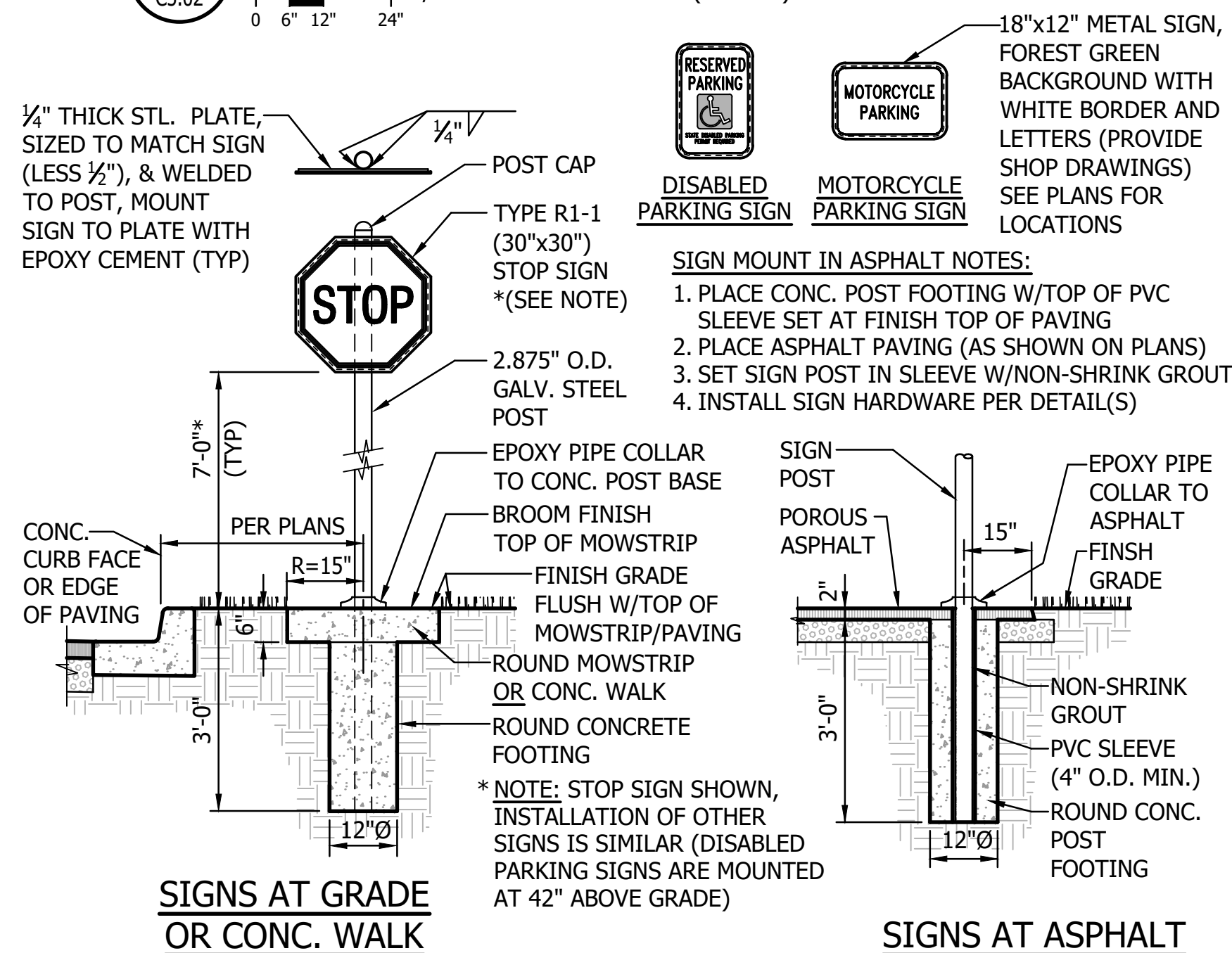
20 AGGREGATE BASE TRAIL/PATH

C5.02 1/2" = 1'-0" ON FULL SIZE (34"x22")



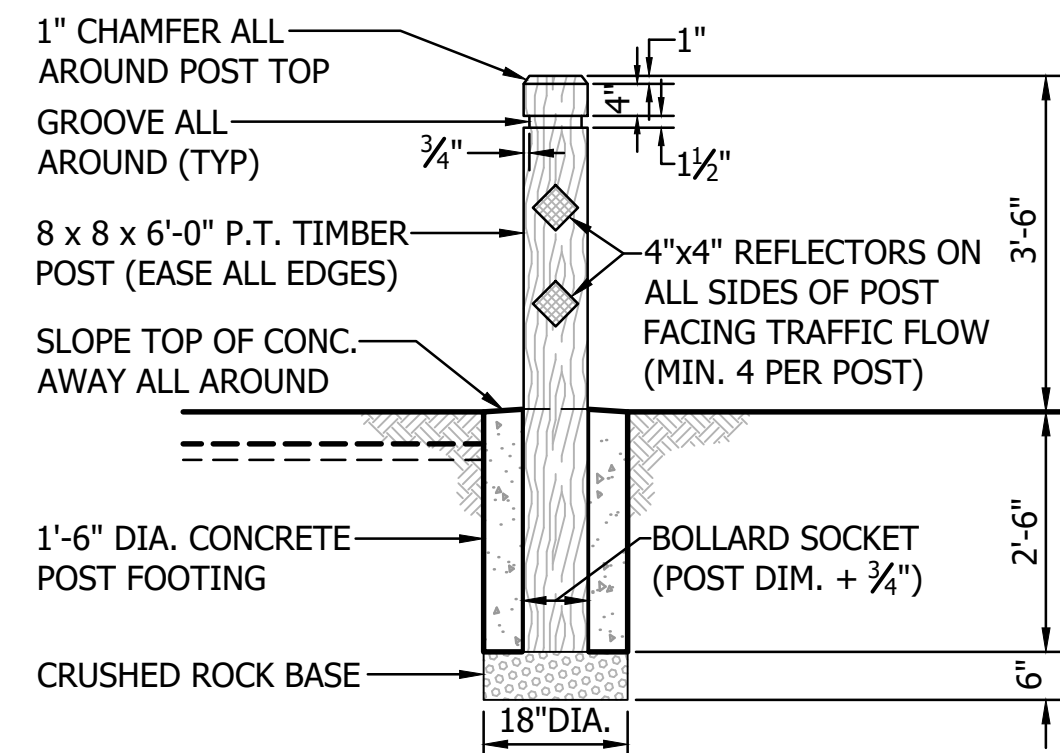
21 LANDSCAPE STEPS ('SINGLE' OR 'DOUBLE' PER PLANS)

C5.02 1/2" = 1'-0" ON FULL SIZE (34"x22")



22 SIGN INSTALLATION DETAILS

C5.02 1/2" = 1'-0" ON FULL SIZE (34"x22")

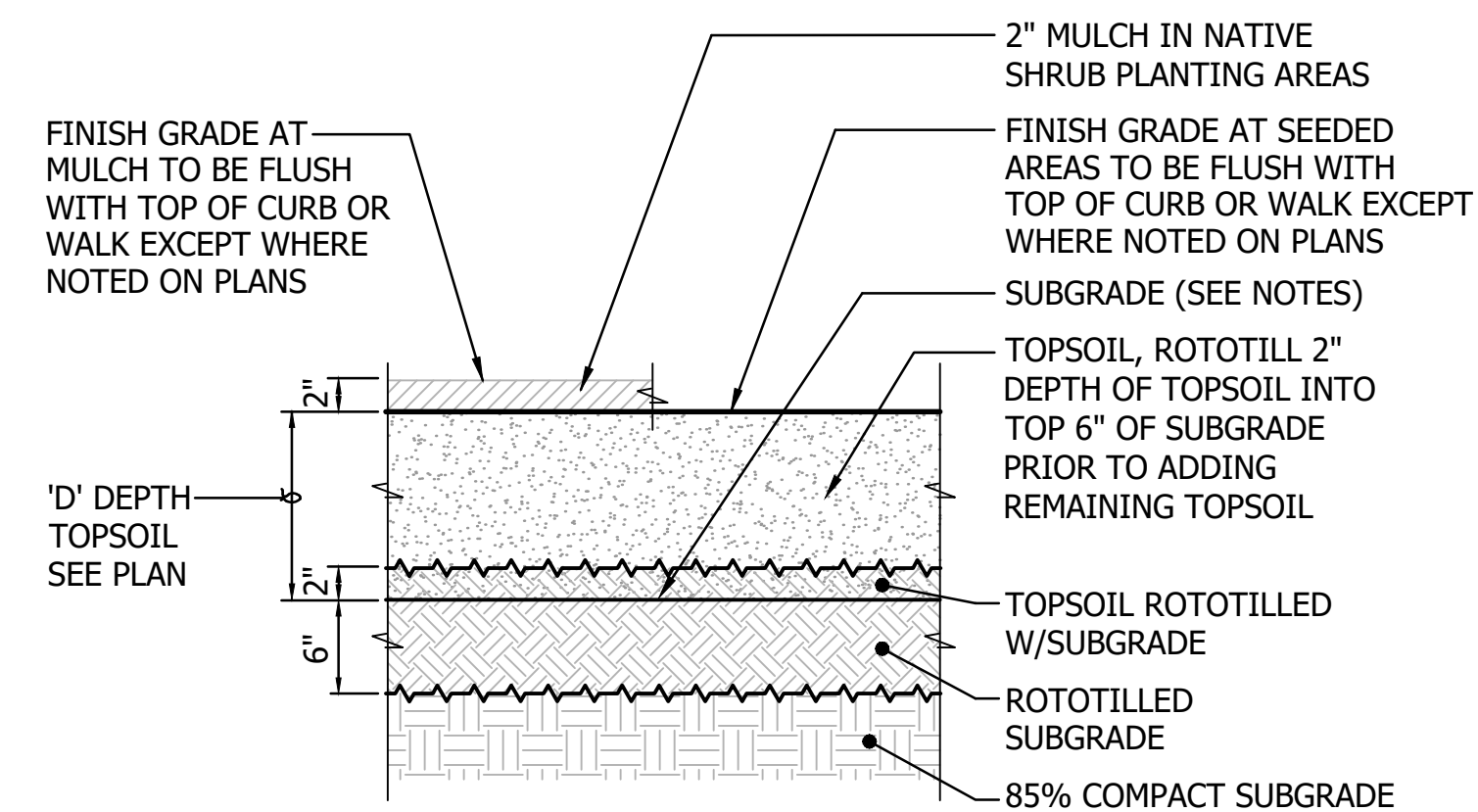


24 REMOVABLE WOOD BOLLARD

C5.02 1/2" = 1'-0" ON FULL SIZE (34"x22")

BOLLARD NOTES:

1. BOLLARD IN LANDSCAPE / ASPHALT PAVED AREAS SHOWN, BOLLARDS IN CONC. PAVED AREAS SIMILAR.
2. PAINT BOLLARDS W/TWO COATS OF BUILDING BODY PAINT (SEE ARCH. TYP)



25 TOPSOIL INSTALLATION

C5.02 1" = 1'-0" ON FULL SIZE (34"x22")

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STATE OF WASHINGTON LICENSED LANDSCAPE ARCHITECT

SHAWN ALLAN JENSEN LICENSE No. 1408 EXPIRES ON 04/04/2025

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KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

SITE SECTIONS & DETAILS

C5.02 SCALE AS NOTED

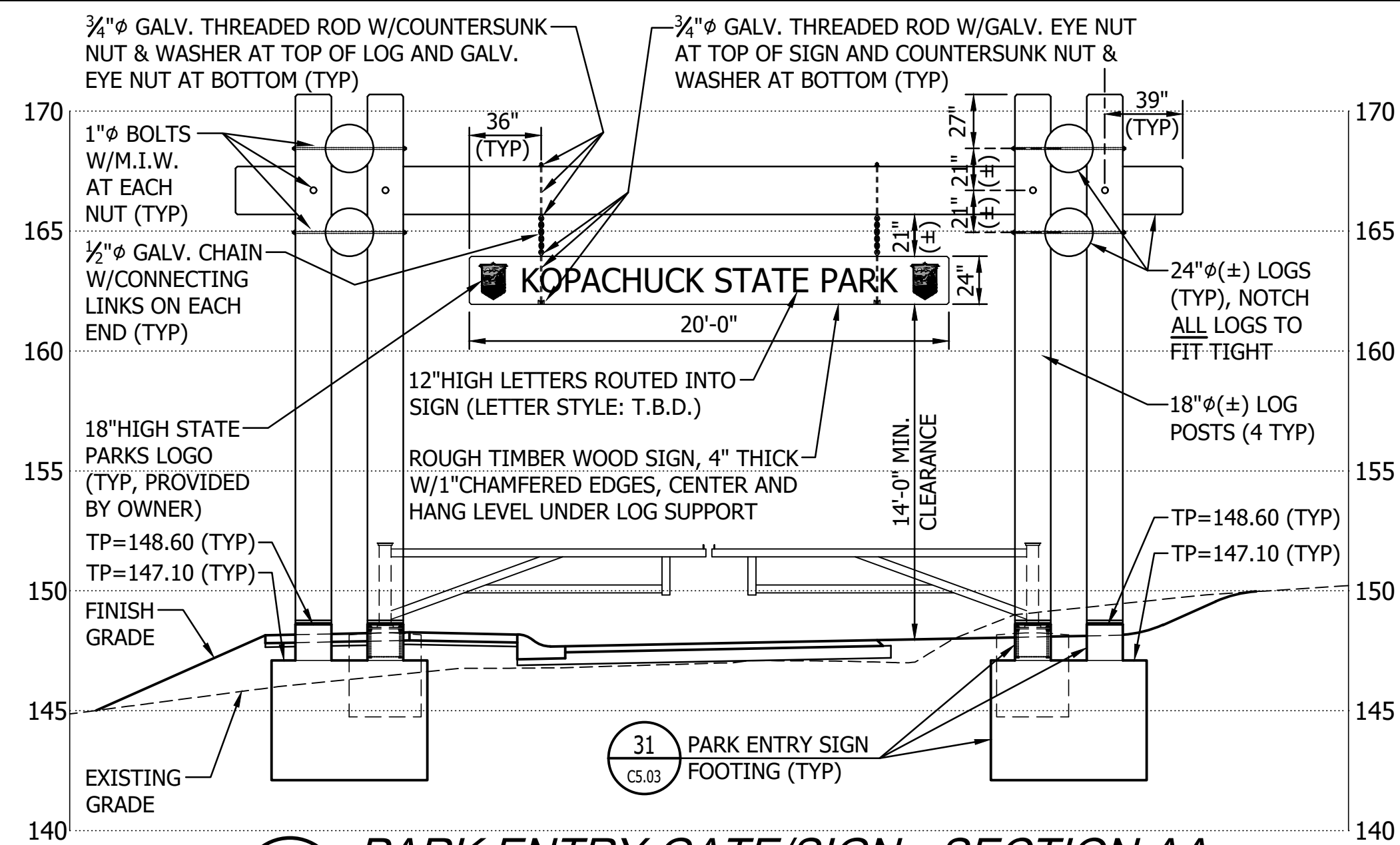
PARKS FILE#

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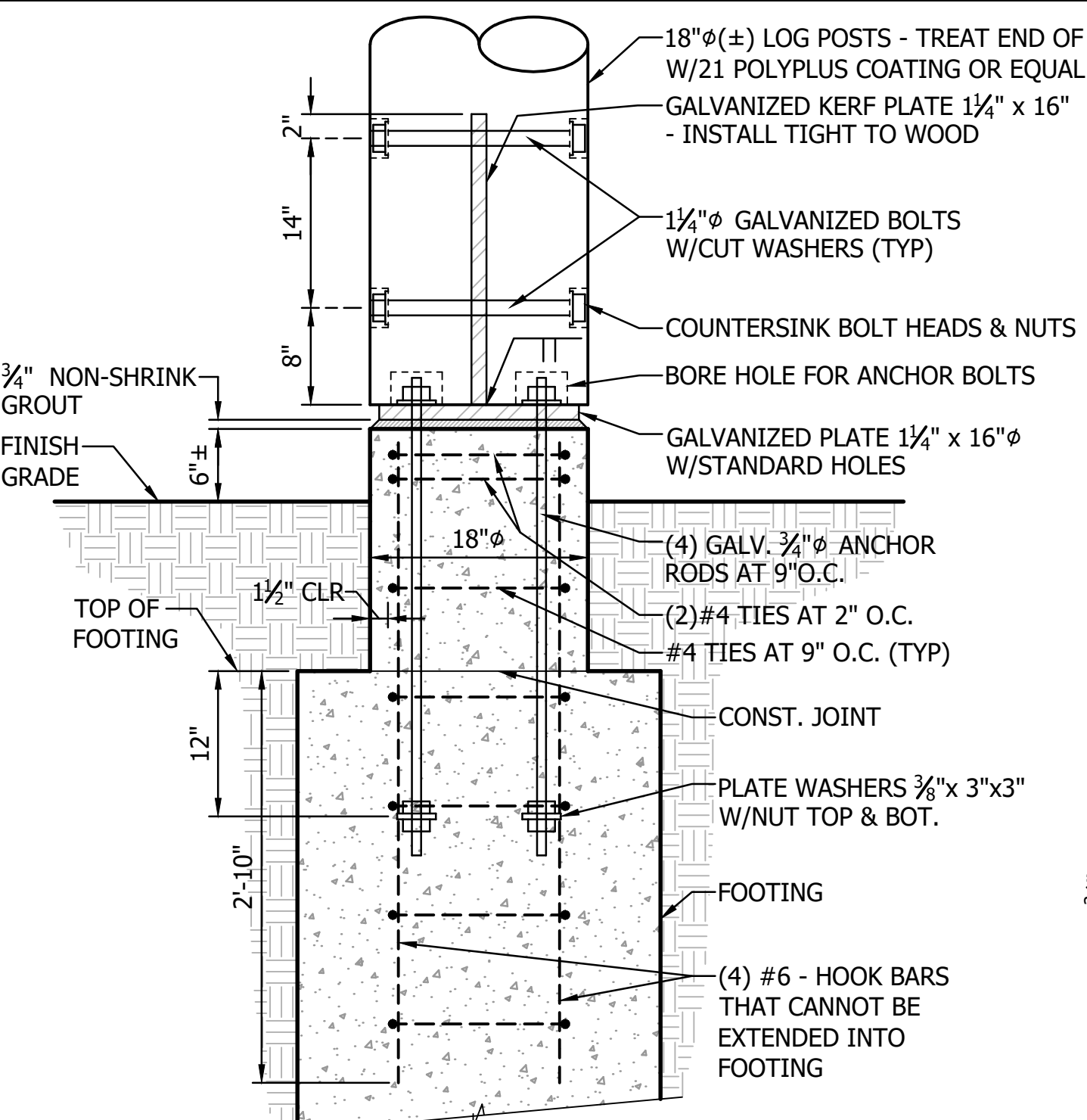
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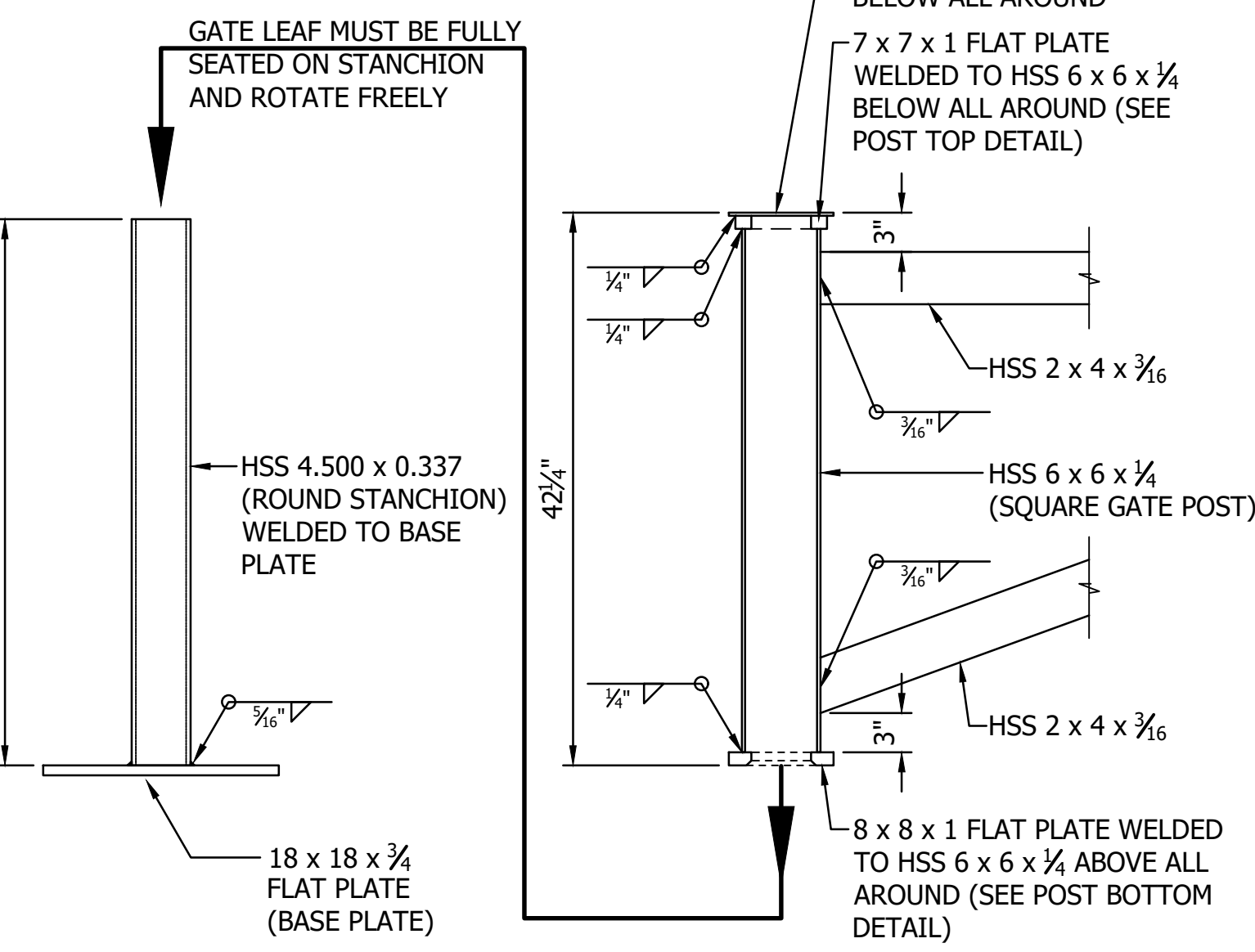
SHEET 46 OF 102
BID SET



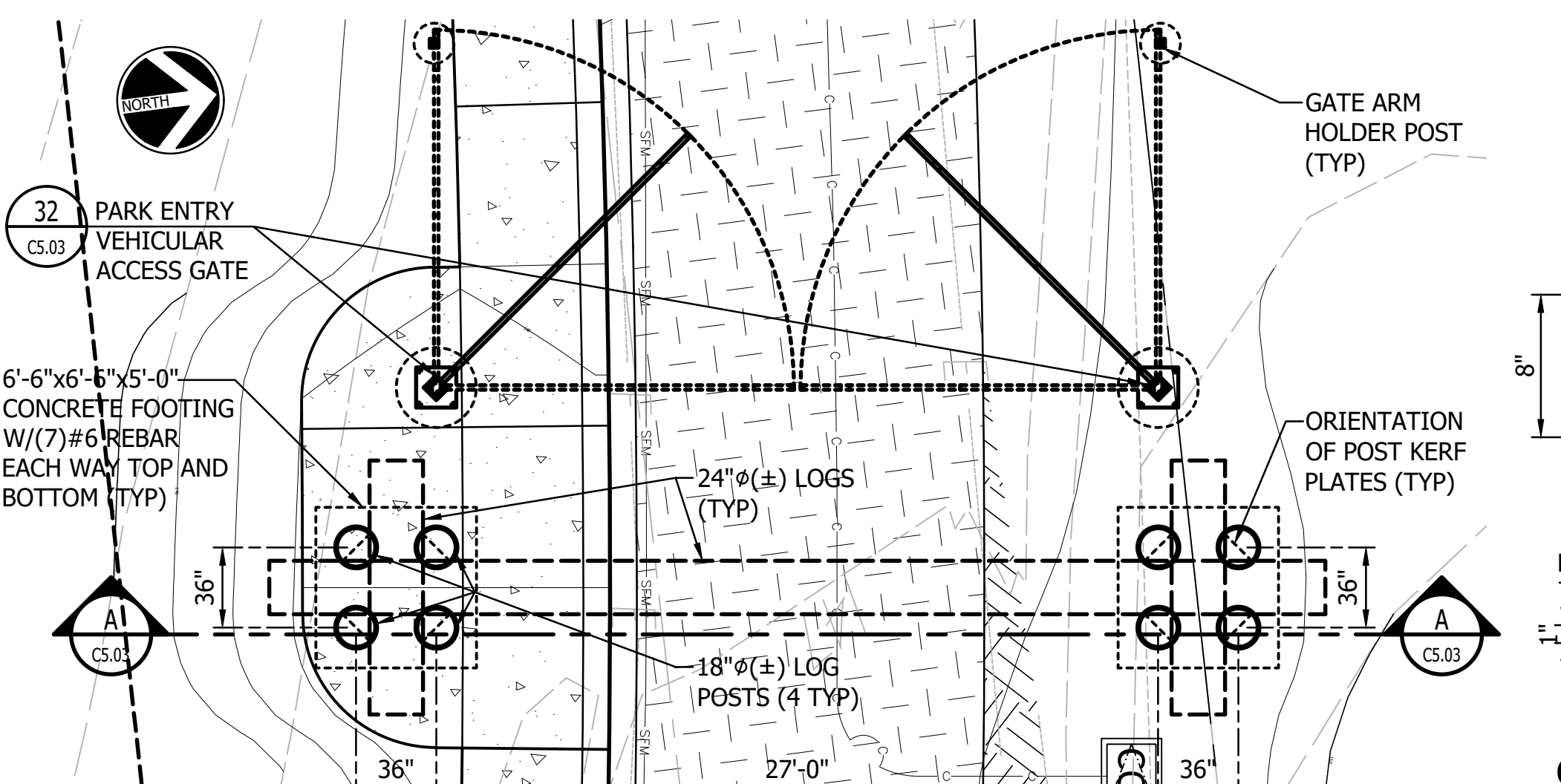
31 PARK ENTRY SIGN FOOTING
 C5.03 3/16" = 1'-0" ON FULL SIZE (34"x22")



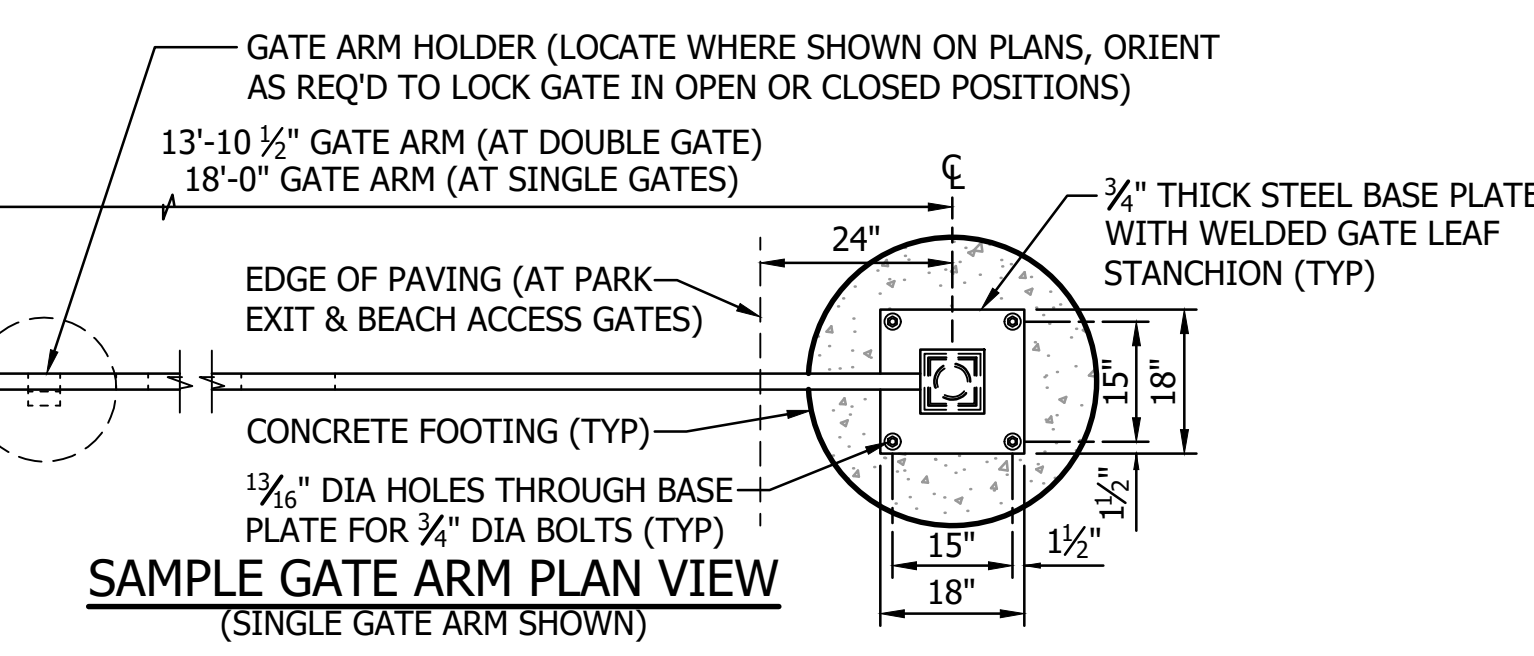
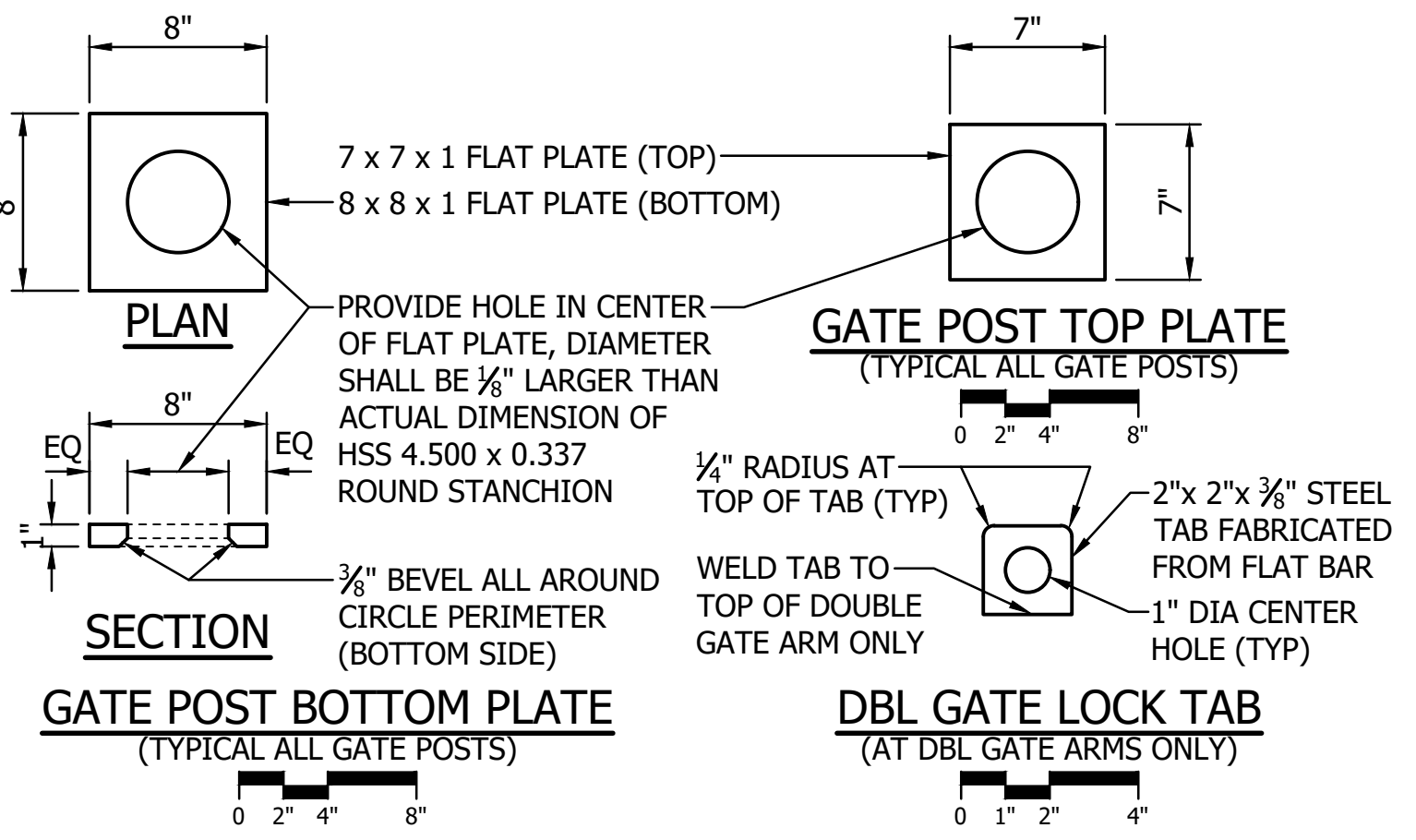
31 PARK ENTRY SIGN FOOTING
 C5.03 1" = 1'-0" ON FULL SIZE (34"x22")



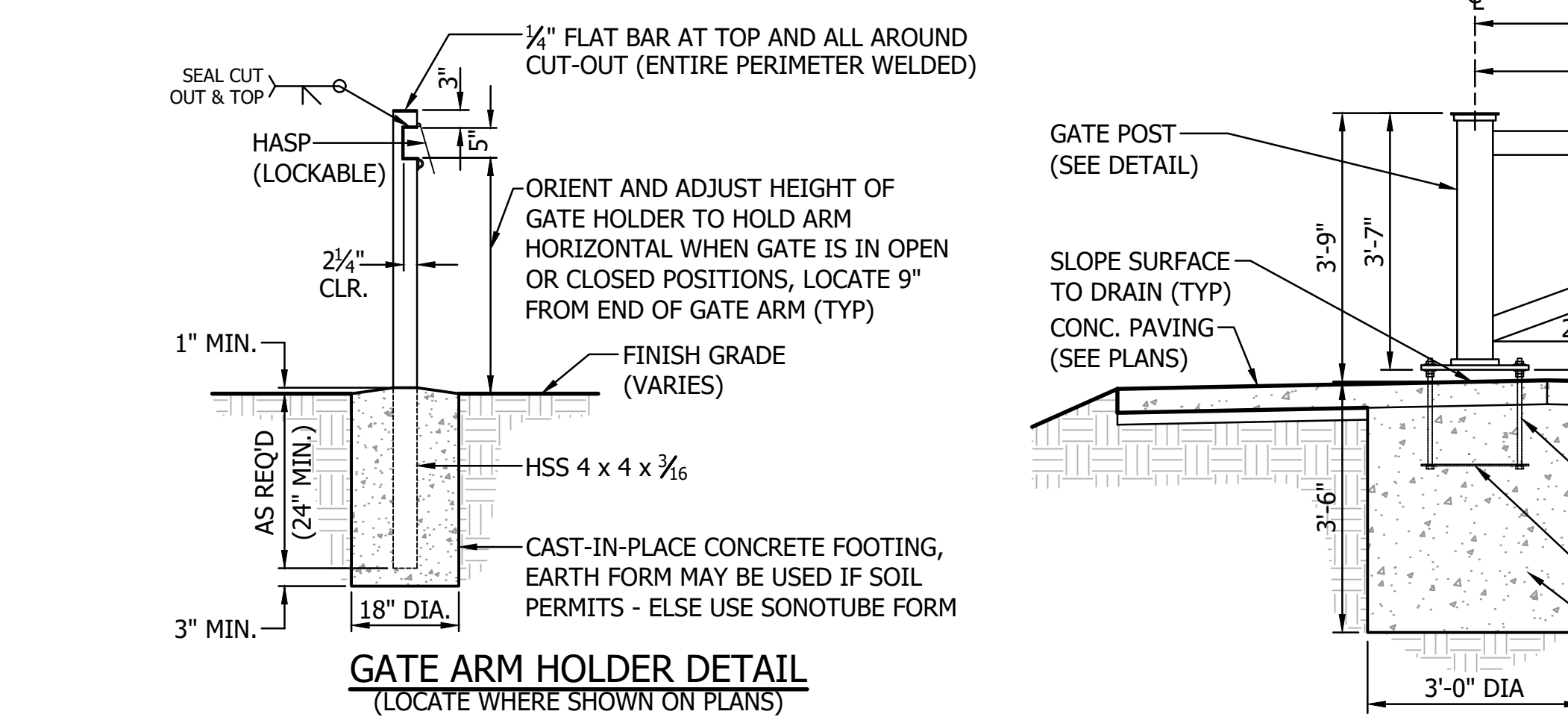
GATE POST & STANCHION DETAILS
 (TYPICAL ALL GATE POSTS)
 C5.03 0 3" 6" 12"



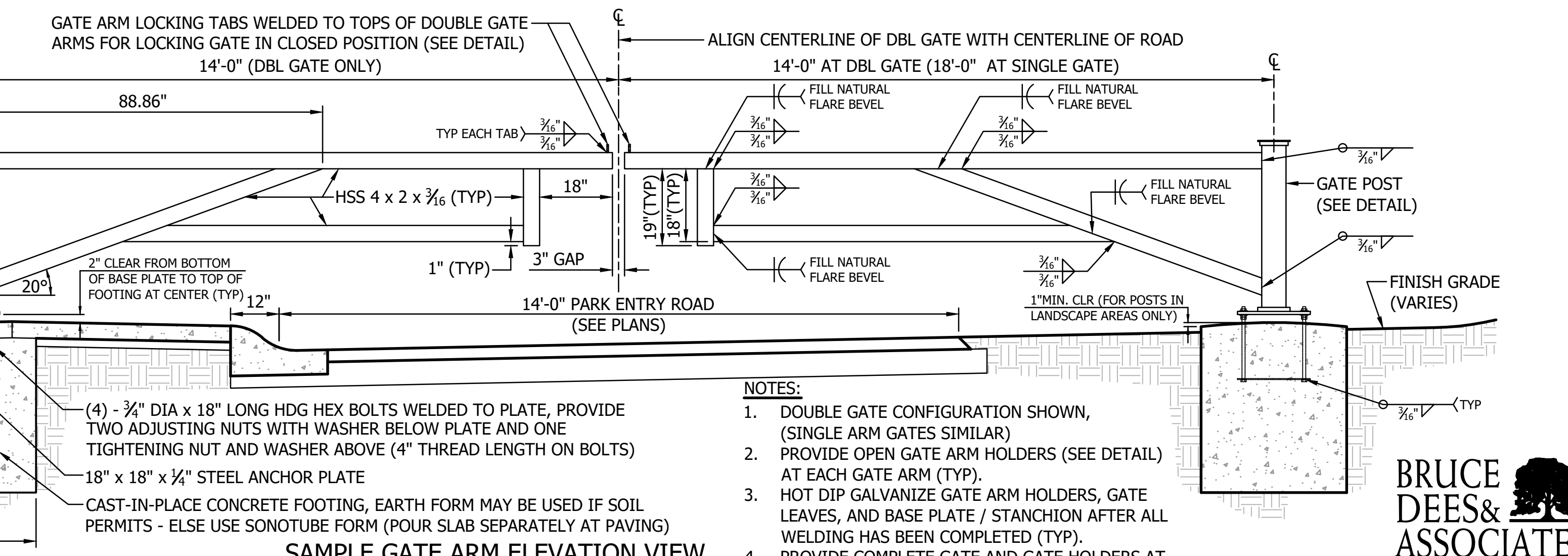
30 PARK ENTRY GATE/SIGN - PLAN VIEW
 C5.03 3/16" = 1'-0" ON FULL SIZE (34"x22")



SAMPLE GATE ARM PLAN VIEW
 (SINGLE GATE ARM SHOWN)



32 PARK ENTRY, EXIT, AND BEACH DRIVE ACCESS VEHICULAR GATE DETAILS
 C5.03 1/2" = 1'-0" ON FULL SIZE (34"x22") (UNLESS NOTED)



SAMPLE GATE ARM ELEVATION VIEW
 (DOUBLE GATE ARMS SHOWN)

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PROFESSIONAL ENGINEER
 SHAWN ALLAN JENSEN
 LICENSE No. 1408
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KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

SITE SECTIONS & DETAILS

C5.03

SCALE **AS NOTED**

BID SET

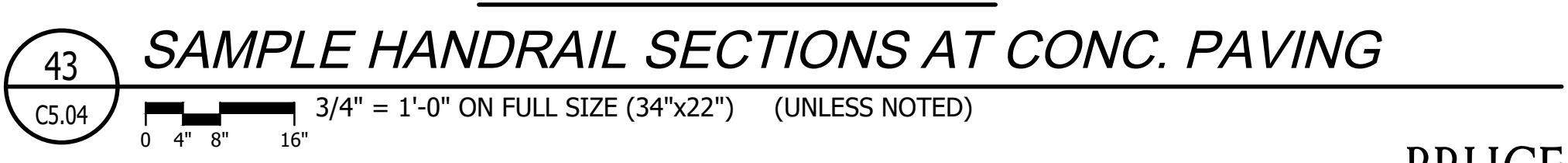
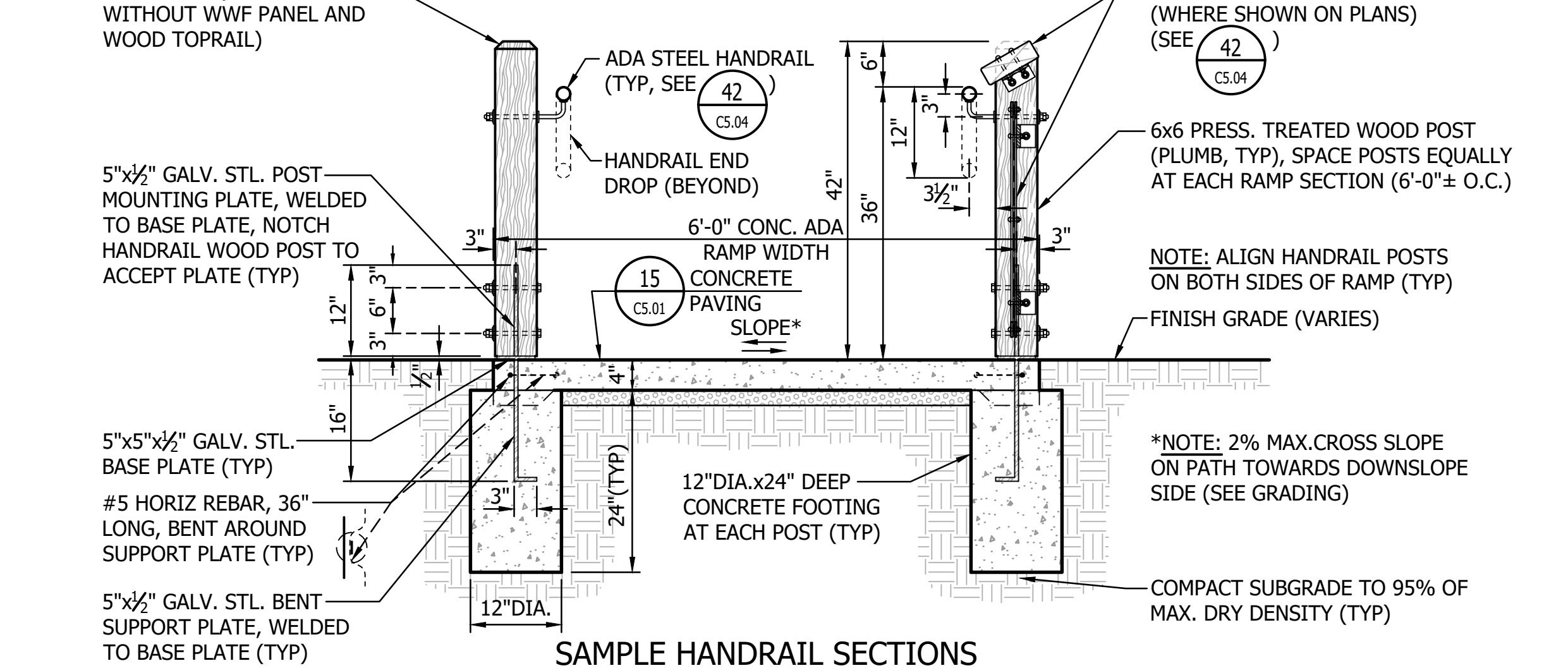
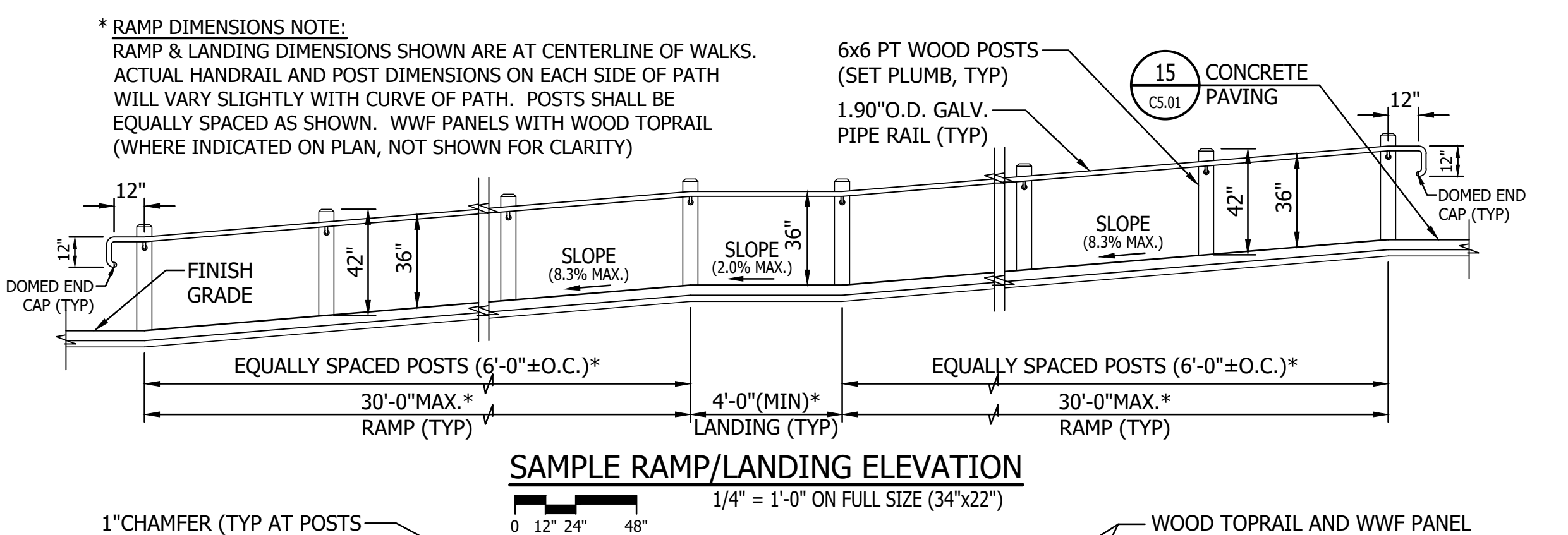
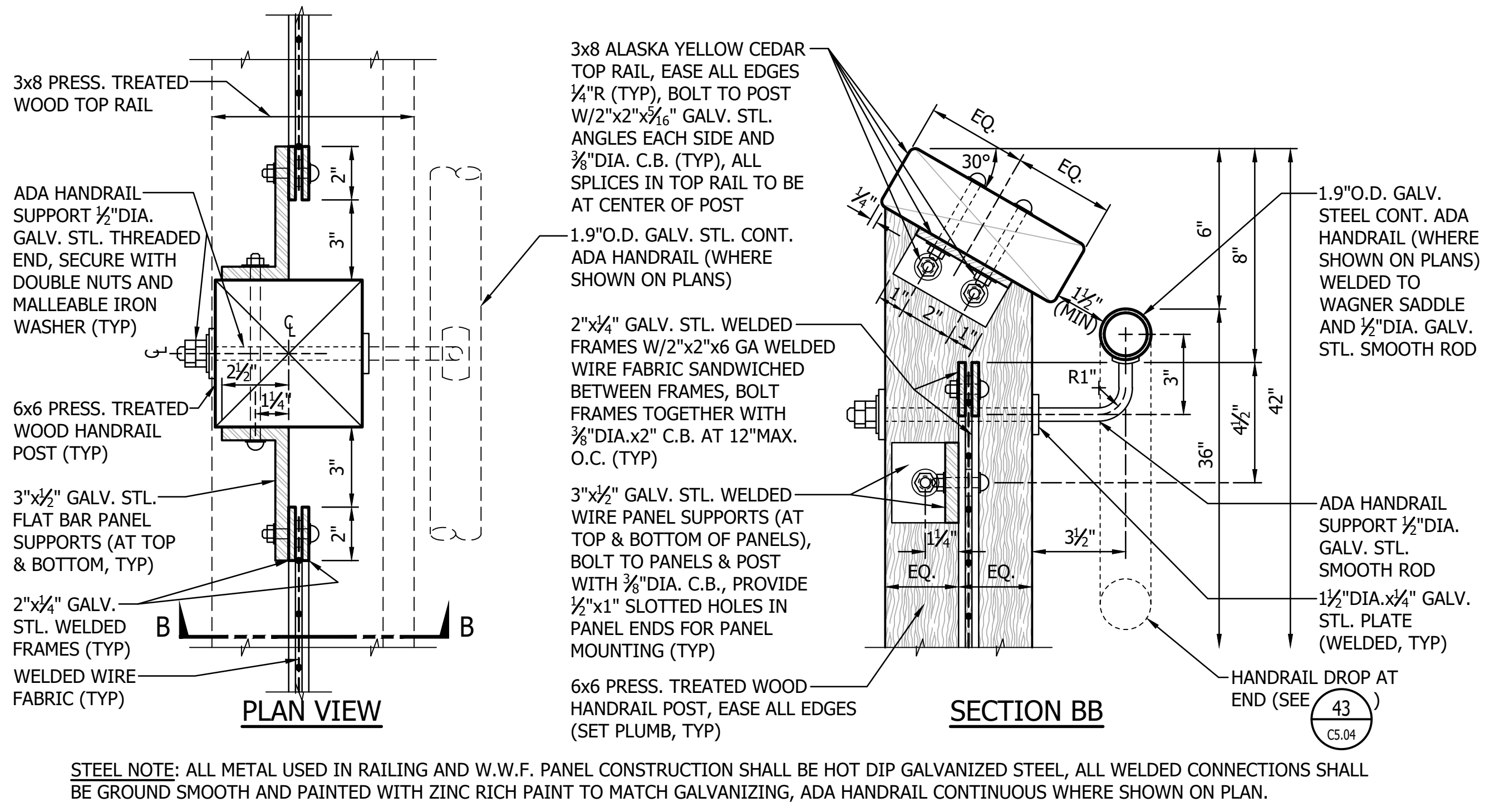
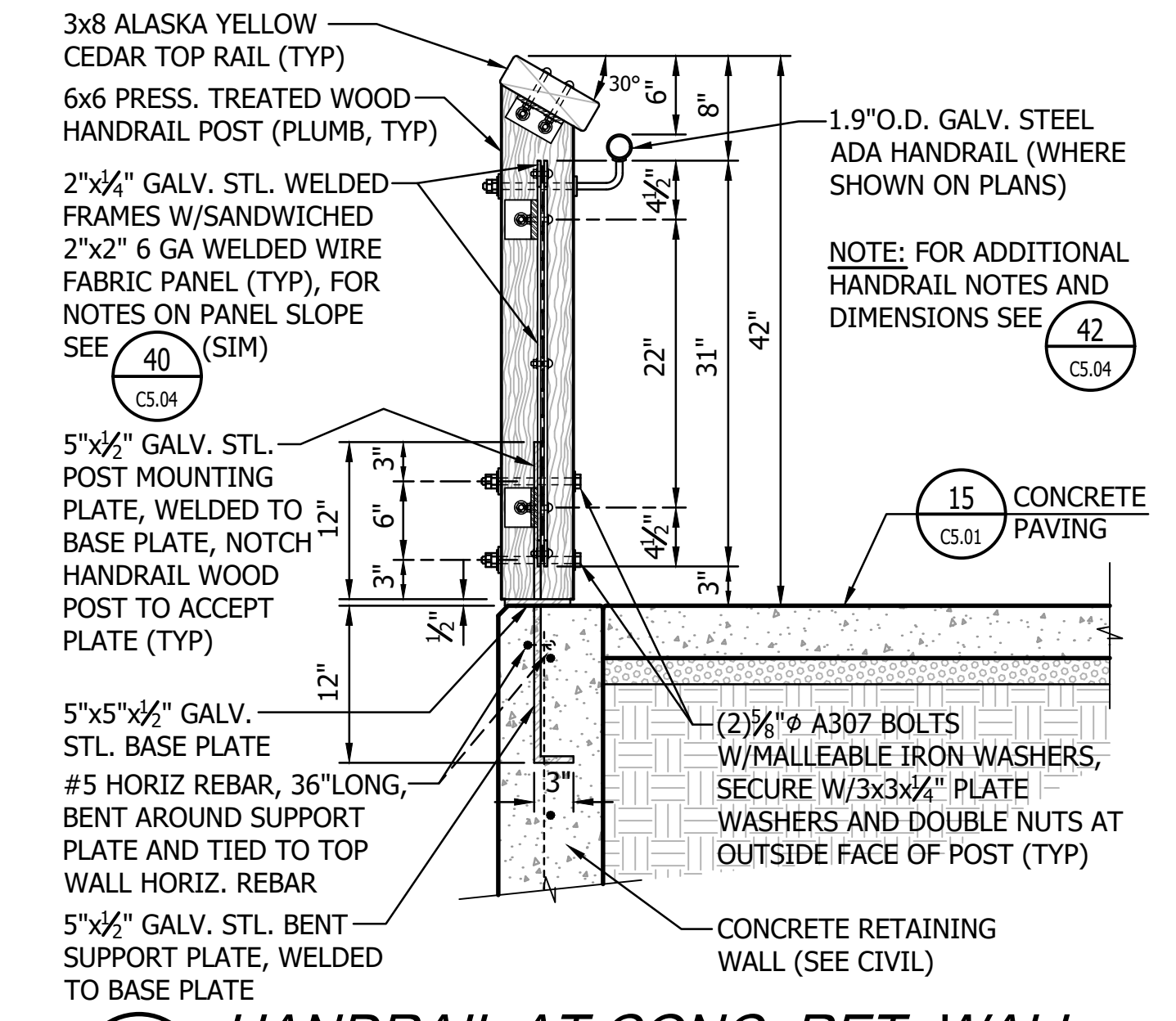
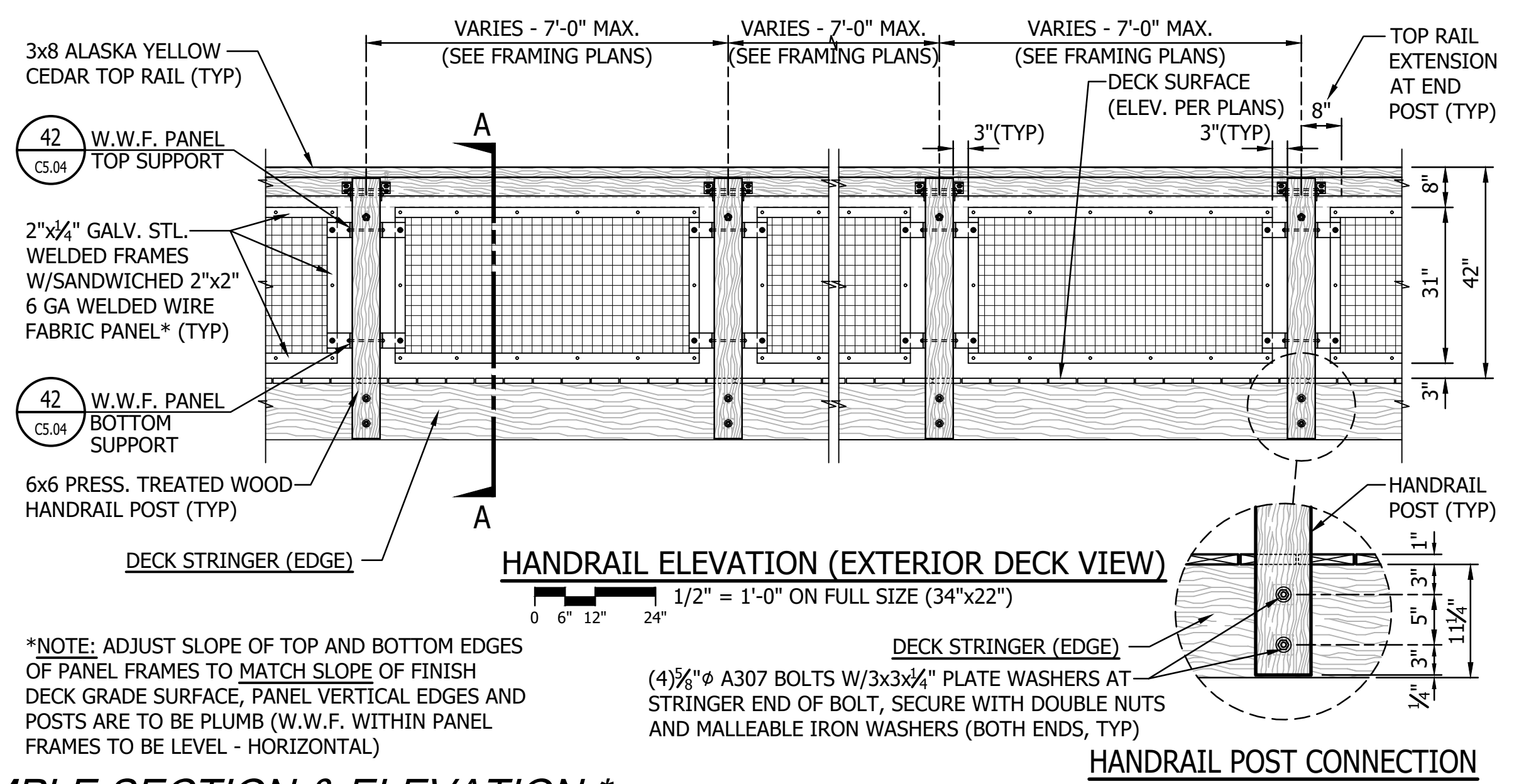
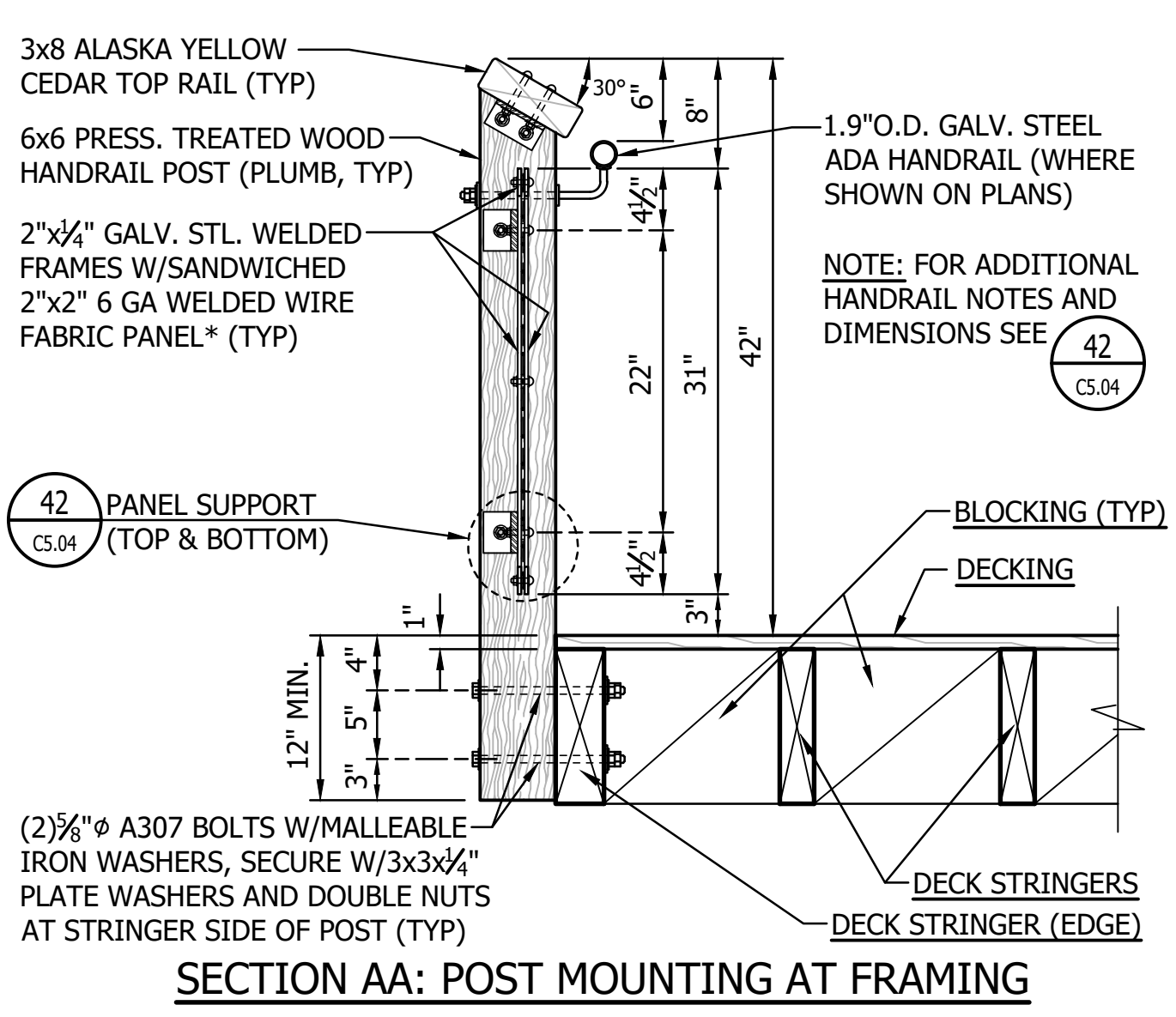
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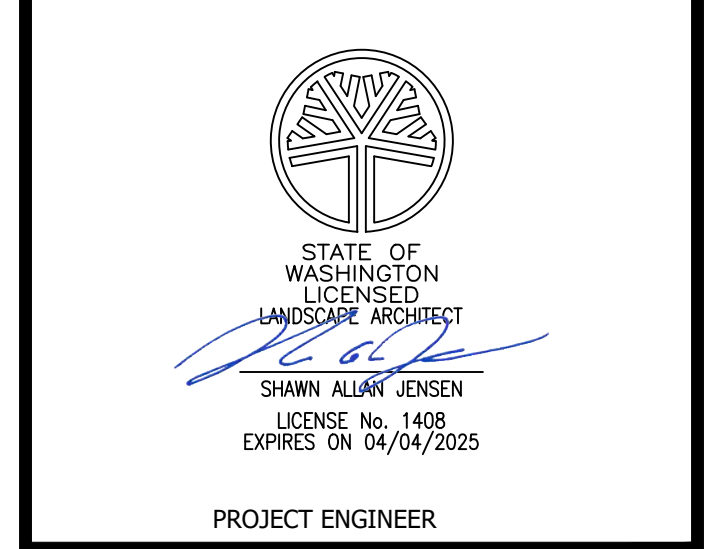
BRUCE DEES & ASSOCIATES logo and contact information.

- NOTES:**
- DOUBLE GATE CONFIGURATION SHOWN, (SINGLE ARM GATES SIMILAR)
 - PROVIDE OPEN GATE ARM HOLDERS (SEE DETAIL) AT EACH GATE ARM (TYP).
 - HOT DIP GALVANIZE GATE ARM HOLDERS, GATE LEAVES, AND BASE PLATE / STANCHION AFTER ALL WELDING HAS BEEN COMPLETED (TYP).
 - PROVIDE COMPLETE GATE AND GATE HOLDERS AT EACH GATE LOCATION.
 - FULLY GREASE TOP AND BOTTOM OF STANCHIONS BEFORE PLACING GATE LEAVES (TYP).



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STATE OF WASHINGTON LICENSED LANDSCAPE ARCHITECT		
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KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

SITE SECTIONS & DETAILS

C5.04

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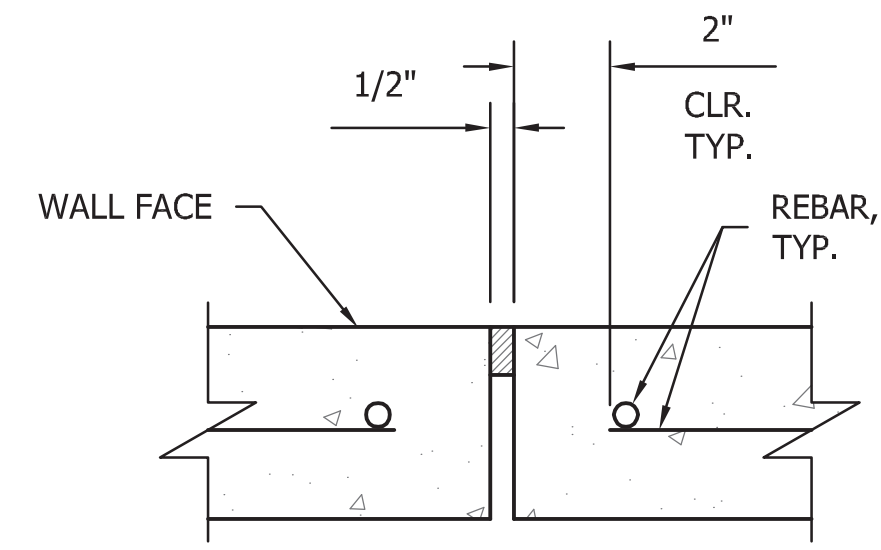
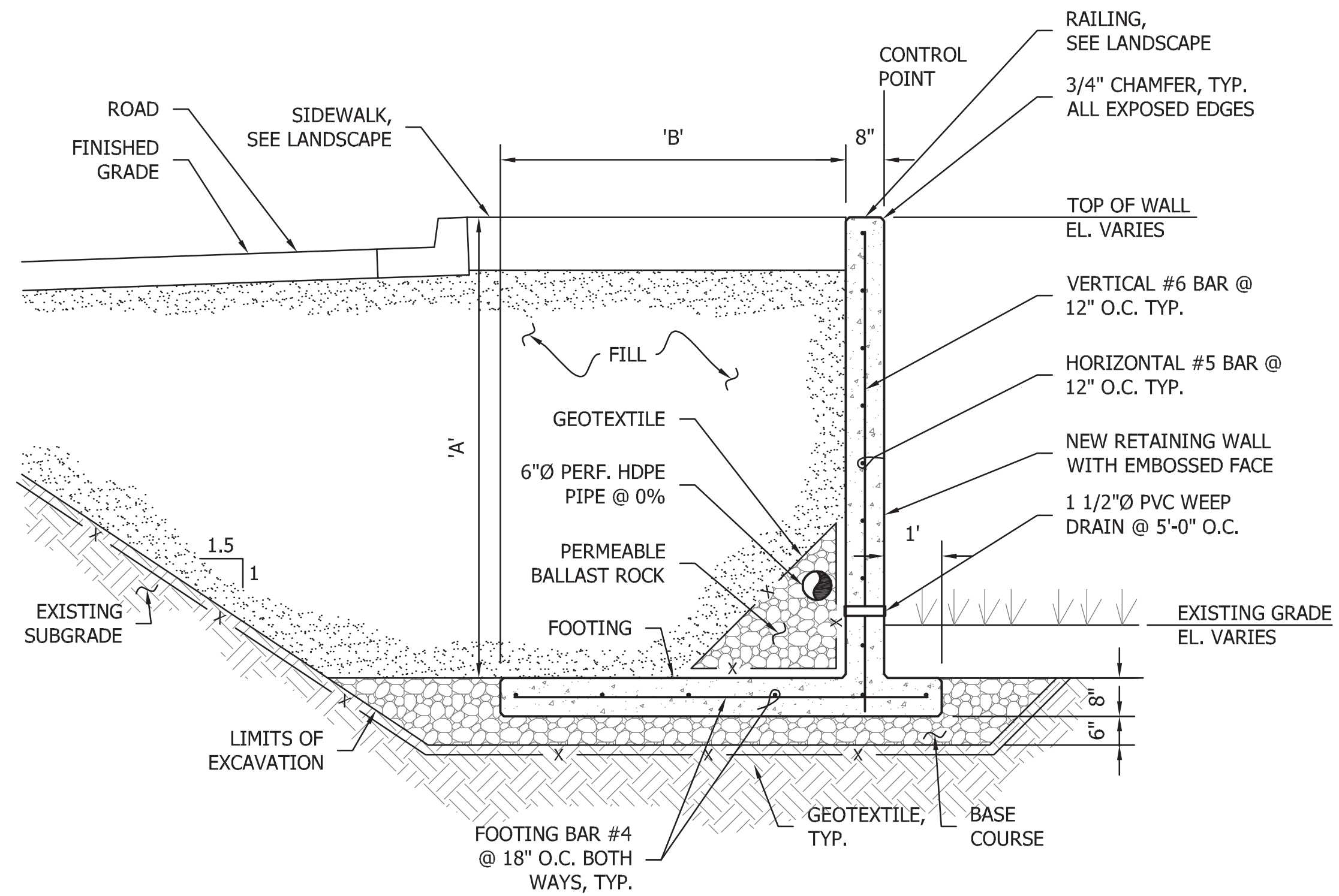
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BID SET



WALL EXPANSION JOINT (AT 10'-0" O.C.)

CONCRETE RETAINING WALL DIMENSIONS		
WALL TYPE	'A'	'B'
TYPE 1	8'-0"	6'-0"
TYPE 2	5'-0"	4'-0"

NOTE:
SEE LANDSCAPE FOR
CONTROL POINTS
AND LAYOUT.

CONCRETE RETAINING WALL SECTION

DATE	APP.	INT.	NO.

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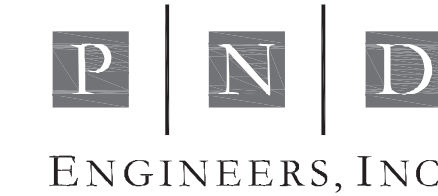


KOPACHUCK
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DAY USE
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SITE SECTIONS
AND DETAILS

C5.05



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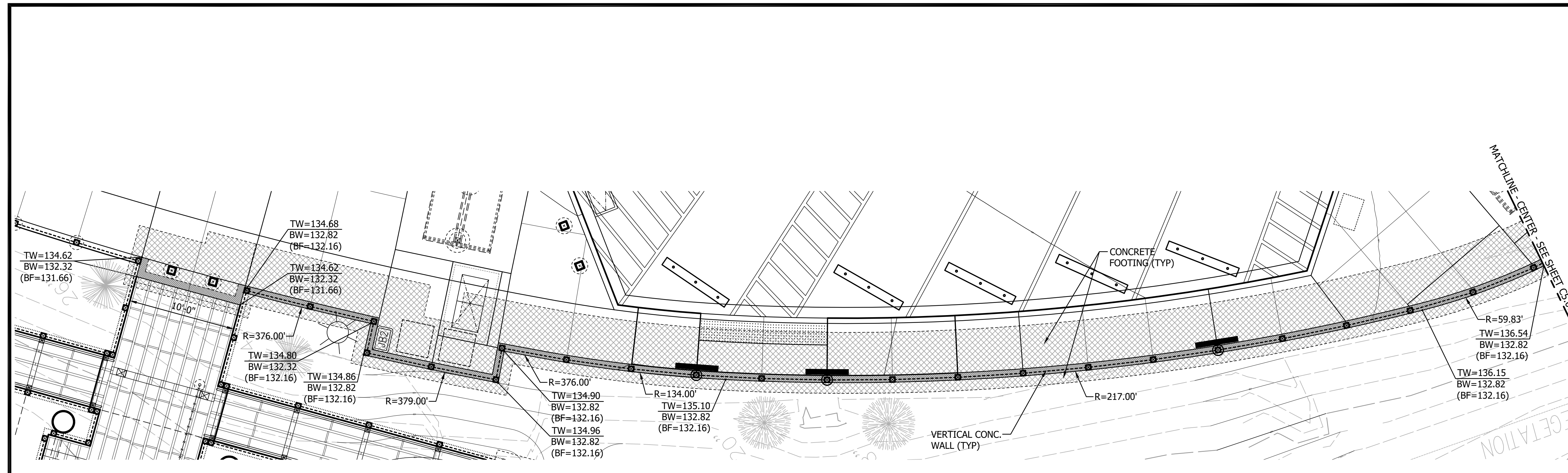
DAY USE DEVELOPMENT

SITE SECTIONS & DETAILS

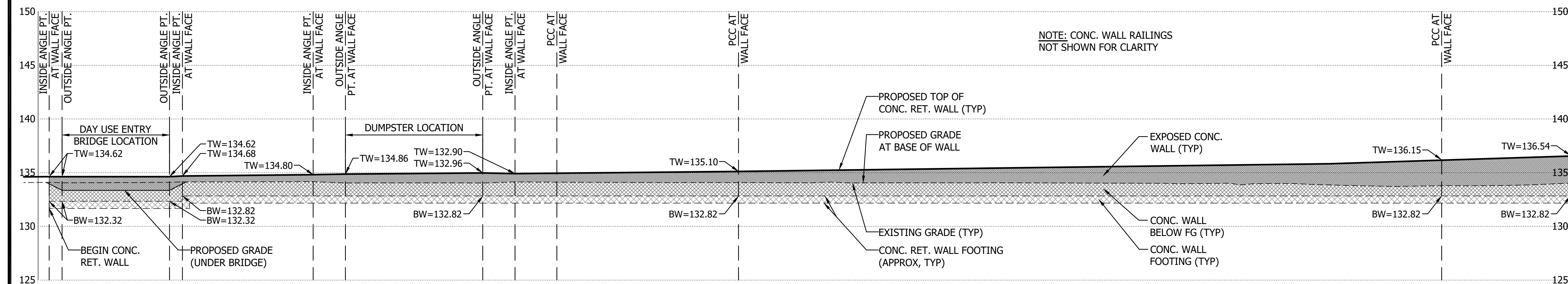
C5.06A

SCALE AS NOTED

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CONCRETE RETAINING WALL PLAN VIEW - NORTH END
 3/16" = 1'-0" ON FULL SIZE (34"x22")



CONCRETE RETAINING WALL WEST ELEVATION / PROFILE - NORTH END
 3/16" = 1'-0" ON FULL SIZE (34"x22")

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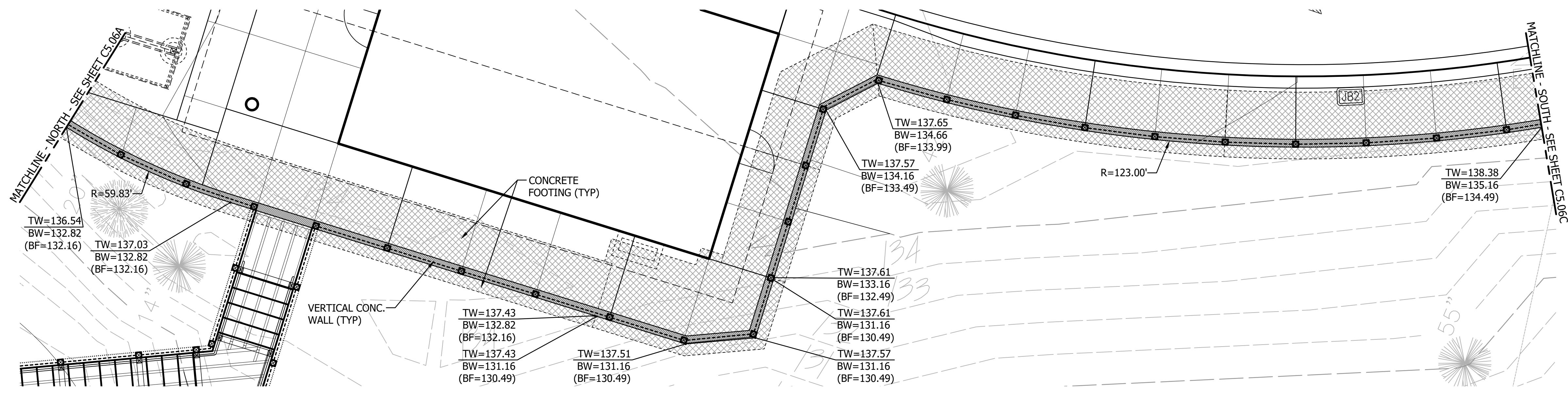
DAY USE DEVELOPMENT

SITE SECTIONS & DETAILS

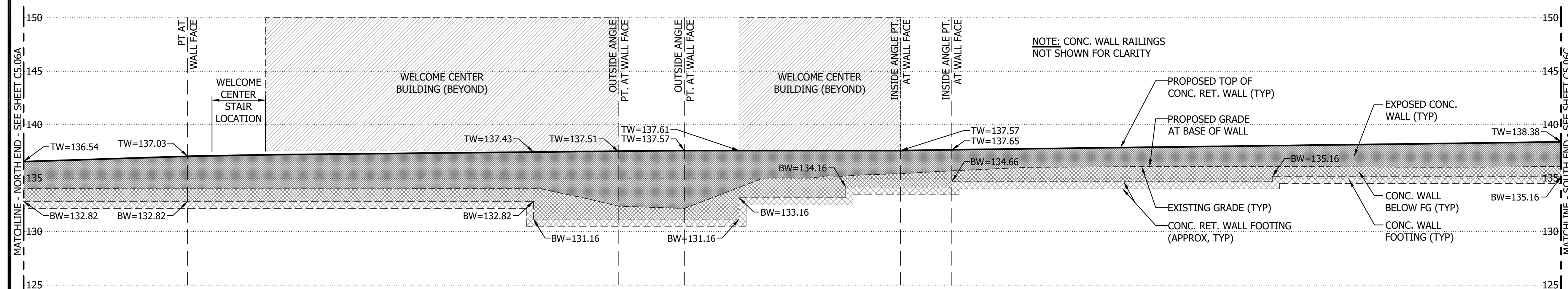
C5.06B

SCALE AS NOTED

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61 CONCRETE RETAINING WALL PLAN VIEW - CENTER
 Scale: 3/16" = 1'-0" ON FULL SIZE (34"x22")



62 CONCRETE RETAINING WALL WEST ELEVATION / PROFILE - CENTER
 Scale: 3/16" = 1'-0" ON FULL SIZE (34"x22")

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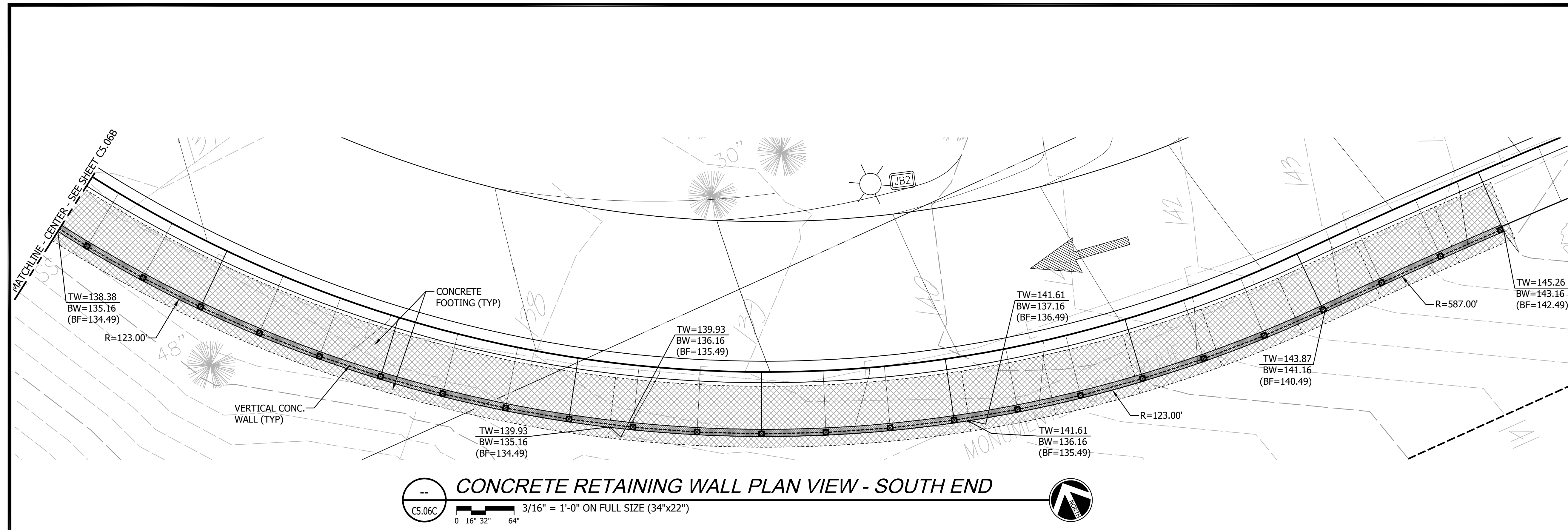
DAY USE DEVELOPMENT

SITE SECTIONS & DETAILS

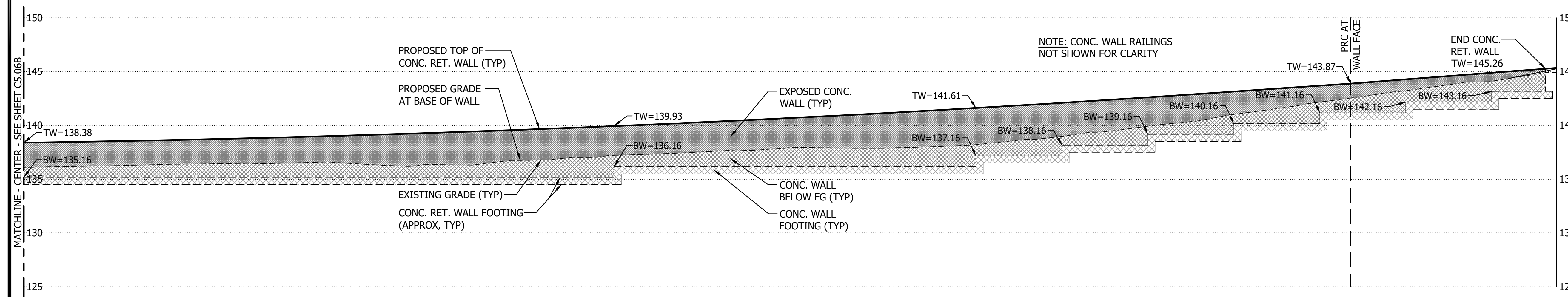
C5.06C

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CONCRETE RETAINING WALL PLAN VIEW - SOUTH END
 C5.06C 3/16" = 1'-0" ON FULL SIZE (34"x22")





CONCRETE RETAINING WALL WEST ELEVATION / PROFILE - SOUTH END
 63 C5.06C 3/16" = 1'-0" ON FULL SIZE (34"x22")

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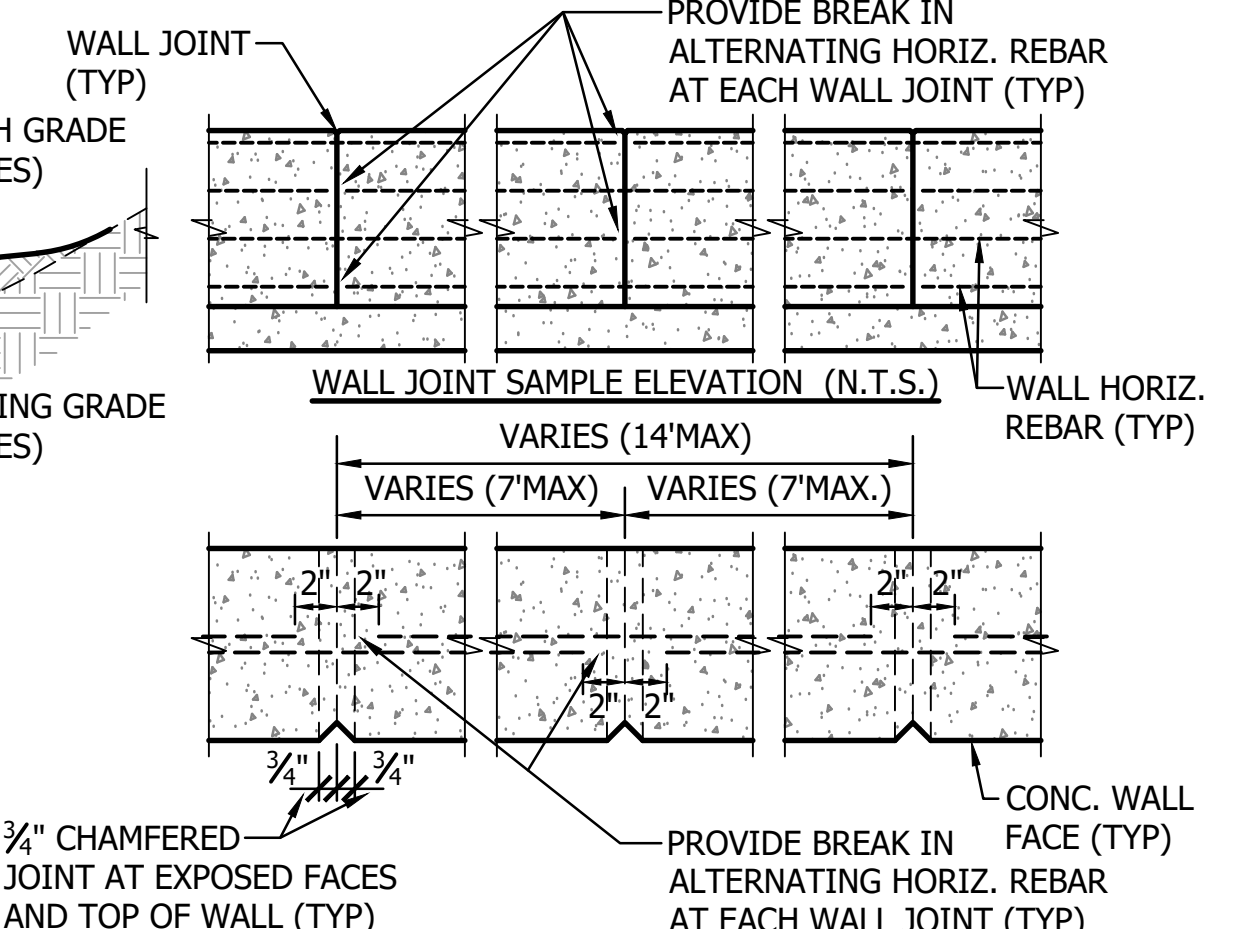
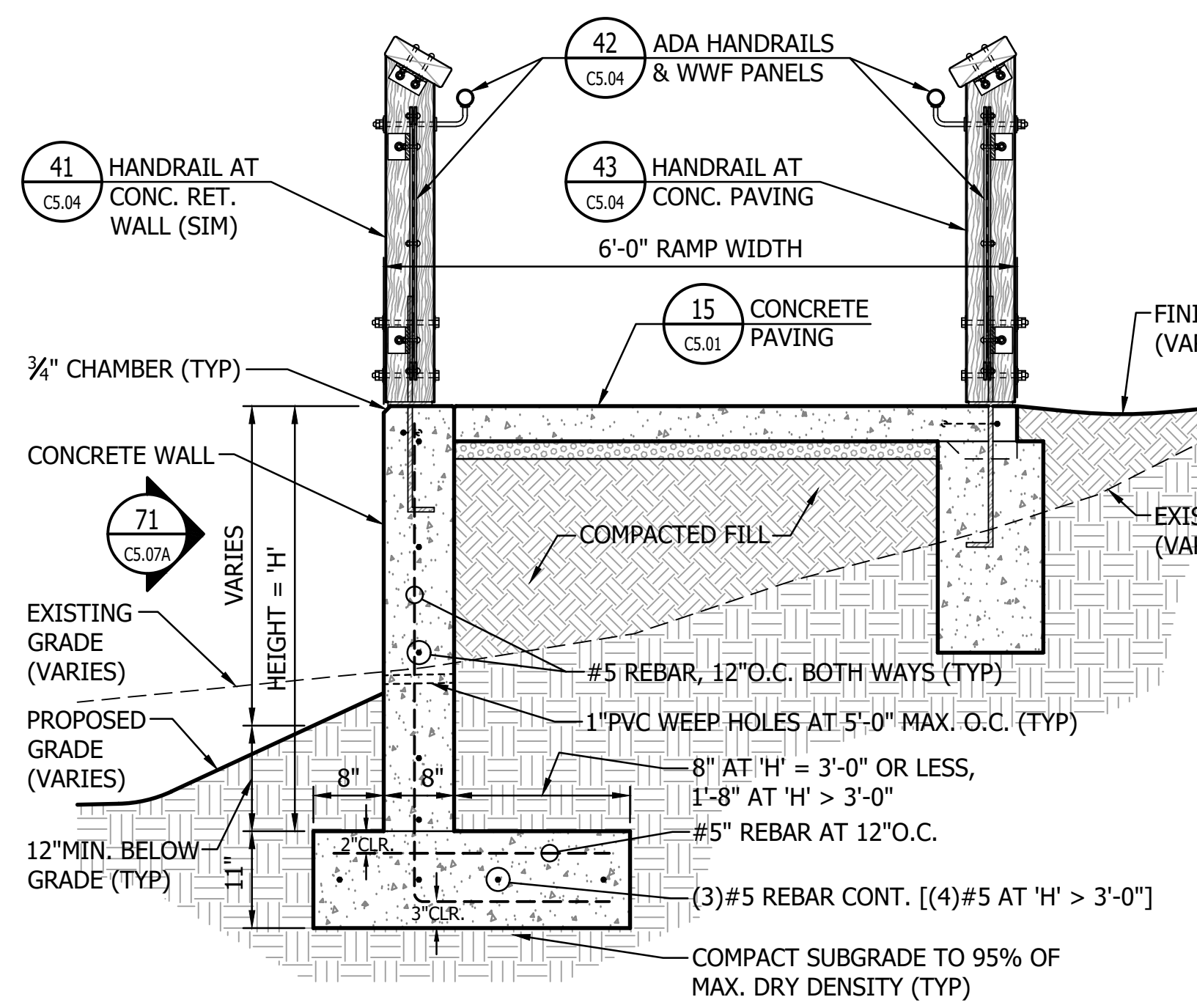
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KOPACHUCK STATE PARK
DAY USE DEVELOPMENT
SITE SECTIONS & DETAILS

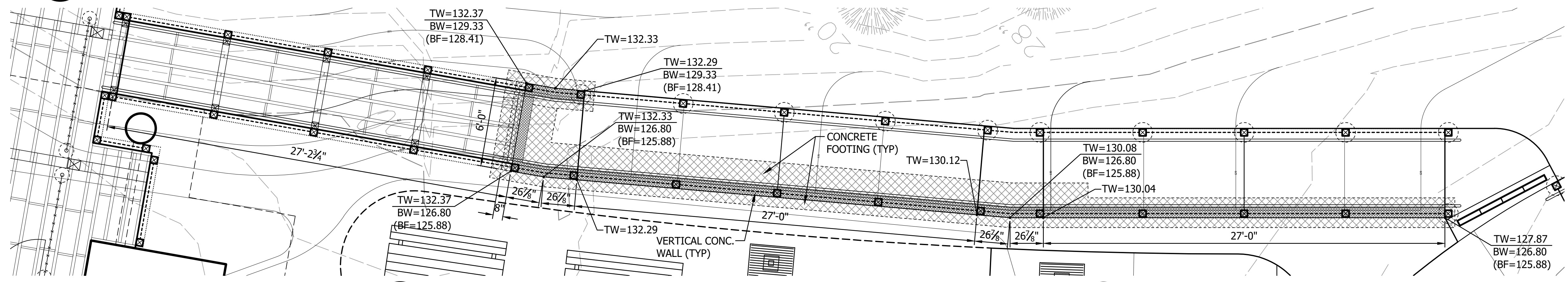
C5.07A
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 PARKS FILE#

- CONC. WALL NOTES:**
1. CLASS '1' SACK FINISH ALL EXPOSED VERTICAL WALL SURFACES (TYP).
 2. LIGHT BROOM FINISH ALL EXPOSED HORIZONTAL WALL SURFACES (TYP).
 3. INSTALL WALL JOINTS ON EXPOSED FACES AND TOP OF WALLS (SEE JOINT DETAIL), JOINTS IN WALL SHALL ALIGN WITH JOINTS IN PAVING, (TYP).
 4. TO LOCATE WALLS, COORDINATES / DIMENSIONS ARE TAKEN AT 'FACE OF WALL' AS INDICATED.

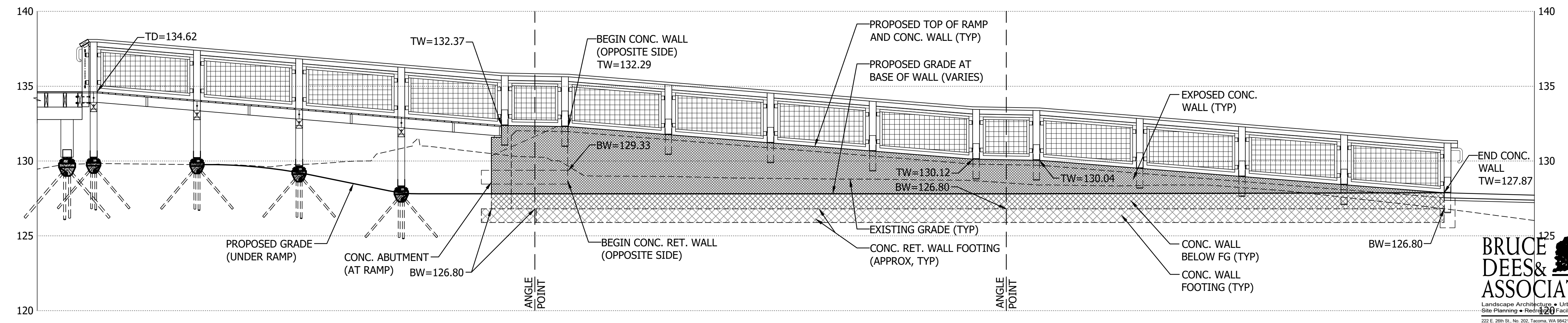


WALL JOINTS AT EXPOSED FACE(S) AND TOPS OF WALL (TYP)
 1-1/2" = 1'-0" ON FULL SIZE (34"x22")

70 CONC. WALL AT PLAY AREA RAMP
 3/4" = 1'-0" ON FULL SIZE (34"x22") (UNLESS NOTED)



PLAY AREA RAMP TO DAY USE ENTRY BRIDGE - PLAN VIEW
 1/4" = 1'-0" ON FULL SIZE (34"x22")



71 PLAY AREA RAMP TO DAY USE ENTRY BRIDGE - NE (WALL) ELEVATION
 1/4" = 1'-0" ON FULL SIZE (34"x22")

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 SHAWN ALLART JENSEN

 LICENSE No. 1408

 EXPIRES ON 04/04/2025

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KOPACHUCK STATE PARK

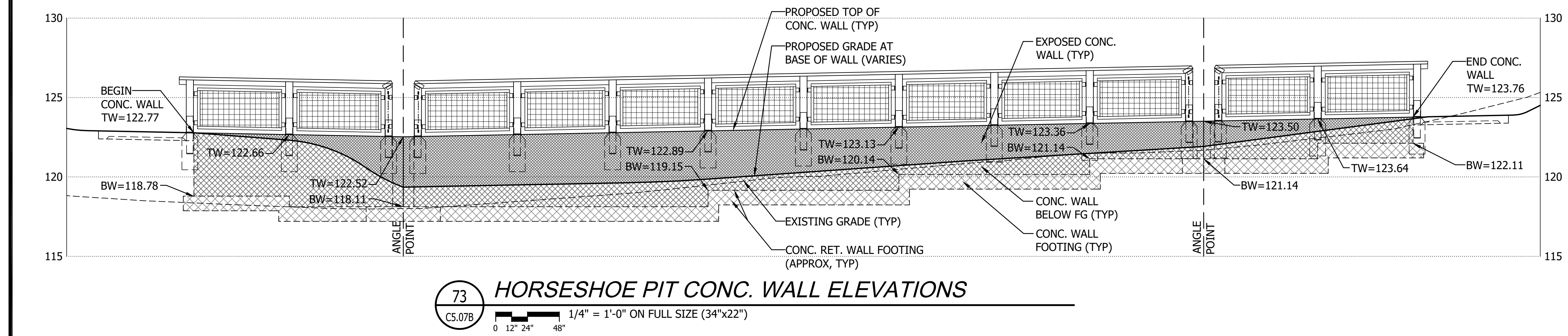
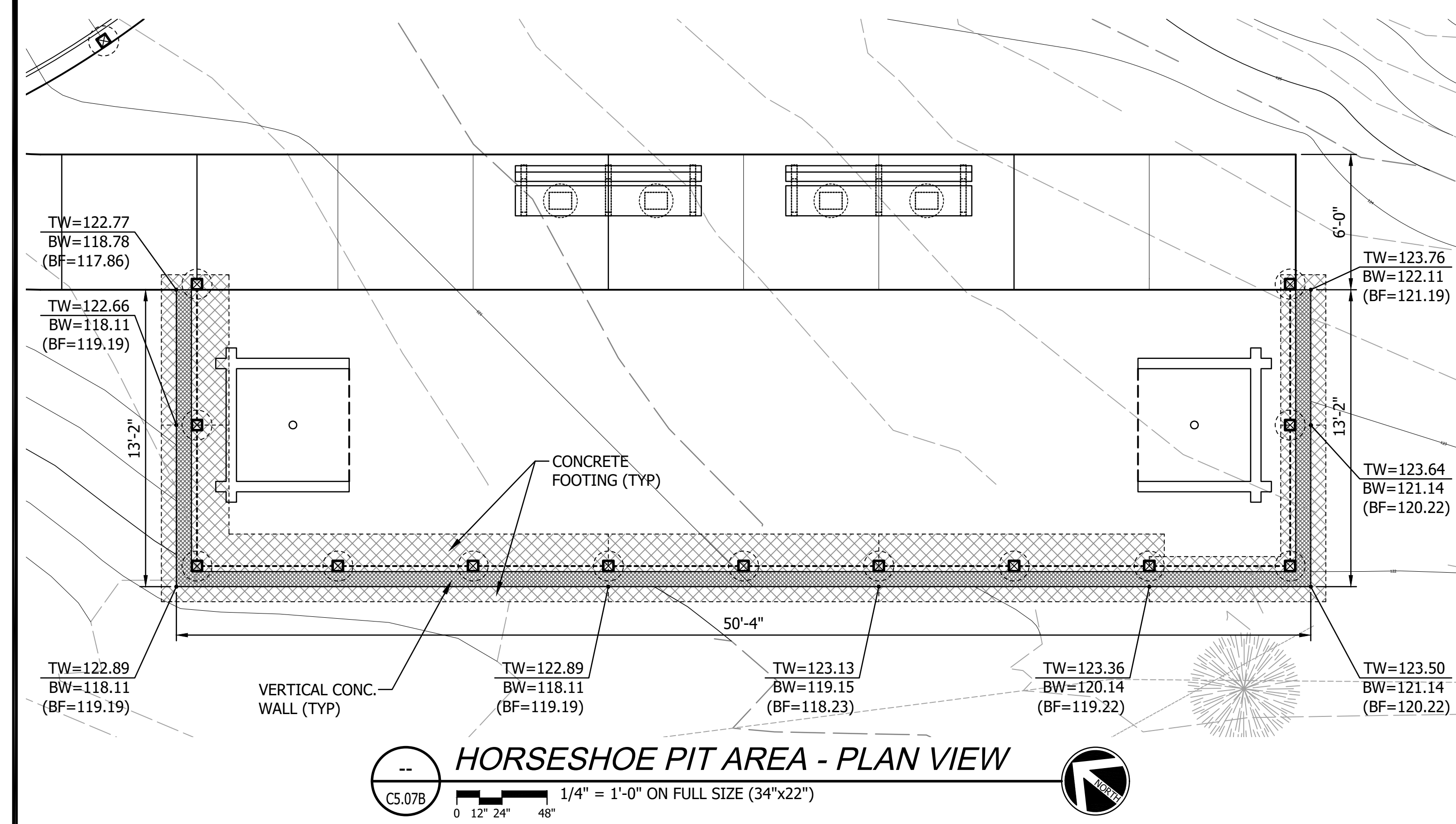
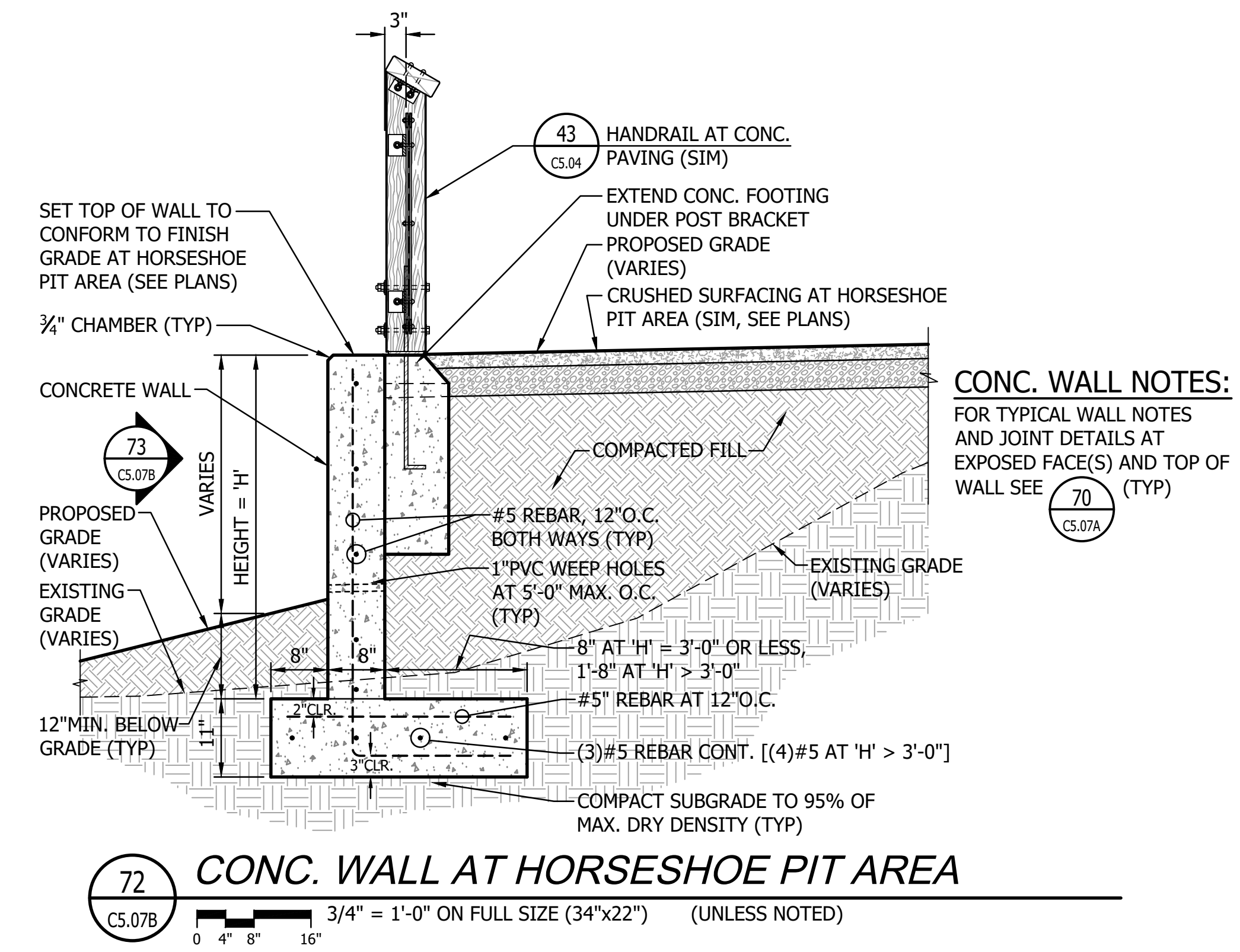
 DAY USE DEVELOPMENT

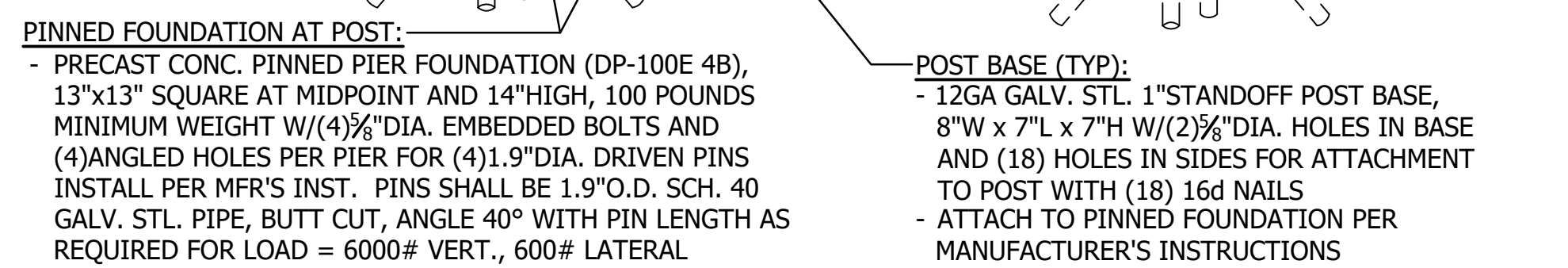
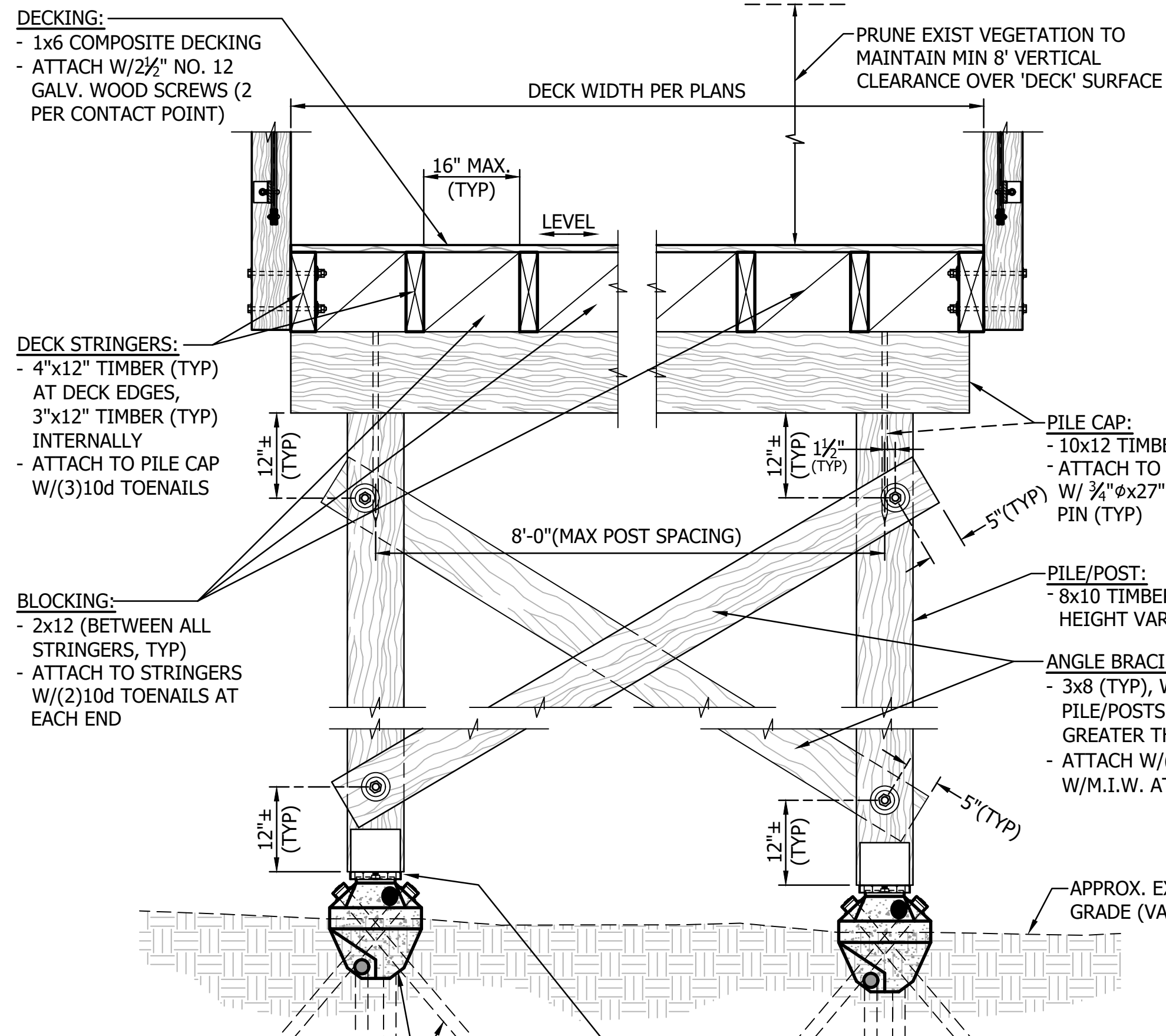
 SITE SECTIONS & DETAILS

C5.07B

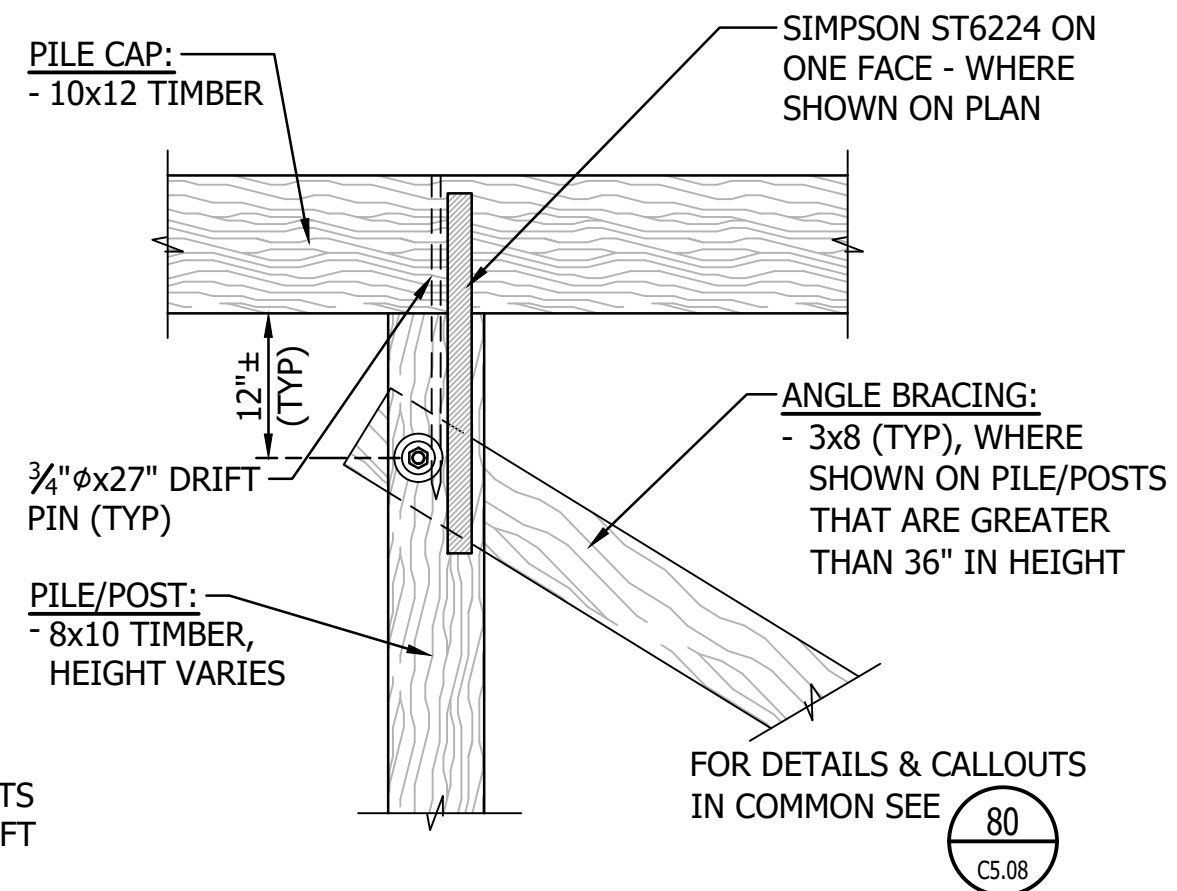
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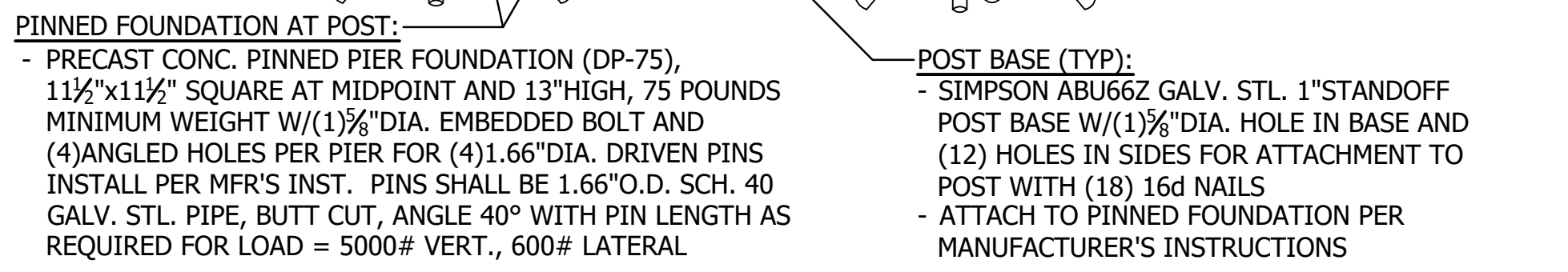
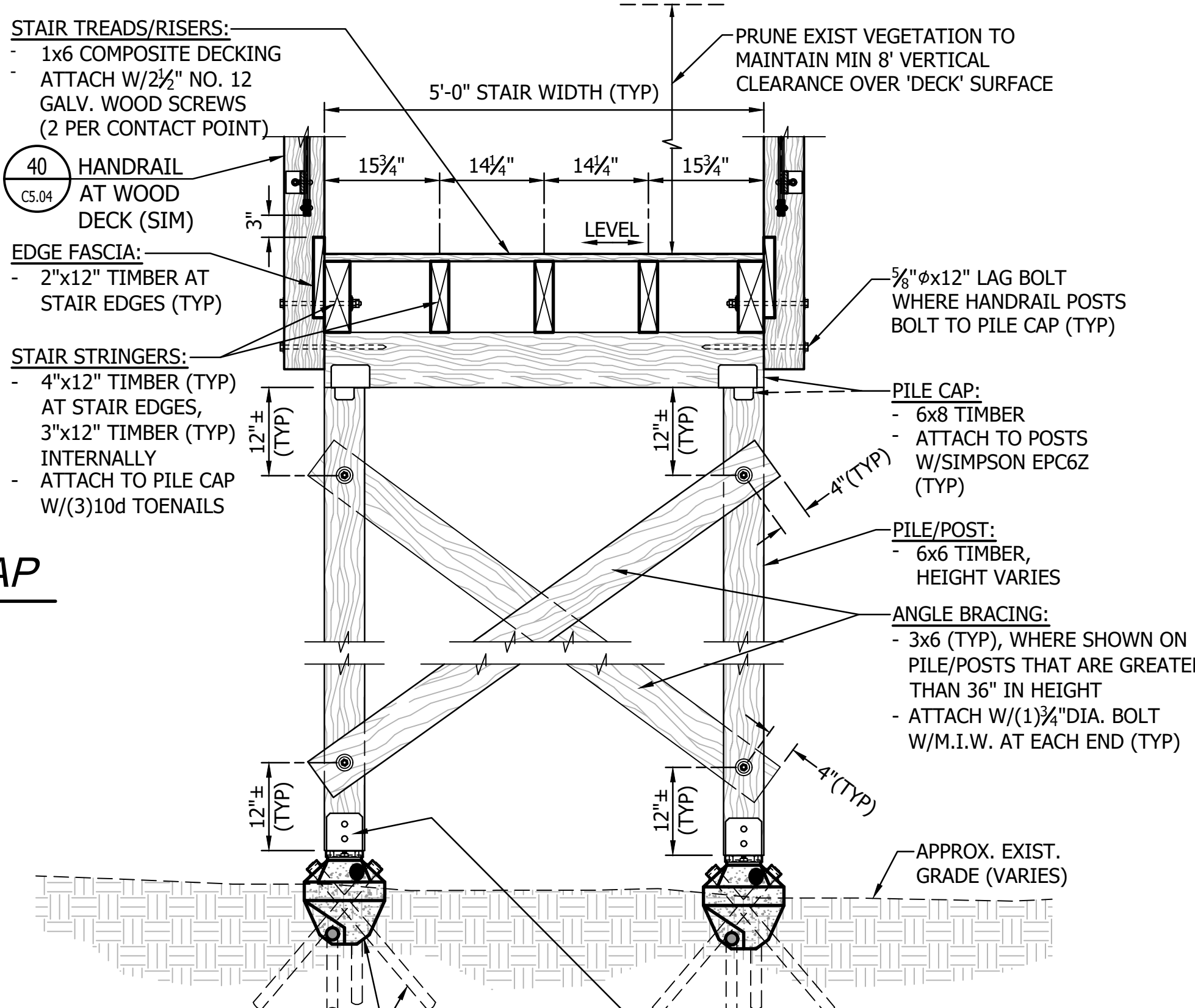




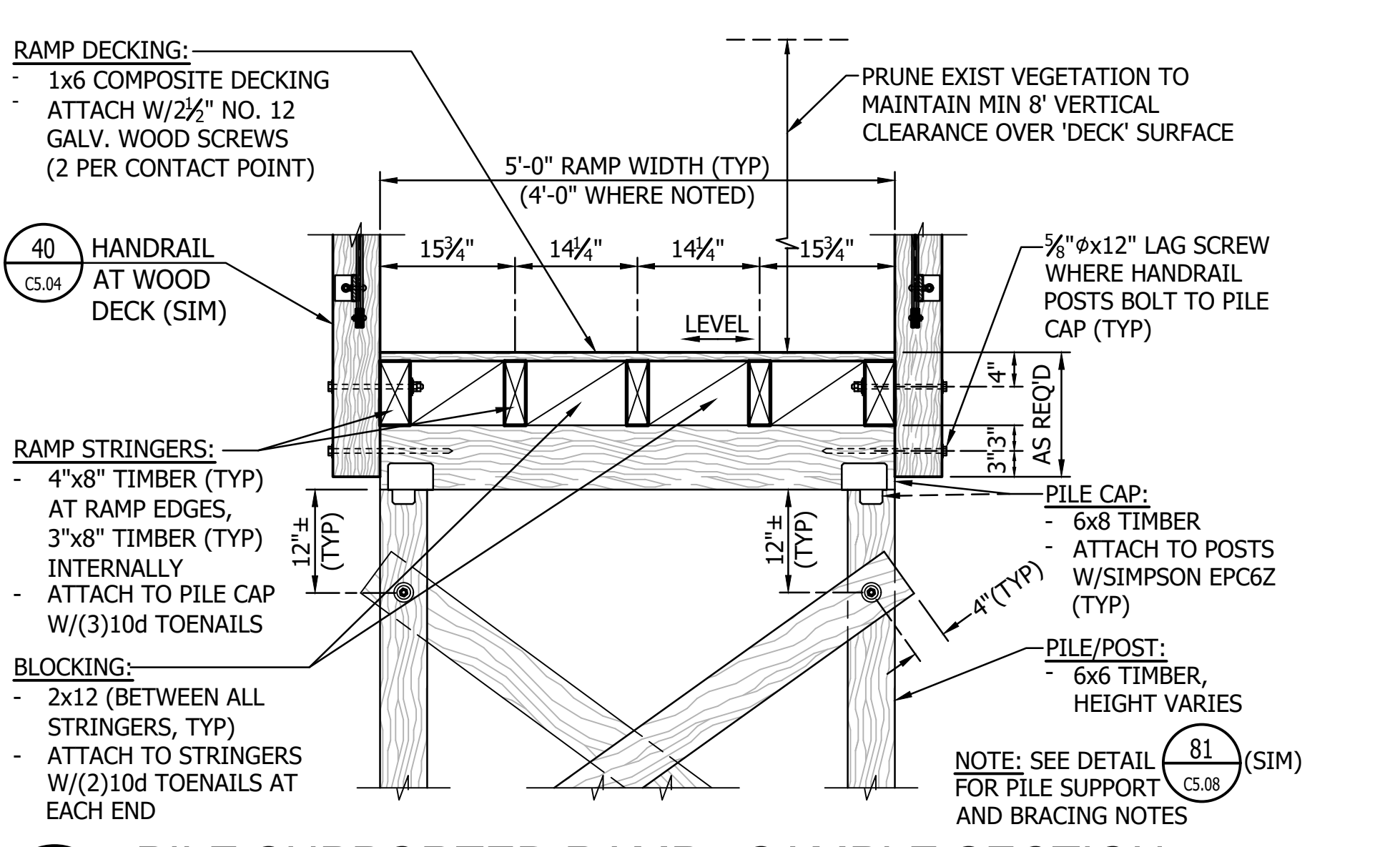
80 PILE SUPPORTED BRIDGE/DECK - SAMPLE SECTION
 C5.08 3/4" = 1'-0" ON FULL SIZE (34"x22")



81 PILE CAP ATTACHMENT STRAP
 C5.08 3/4" = 1'-0" ON FULL SIZE (34"x22")

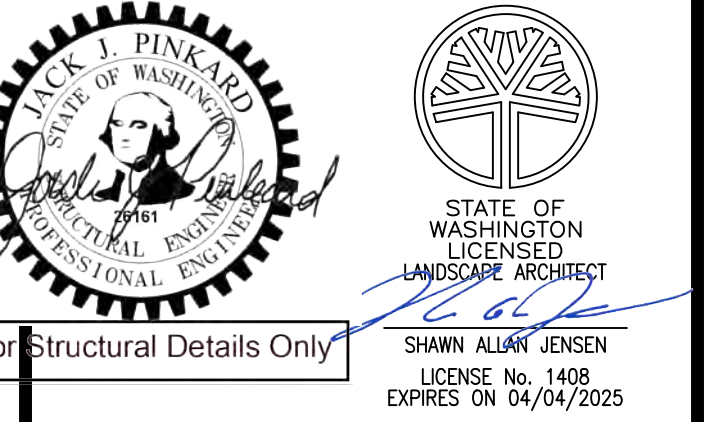


82 PILE SUPPORTED STAIR - SAMPLE SECTION
 C5.08 3/4" = 1'-0" ON FULL SIZE (34"x22")



83 PILE SUPPORTED RAMP - SAMPLE SECTION
 C5.08 3/4" = 1'-0" ON FULL SIZE (34"x22")

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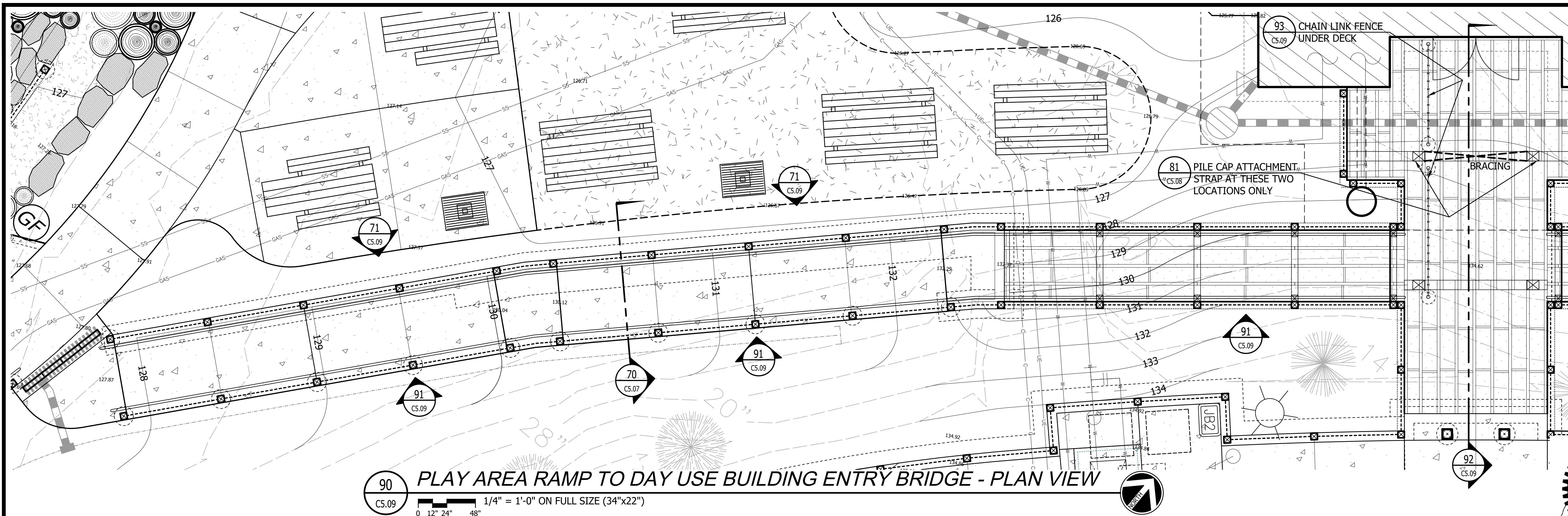
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KOPACHUCK STATE PARK
DAY USE DEVELOPMENT
SITE SECTIONS & DETAILS

C5.08
 SCALE AS NOTED
 SHEET 55 OF 102
 BID SET
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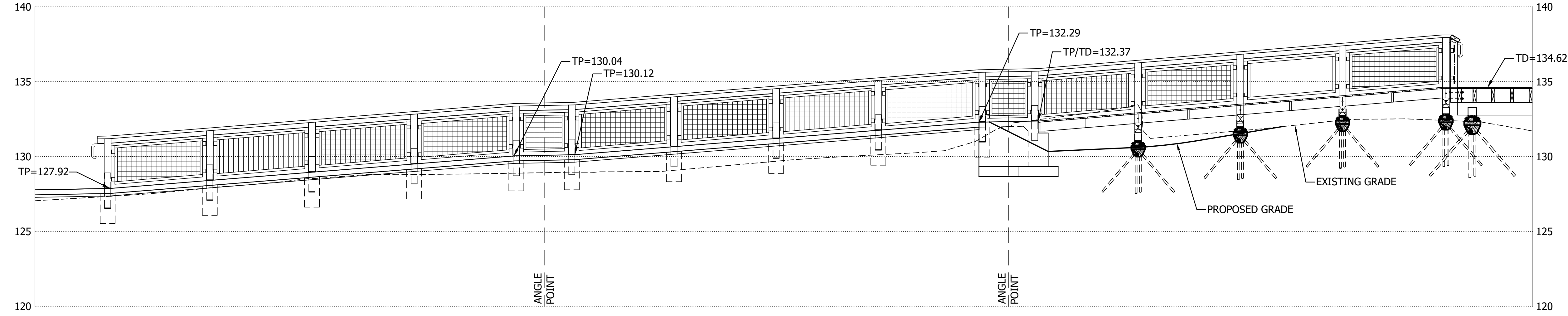


90 PLAY AREA RAMP TO DAY USE BUILDING ENTRY BRIDGE - PLAN VIEW
 C5.09 1/4" = 1'-0" ON FULL SIZE (34"x22")

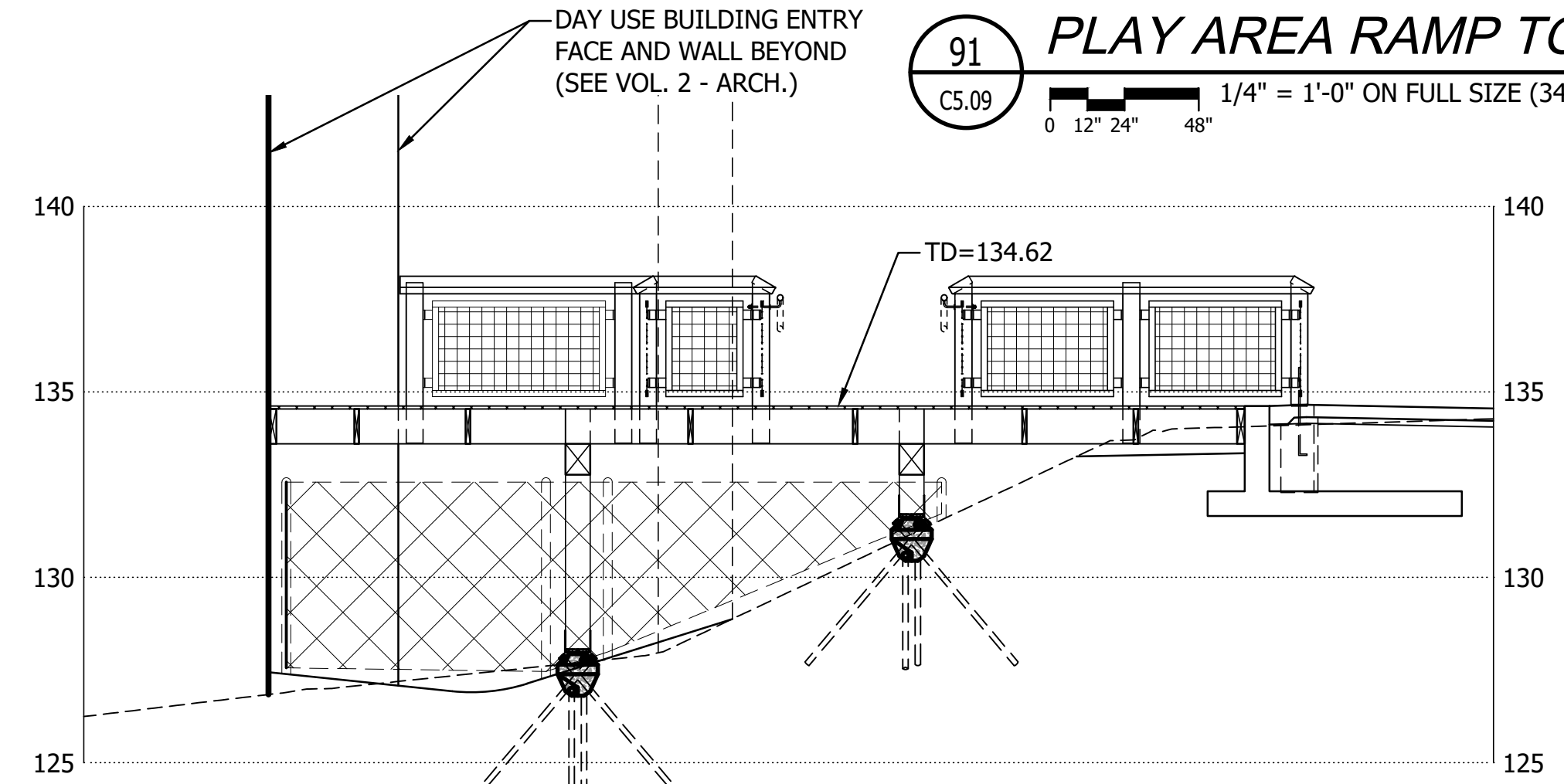
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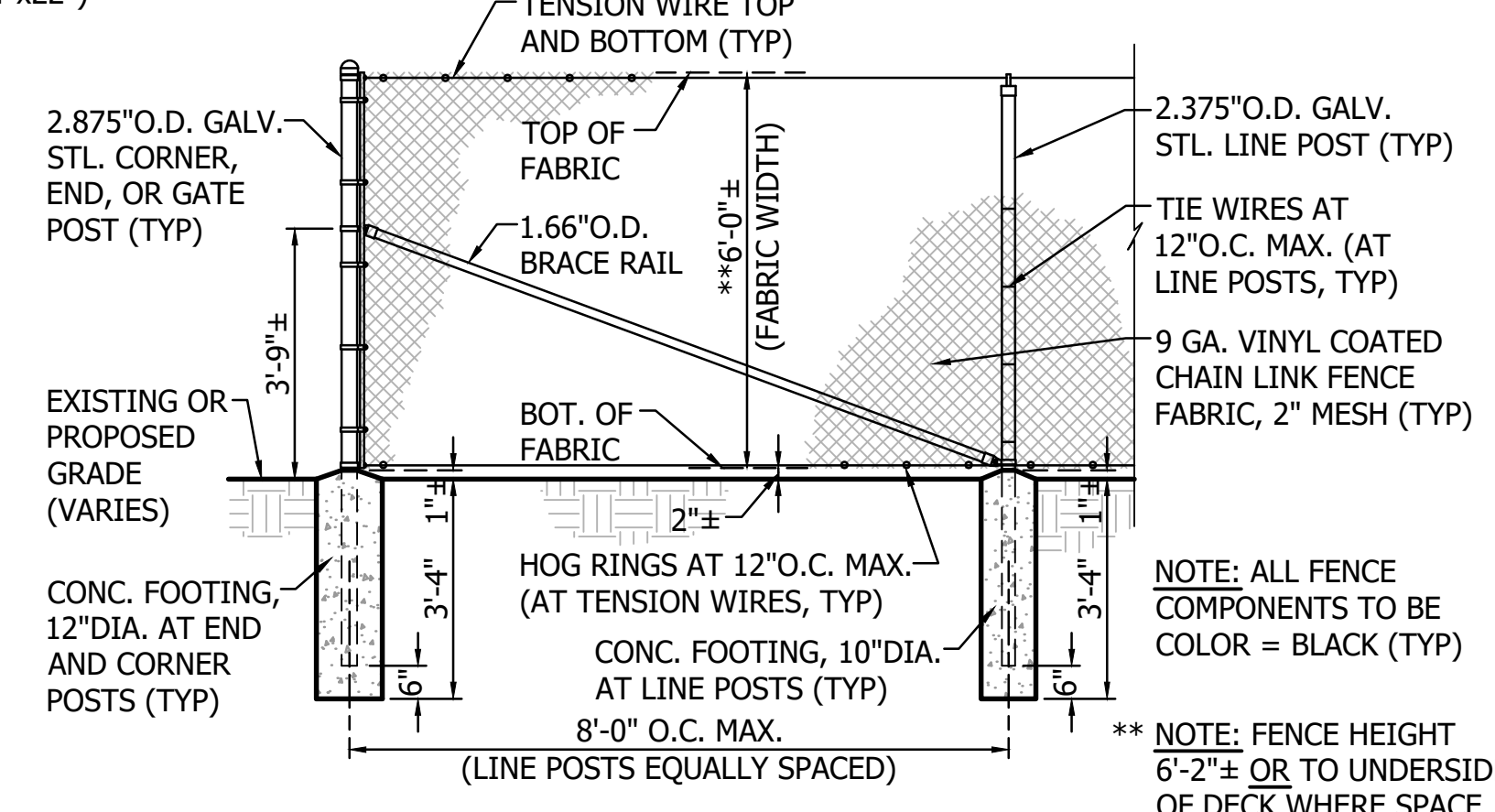
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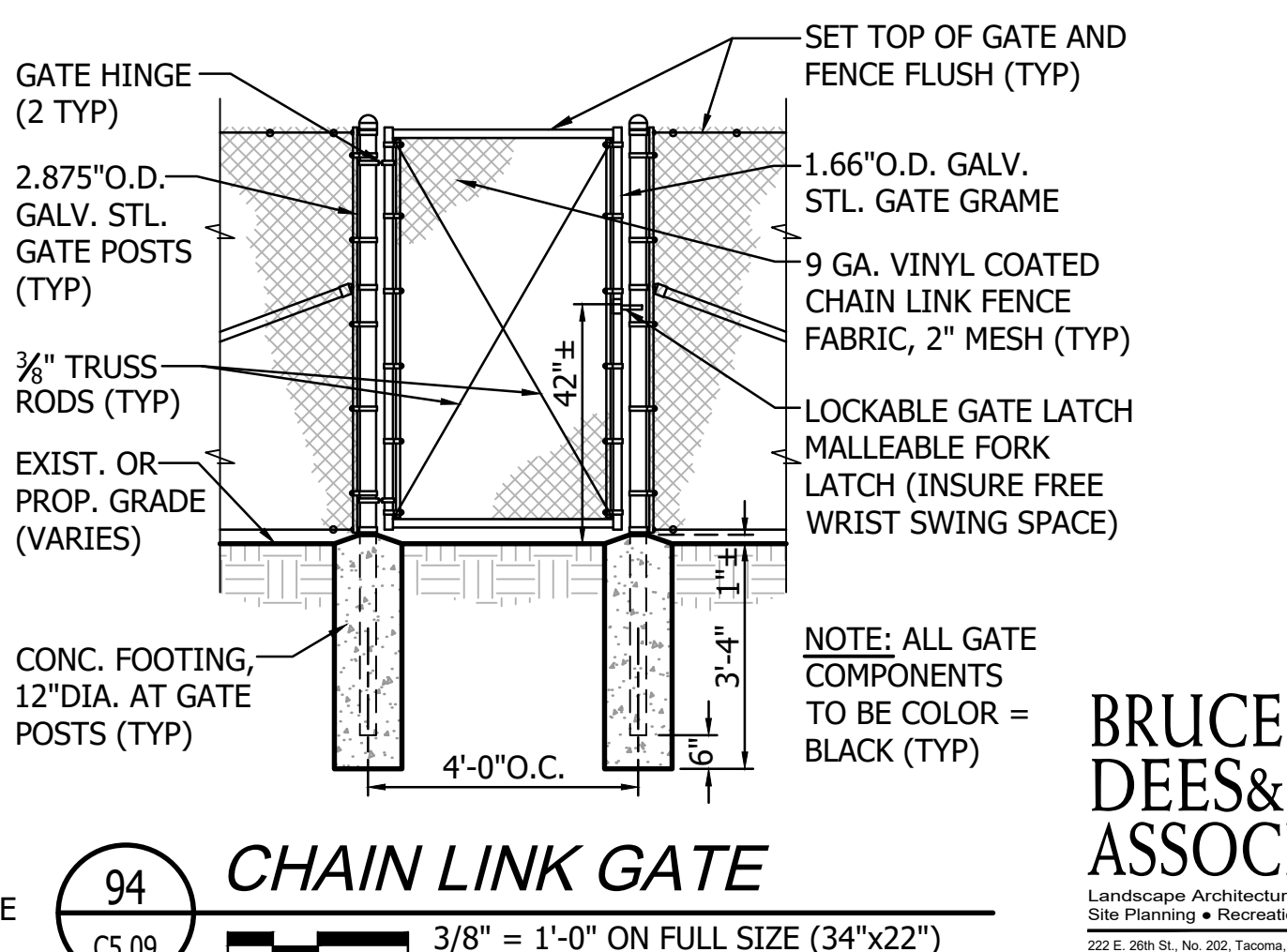
91 PLAY AREA RAMP TO DAY USE ENTRY BRIDGE - SE ELEVATION
 C5.09 1/4" = 1'-0" ON FULL SIZE (34"x22")



92 DAY USE ENTRY BRIDGE - SECTION
 C5.09 1/4" = 1'-0" ON FULL SIZE (34"x22")



93 CHAIN LINK FENCE
 C5.09 3/8" = 1'-0" ON FULL SIZE (34"x22")



94 CHAIN LINK GATE
 C5.09 3/8" = 1'-0" ON FULL SIZE (34"x22")

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**SITE SECTIONS &
 DETAILS**

C5.09
 SCALE
AS NOTED

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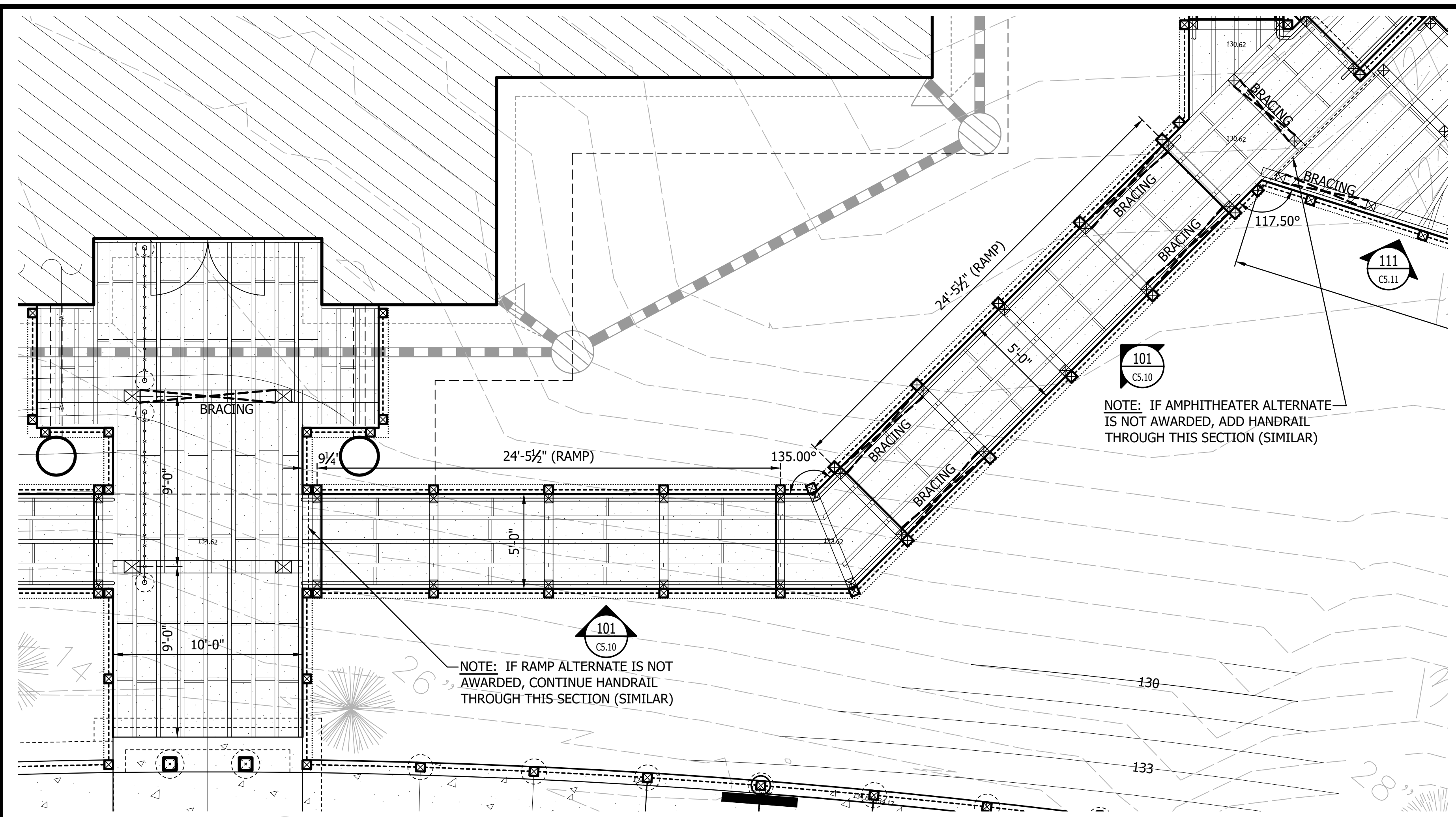
C5.10

SCALE
AS NOTED

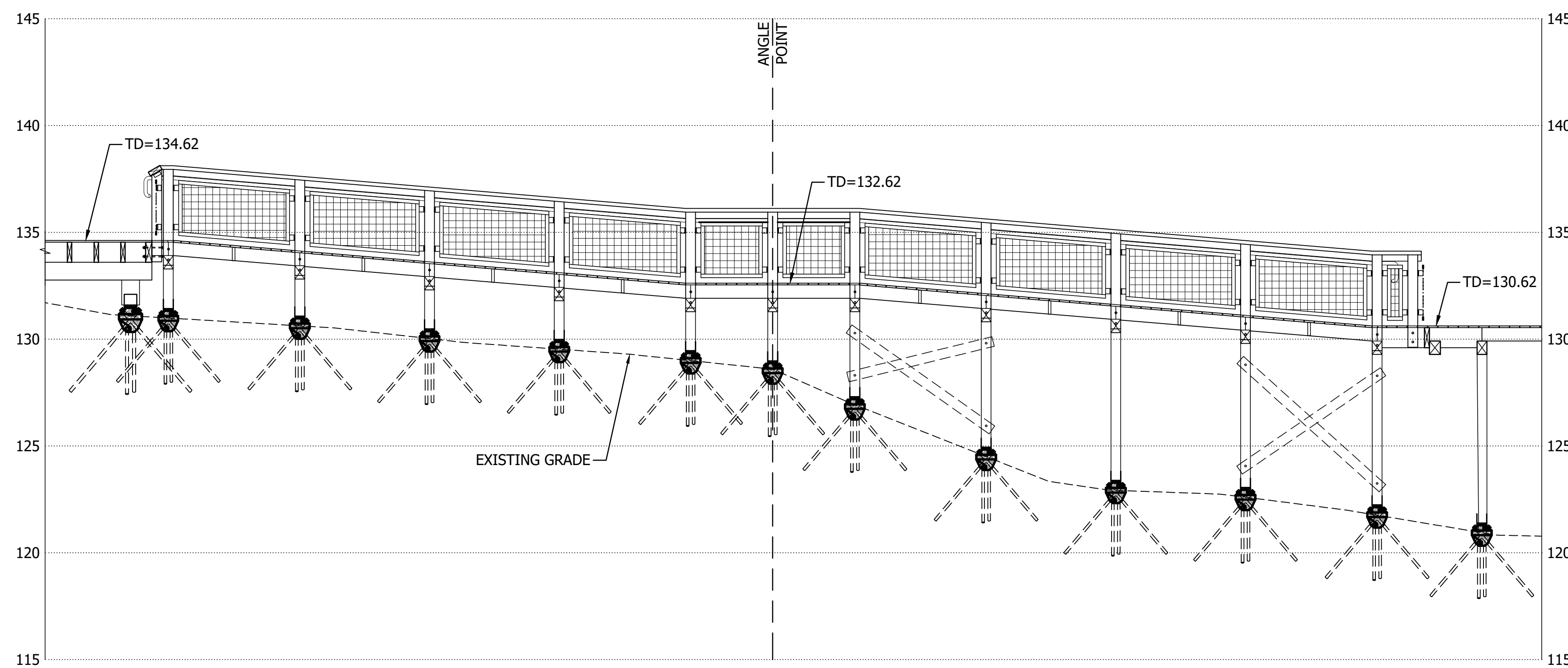
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SHEET 57 OF 102
BID SET



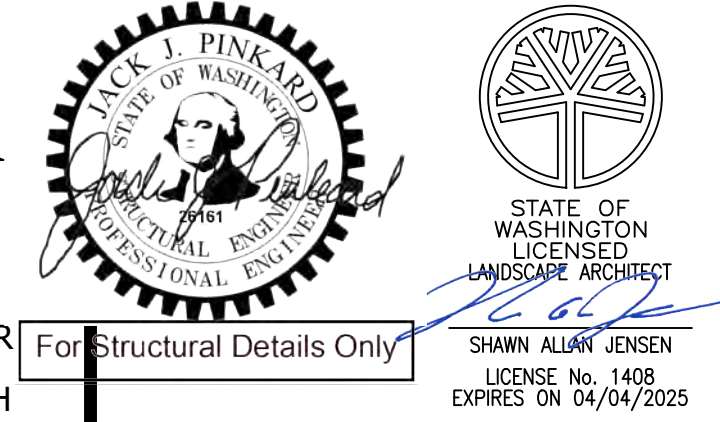
100 RAMP FROM DAY USE ENTRY BRIDGE TO AMPHITHEATER - PLAN VIEW
C5.10 1/4" = 1'-0" ON FULL SIZE (34"x22") ALTERNATE



101 RAMP FROM DAY USE ENTRY BRIDGE TO AMPHITHEATER - SE ELEVATION
C5.10 1/4" = 1'-0" ON FULL SIZE (34"x22") ALTERNATE

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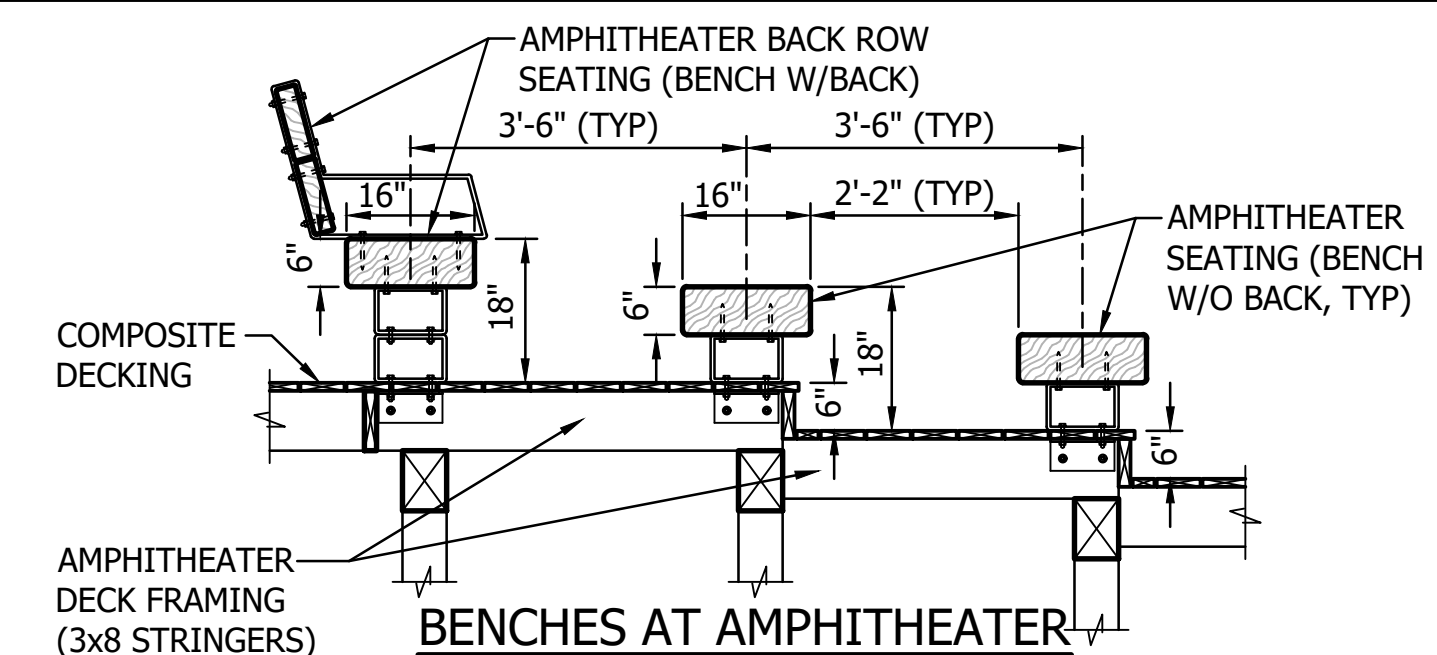
DAY USE DEVELOPMENT

SITE SECTIONS & DETAILS

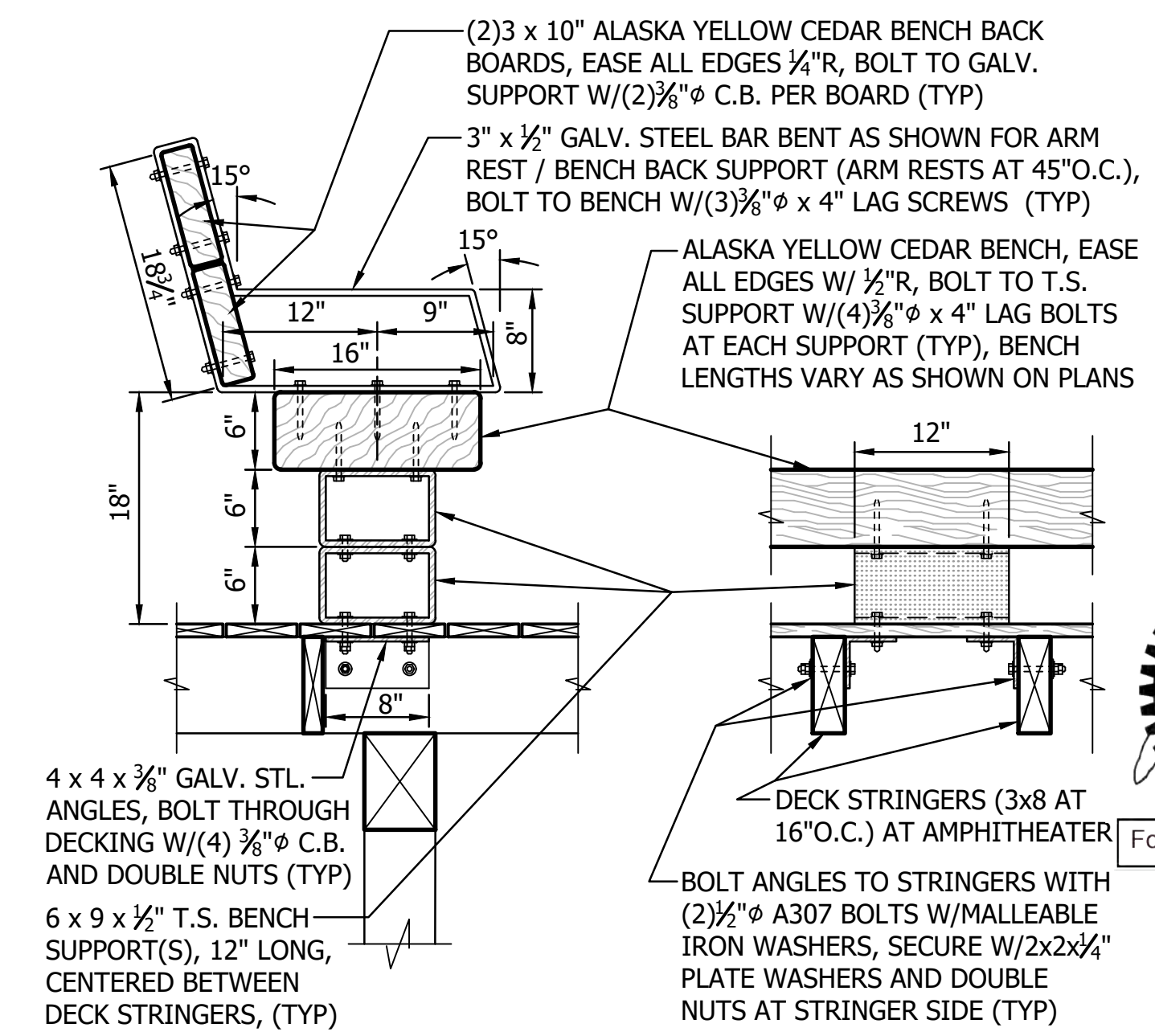
C5.11

SCALE
AS NOTED

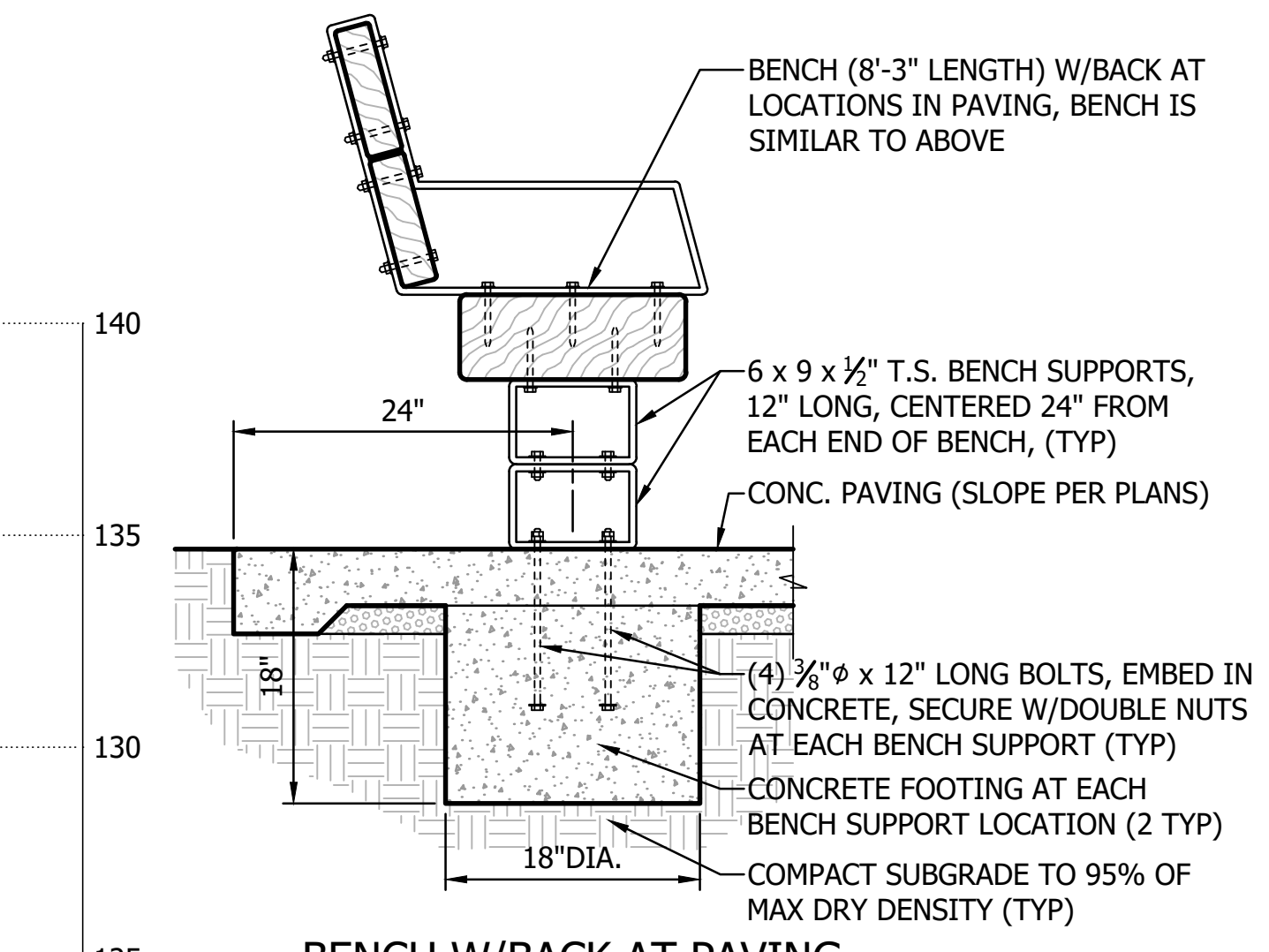
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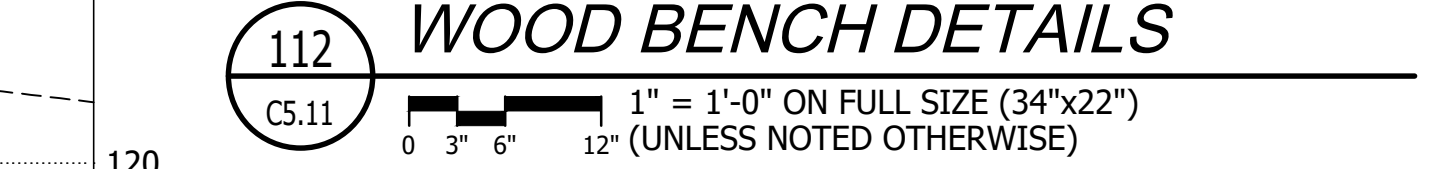
BENCHES AT AMPHITHEATER
 1/2" = 1'-0" ON FULL SIZE (34"x22")



BENCH W/BACK SECTION (BENCH W/O BACK SIMILAR)
BENCH LONG. SECTION (BENCH W/BACK SIMILAR)



BENCH W/BACK AT PAVING

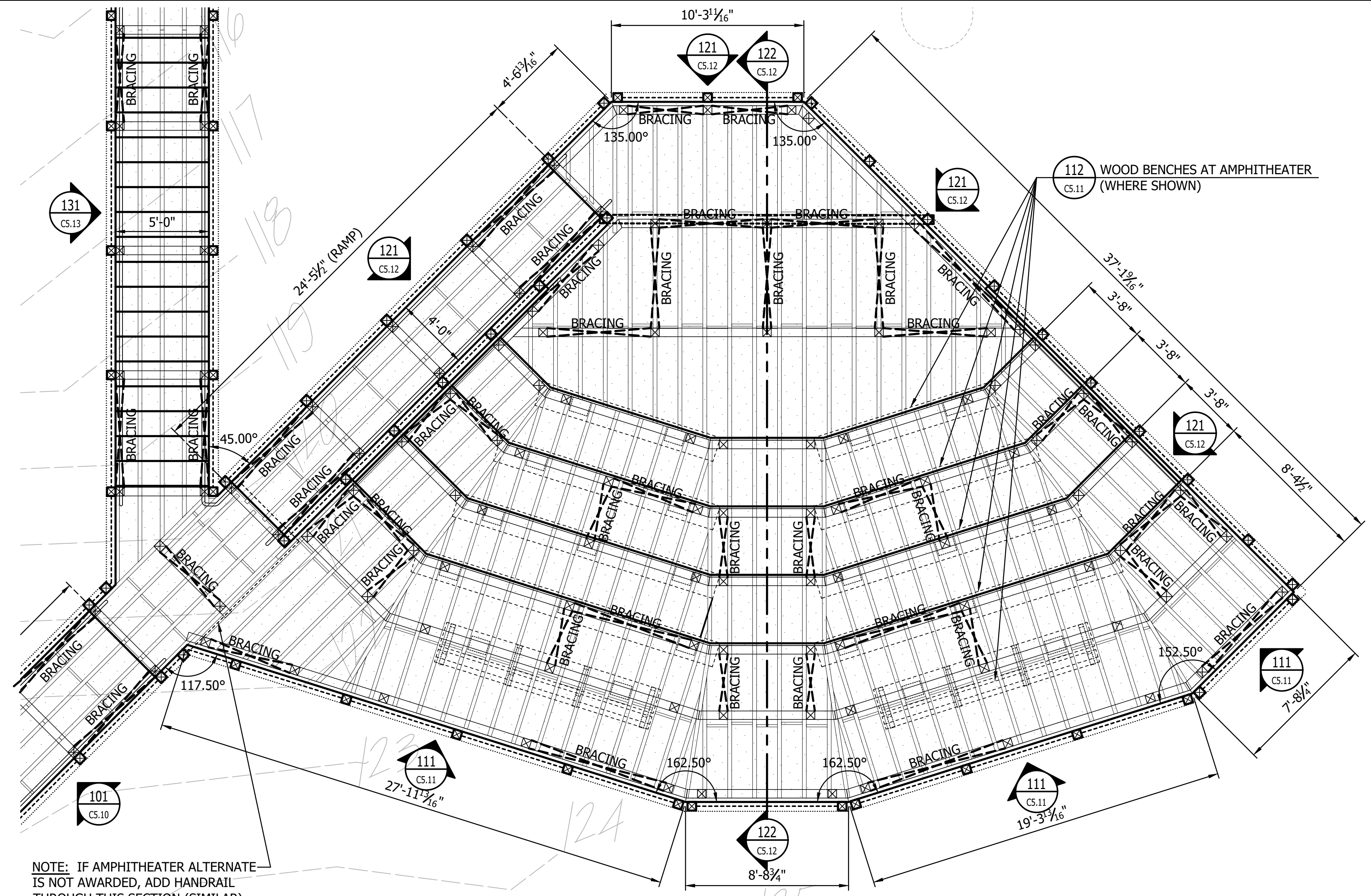


WOOD BENCH DETAILS
 1" = 1'-0" ON FULL SIZE (34"x22") (UNLESS NOTED OTHERWISE)

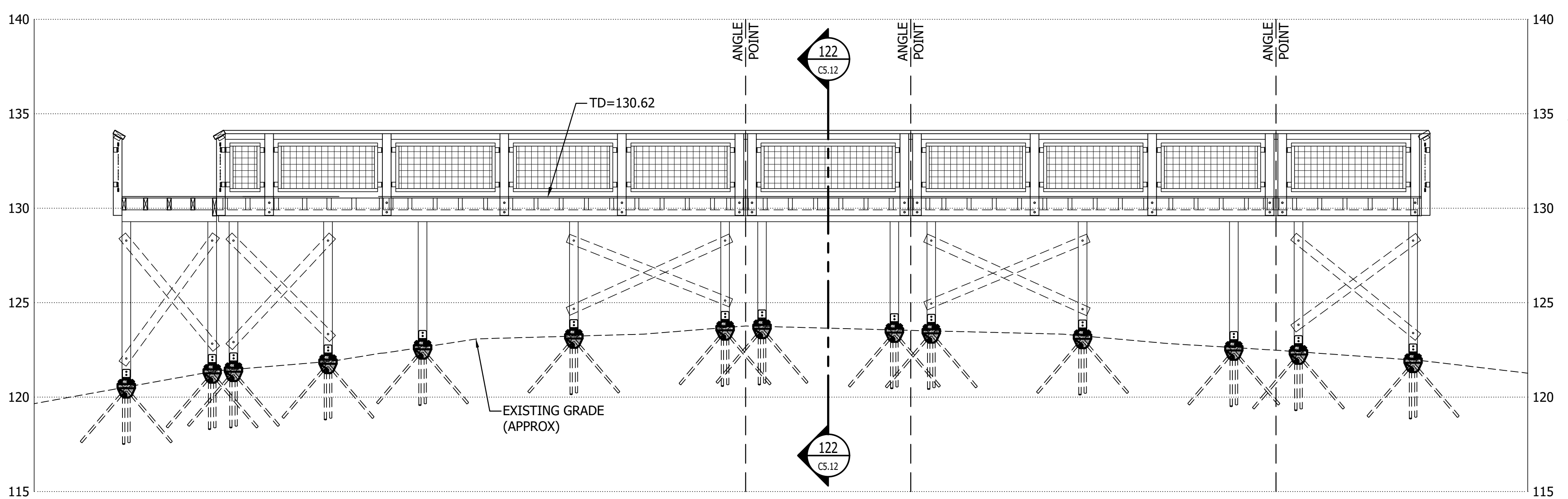
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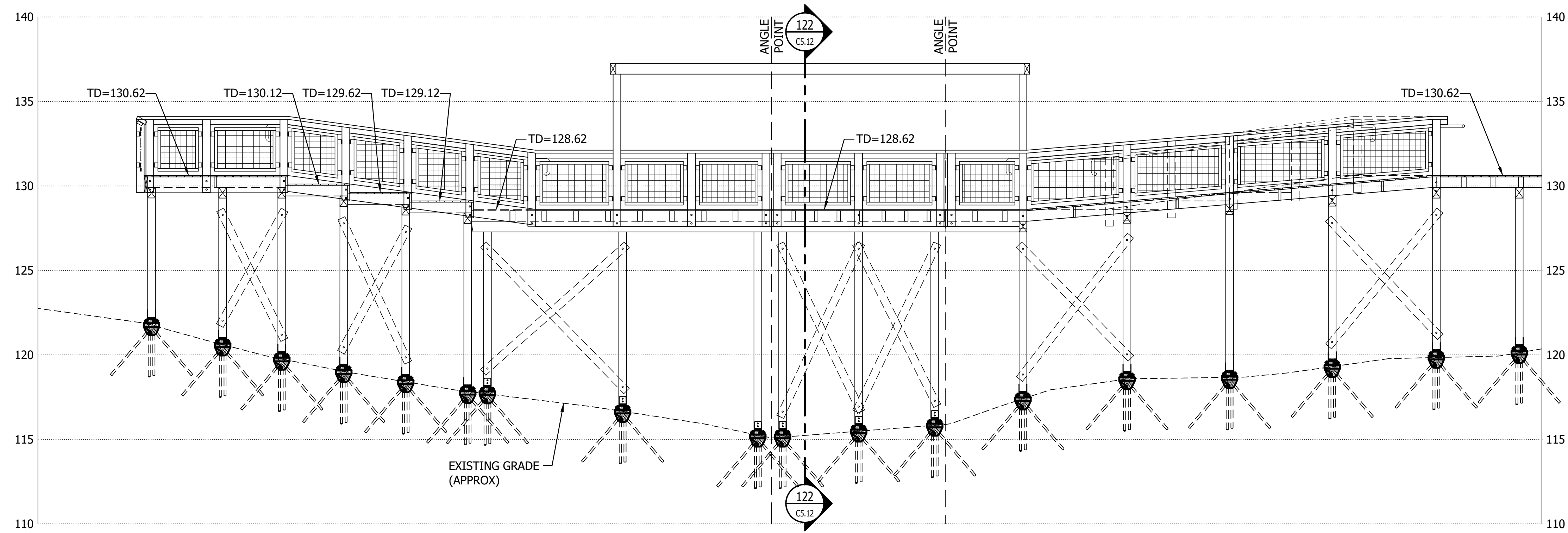


110 AMPHITHEATER - PLAN VIEW
 1/4" = 1'-0" ON FULL SIZE (34"x22") ALTERNATE

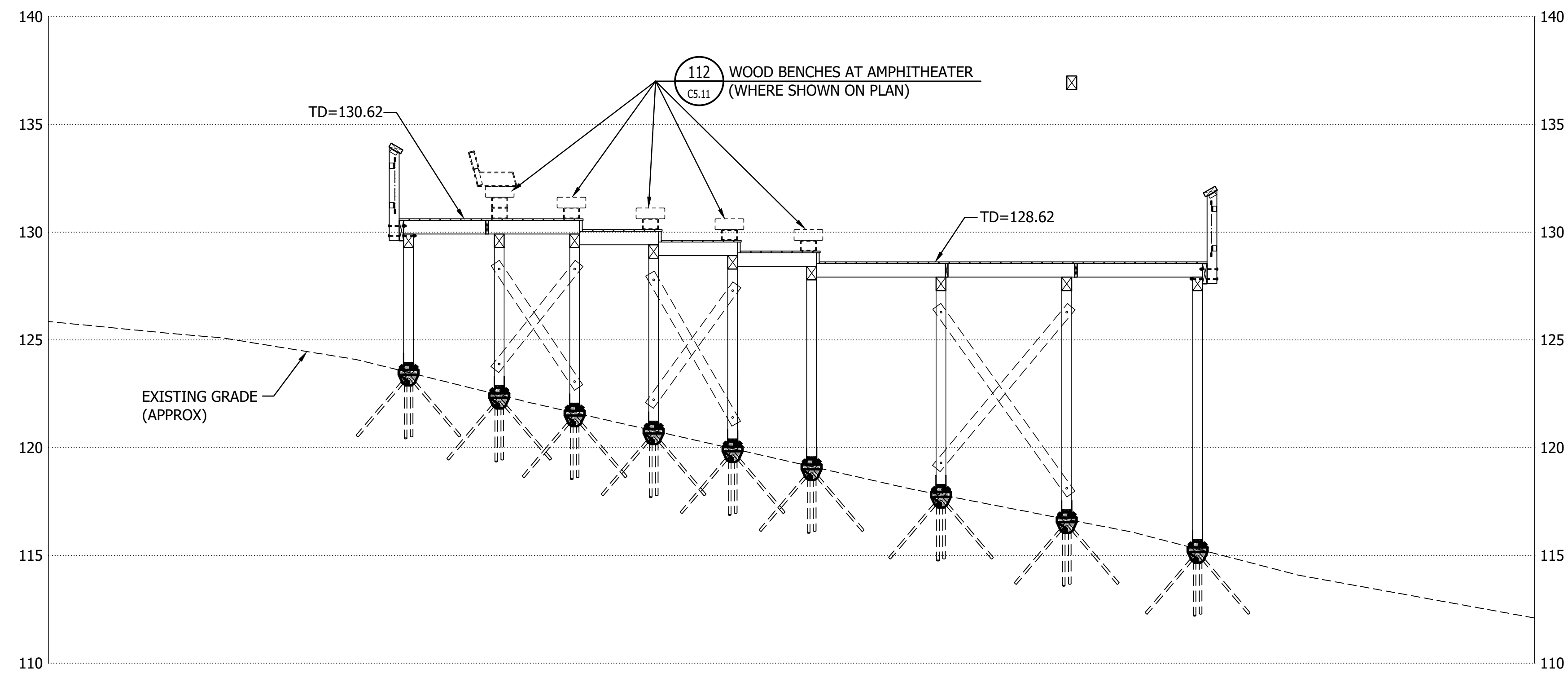


111 AMPHITHEATER - SE ELEVATIONS
 1/4" = 1'-0" ON FULL SIZE (34"x22") ALTERNATE

NOTE: IF AMPHITHEATER ALTERNATE IS NOT AWARDED, ADD HANDRAIL THROUGH THIS SECTION (SIMILAR)



121 AMPHITHEATER - NW ELEVATIONS
 C5.12 1/4" = 1'-0" ON FULL SIZE (34"x22") ALTERNATE
 0 12" 24" 48"



122 AMPHITHEATER - SECTION A-A
 C5.12 1/4" = 1'-0" ON FULL SIZE (34"x22") ALTERNATE
 0 12" 24" 48"

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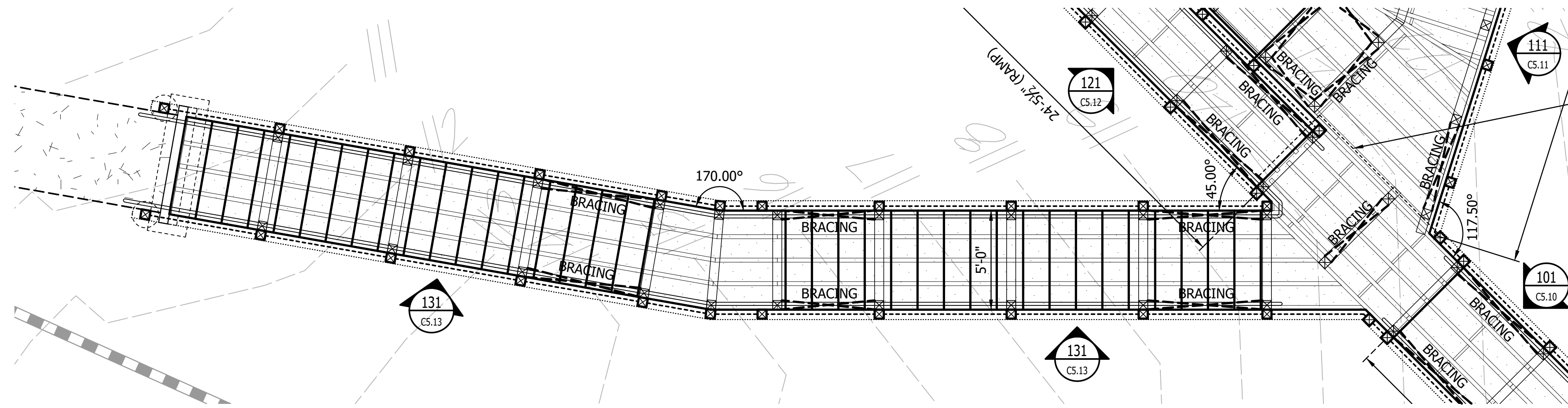
C5.12

SCALE
AS NOTED



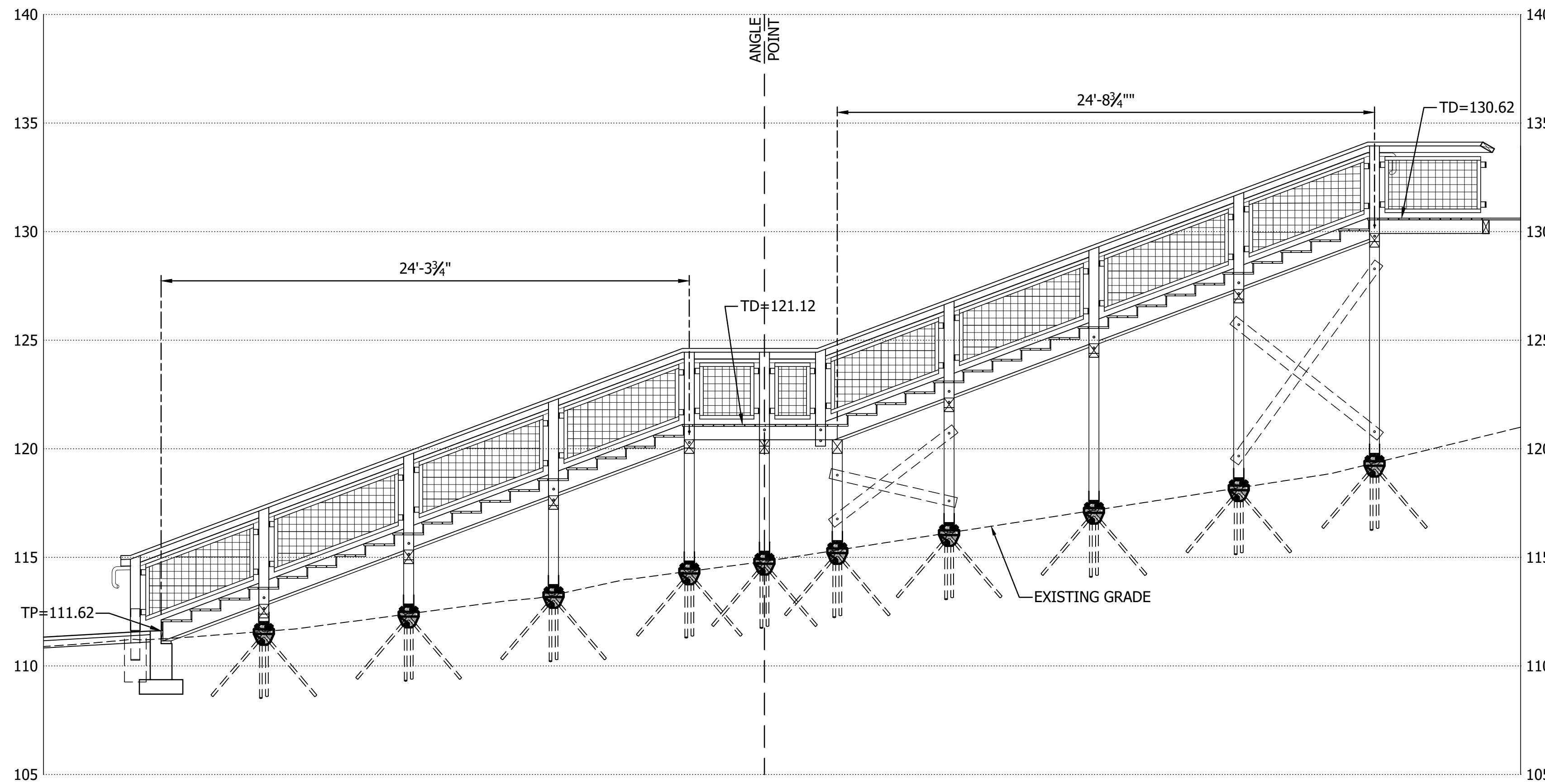
SHEET 59 OF 102
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NOTE: IF AMPHITHEATER ALTERNATE IS NOT AWARDED, ADD HANDRAIL THROUGH THIS SECTION (SIMILAR)

130 BEACH TRAIL TO AMPHITHEATER STAIR - PLAN VIEW
 C5.13 1/4" = 1'-0" ON FULL SIZE (34"x22") ALTERNATE



131 BEACH TRAIL TO AMPHITHEATER STAIR - SW ELEVATION
 C5.13 1/4" = 1'-0" ON FULL SIZE (34"x22") ALTERNATE

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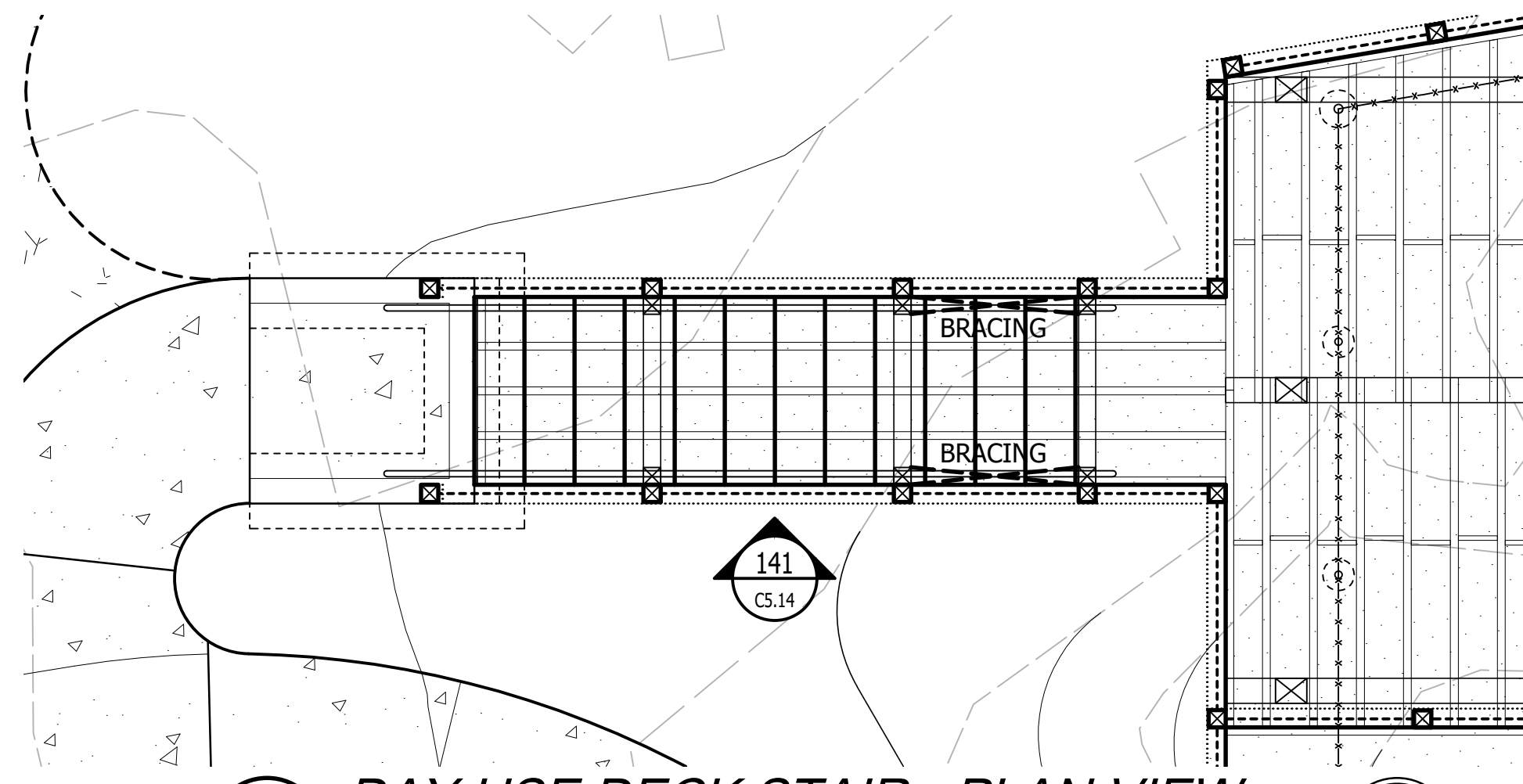
C5.13

SCALE
AS NOTED

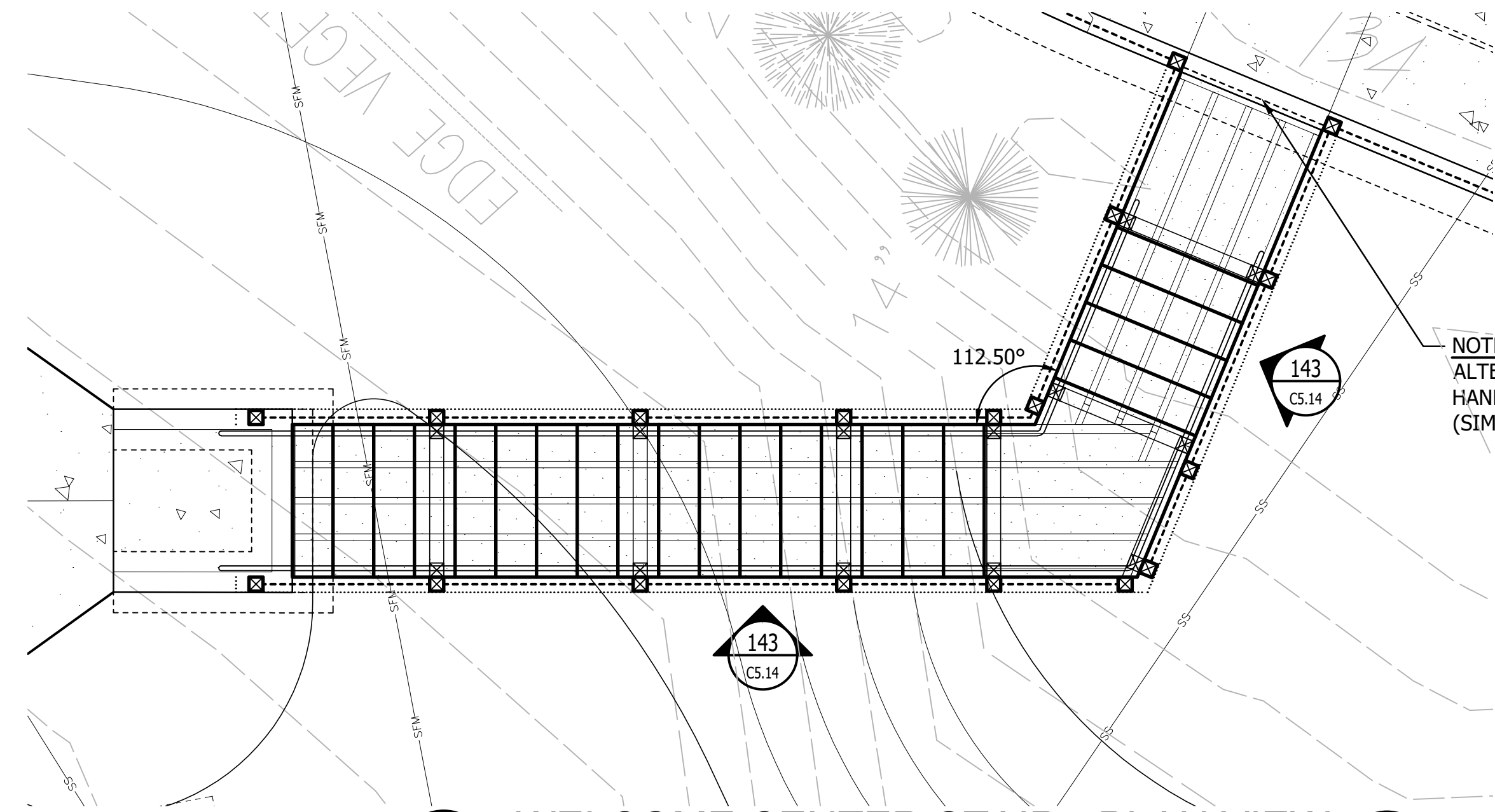
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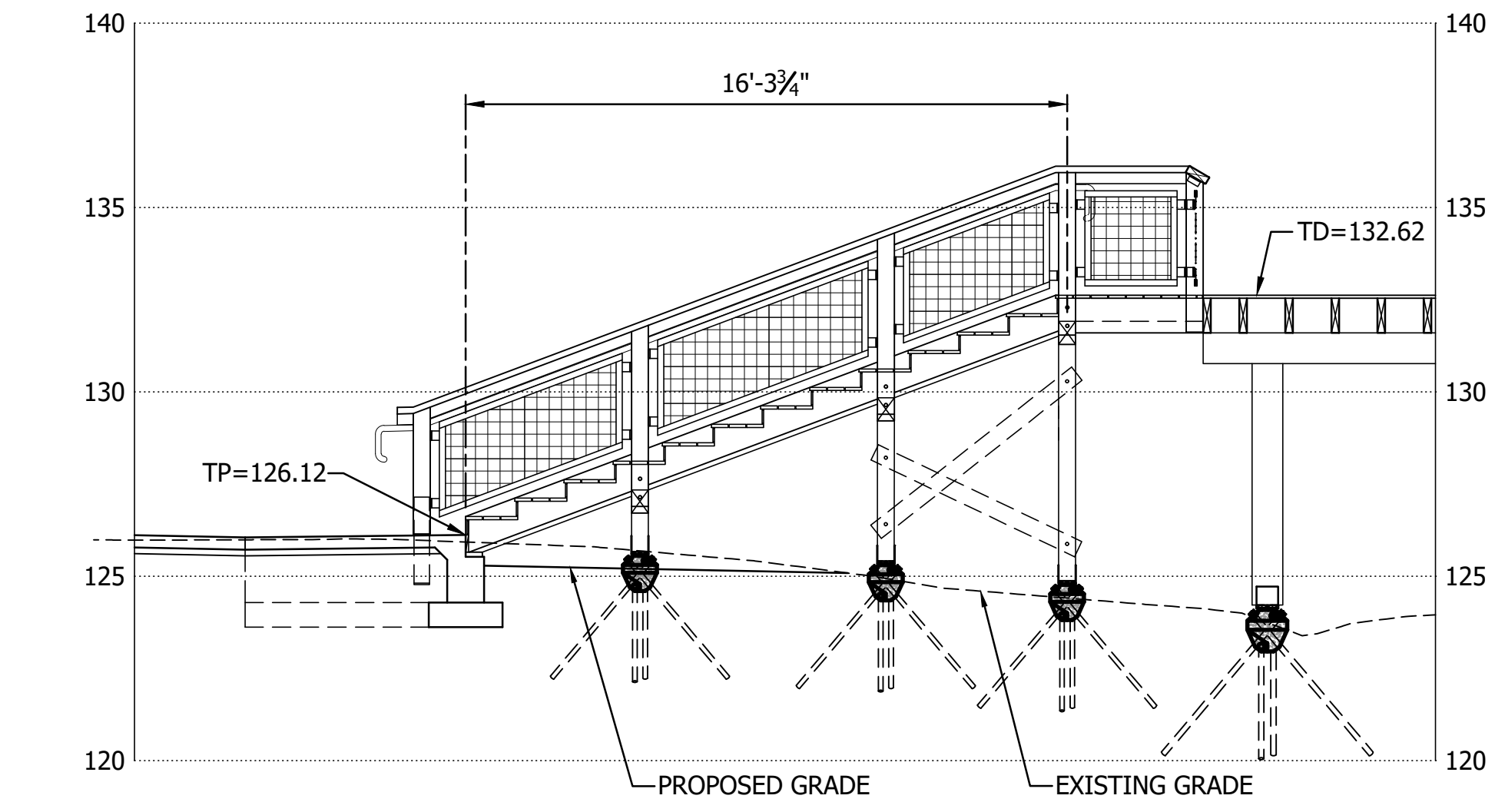


140 DAY USE DECK STAIR - PLAN VIEW
 C5.14 1/4" = 1'-0" ON FULL SIZE (34"x22")

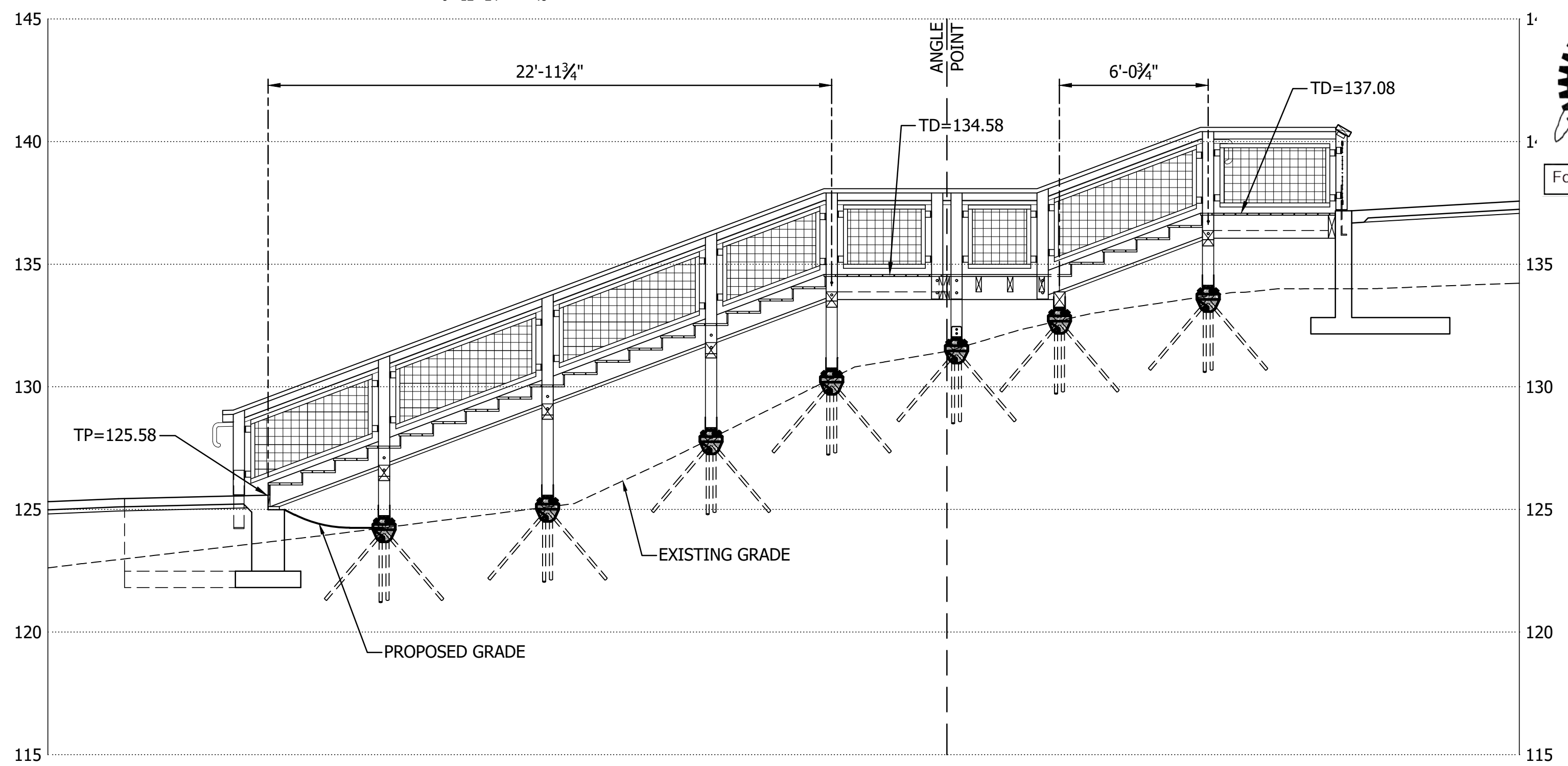


142 WELCOME CENTER STAIR - PLAN VIEW
 C5.14 1/4" = 1'-0" ON FULL SIZE (34"x22") ALTERNATE

NOTE: IF WELCOME CENTER STAIR ALTERNATE IS NOT AWARDED, ADD HANDRAIL THROUGH THIS SECTION (SIMILAR)



141 DAY USE DECK STAIR - SE ELEVATION
 C5.14 1/4" = 1'-0" ON FULL SIZE (34"x22")



143 WELCOME CENTER STAIR - SW ELEVATION
 C5.14 1/4" = 1'-0" ON FULL SIZE (34"x22") ALTERNATE

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SITE SECTIONS & DETAILS

C5.14

SCALE: **AS NOTED**

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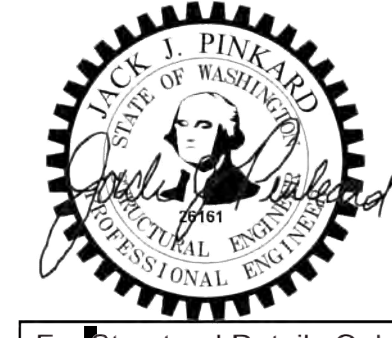
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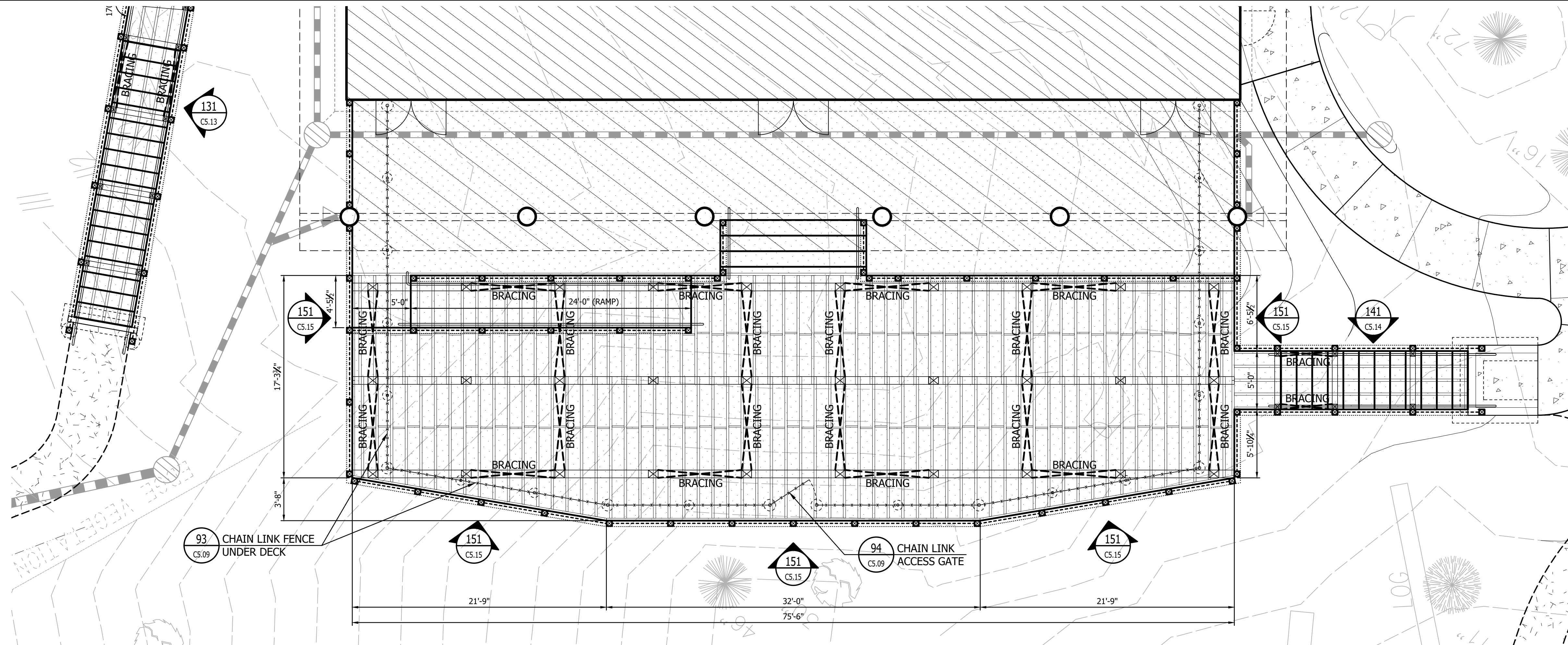
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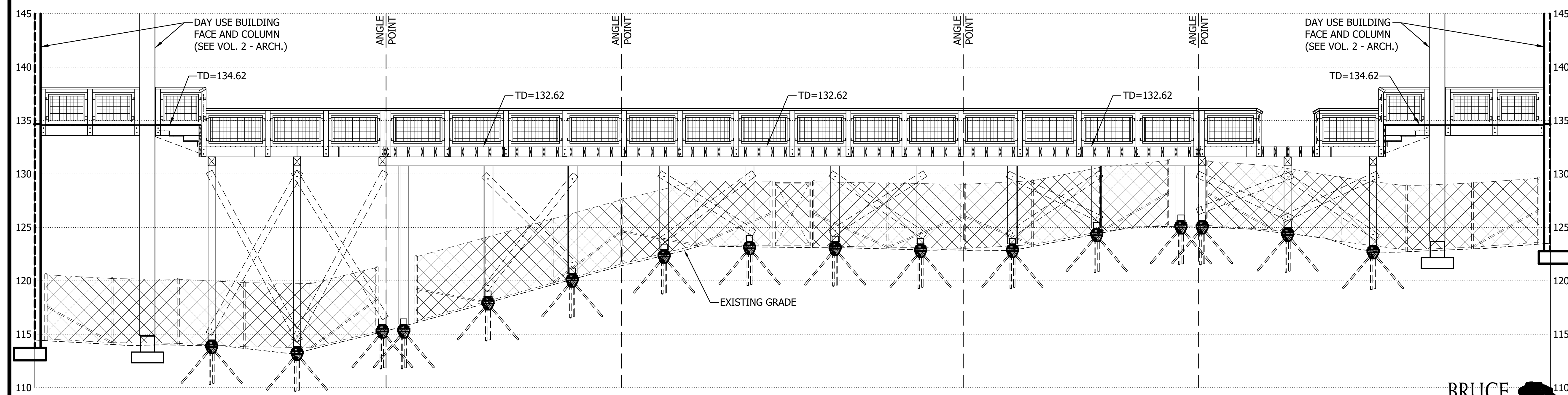
C5.15

SCALE
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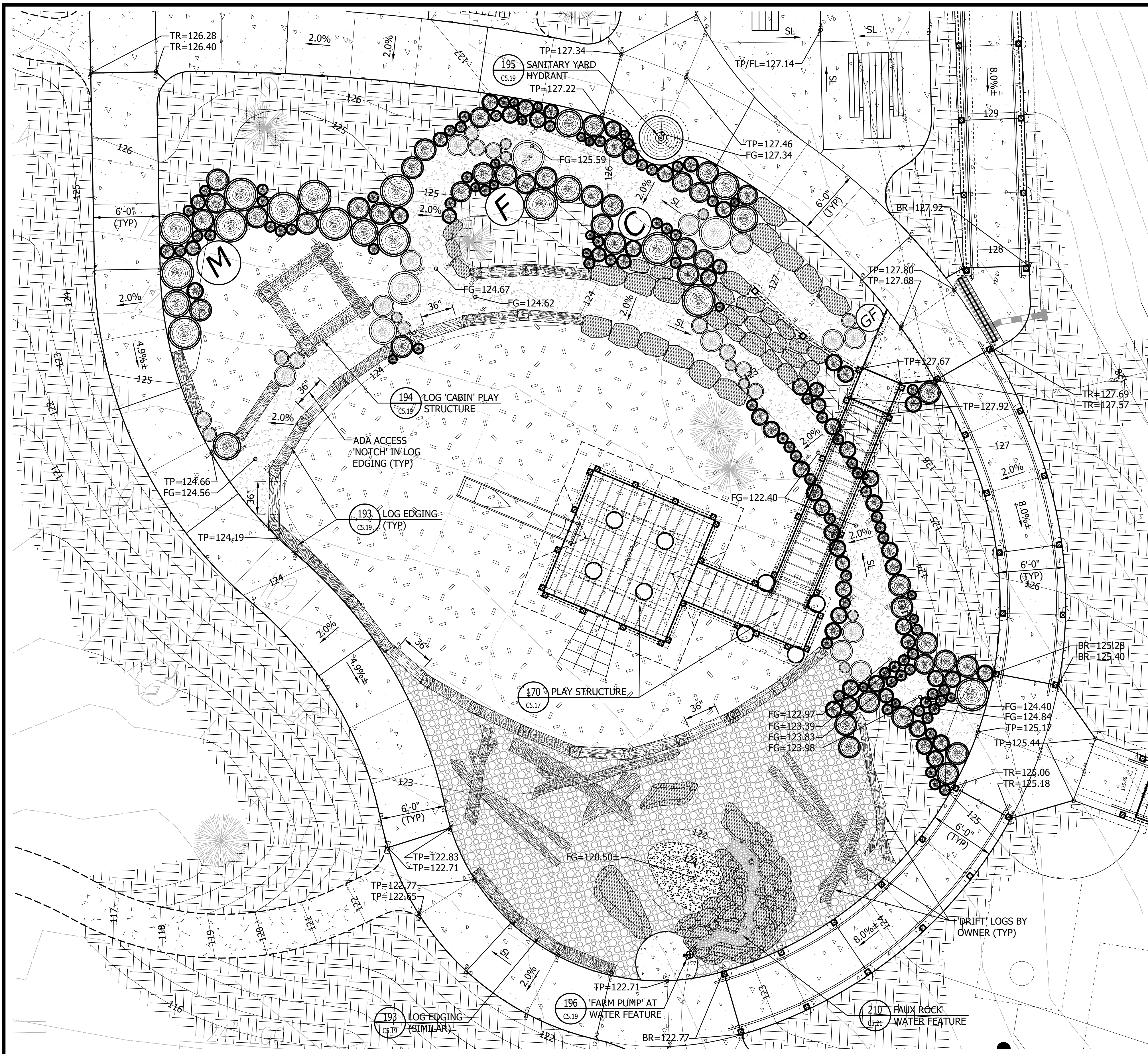
150 DAY USE LOWER DECK - PLAN VIEW
C5.15 3/16" = 1'-0" ON FULL SIZE (34"x22")



151 DAY USE LOWER DECK - ELEVATIONS
C5.15 3/16" = 1'-0" ON FULL SIZE (34"x22")



SHEET 62 OF 102
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- ### LAYOUT & MATERIALS LEGEND
- 4" FIBER REINFORCED CONCRETE PAVING (LIGHT BROOM FINISH) OVER 2" AGGREGATE BASE (15 C5.01)
 - 2" DEPTH 1/4" MINUS CRUSHED SURFACING OVER 4" AGGREGATE BASE (TRAILS/PATHS) (20 C5.02)
 - 12" TO 18" DEPTH ROUND BEACH GRAVEL (MATCH EXISTING BEACH GRAVEL)
 - 18" TO 24" DEPTH CLEAN SAND AT WATER FEATURE SUMP
 - 12" MIN. DEPTH PLAY AREA SURFACING MATERIALS (SEE DETAILS)
 - 12" DEPTH IMPORT TOPSOIL (SEE LANDSCAPE PLANTING PLANS) (25 C5.02)
 - PICNIC TABLES - STANDARD OR ADA AS SHOWN (OWNER FURNISHED, CONTRACTOR INSTALLED)
 - BBQ GRILLE LOCATIONS (OWNER FURNISHED, CONTRACTOR INSTALLED)

- ### GRADING & DRAINAGE LEGEND
- PVC CATCH BASIN W/ROUND BEEHIVE GRATE (1 C2.04)
 - CONCRETE TRENCH DRAIN (5 C2.04)
 - SOLID HDP STORM DRAIN LINE (SIZE AS NOTED ON PLANS) (8 C2.04)
 - PERFORATED PIPE (PP) FRENCH DRAIN (6" HDP UNLESS NOTED ON PLANS) (10 C2.05)
 - 125, 124 PROPOSED CONTOUR LINES
 - 125, 124 EXISTING CONTOUR LINES
 - FG=125.62 PROPOSED SPOT ELEVATION
 - 1% SLOPE (DOWN) DIRECTION & STEEPNESS
 - GRADE BREAK LINE AT PAVING
 - APPROXIMATE LIMITS OF GRADING LINE

160 PLAY AREA PLAN ENLARGEMENT
 C5.16 1" = 5'-0" ON FULL SIZE (34"x22")
 0 15' 30' 60'

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STATE OF WASHINGTON LICENSED LANDSCAPE ARCHITECT
Shawn Allan Jensen
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SITE SECTIONS & DETAILS

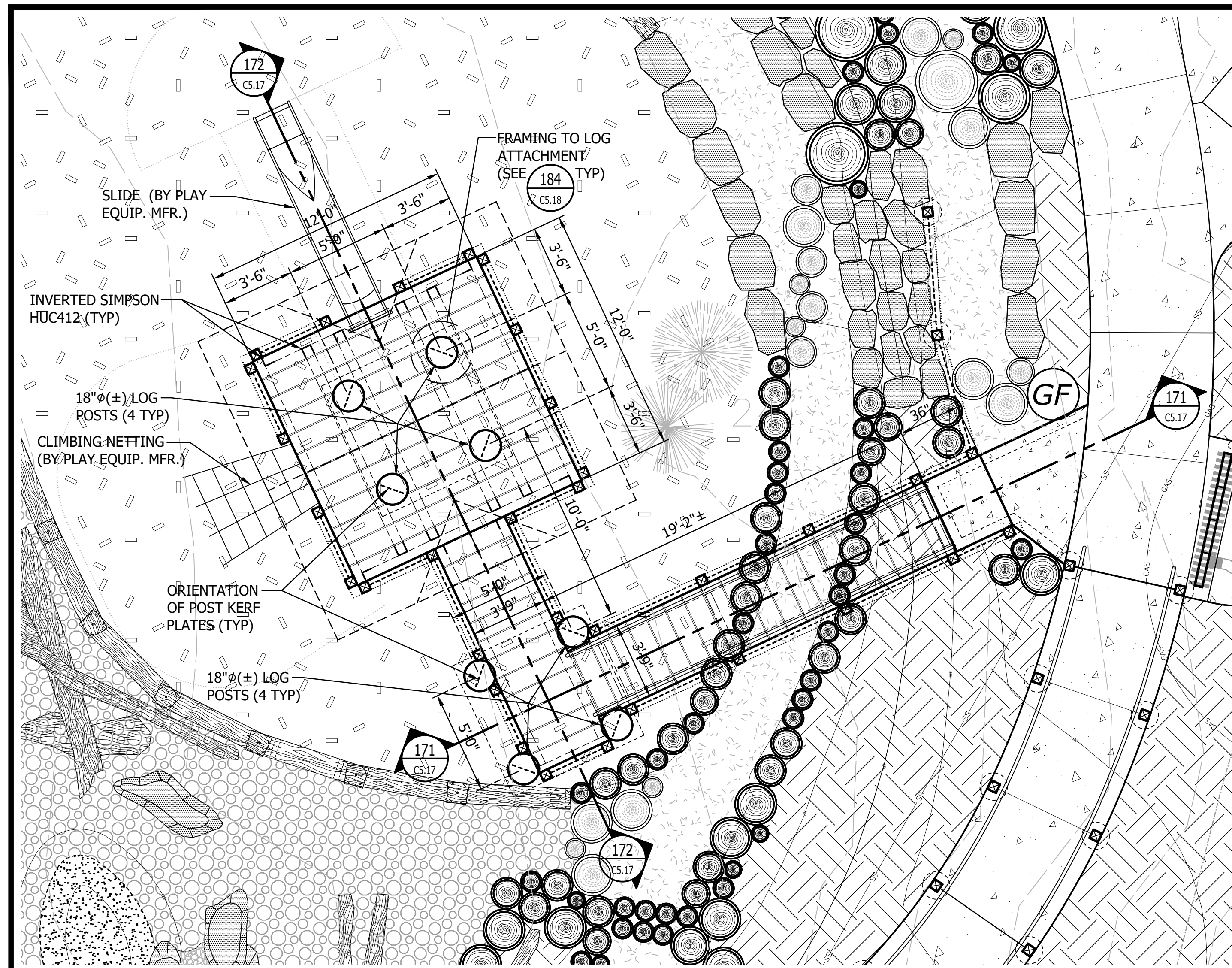
C5.16

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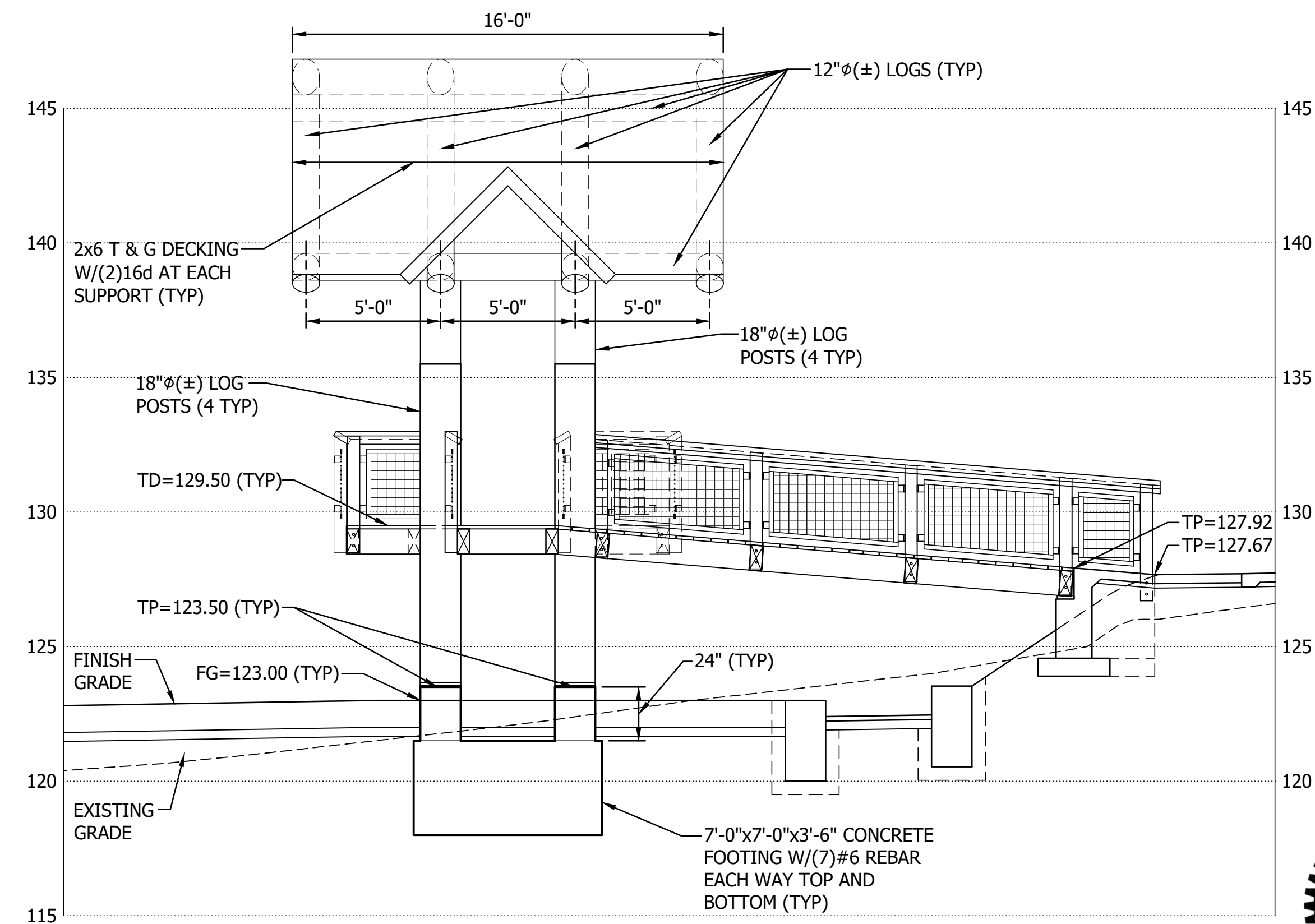
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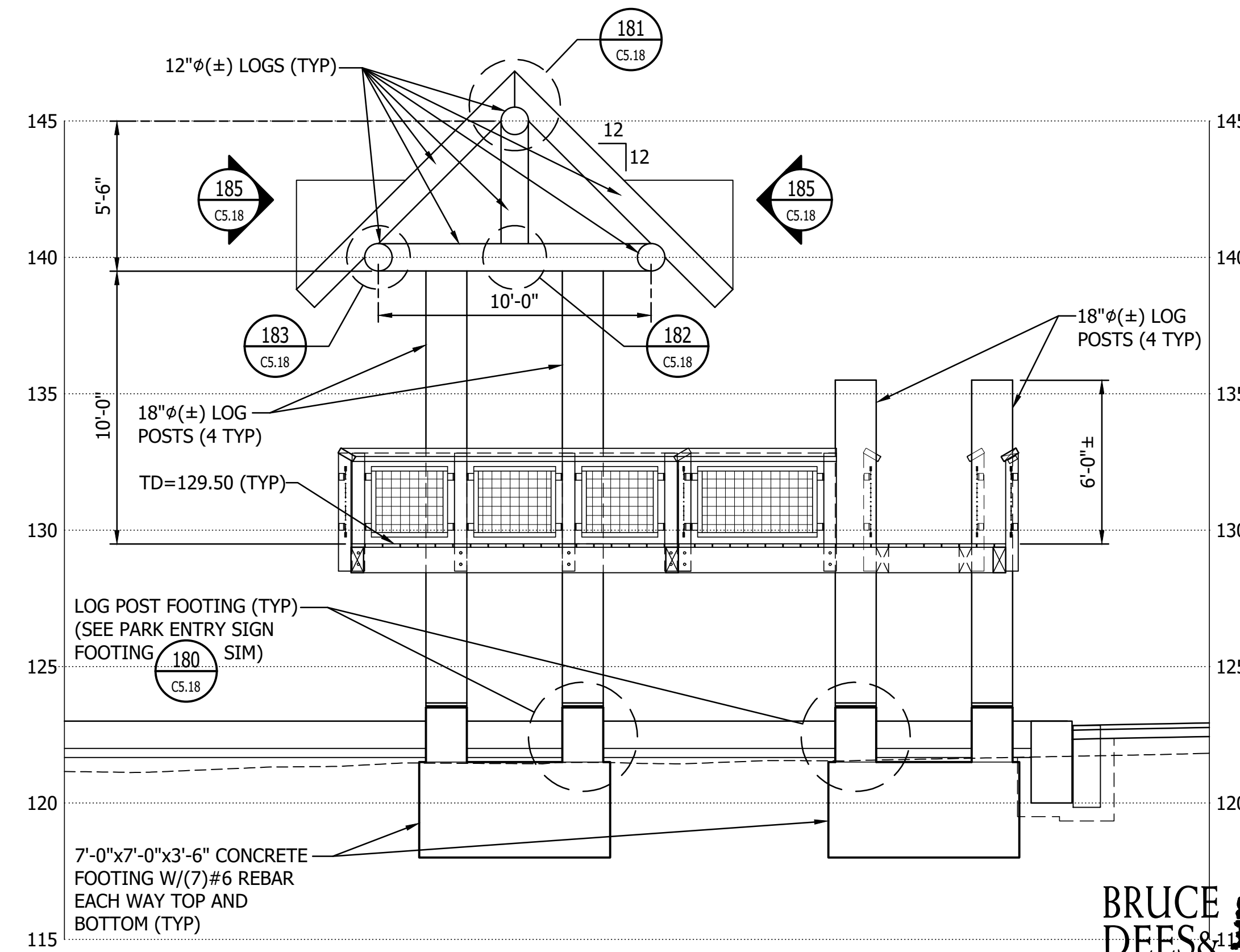
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170 PLAY STRUCTURE - PLAN VIEW
 C5.17 1/4" = 1'-0" ON FULL SIZE (34"x22")



171 PLAY STRUCTURE SECTION
 C5.17 1/4" = 1'-0" ON FULL SIZE (34"x22")



172 PLAY STRUCTURE SECTION
 C5.17 1/4" = 1'-0" ON FULL SIZE (34"x22")

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**DAY USE
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**SITE SECTIONS &
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C5.17

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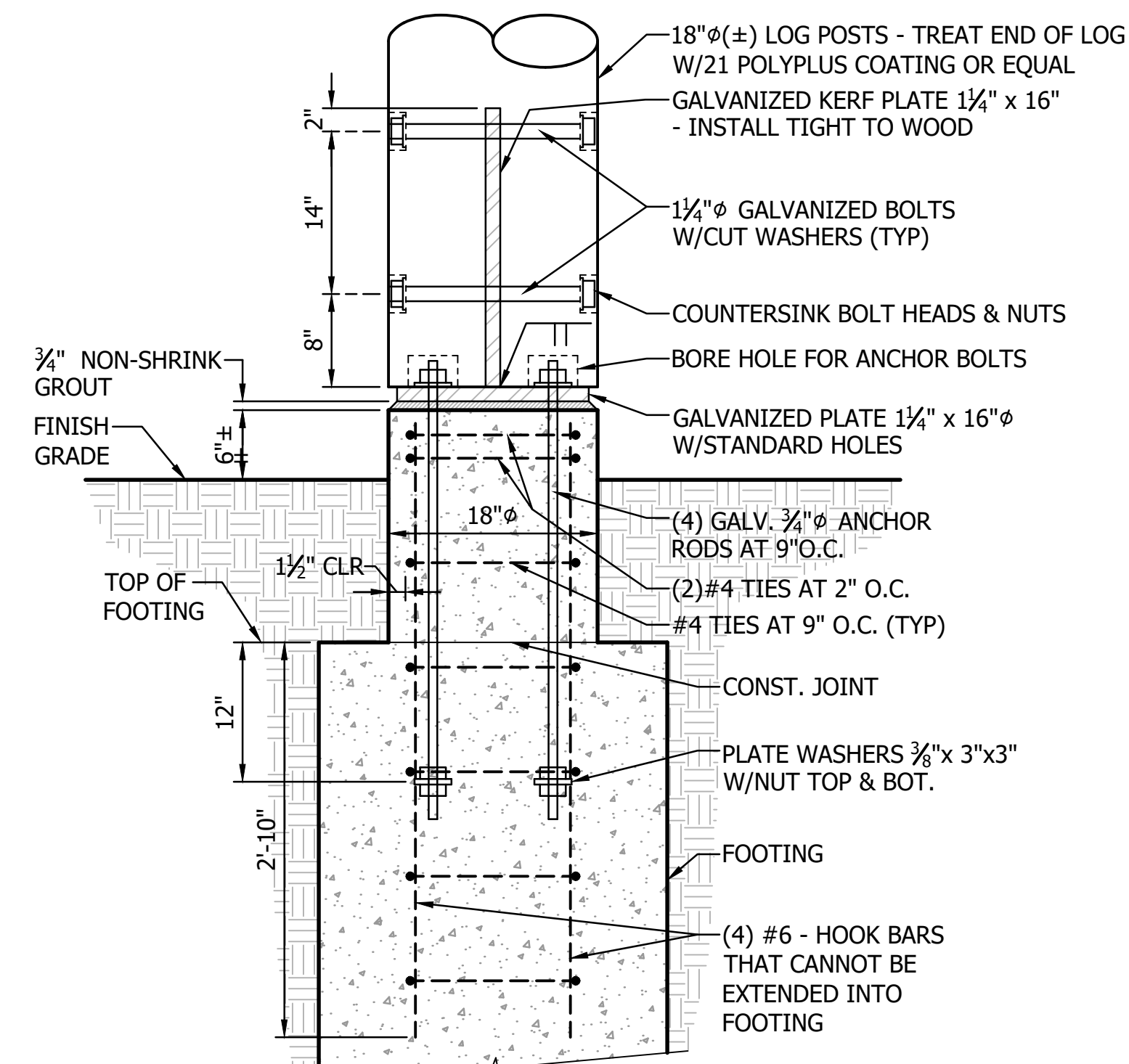
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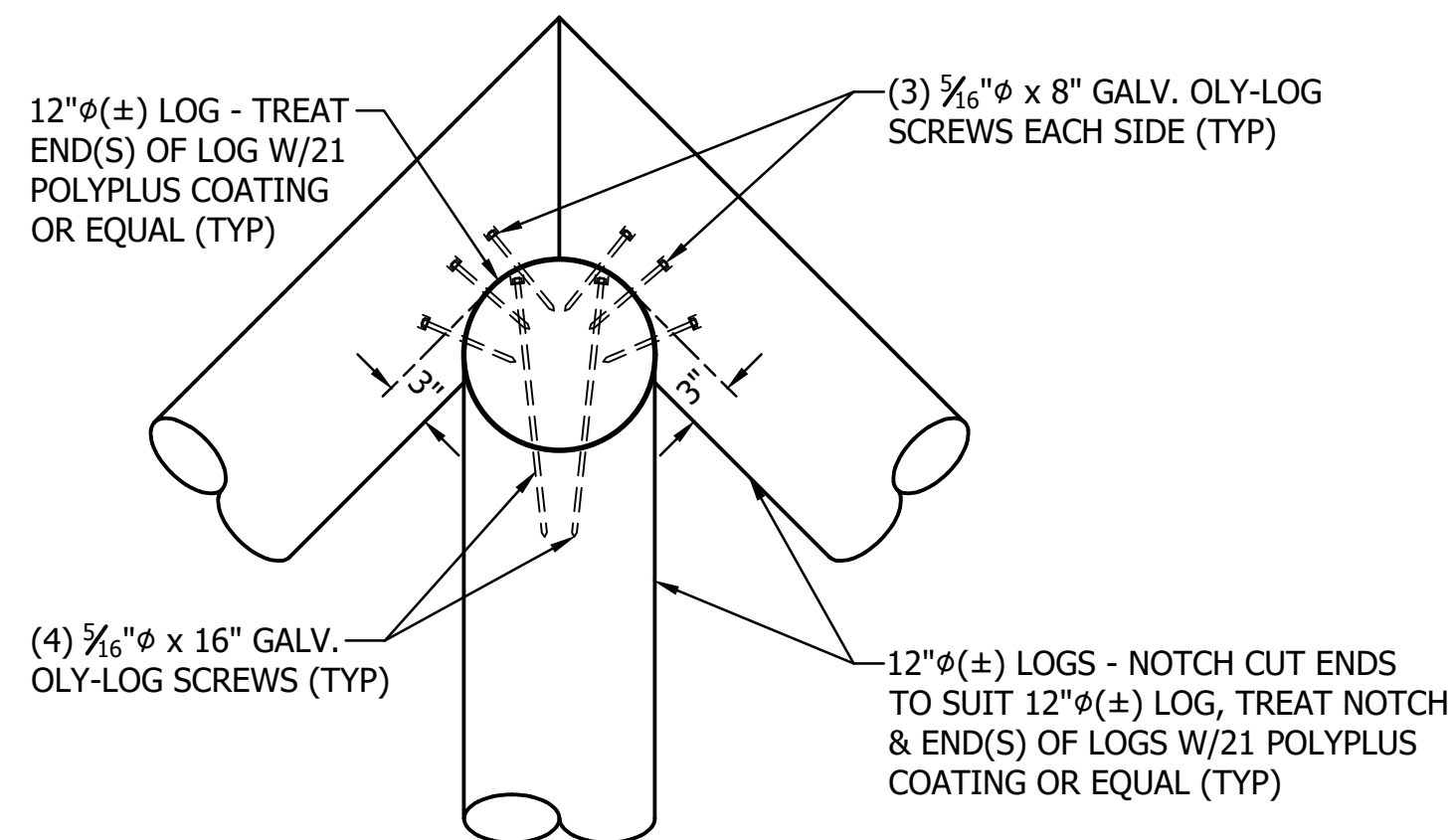
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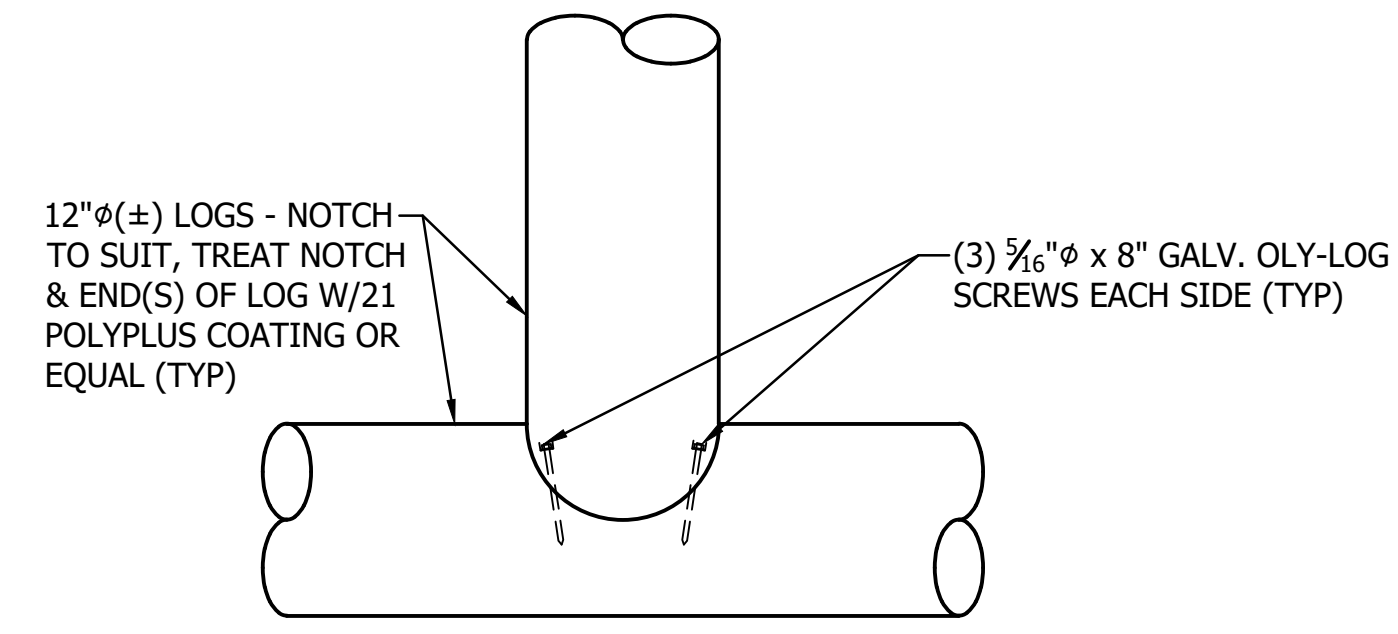
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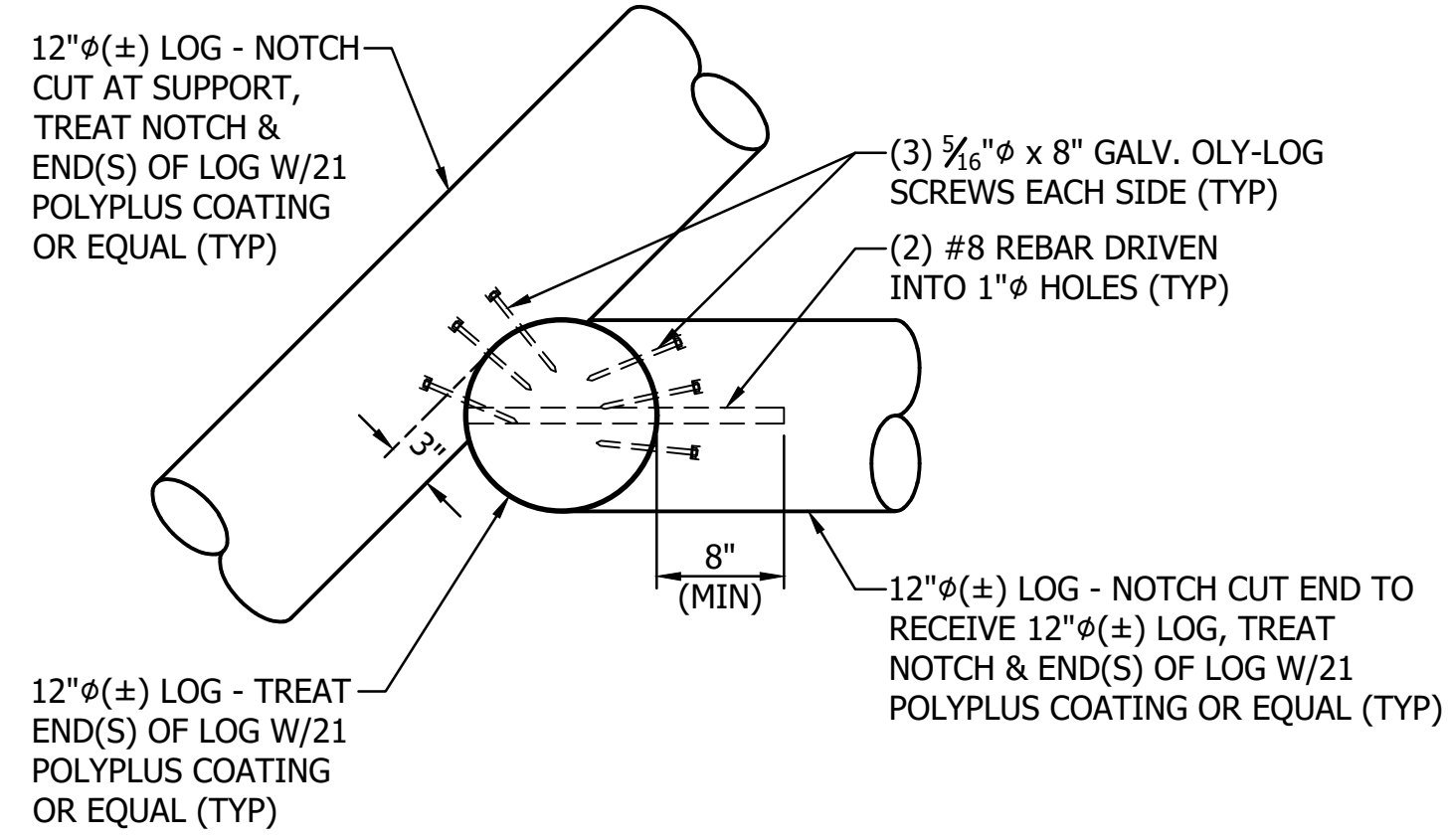
180 PLAY STRUCTURE FOOTING
 C5.18 1" = 1'-0" ON FULL SIZE (34"x22")



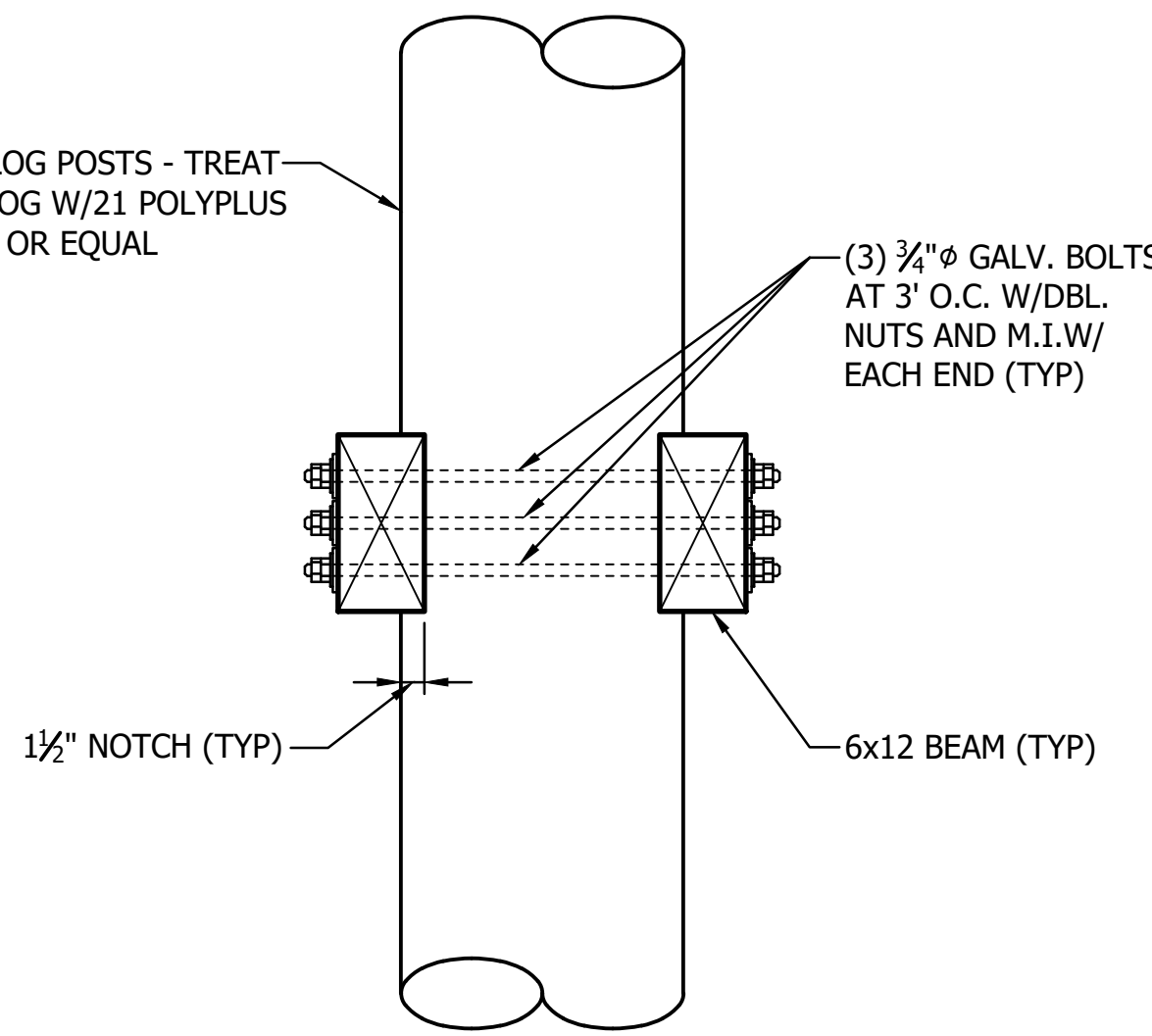
181 PLAY STRUCTURE SECTION
 C5.18 1" = 1'-0" ON FULL SIZE (34"x22")



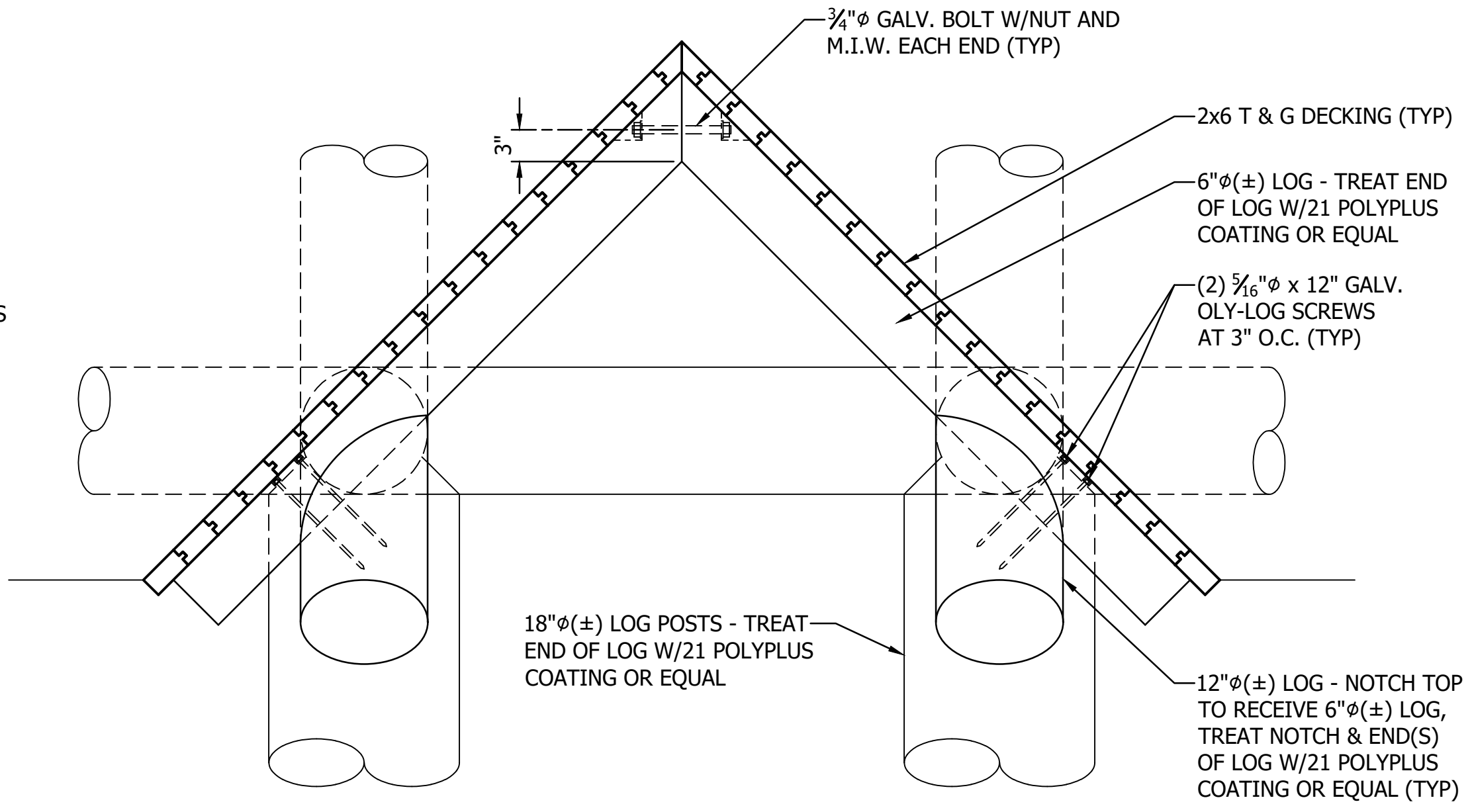
182 PLAY STRUCTURE SECTION
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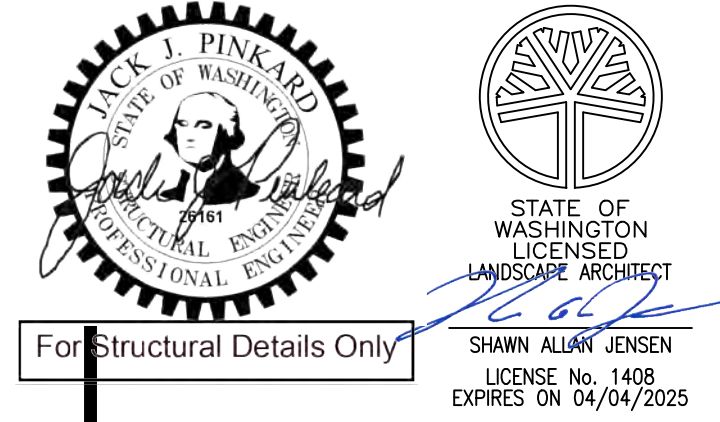
183 PLAY STRUCTURE SECTION
 C5.18 1" = 1'-0" ON FULL SIZE (34"x22")



184 PLAY STRUCTURE SECTION
 C5.18 1" = 1'-0" ON FULL SIZE (34"x22")



185 PLAY STRUCTURE SECTION
 C5.18 1" = 1'-0" ON FULL SIZE (34"x22")



PROJECT ENGINEER
WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

SITE SECTIONS & DETAILS

C5.18

SCALE
AS NOTED

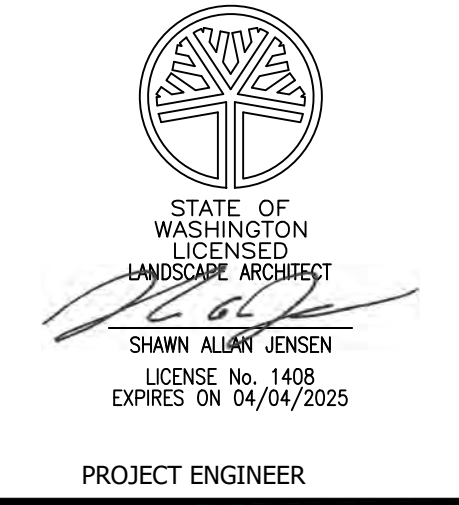
PARKS FILE#



BRUCE DEES & ASSOCIATES
 SHEET 65 OF 102
 BID SET

DATE	
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INT.	
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NO.	

ACTION	BY	DATE
DESIGNED	ABD	NOV. 2023
DRAWN	SAJ	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		



WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

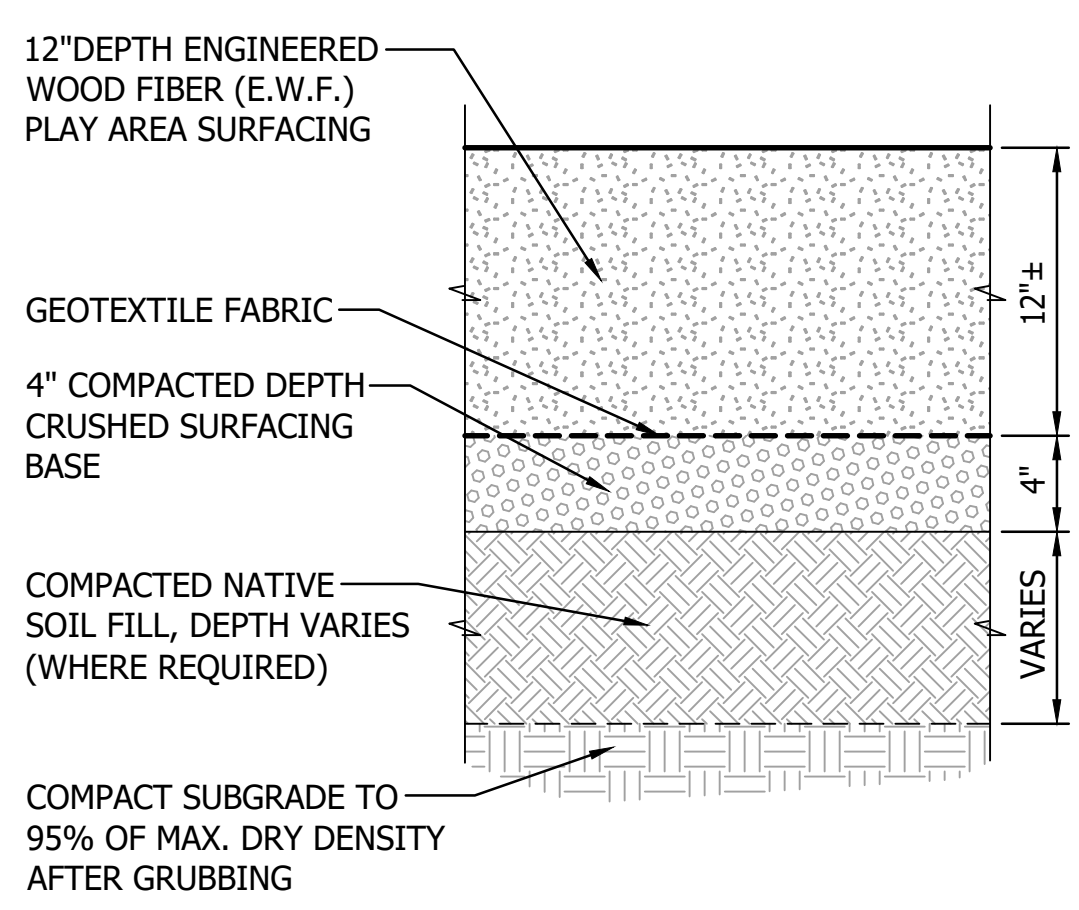
DAY USE DEVELOPMENT

SITE SECTIONS & DETAILS

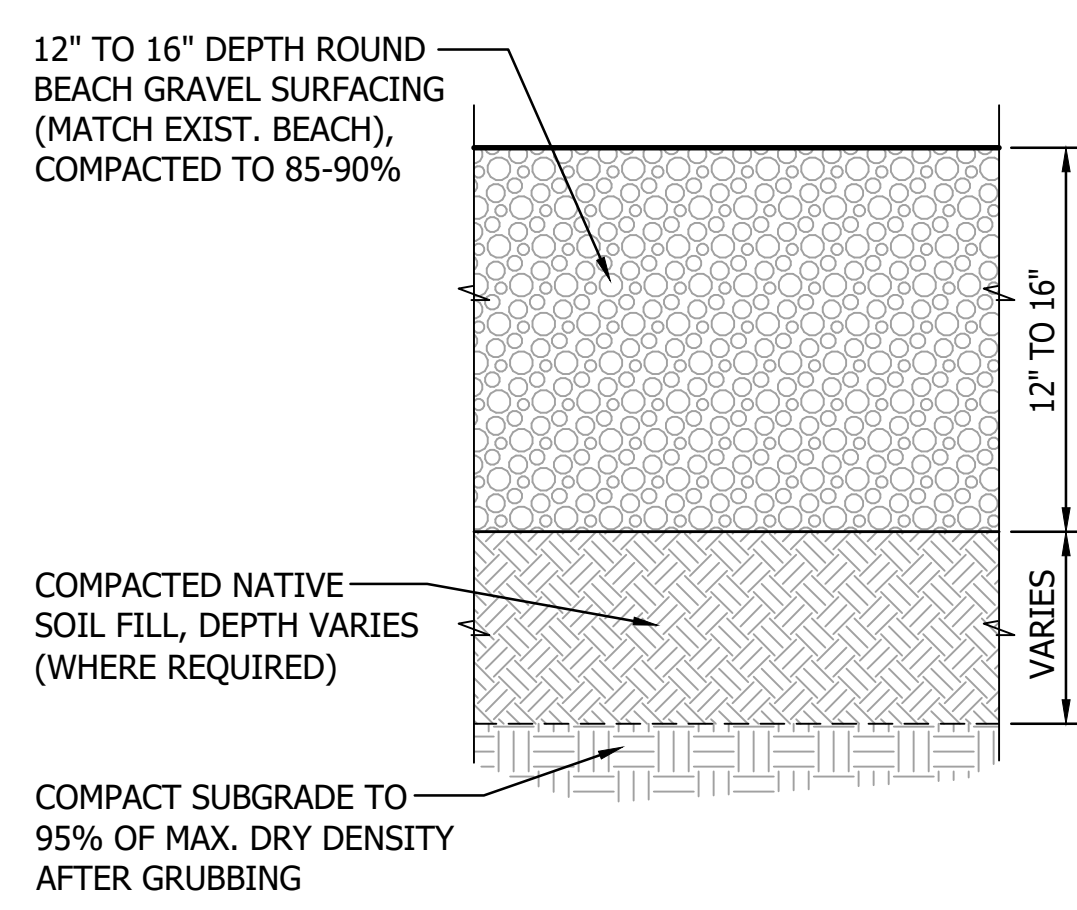
C5.19

SCALE AS NOTED

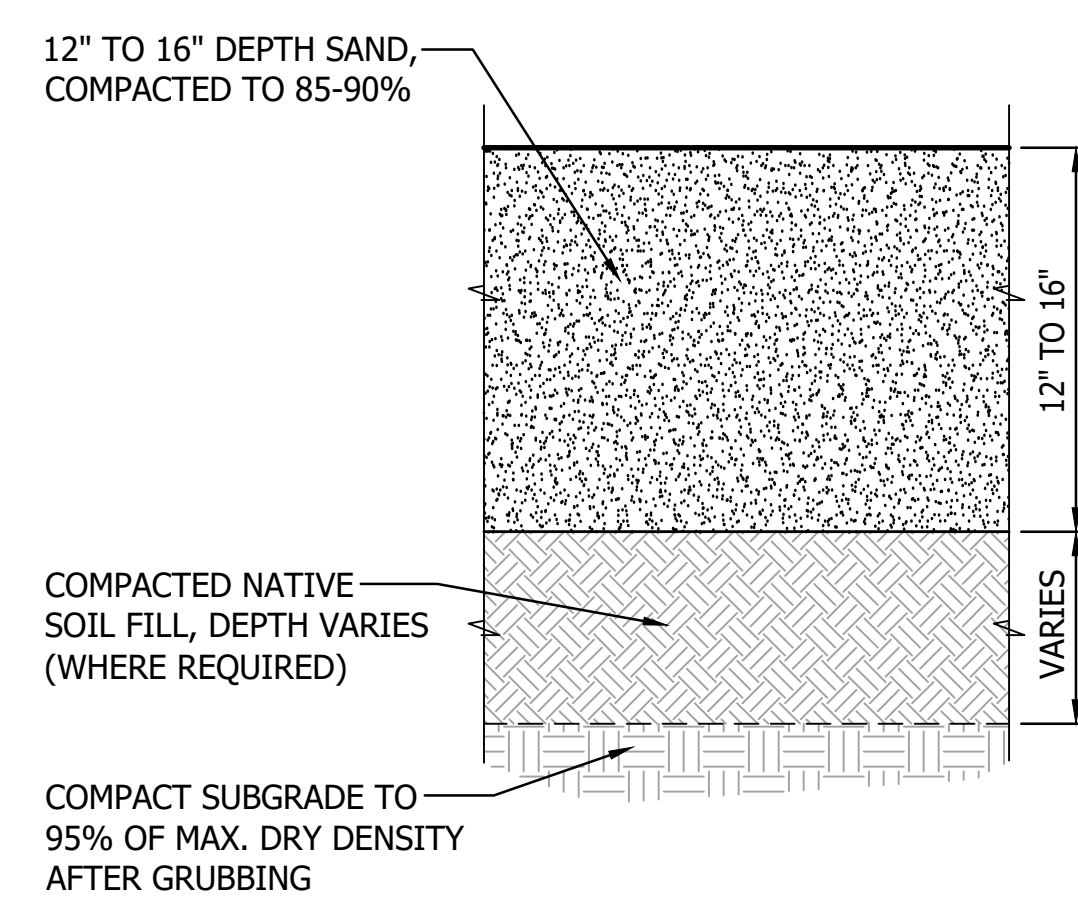
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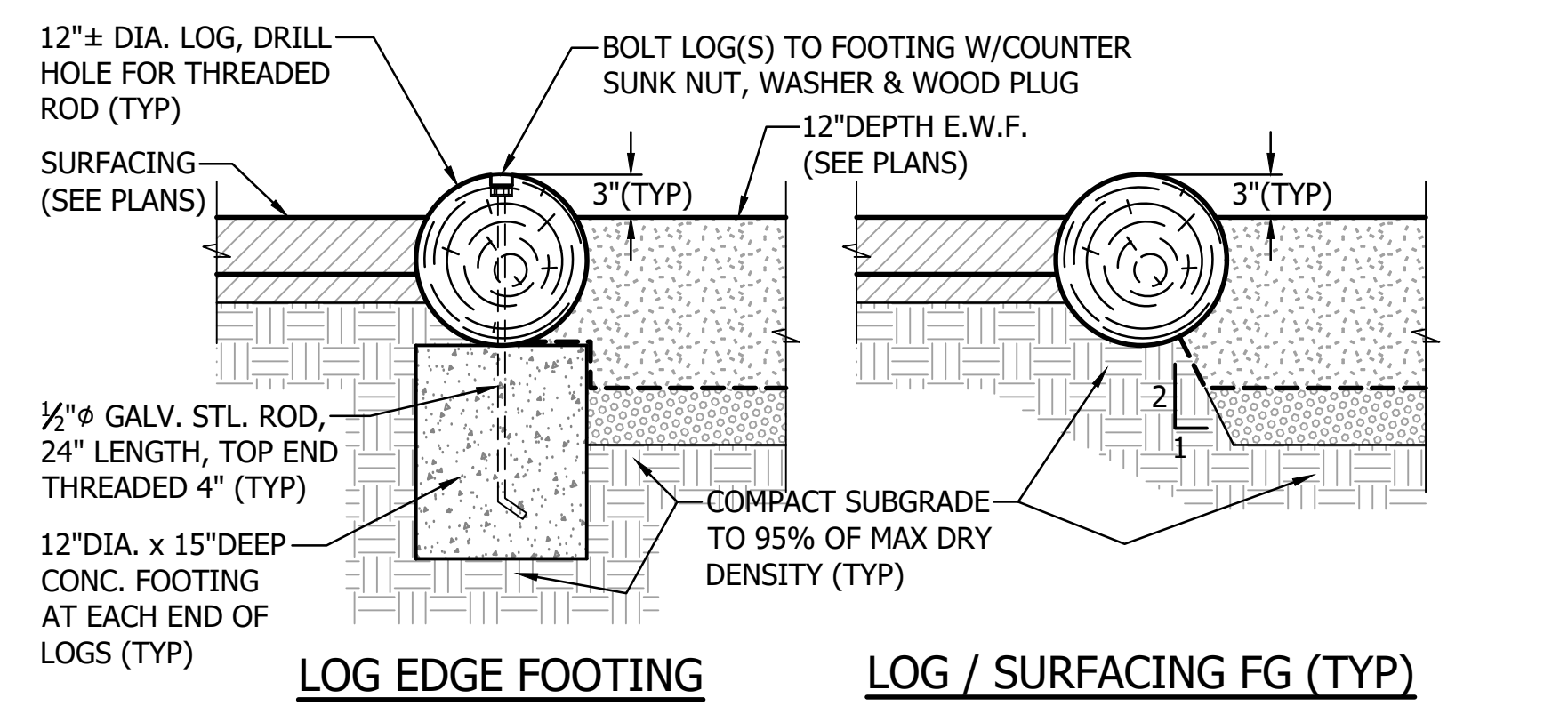
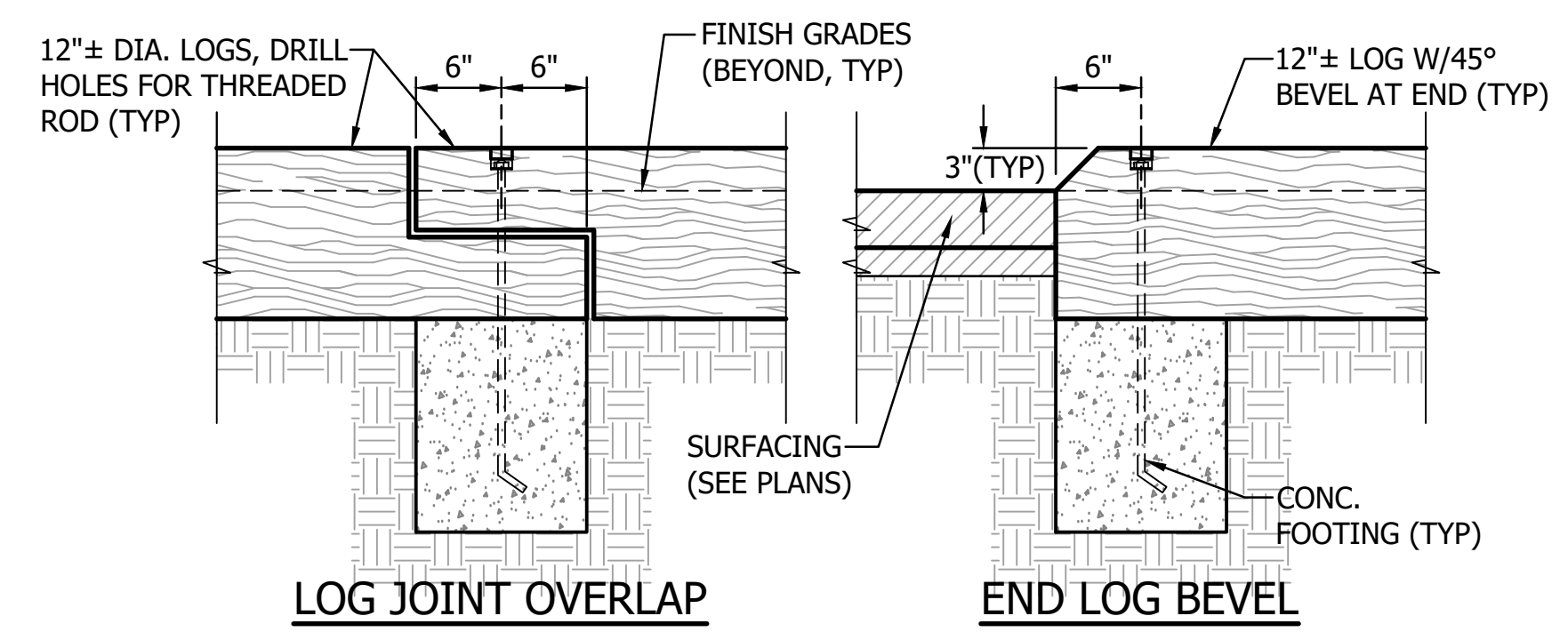
190 PLAY AREA SURFACING
C5.19 1-1/2" = 1'-0" ON FULL SIZE (34"x22")



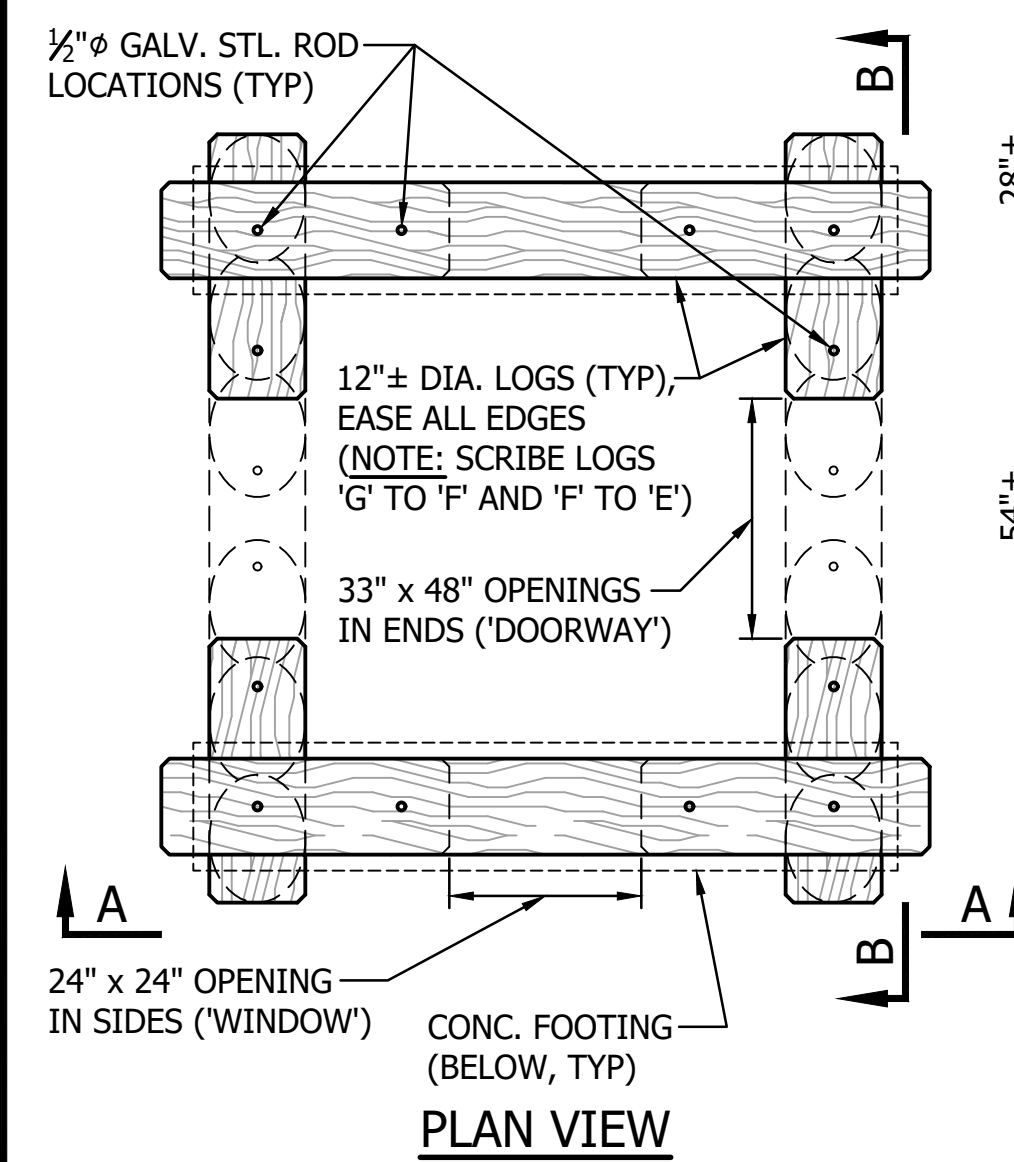
191 BEACH GRAVEL SURFACING
C5.19 1-1/2" = 1'-0" ON FULL SIZE (34"x22")



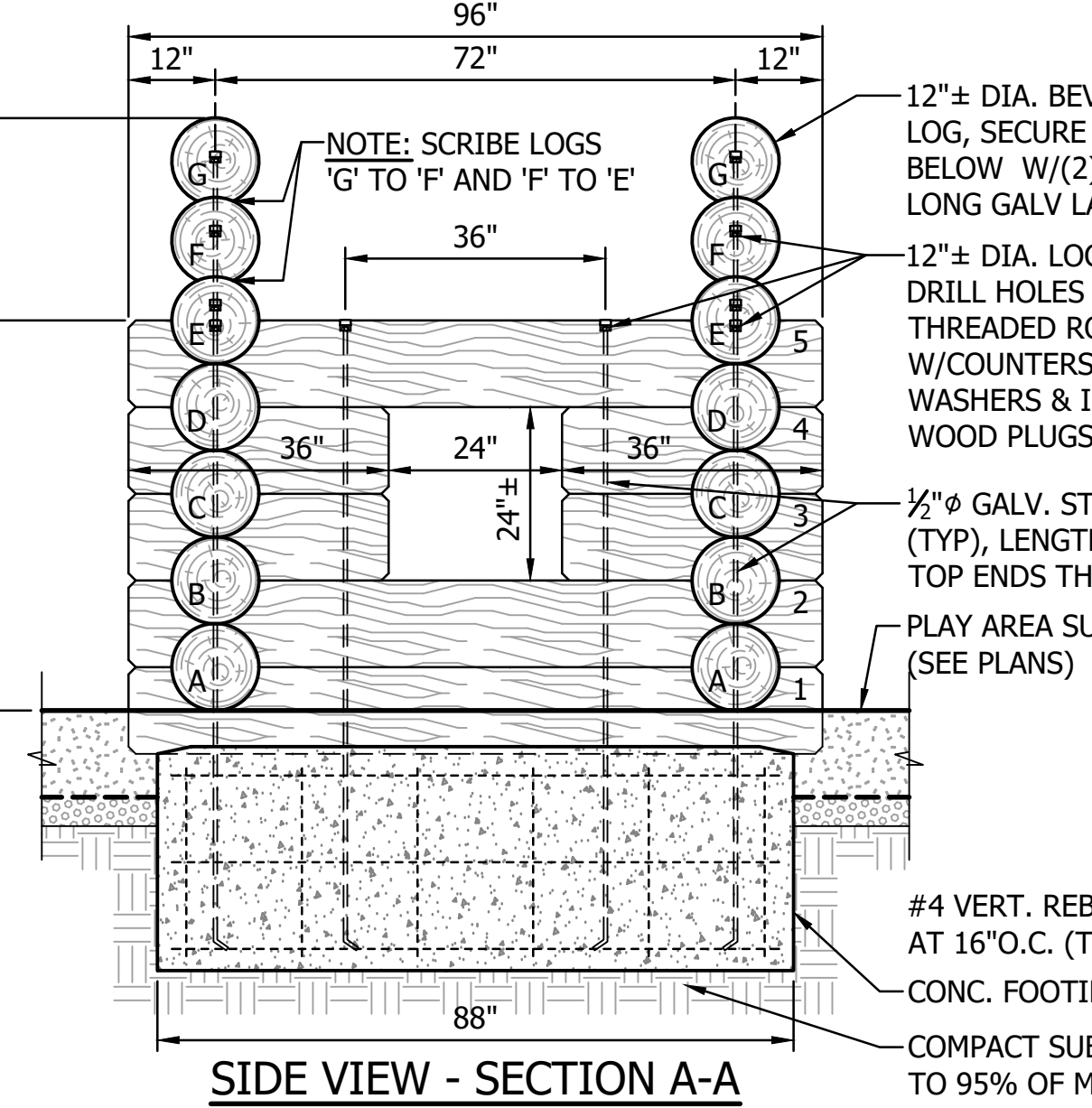
192 SAND AREA SURFACING
C5.19 1-1/2" = 1'-0" ON FULL SIZE (34"x22")



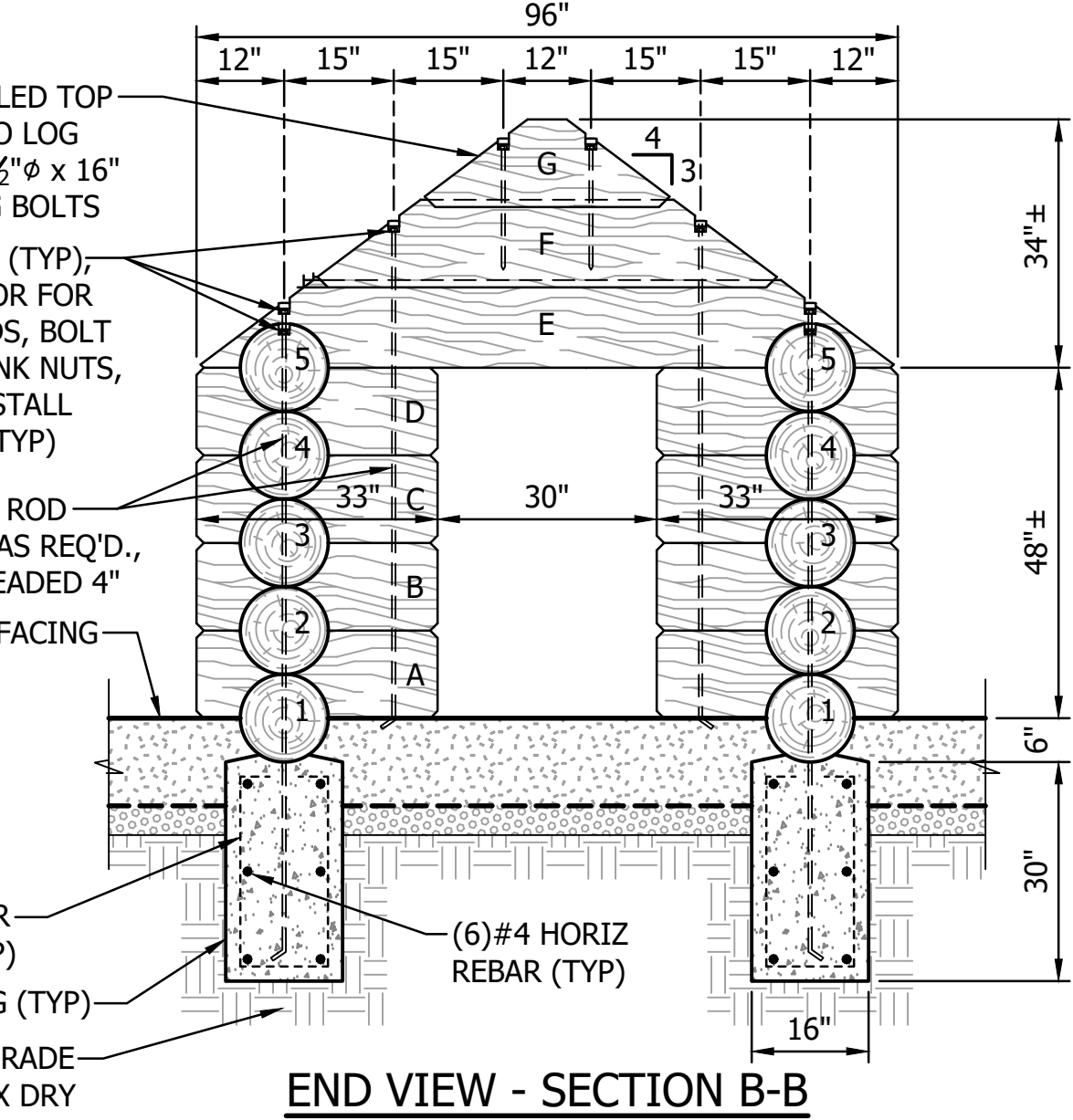
193 LOG EDGING DETAILS
C5.19 1" = 1'-0" ON FULL SIZE (34"x22")



PLAN VIEW

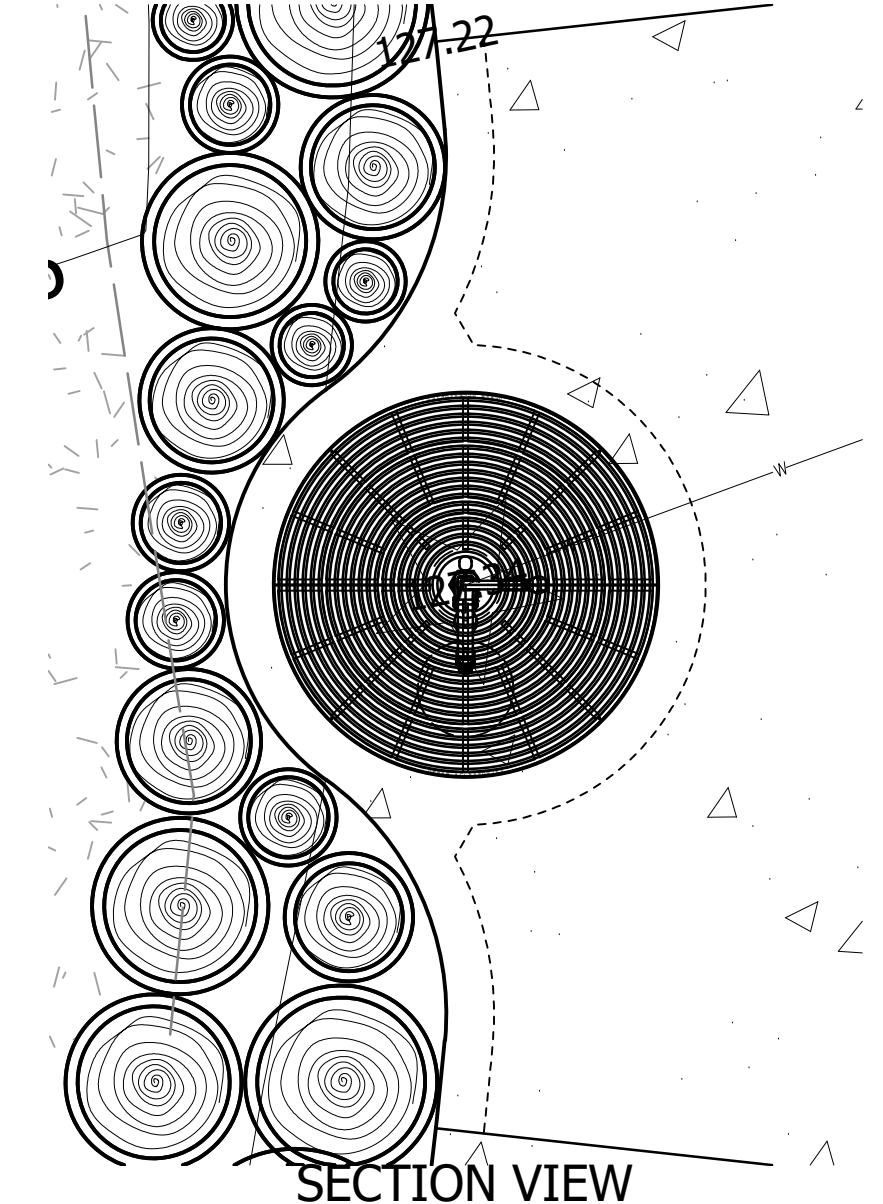


SIDE VIEW - SECTION A-A

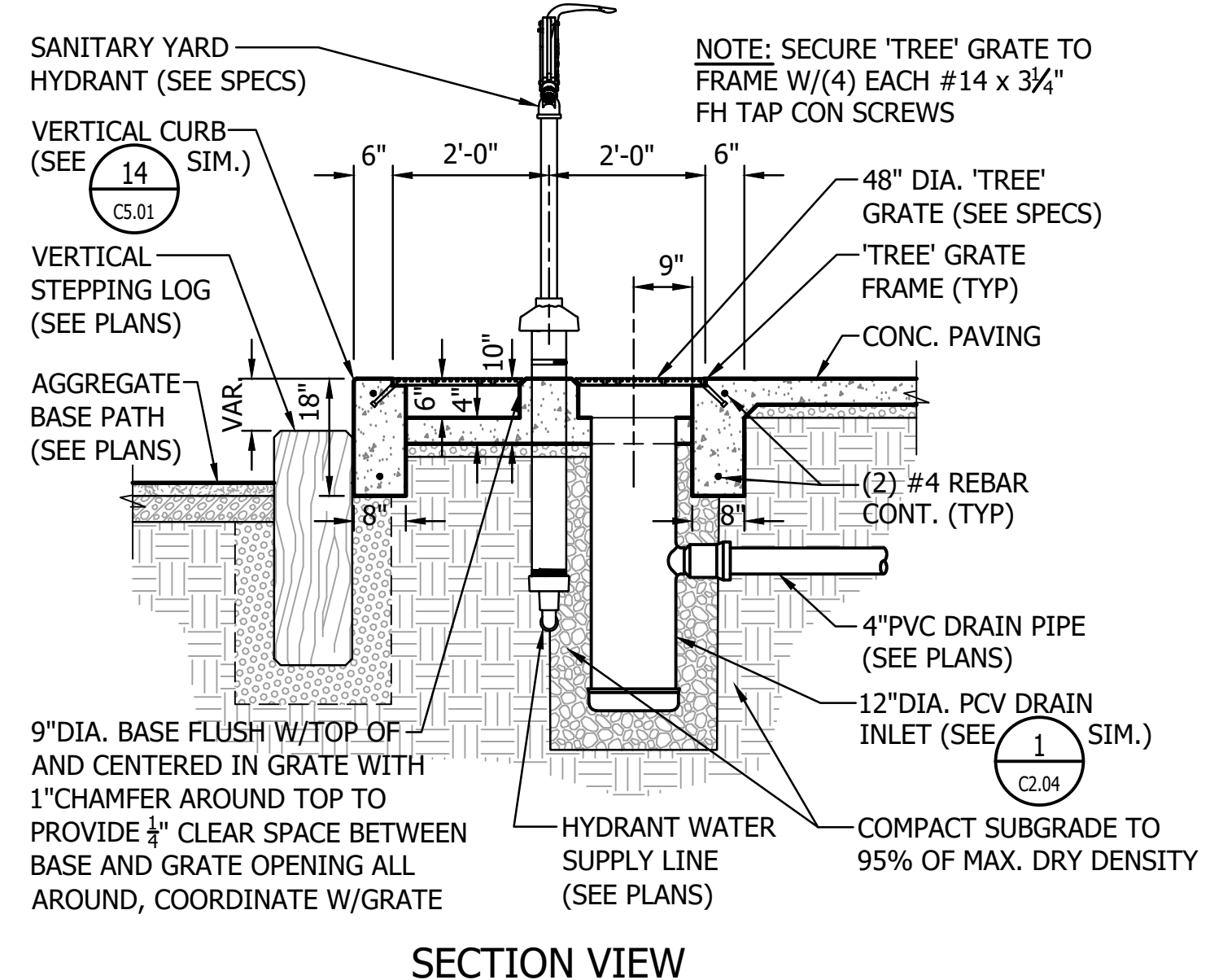


END VIEW - SECTION B-B

194 LOG 'CABIN' PLAY STRUCTURE DETAILS
C5.19 1/2" = 1'-0" ON FULL SIZE (34"x22")

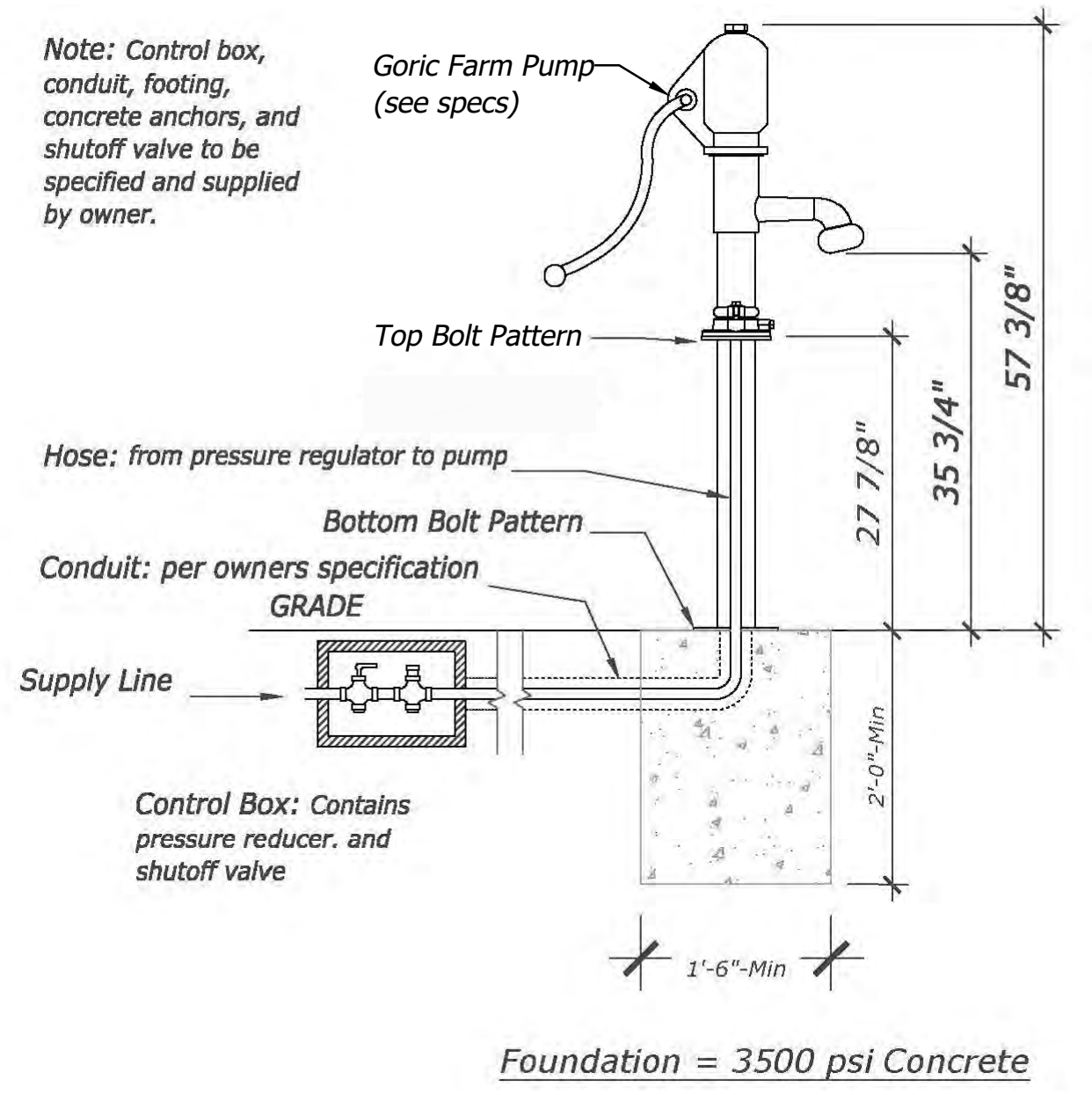


SECTION VIEW



SECTION VIEW

195 SANITARY YARD HYDRANT
C5.19 1/2" = 1'-0" ON FULL SIZE (34"x22")



196 'FARM PUMP' AT WATER FEATURE
C5.19 NOT TO SCALE



SHEET 66 OF 102
BID SET

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CHECKED (FIELD)		
CHECKED (HDQTS.)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

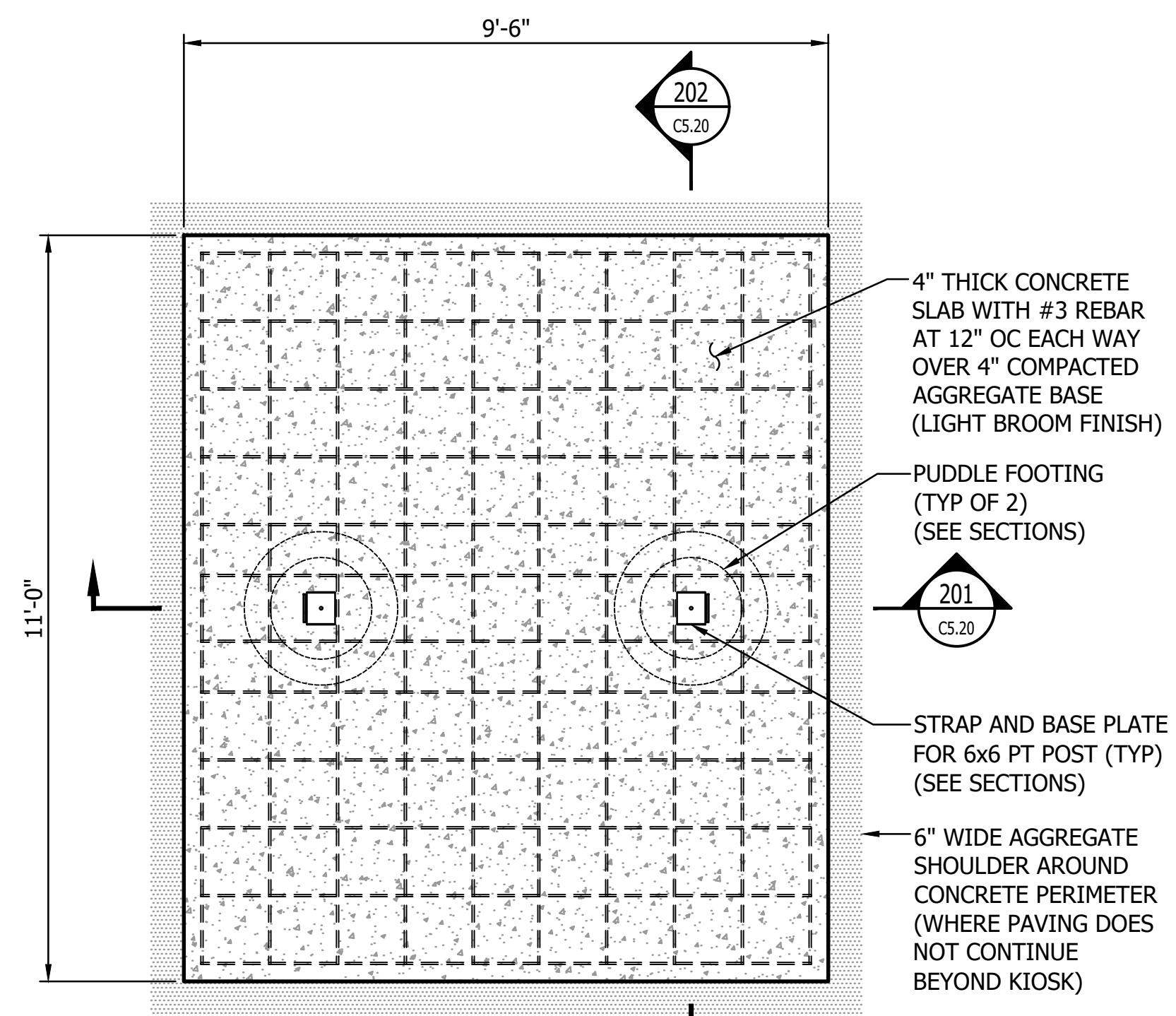
DAY USE DEVELOPMENT

SITE SECTIONS & DETAILS

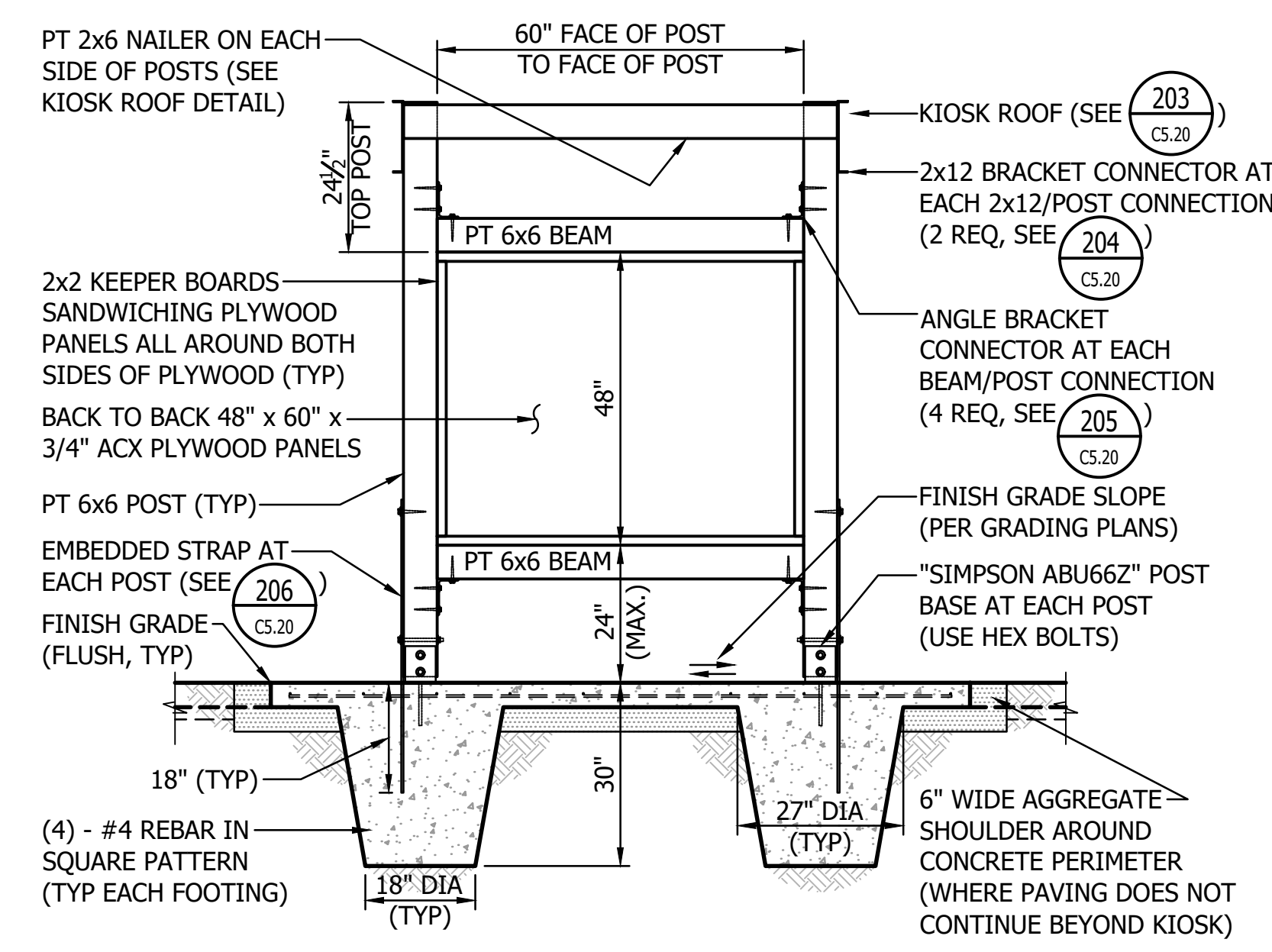
C5.20

SCALE AS NOTED

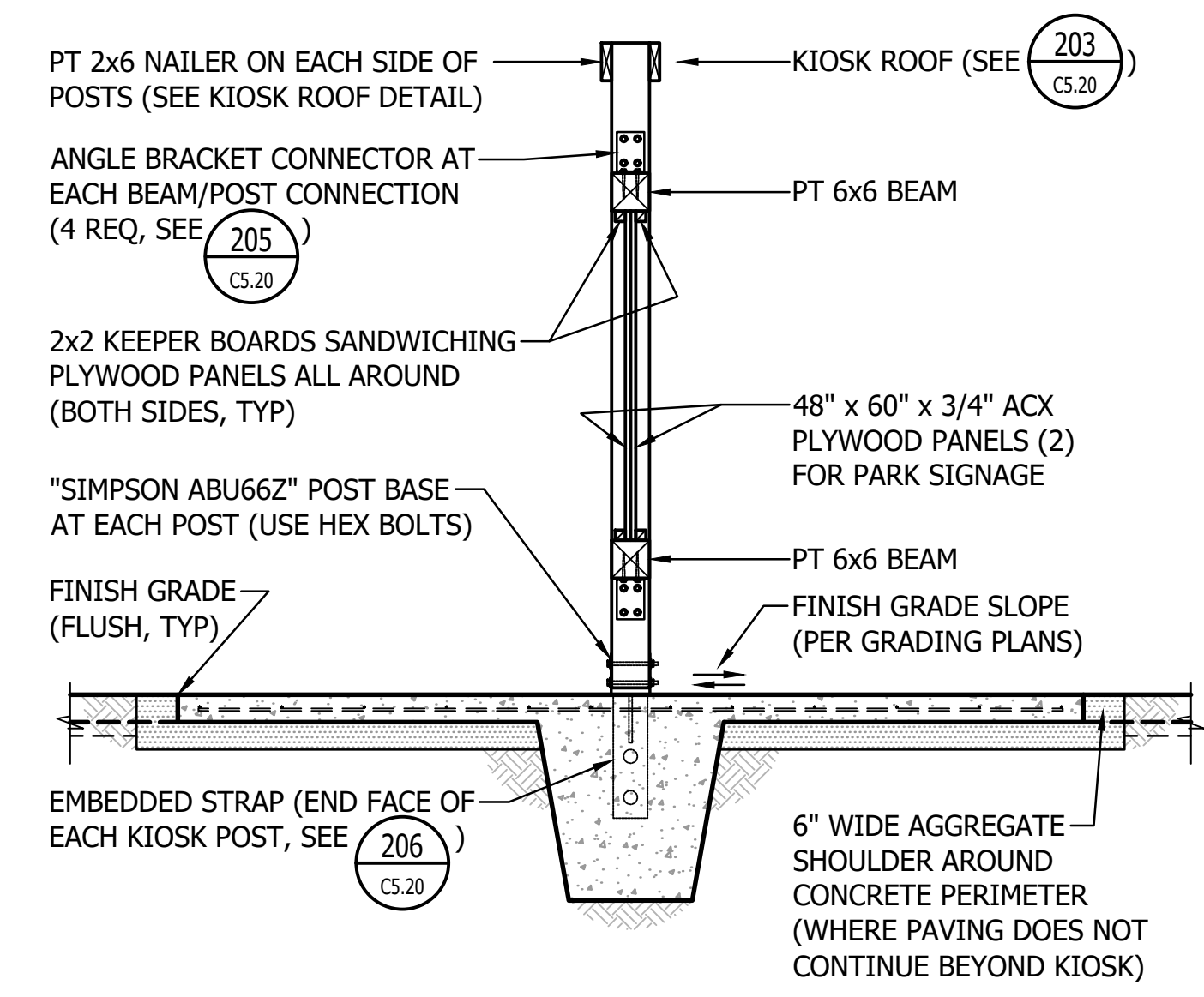
PARKS FILE#



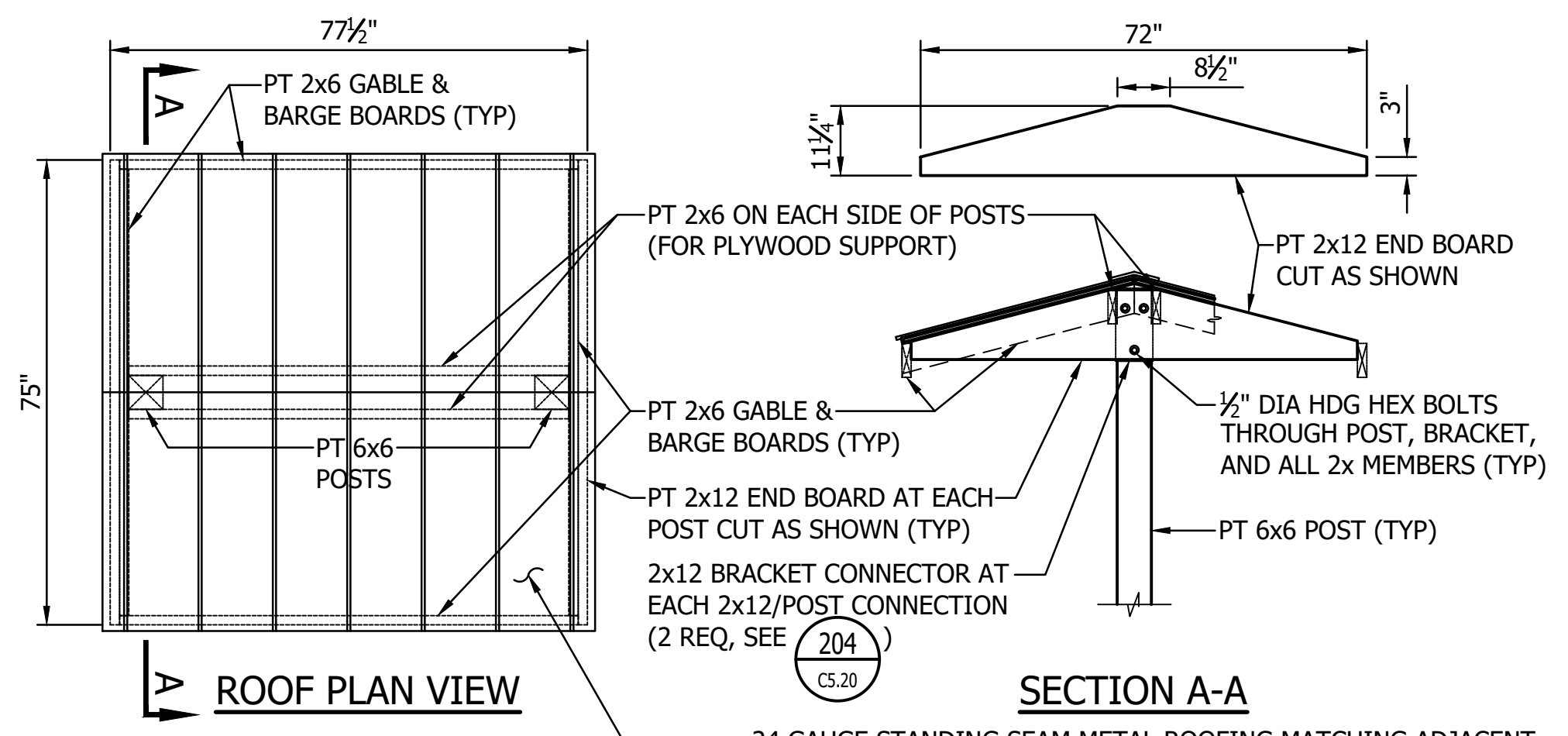
200 KIOSK SLAB PLAN VIEW
 C5.20 1/2" = 1'-0" ON FULL SIZE (34"x22")



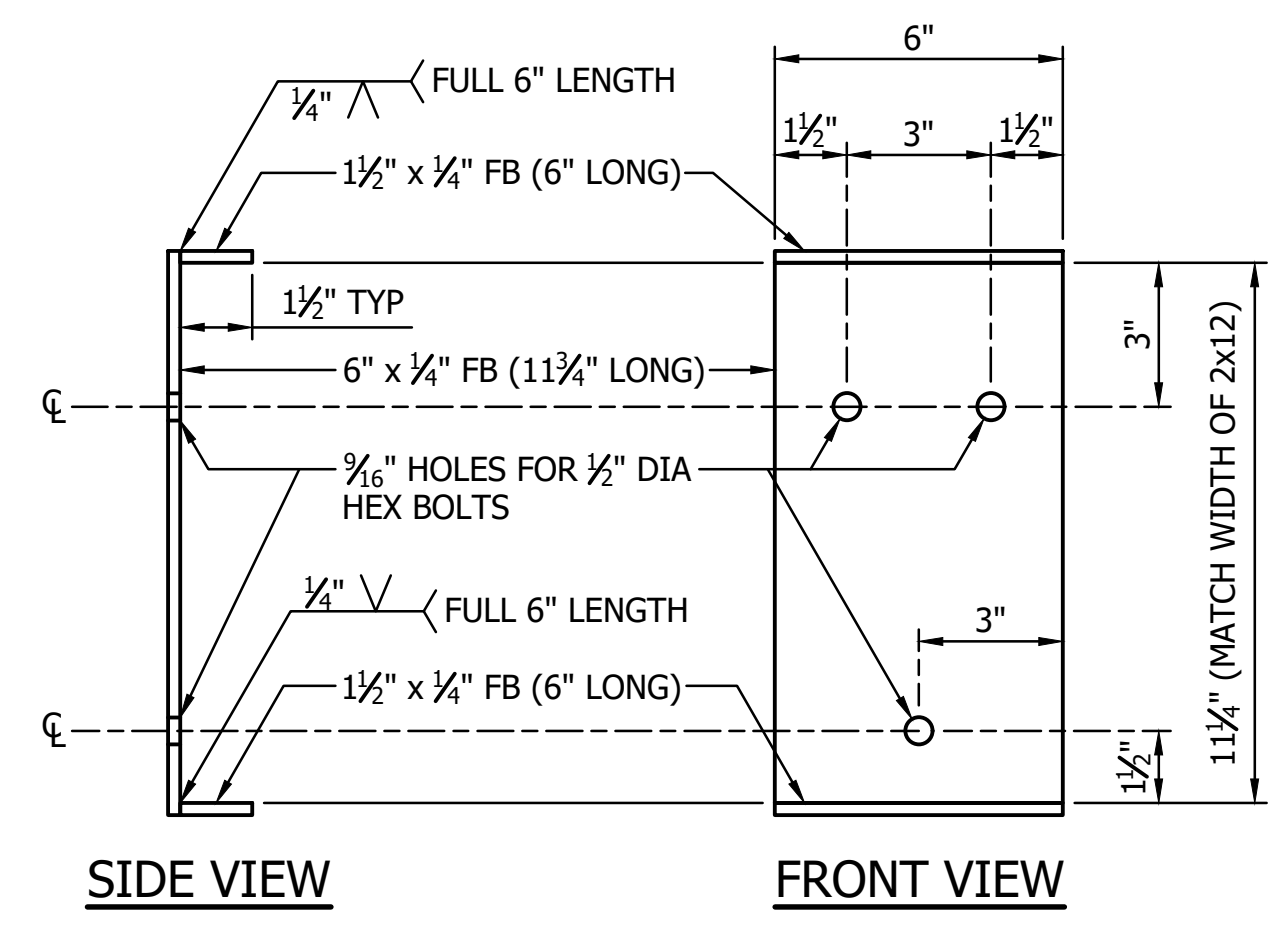
201 KIOSK & SLAB SECTION
 C5.20 1/2" = 1'-0" ON FULL SIZE (34"x22")



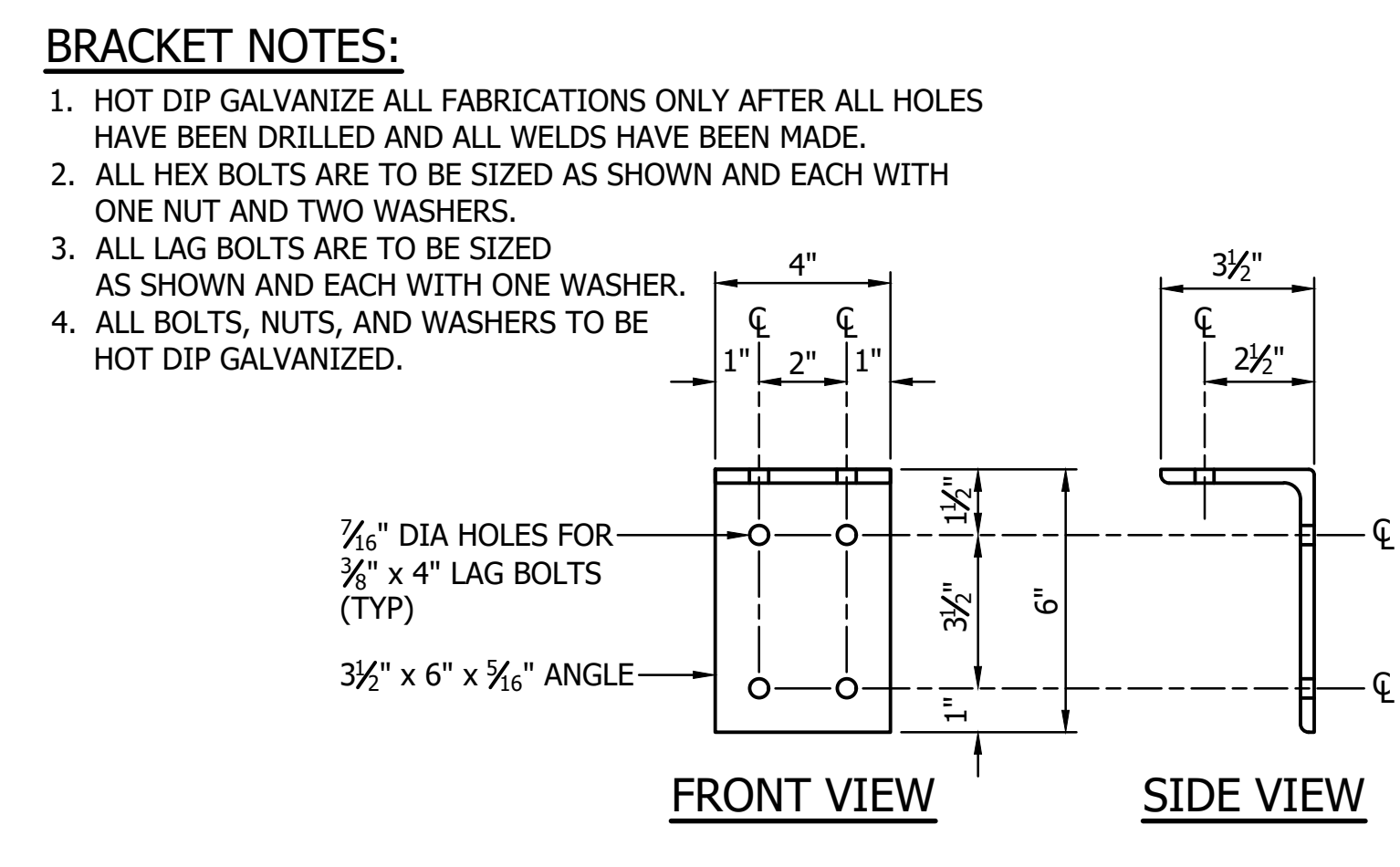
202 KIOSK & SLAB SECTION
 C5.20 1/2" = 1'-0" ON FULL SIZE (34"x22")



203 KIOSK ROOF DETAILS
 C5.20 1/2" = 1'-0" ON FULL SIZE (34"x22")



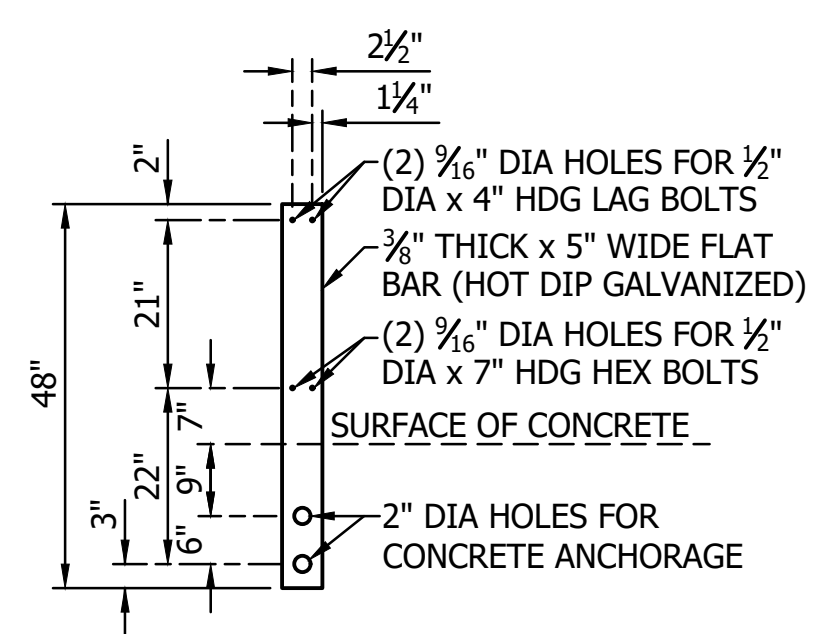
204 2x12 BRACKET (2 REQ'D.)
 C5.20 3" = 1'-0" ON FULL SIZE (34"x22")



205 ANGLE BRACKET (4 REQ'D.)
 C5.20 3" = 1'-0" ON FULL SIZE (34"x22")

BRACKET NOTES:

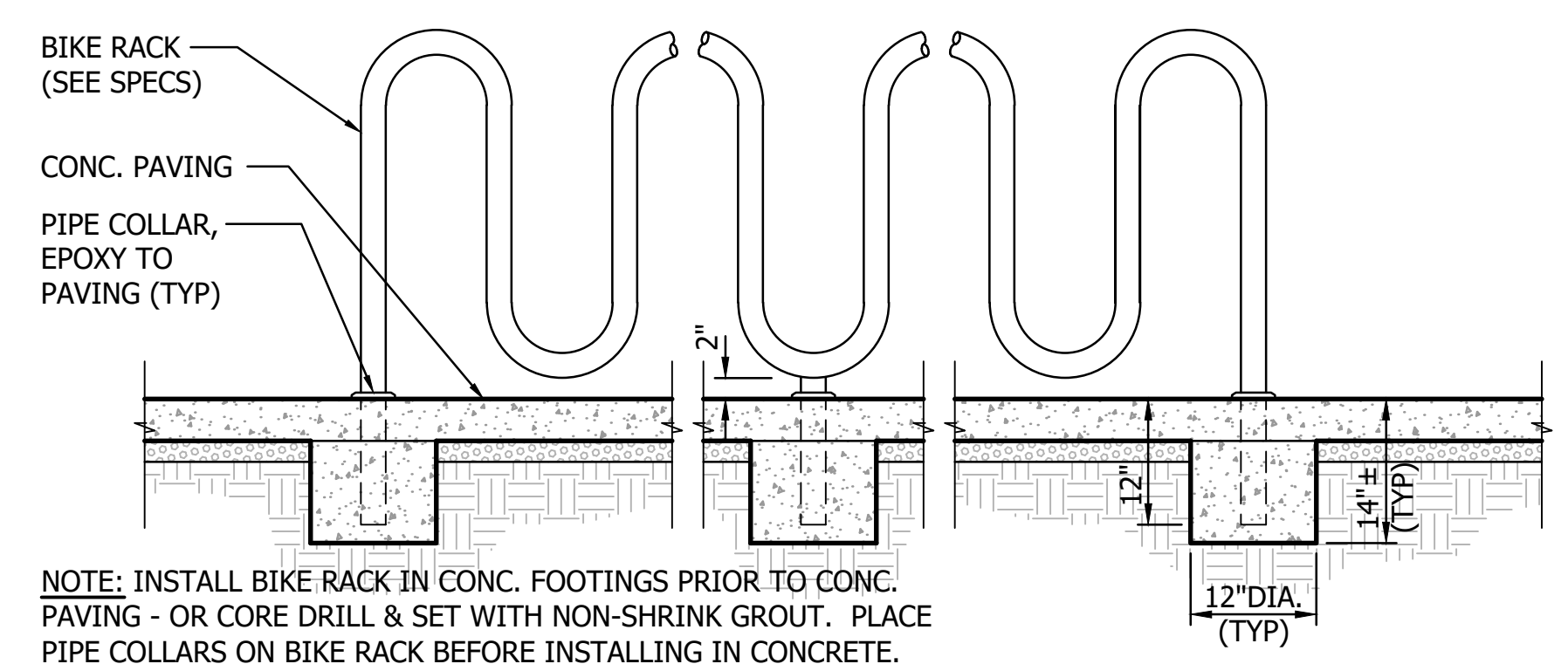
- HOT DIP GALVANIZE ALL FABRICATIONS ONLY AFTER ALL HOLES HAVE BEEN DRILLED AND ALL WELDS HAVE BEEN MADE.
- ALL HEX BOLTS ARE TO BE SIZED AS SHOWN AND EACH WITH ONE NUT AND TWO WASHERS.
- ALL LAG BOLTS ARE TO BE SIZED AS SHOWN AND EACH WITH ONE WASHER.
- ALL BOLTS, NUTS, AND WASHERS TO BE HOT DIP GALVANIZED.



206 STRAP DETAIL (2 REQ'D.)
 C5.20 1/2" = 1'-0" ON FULL SIZE (34"x22")

STRAP NOTES:

- HOT DIP GALVANIZE ALL FABRICATIONS ONLY AFTER ALL HOLES HAVE BEEN DRILLED AND ALL WELDS HAVE BEEN MADE.
- ALL HEX BOLTS ARE TO BE SIZED AS SHOWN AND EACH WITH ONE NUT AND TWO WASHERS.
- ALL LAG BOLTS ARE TO BE SIZED AS SHOWN AND EACH WITH ONE WASHER.
- ALL BOLTS, NUTS, AND WASHERS TO BE HOT DIP GALVANIZED.



207 BICYCLE RACK INSTALLATION
 C5.20 3/4" = 1'-0" ON FULL SIZE (34"x22")

NOTE: INSTALL BIKE RACK IN CONC. FOOTINGS PRIOR TO CONC. PAVING - OR CORE DRILL & SET WITH NON-SHRINK GROUT. PLACE PIPE COLLARS ON BIKE RACK BEFORE INSTALLING IN CONCRETE.



SHEET 67 OF 102
 BID SET

GENERAL NOTES

1. FAUX BOULDERS AND OUTCROPPING MOCK UP REQUIRED. SEE DETAILS AND WRITTEN SPECIFICATIONS.
2. REFER TO PLAY AREA PLAN ENLARGEMENT, DETAIL #160, SHEET C5.16 FOR SITE MATERIALS.
3. CONTRACTOR TO MARK BOULDER TOE LOCATION FOR OWNER REPRESENTATIVE'S REVIEW AND APPROVAL PRIOR TO PLACING REINFORCING BAR, CONCRETE, OR OTHER IMPROVEMENTS. SEE WRITTEN SPECIFICATIONS.
4. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNOLOGIES, SEQUENCES AND PROCEDURES.
5. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK THAT CONFORMS TO THE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) SAFETY AND HEALTH STANDARDS FOR THE CONSTRUCTION INDUSTRY, AND WITH OWNER.
6. WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.
7. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.
8. WHERE ANY DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.
9. ANY ENGINEERING DESIGN PROVIDED BY CONTRACTOR AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON.
10. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNERS REPRESENTATIVE BEFORE PROCEEDING WITH RELATED WORK.
11. VISITS TO THE JOBSITE BY THE OWNERS REPRESENTATIVE TO OBSERVE CONSTRUCTION DO NOT IN ANY WAY MEAN THAT THEY ARE THE GUARANTORS OF THE CONTRACTORS WORK, NOR SUPERVISION, NOR SAFETY AT THE JOBSITE.
12. REVIEW OF SHOP DRAWINGS BY THE OWNERS REPRESENTATIVE IS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS. REVIEW OF SUCH SHOP DRAWINGS BY THE OWNERS REPRESENTATIVE SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR CORRECTNESS OF DIMENSIONS, FABRICATION DETAILS, SPACE REQUIREMENTS, AND ERRORS IN THE SHOP DRAWINGS, OR FOR DEVIATIONS FROM THE CONTRACT DRAWINGS OR SPECIFICATIONS UNLESS THE CONTRACTOR HAS SPECIFICALLY CALLED ATTENTION TO SUCH DEVIATIONS IN WRITING BY A LETTER ACCOMPANYING THE SHOP DRAWINGS AND THE OWNERS REPRESENTATIVE APPROVES SUCH CHANGE OR DEVIATION IN WRITING.
13. REFER TO THE SPECIFICATIONS FOR ALL TESTING AND INSPECTION REQUIREMENTS.

FOUNDATION PREPARATION

1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS AND FOREIGN MATERIALS AS NECESSARY FOR PROPER SUBGRADE COMPACTION AND CONCRETE INSTALLATION.
2. DURING AND AFTER CONSTRUCTION, THE CONTRACTOR SHALL REMOVE ALL LOOSE DEBRIS FROM THE PROJECT SITE AND IS RESPONSIBLE FOR ITS PROPER, OFF-SITE DISPOSAL.
3. FOUNDATION PREPARATION REQUIRES APPROVAL BY THE OWNERS REPRESENTATIVE PRIOR TO PLACEMENT OF CONCRETE AND ANCHORS.

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

NO.	REVISIONS	INT.	APP.	DATE

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CHECKED (HDQTS.)		



PROJECT ENGINEER

WASHINGTON
STATE
PARKS
AND
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COMMISSION



**KOPACHUCK
STATE PARK**

**DAY USE
DEVELOPMENT**

**SITE SECTIONS &
DETAILS**

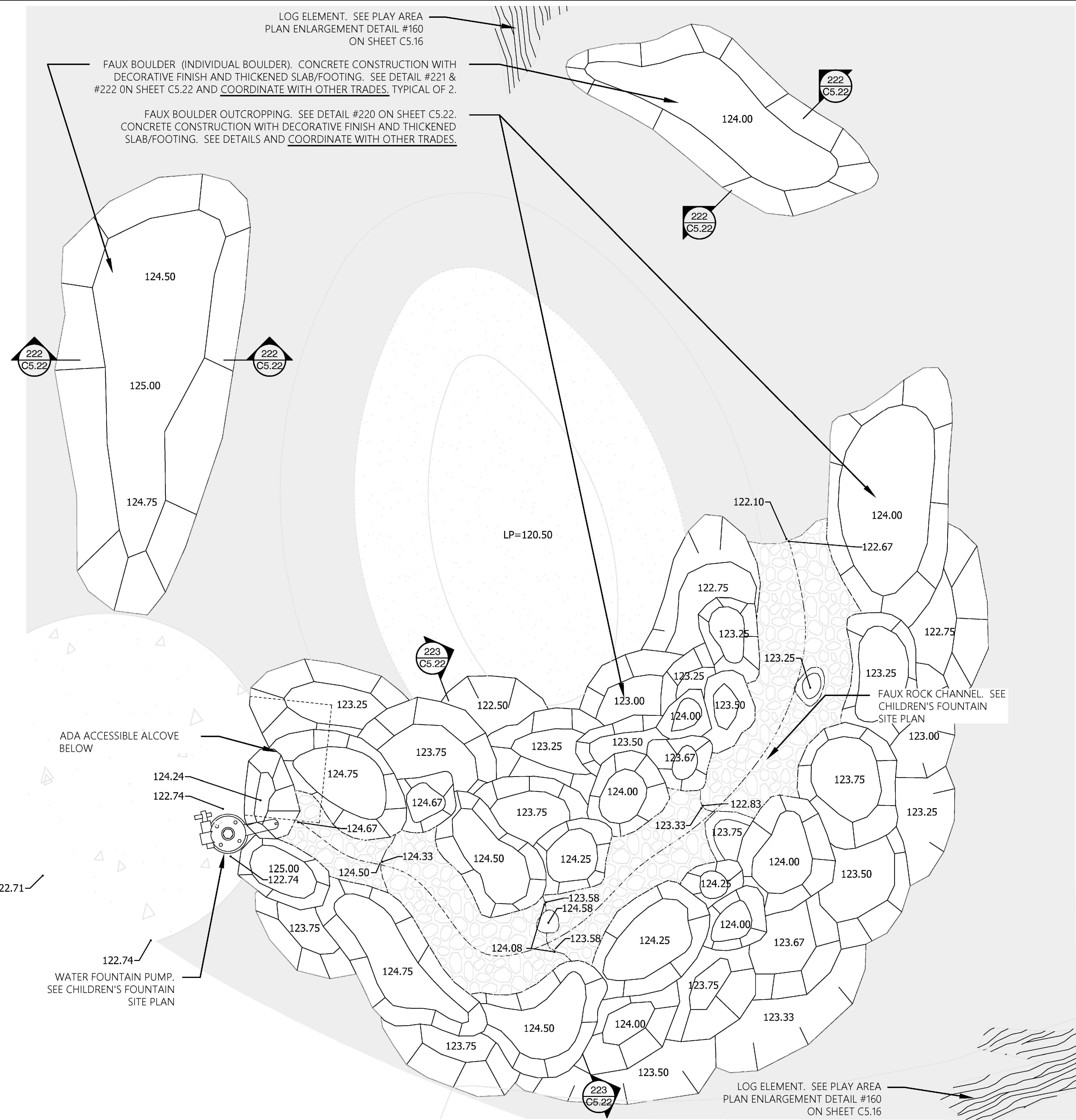
C5.21

SCALE
AS NOTED

PARKS FILE#

**LAND
EXPRESSIONS**
5615 E. DAY MT. SPOKANE RD. MEAD, WA 99021
P: 509.466.6683 W: LandExpressions.com

**SHEET 68 OF 102
BID SET**



210
C5.21 **PLAY AREA FAUX ROCK WATER FEATURE - PLAN VIEW**
1" = 1'-0" ON FULL SIZE (34"x22")
0 3" 6" 12"

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	APP.
	INT.
	REVISONS
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CHECKED (HDQTS.)		



WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

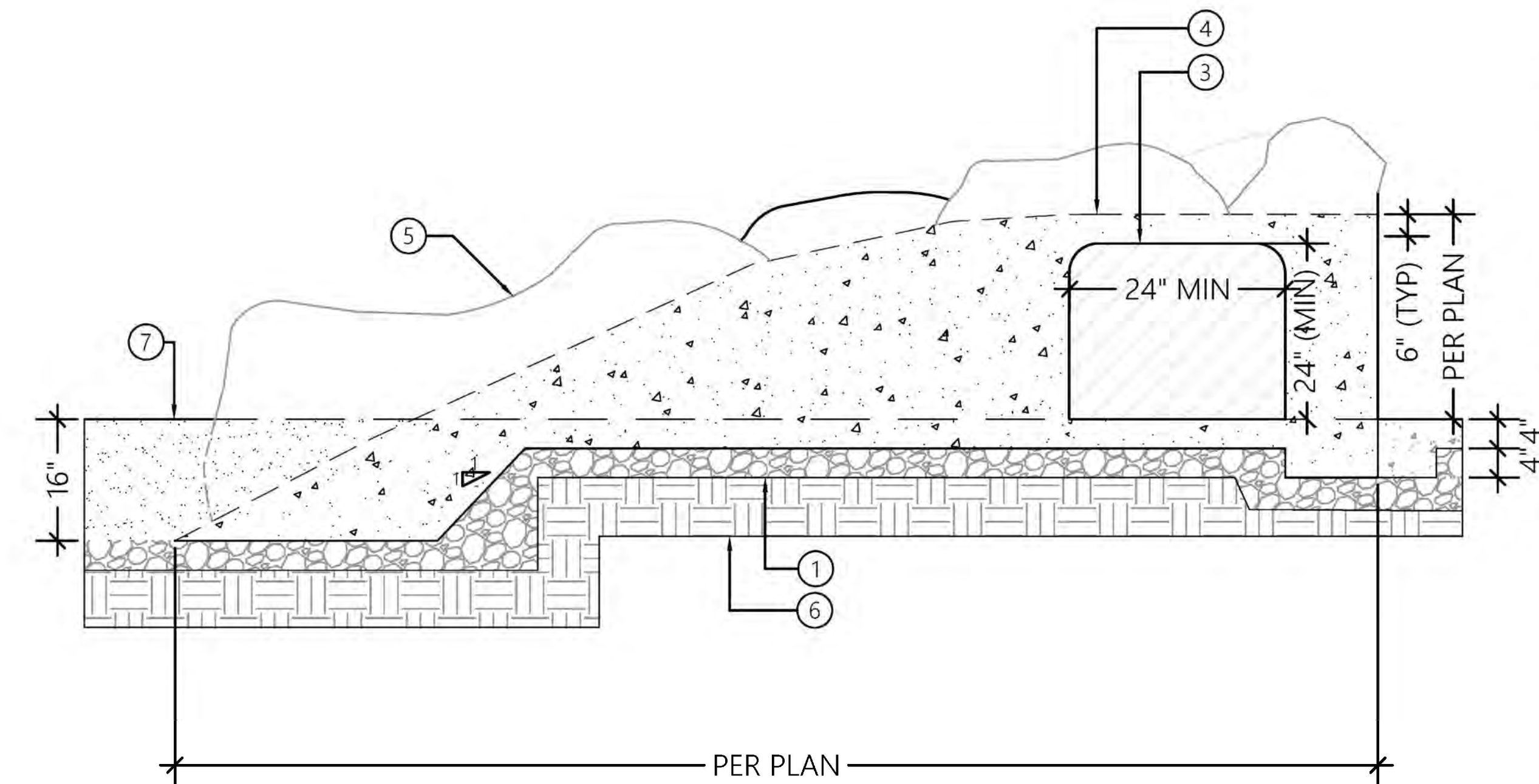
DAY USE DEVELOPMENT

SITE SECTIONS & DETAILS

C5.22

SCALE AS NOTED

PARKS FILE#

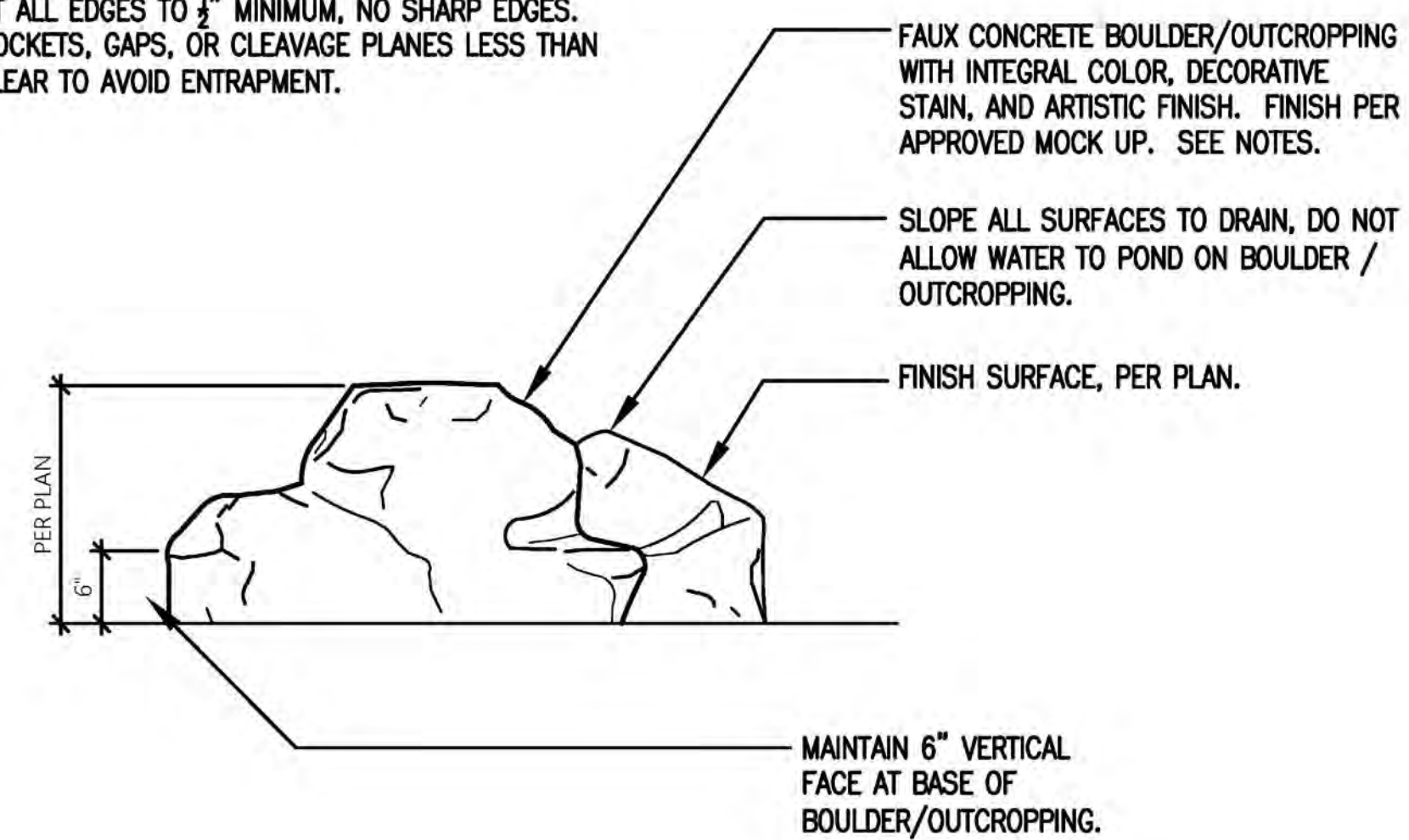


220 WATER FEATURE STREAM CHANNEL ELEVATION
3/4" = 1'-0"

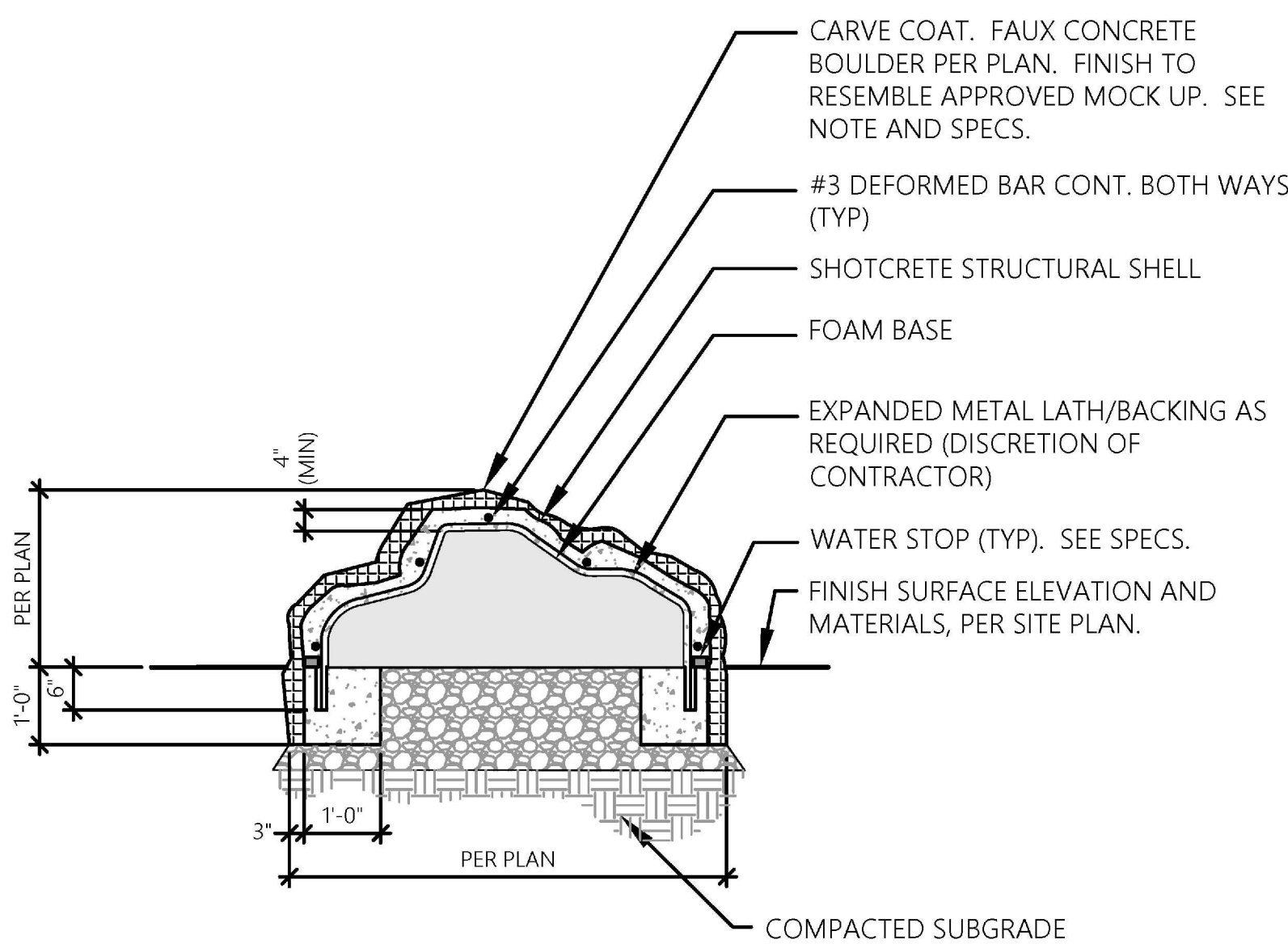
LE-SF-16

- 1 COMPACTED GRAVEL BASE.
- 2 ADA ACCESSIBLE ALCOVE - 24" ABOVE FINISH GRADE (MIN.) 28" FROM BOTTOM OF PRE-CAST UNIT. DEPTH & WIDTH PER PLANS.
- 3 TOP OF CHANNEL SURFACE, BEYOND BOULDER EDGE. SEE PLAN FOR CHANGES IN ELEVATION AND 'DROPS'.
- 4 FAUX ROCK PROFILE, BEYOND . SEE PLAN FOR ELEVATIONS (TYP).
- 5 COMPACTED SUBGRADE
- 6 MATERIALS AS DEFINED ON PLAN. WATER TO DRAIN FROM CHANNEL INTO LOOSE MATERIAL. COORDINATE MATERIAL DRAINAGE W/ CIVIL.

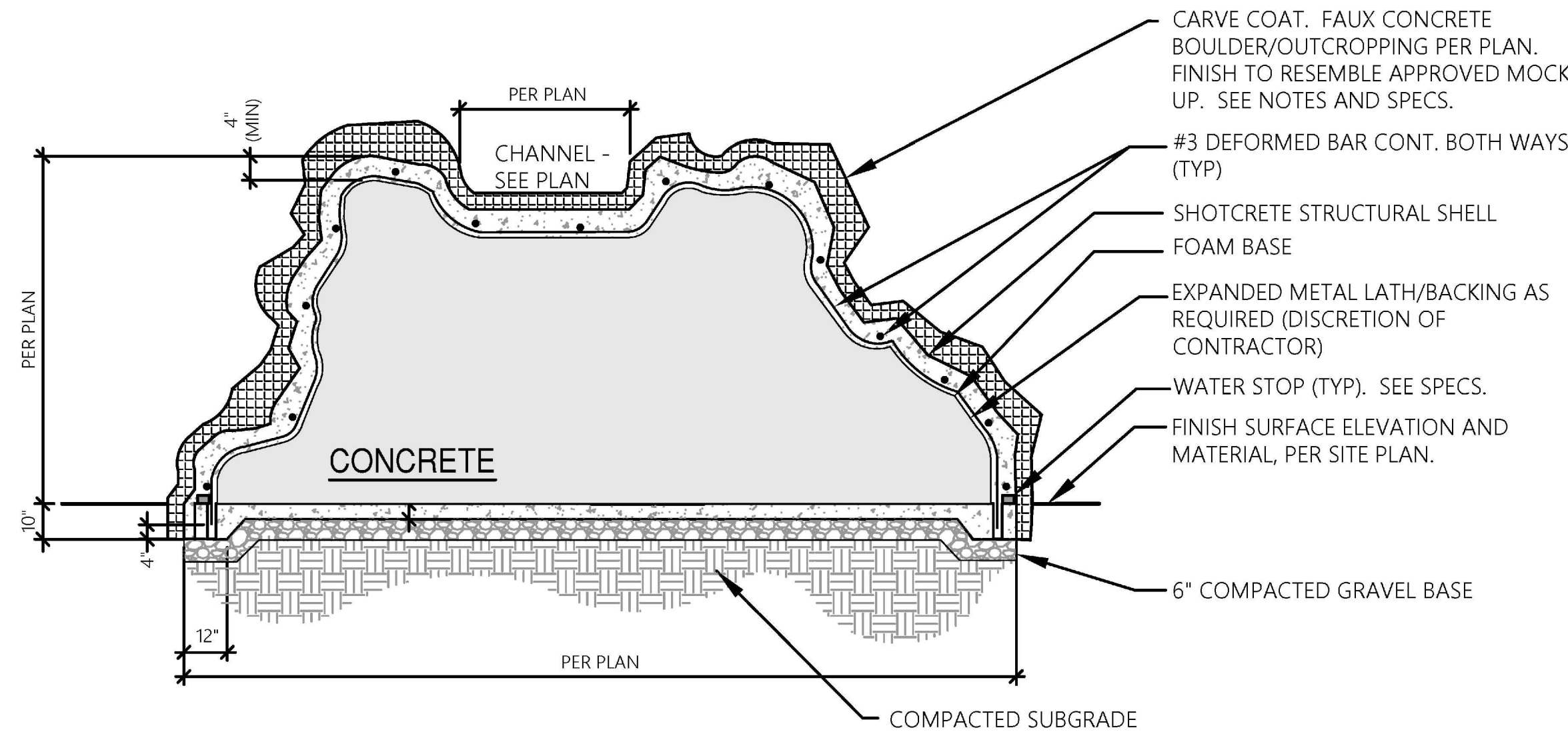
NOTES:
1. SEE WRITTEN CONCRETE SPECIFICATIONS FOR MINIMUM REQUIREMENTS INCLUDING MOCK UPS. FILLET ALL EDGES TO 1/4" MINIMUM, NO SHARP EDGES. NO POCKETS, GAPS, OR CLEAVAGE PLANES LESS THAN 4" CLEAR TO AVOID ENTRAPMENT.



221 SEPARATE BOULDER ELEVATION
NTS



222 SEPARATE BOULDER SECTION
NTS



223 TYPICAL FEATURE SECTION
NTS

CONCRETE

- CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 506.2 "SPECIFICATIONS FOR SHOTCRETE", ACI 301, "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE" AND ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE." ALL CONCRETE MIXES SHALL BE IN ACCORDANCE WITH ACI 211.5R.
- CONCRETE PROPERTIES:

CONCRETE USE	MINIMUM 28 DAY COMPRESSIVE STRENGTH	AIR ENTRAINMENT	W/C RATIO
DRY MIX	6,000 PSI	6% +/- 1%	0.40
WET MIX	5,000 PSI	6% +/- 1%	0.40
CAST IN PLACE	5,000 PSI	6% +/- 1%	0.40

- CONCRETE ADMIXTURES SHALL BE AS SHOWN IN THE MIX DESIGN TABLES FOUND IN THE SPECIFICATIONS MANUAL.
- REFER TO THE SPECIFICATIONS FOR COMPLETE DETAILS ON EACH PROCESS.
- THE CONTRACTOR MAY SELECT EITHER CAST IN PLACE, DRY AND/OR WET MIX DESIGN AND IS THEREFORE RESPONSIBLE TO COMPLY WITH ALL SPECIFICATIONS, REQUIREMENTS, AND SO FORTH FOR EACH OF THE SELECTED PROCESS(ES).

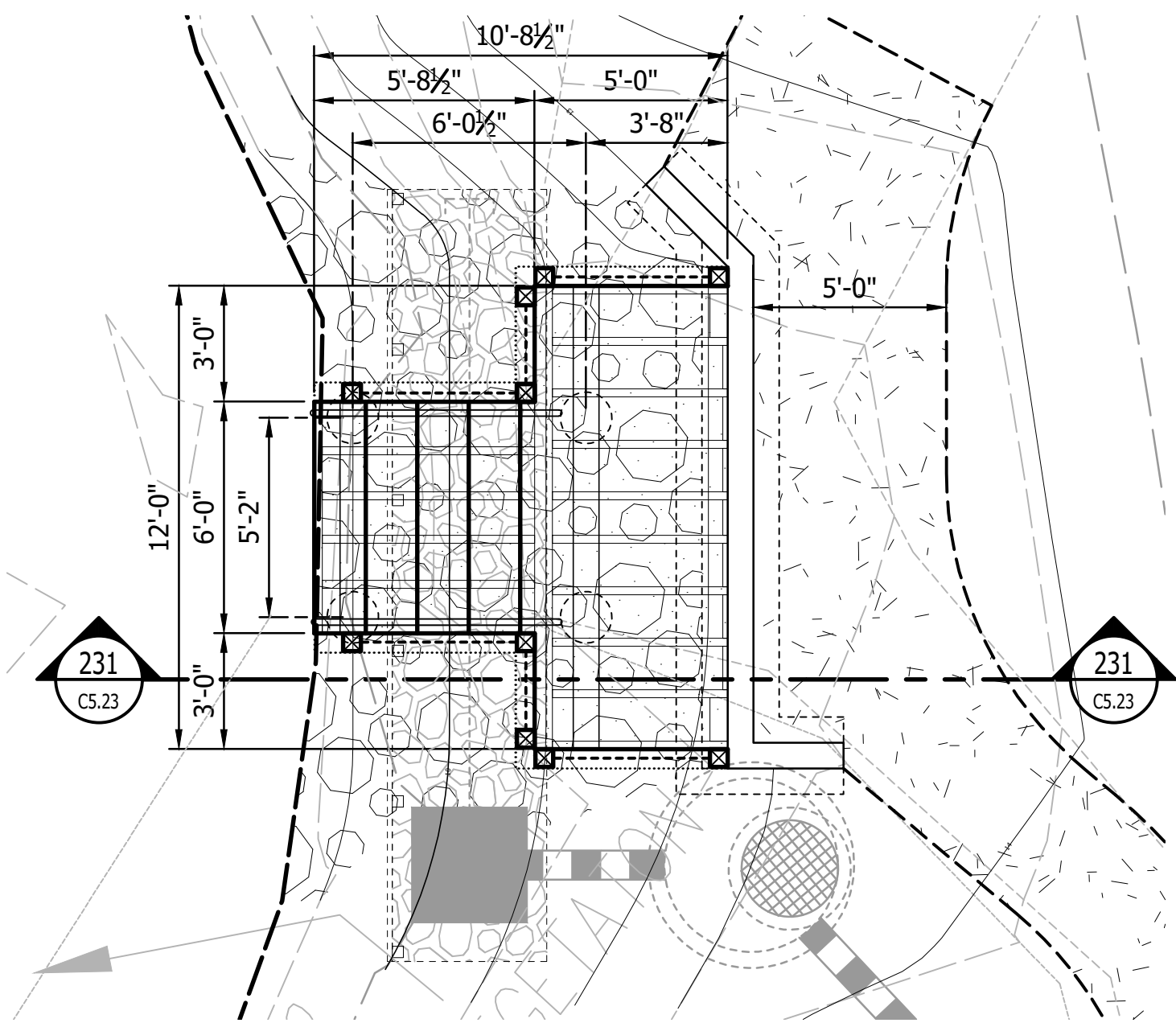
CONCRETE REINFORCING

- ALL REINFORCING STEEL SHALL BE WELDED WIRE MESH AND/OR GRADE 60 DEFORMED REINFORCING BARS AS DETAILED IN THE SPECIFICATIONS MANUAL. NO. 3 BARS MAY BE GRADE 40.
- THE FOLLOWING BAR SPLICE LAP LENGTHS SHALL BE USED AS A MINIMUM FOR ALL REINFORCING BARS UNLESS SHOWN OTHERWISE.

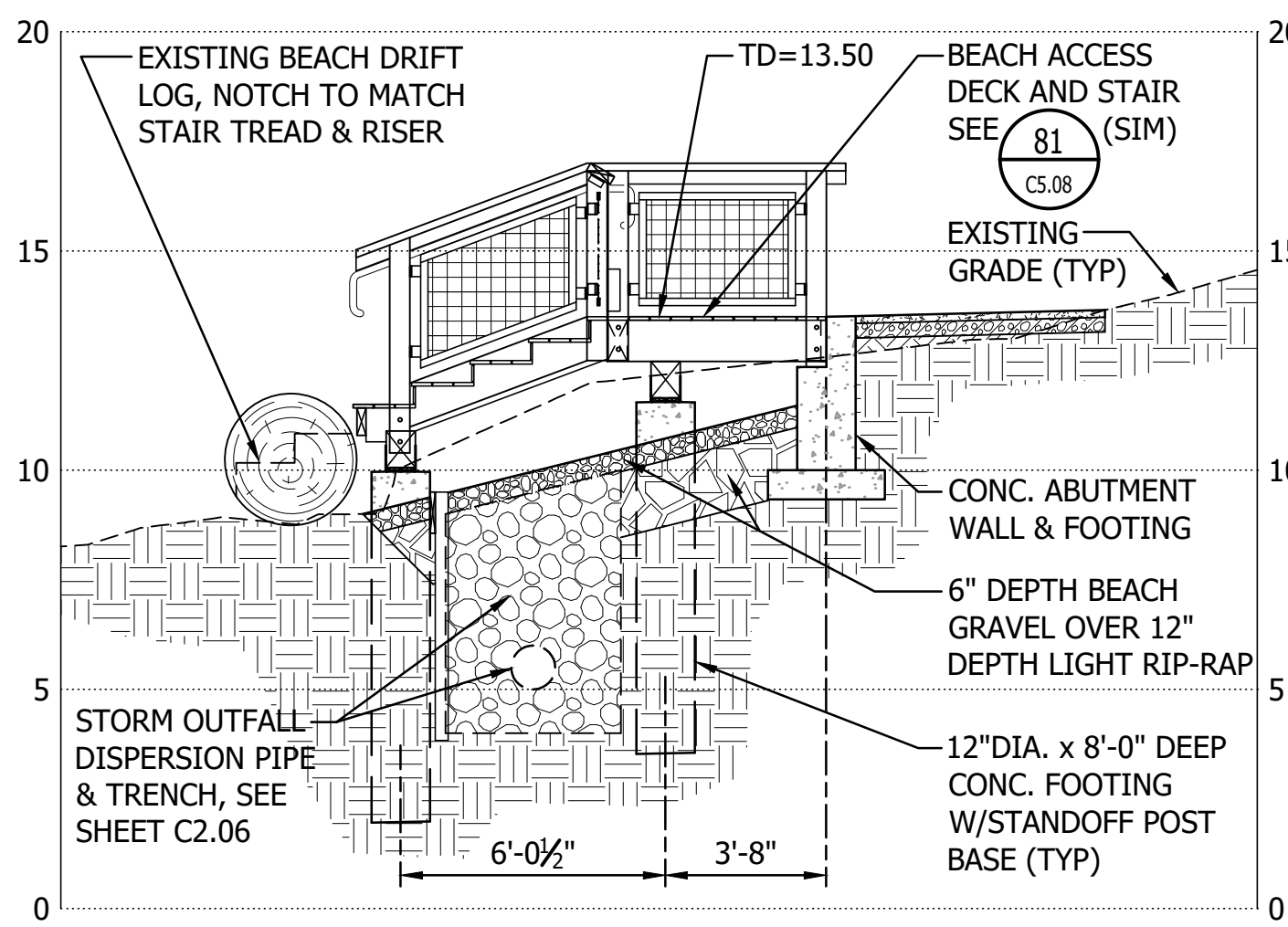
BAR SIZE	BAR SPLICE LAP LENGTH
NO. 3	1'-6"
NO. 4	2'-1"



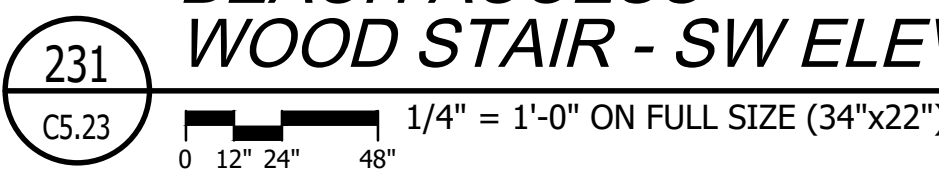
SHEET 69 OF 102
BID SET



**BEACH ACCESS
WOOD STAIR - PLAN VIEW**



**BEACH ACCESS
WOOD STAIR - SW ELEVATION**



CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

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WASHINGTON
STATE
PARKS
AND
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COMMISSION



KOPACHUCK
STATE PARK

DAY USE
DEVELOPMENT

SITE SECTIONS &
DETAILS

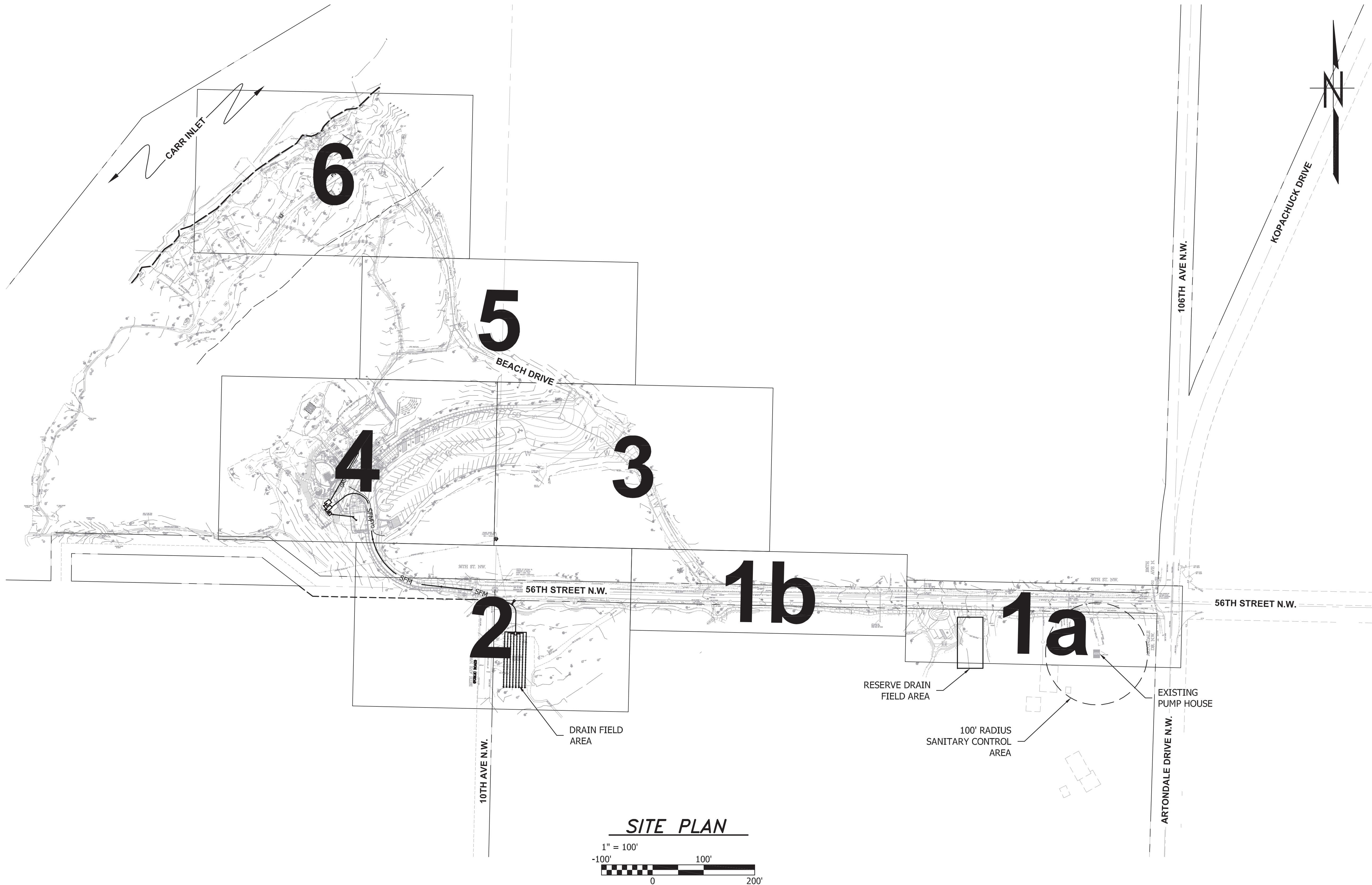
C5.23

SCALE
AS NOTED

PARKS FILE#



SHEET 70 OF 102
BID SET



SITE PLAN
 1" = 100'
 -100' 0 100' 200'

	DATE
	APP.
	INT.
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	NO.

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WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

KEY PLAN SEWER

C6.00

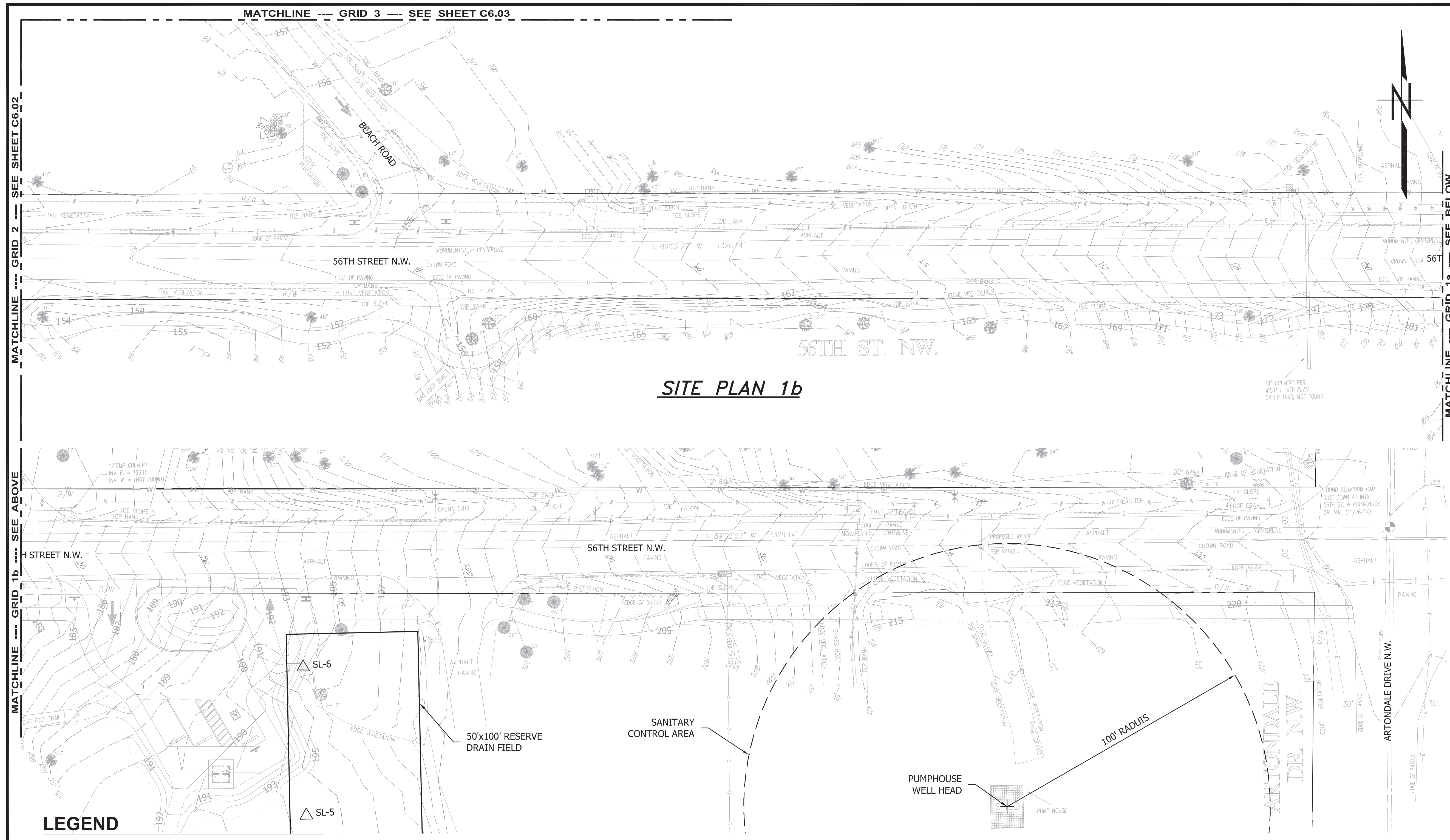
P | N | D
 ENGINEERS, INC.
 3240 Eastlake Avenue E
 Seattle, Washington 98102
 P: 206.624.1387
 www.pndengineers.com

SHEET 71 OF 102

BID SET

SCALE 1" = 100' @ 34"X22" (D)
 0 100 FEET

FILE NO. **P675-2**



MATCHLINE --- GRID 2 --- SEE SHEET C6.02

MATCHLINE --- GRID 1a --- SEE BELOW

MATCHLINE --- GRID 1b --- SEE ABOVE

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KOPACHUCK
STATE PARK

DAY USE
DEVELOPMENT

SEWER PLAN
GRID 1

C6.01

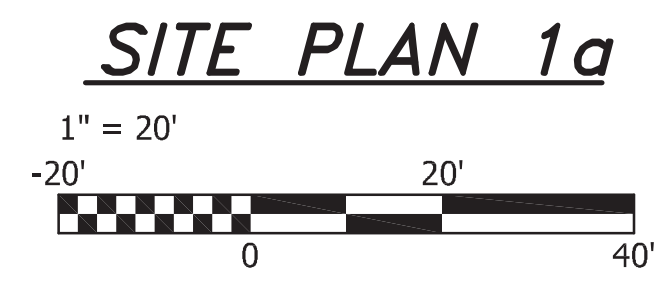
SCALE 1" = 20' @ 34"x22" (D)
0 20 FEET

FILE NO. P675-2

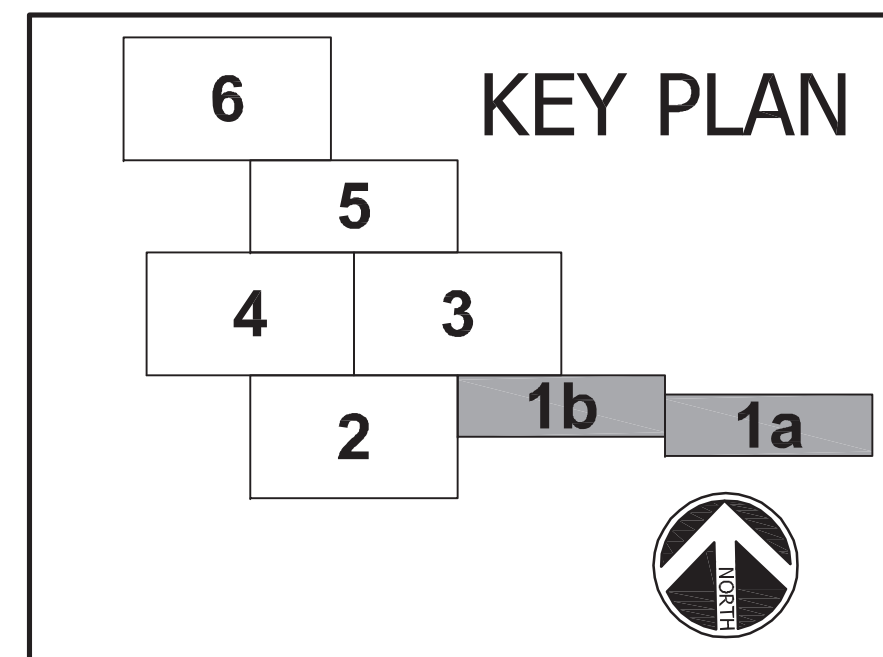
LEGEND

- SFM— SFM — NEW HDPE SEWER FORCE PIPE
- SS— SS — NEW PVC SANITARY SEWER PIPE
- W— W — NEW WATER PIPE
- UE— UE — NEW UNDERGROUND ELECTRICAL (SEE ELECTRICAL)
- SD— SD — NEW STORM PIPE (SEE LANDSCAPE)
- E— E — NEW ELECTRICAL (SEE ELECTRICAL)
- SS— SS — EXISTING SEWER PIPE
- UGT— UGT — EXISTING TELEPHONE
- W— W — EXISTING WATER PIPE
- UGE— UGE — EXISTING ELECTRICAL
- — — PIPE CROSSING
- SS— SS — SEWER CLEANOUT
- △ SL-# SOIL LOG TEST PIT

RESERVE DRAIN FIELD	
SOIL LOGS 5/17/2022 TPCHD	
SL5)	0-30 SL
	RL@24 Redox
SL6)	0-32 LFS
	32-36 FS
	36-43 MS
	RL@43 bottom



- RESERVE DRAIN FIELD NOTES**
- PRESSURE DISTRIBUTION
 - 0.6 GAL/FT²/DAY LOADING RATE
 - TREATMENT LEVEL B

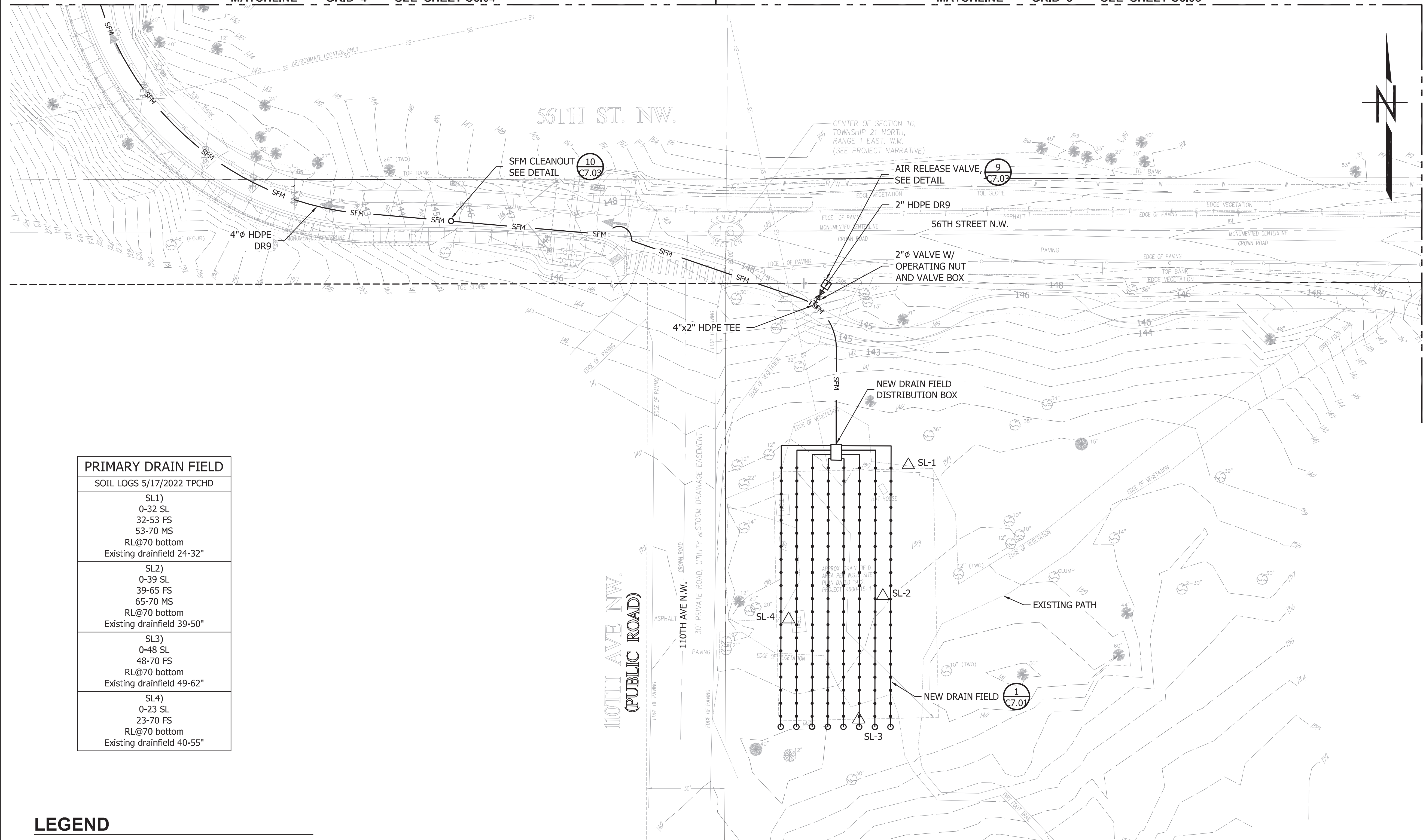


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3240 Eastlake Avenue E
Seattle, Washington 98102
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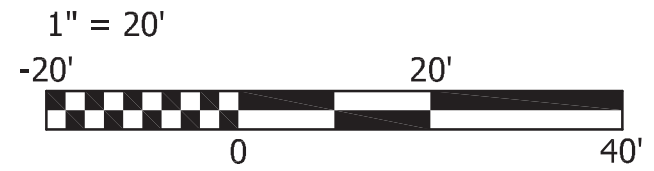


PRIMARY DRAIN FIELD	
SOIL LOGS 5/17/2022 TPCHD	
SL1)	0-32 SL 32-53 FS 53-70 MS RL@70 bottom Existing drainfield 24-32"
SL2)	0-39 SL 39-65 FS 65-70 MS RL@70 bottom Existing drainfield 39-50"
SL3)	0-48 SL 48-70 FS RL@70 bottom Existing drainfield 49-62"
SL4)	0-23 SL 23-70 FS RL@70 bottom Existing drainfield 40-55"

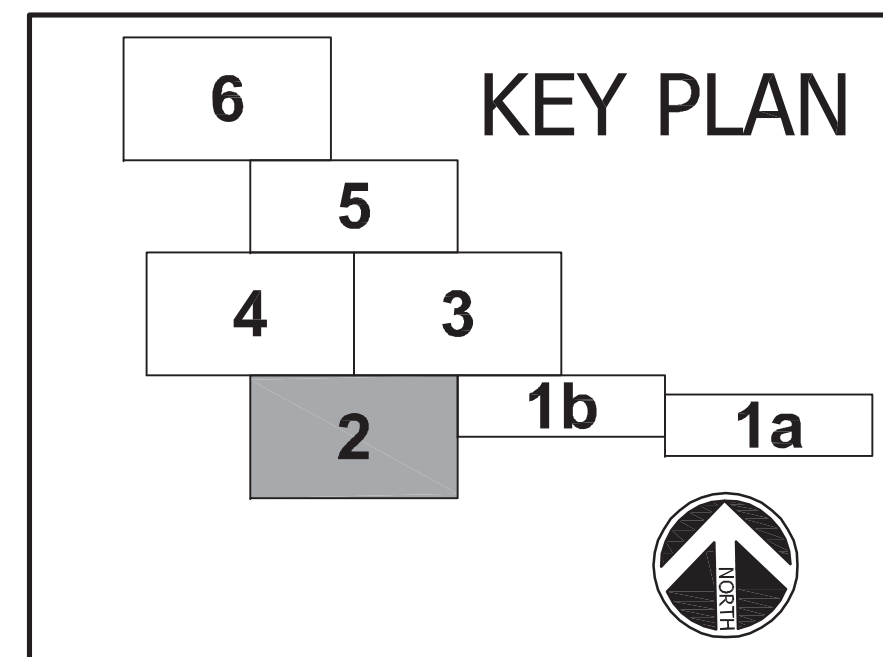
LEGEND

- SFM — SFM — NEW HDPE SEWER FORCE PIPE
- SS — SS — NEW PVC SANITARY SEWER PIPE
- W — W — NEW WATER PIPE
- UE — UE — NEW UNDERGROUND ELECTRICAL (SEE ELECTRICAL)
- SD — SD — NEW STORM PIPE (SEE LANDSCAPE)
- SS — SS — EXISTING SEWER PIPE
- UGT — UGT — EXISTING TELEPHONE
- W — W — EXISTING WATER PIPE
- UGE — UGE — EXISTING ELECTRICAL
- — — PIPE CROSSING
- SS — SEWER CLEANOUT
- △ SL-# — SOIL LOG TEST PIT

SITE PLAN 2



- PRIMARY DRAIN FIELD NOTES**
1. PRESSURE DISTRIBUTION
 2. 0.6 GAL/FT²/DAY LOADING RATE
 3. NO TREATMENT



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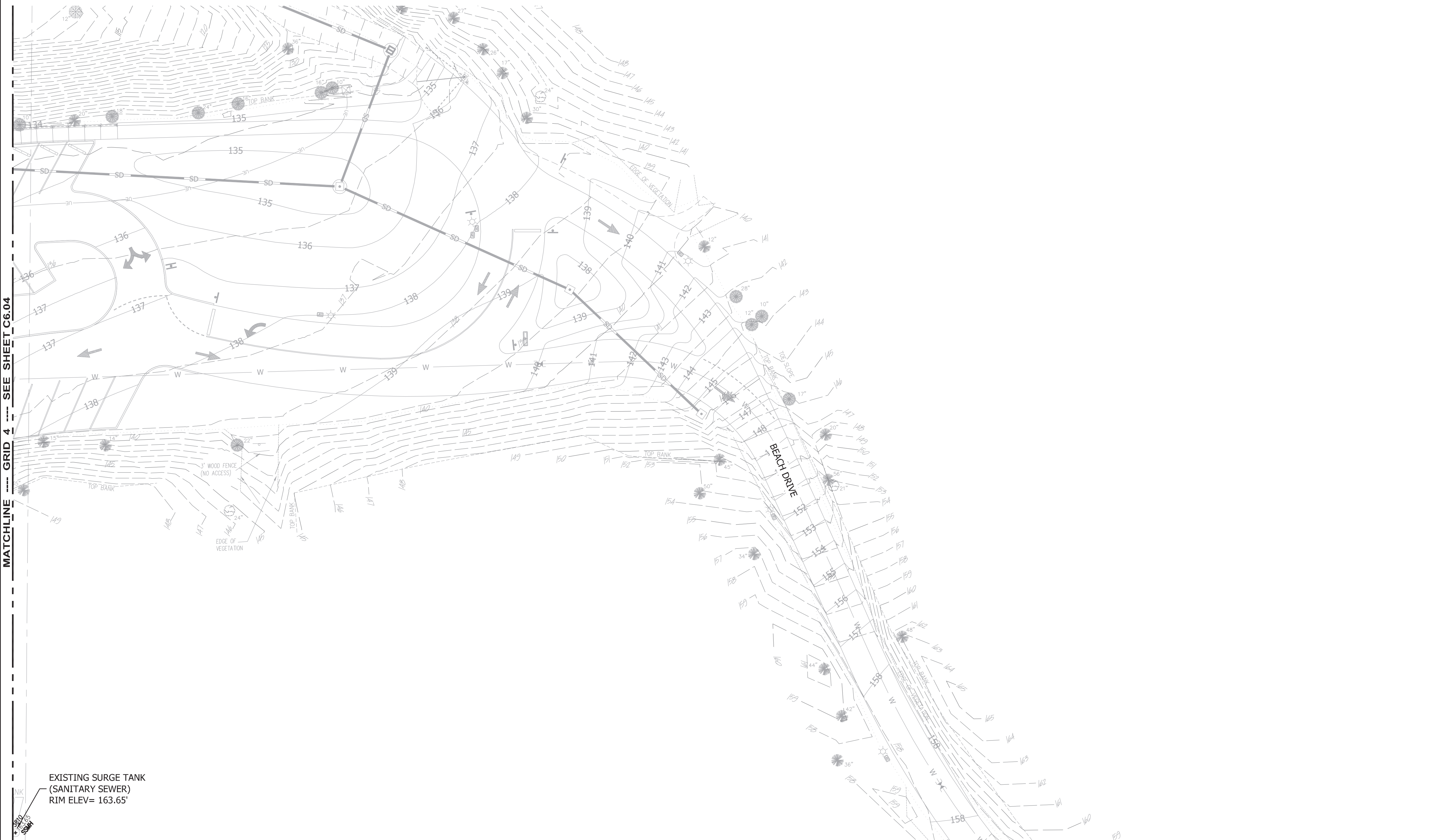
DAY USE DEVELOPMENT

SEWER PLAN GRID 2

C6.02

SCALE 1" = 20' @ 34"x22" (D)
0 20 FEET

FILE NO. **P675-2**



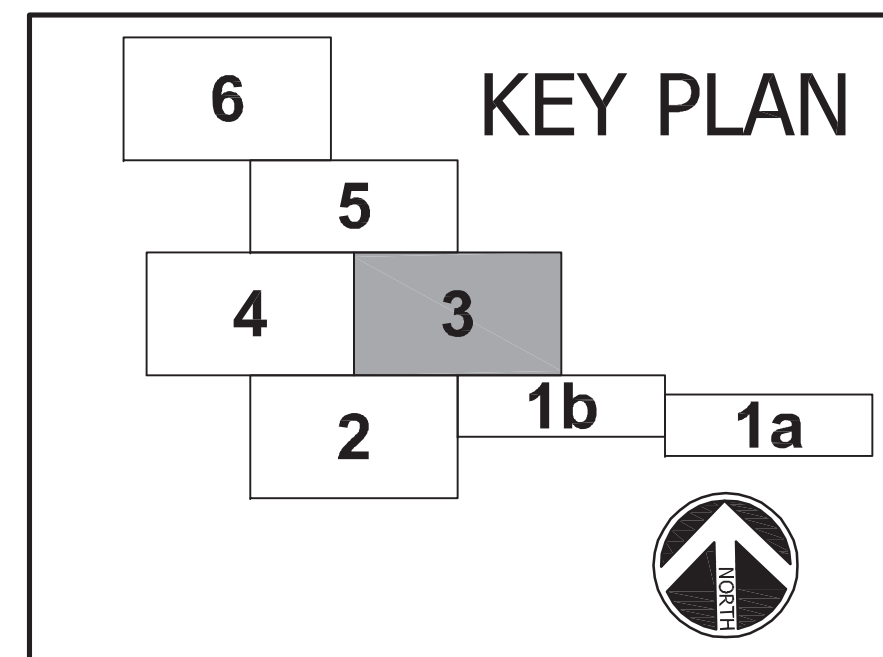
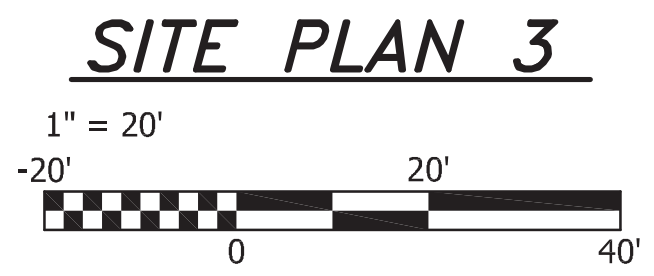
MATCHLINE --- GRID 4 --- SEE SHEET C6.04

MATCHLINE --- GRID 2 --- SEE SHEET C6.02

MATCHLINE --- GRID 1b --- SEE SHEET C6.01 (top)

LEGEND

- SFM — SFM — NEW HDPE SEWER FORCE PIPE
- SS — SS — NEW PVC SANITARY SEWER PIPE
- W — W — NEW WATER PIPE
- UE — UE — NEW UNDERGROUND ELECTRICAL (SEE ELECTRICAL)
- SD — SD — NEW STORM PIPE (SEE LANDSCAPE)
- SS --- SS --- EXISTING SEWER PIPE
- UGT --- UGT --- EXISTING TELEPHONE
- W --- W --- EXISTING WATER PIPE
- UGE --- UGE --- EXISTING ELECTRICAL
- — — PIPE CROSSING
- SS — SEWER CLEANOUT



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DAY USE
DEVELOPMENT

SEWER PLAN
GRID 3

C6.03

SCALE 1" = 20' @ 34"X22" (D)
0 20 FEET

FILE NO. **P675-2**

	DATE
	APP.
	INT.
	REVISIONS
	NO.

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DAY USE DEVELOPMENT

SEWER PLAN GRID 4

C6.04

SCALE 1" = 20' @ 34"X22" (D)
0 20 FEET

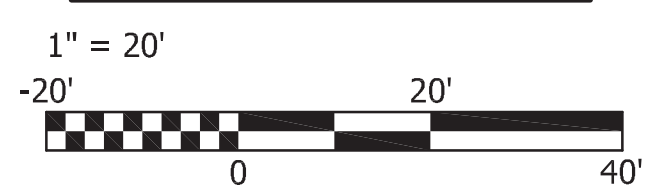
FILE NO. P675-2



LEGEND

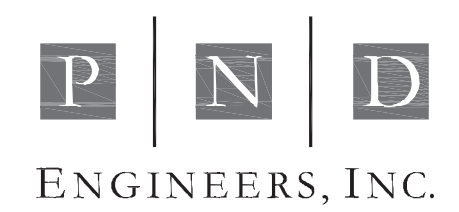
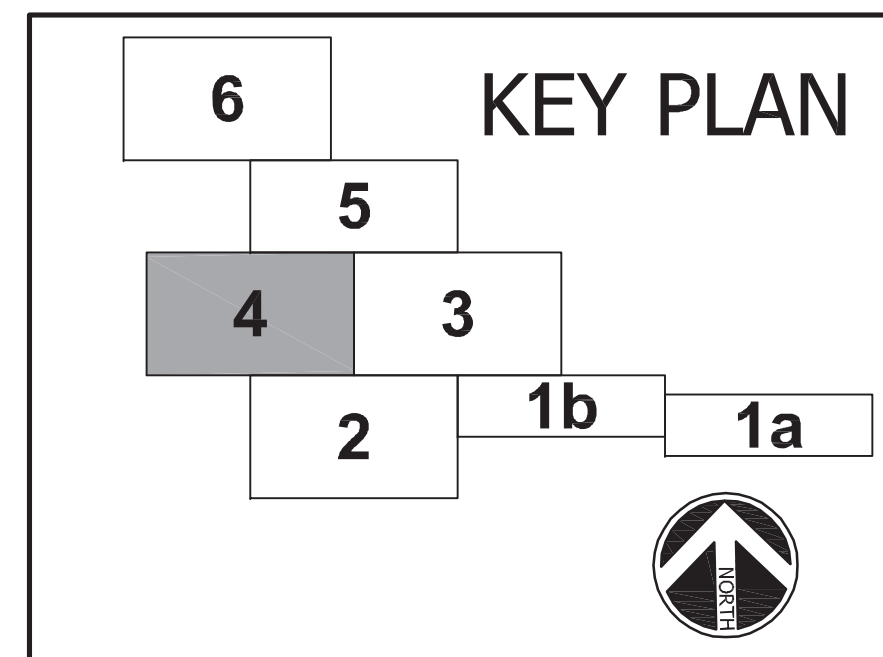
- SFM— —SFM— NEW HDPE SEWER FORCE PIPE
- SS— —SS— NEW PVC SANITARY SEWER PIPE
- W— —W— NEW WATER PIPE
- UE— —UE— NEW UNDERGROUND ELECTRICAL (SEE ELECTRICAL)
- SD— —SD— NEW STORM PIPE (SEE LANDSCAPE)
- SS--- ---SS--- EXISTING SEWER PIPE
- UGT--- ---UGT--- EXISTING TELEPHONE
- W--- ---W--- EXISTING WATER PIPE
- UGE--- ---UGE--- EXISTING ELECTRICAL
- — PIPE CROSSING
- SS— SEWER CLEANOUT

SITE PLAN 4



MATCHLINE --- GRID 2 --- SEE SHEET C6.02

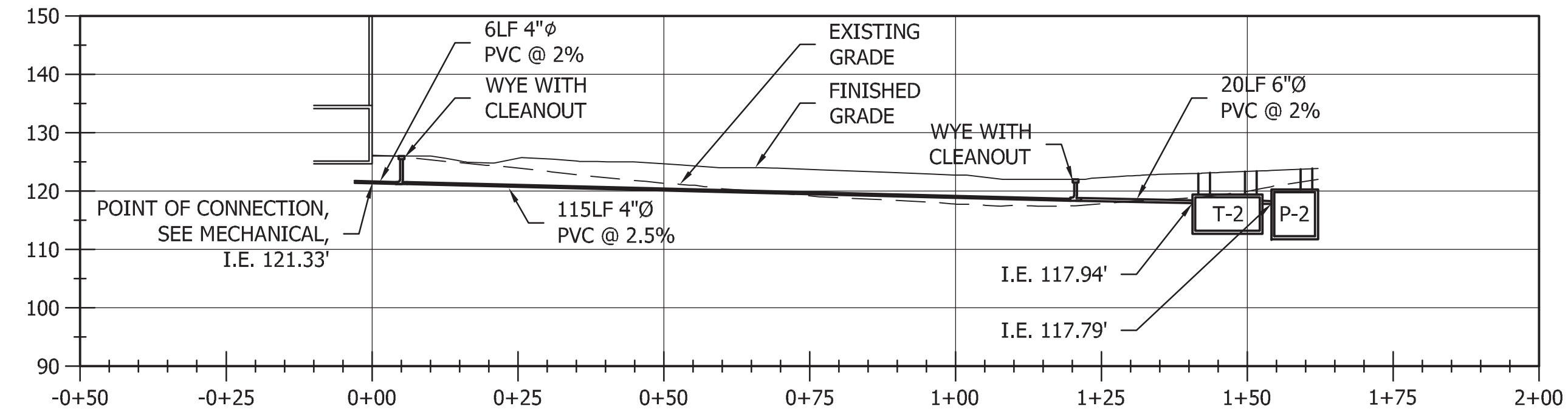
MATCHLINE --- GRID 3 --- SEE SHEET C6.03



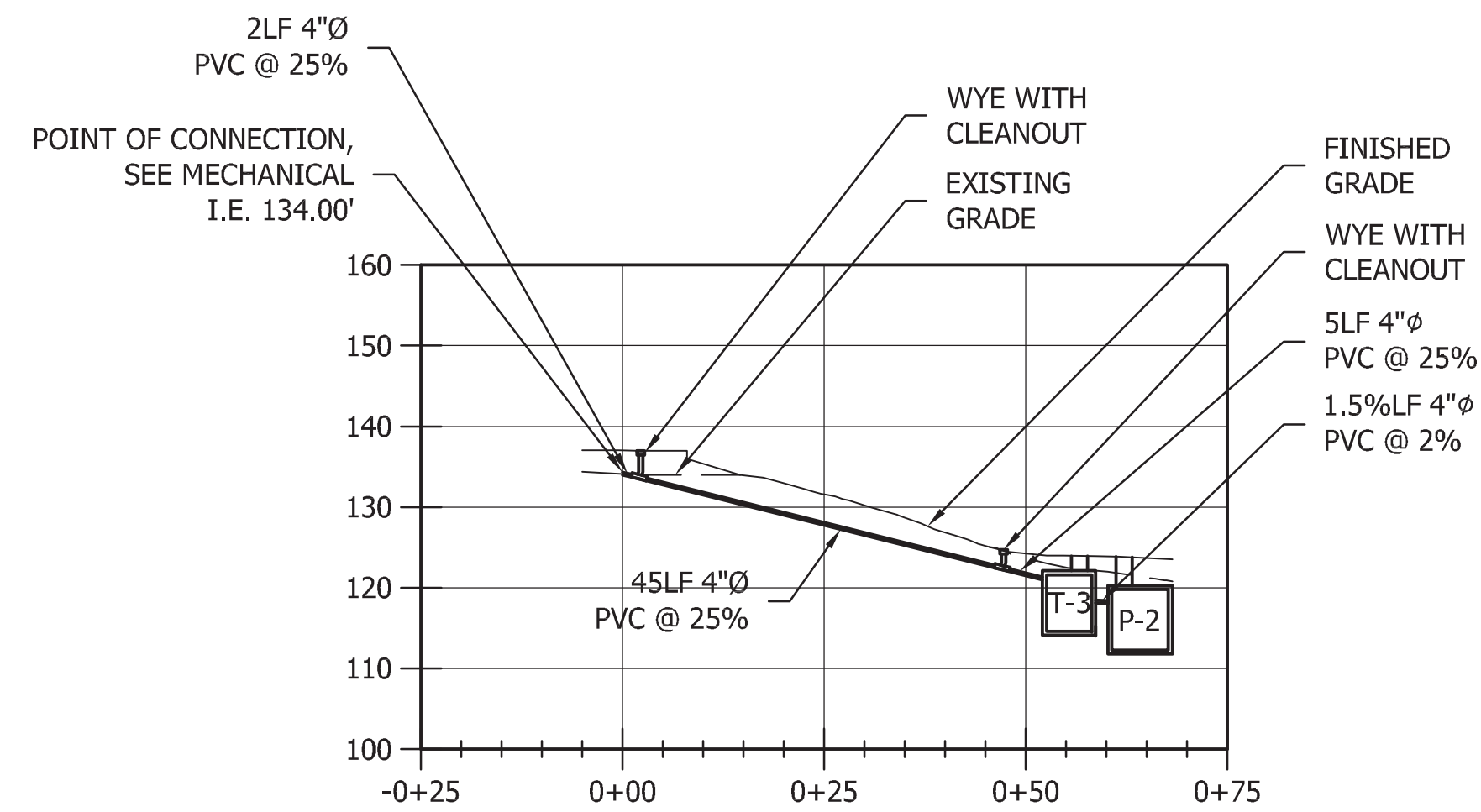
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BID SET



DAY USE SEWER PROFILE



WELCOME CENTER SEWER PROFILE

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DAY USE DEVELOPMENT

SEWER PROFILES

C7.00

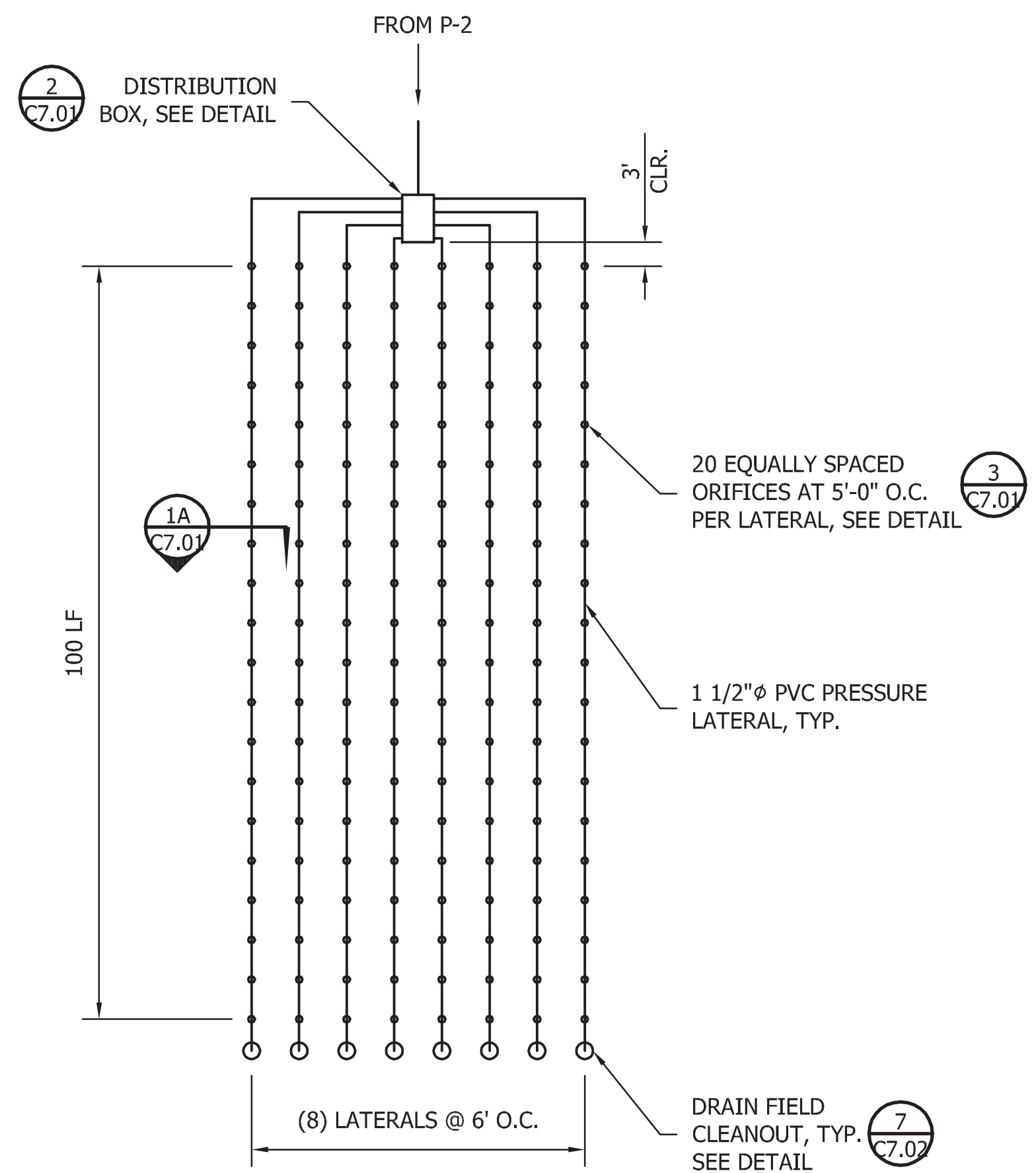
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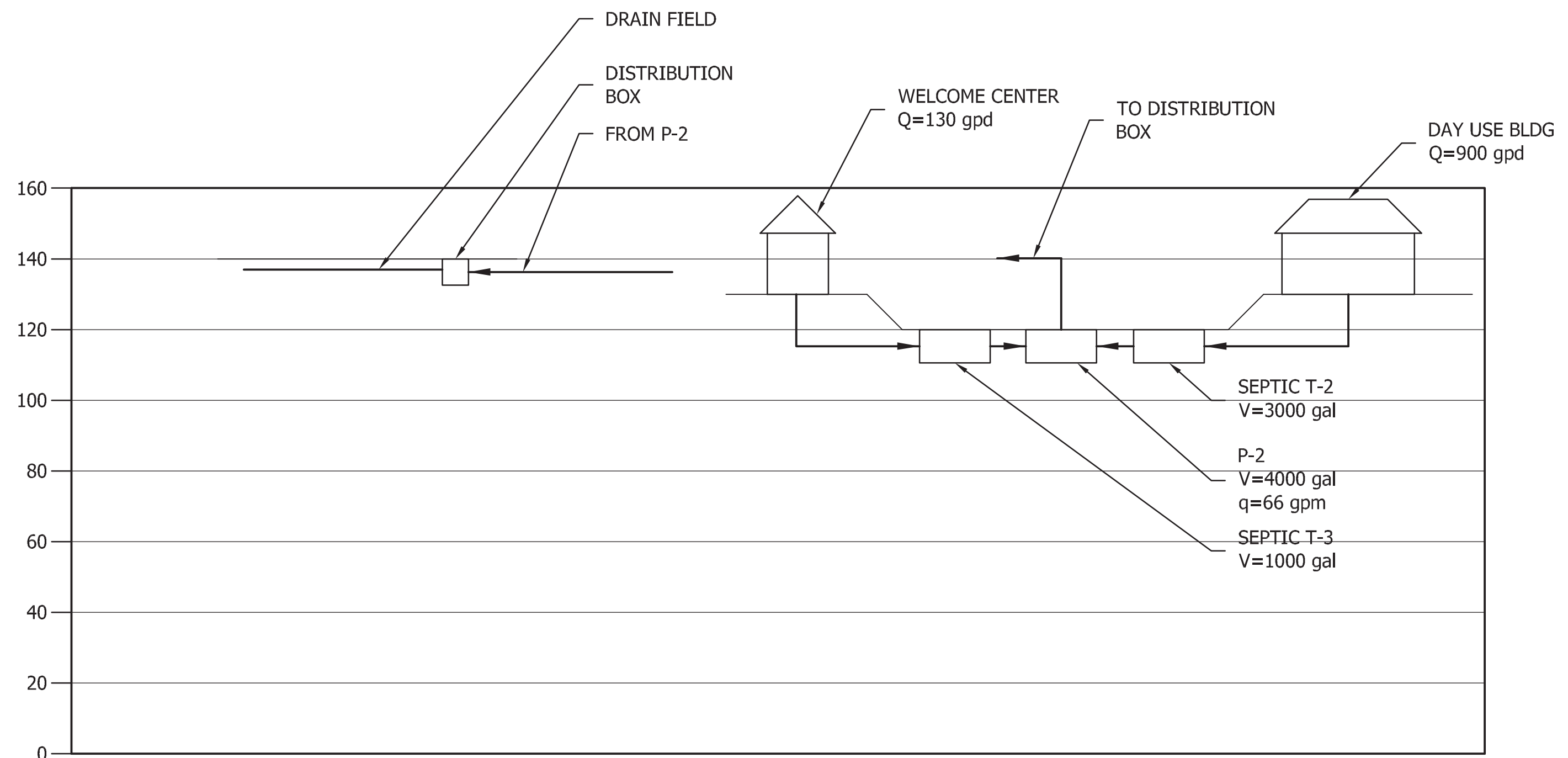
BID SET

SCALE

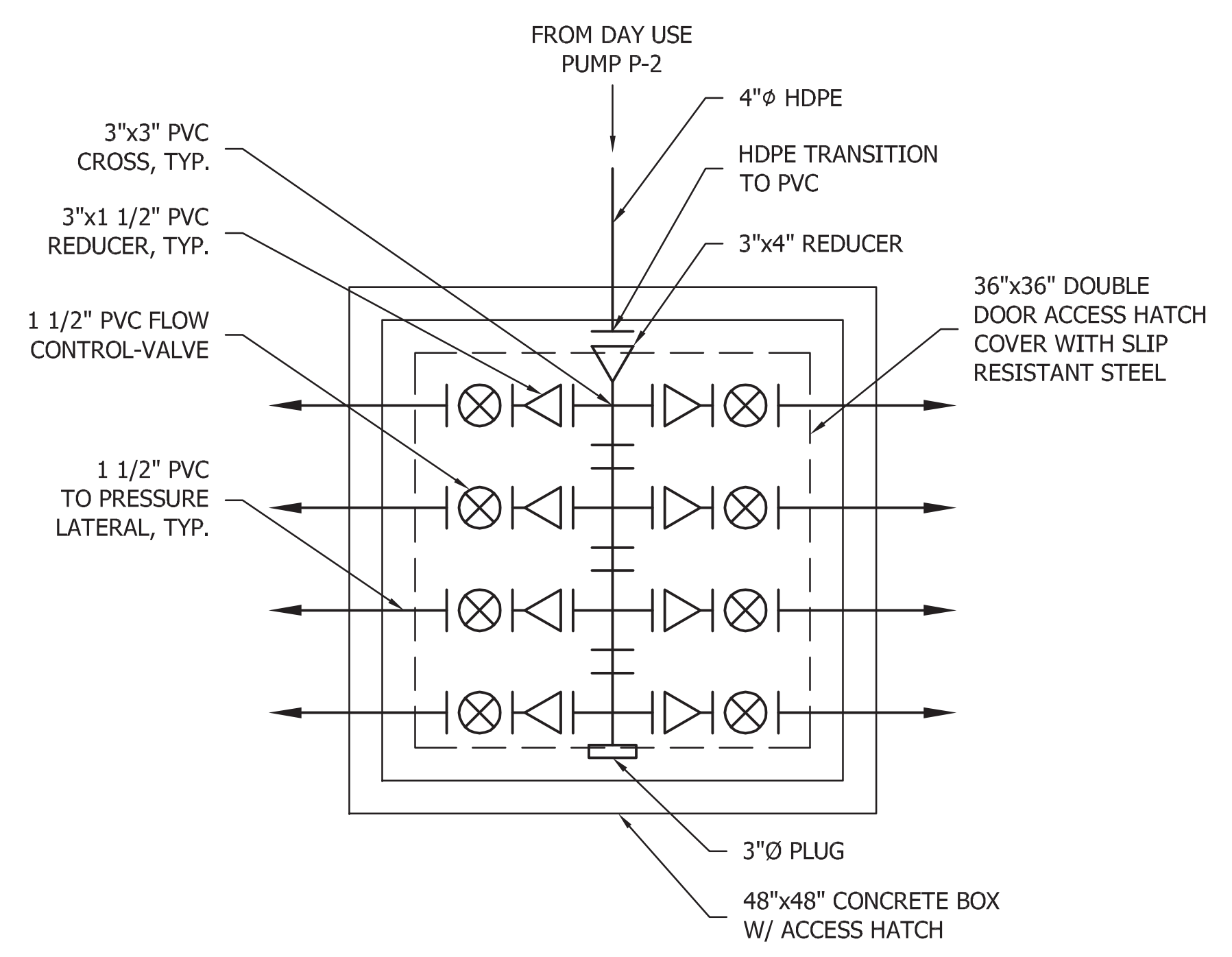
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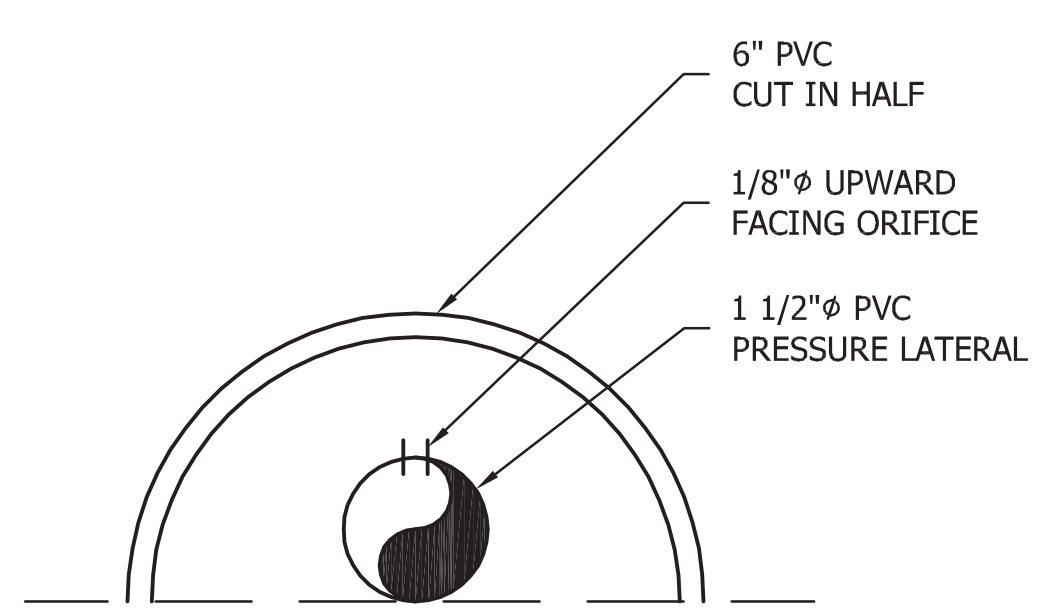
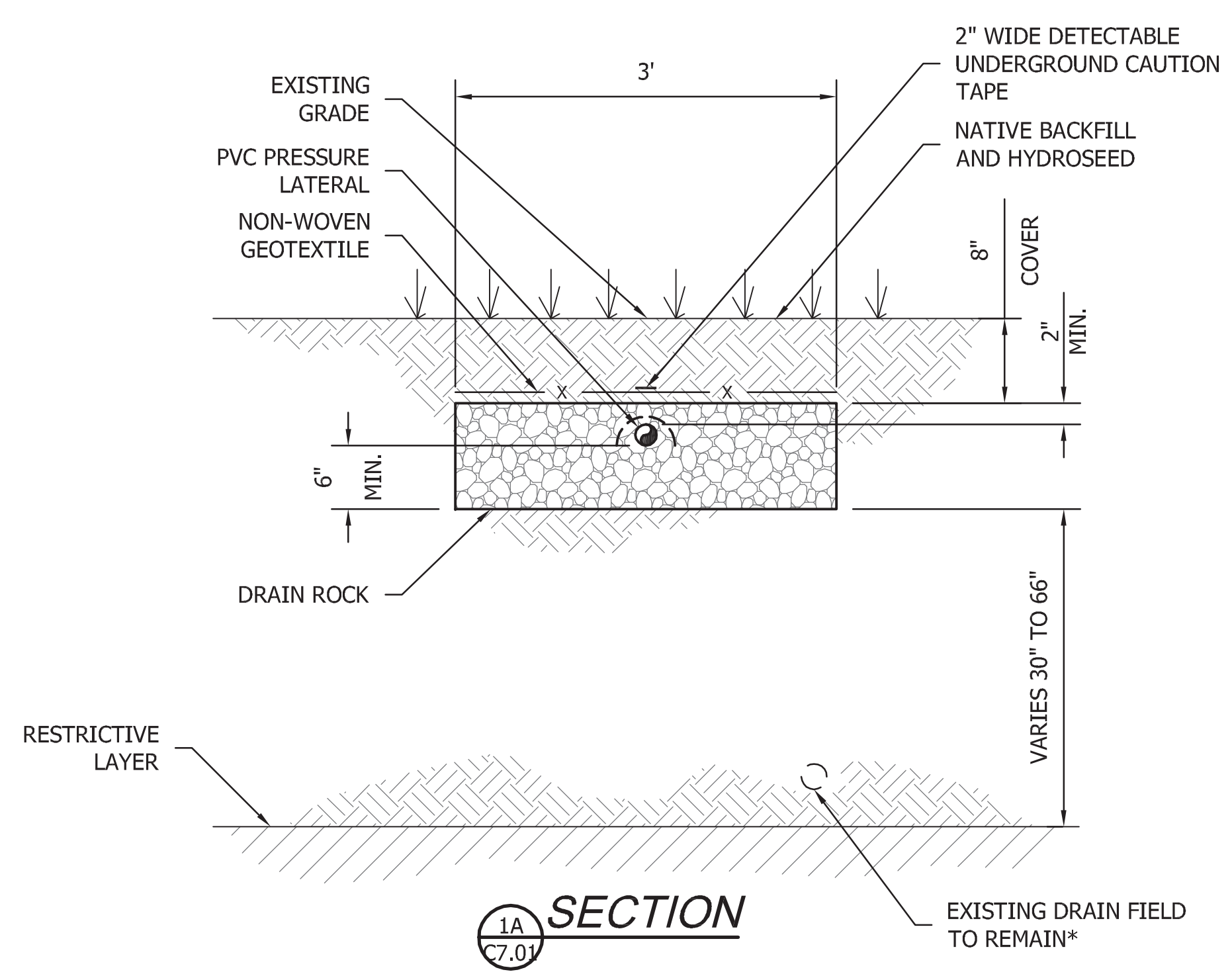
1 DRAIN FIELD PLAN (C7.01)



HYDRAULIC PROFILE



2 DISTRIBUTION BOX DETAIL (C7.01)



3 ORIFICE DETAIL (C7.01)

NOTE:
ALL PVC PIPE AND FITTINGS TO BE SCHEDULE 40.

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* IF DRAIN ROCK FROM EXISTING DRAIN FIELD ENCOUNTERED, PACK W/ MINIMUM 6" THICK OF ASTM C33 SAND.

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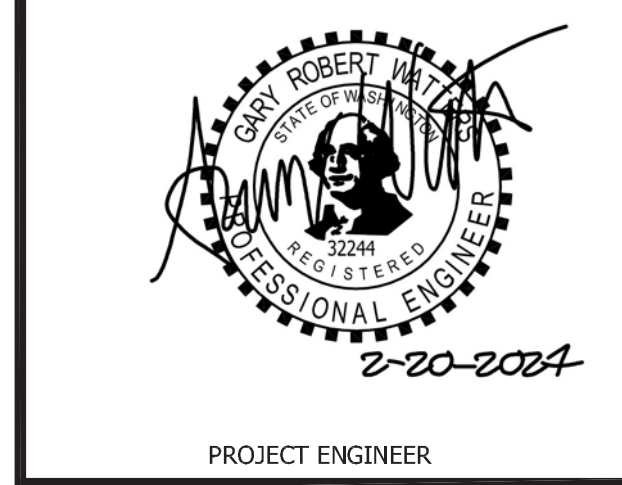
KOPACHUCK STATE PARK

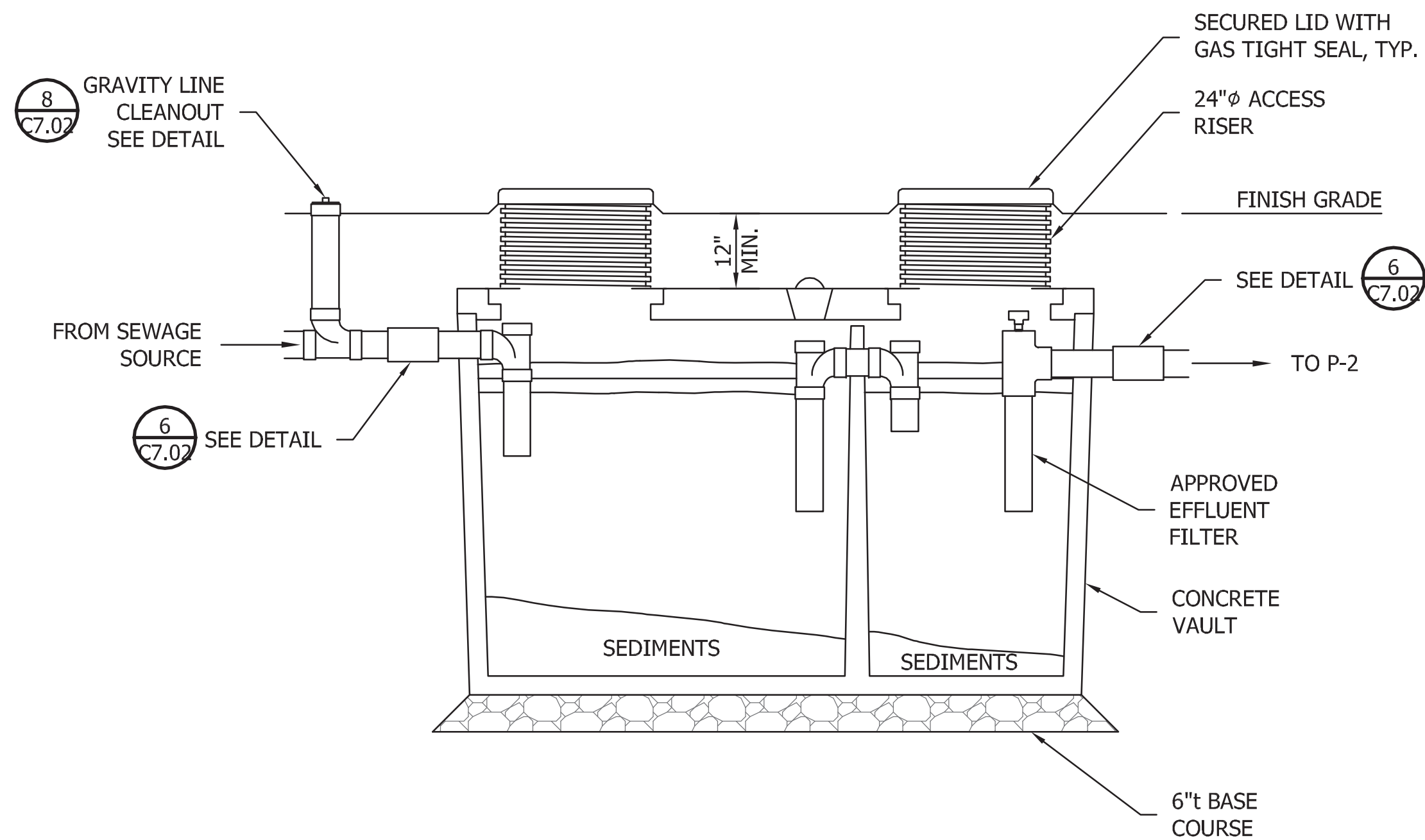
DAY USE DEVELOPMENT

SEWER DETAILS

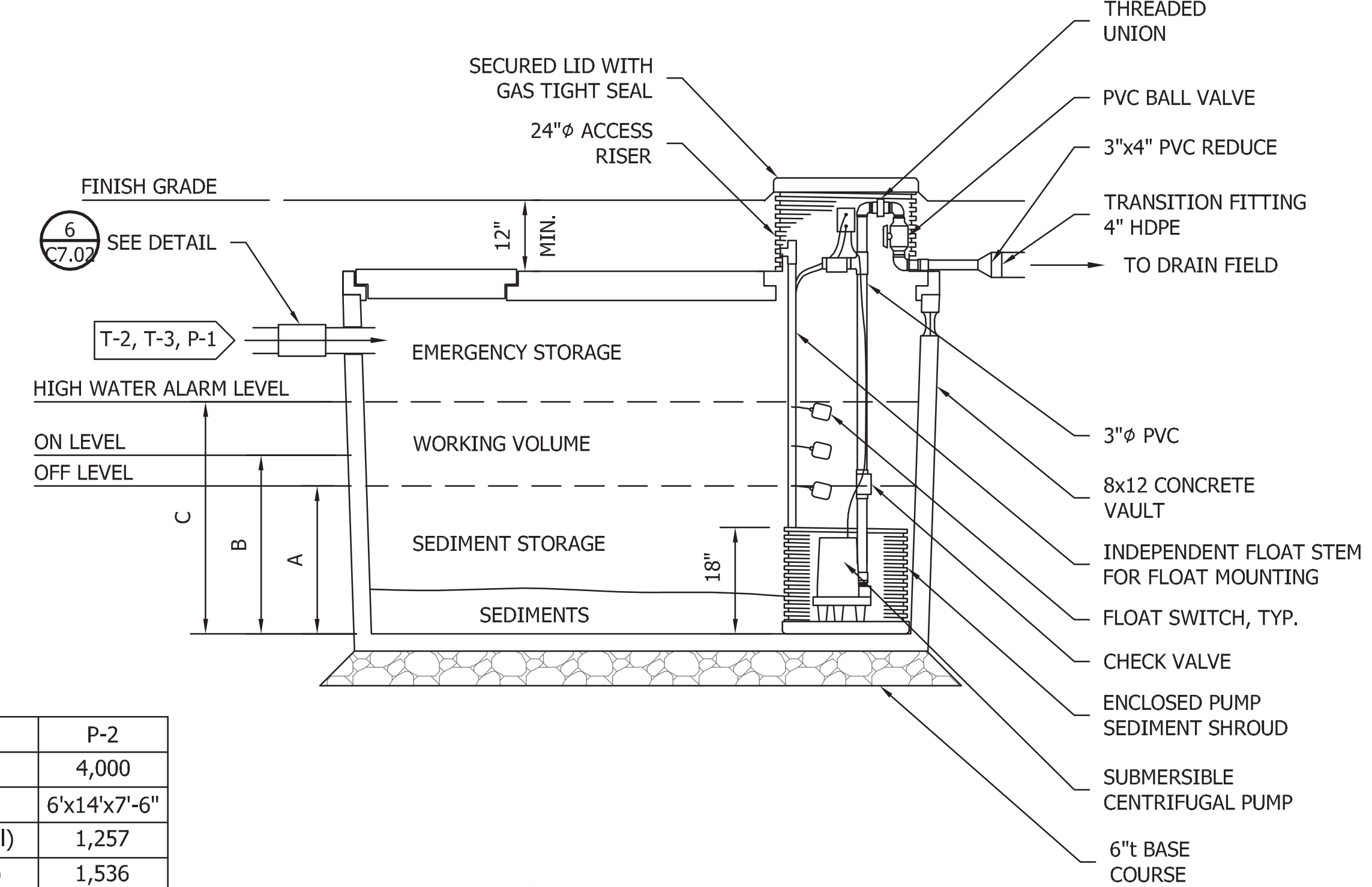
C7.01

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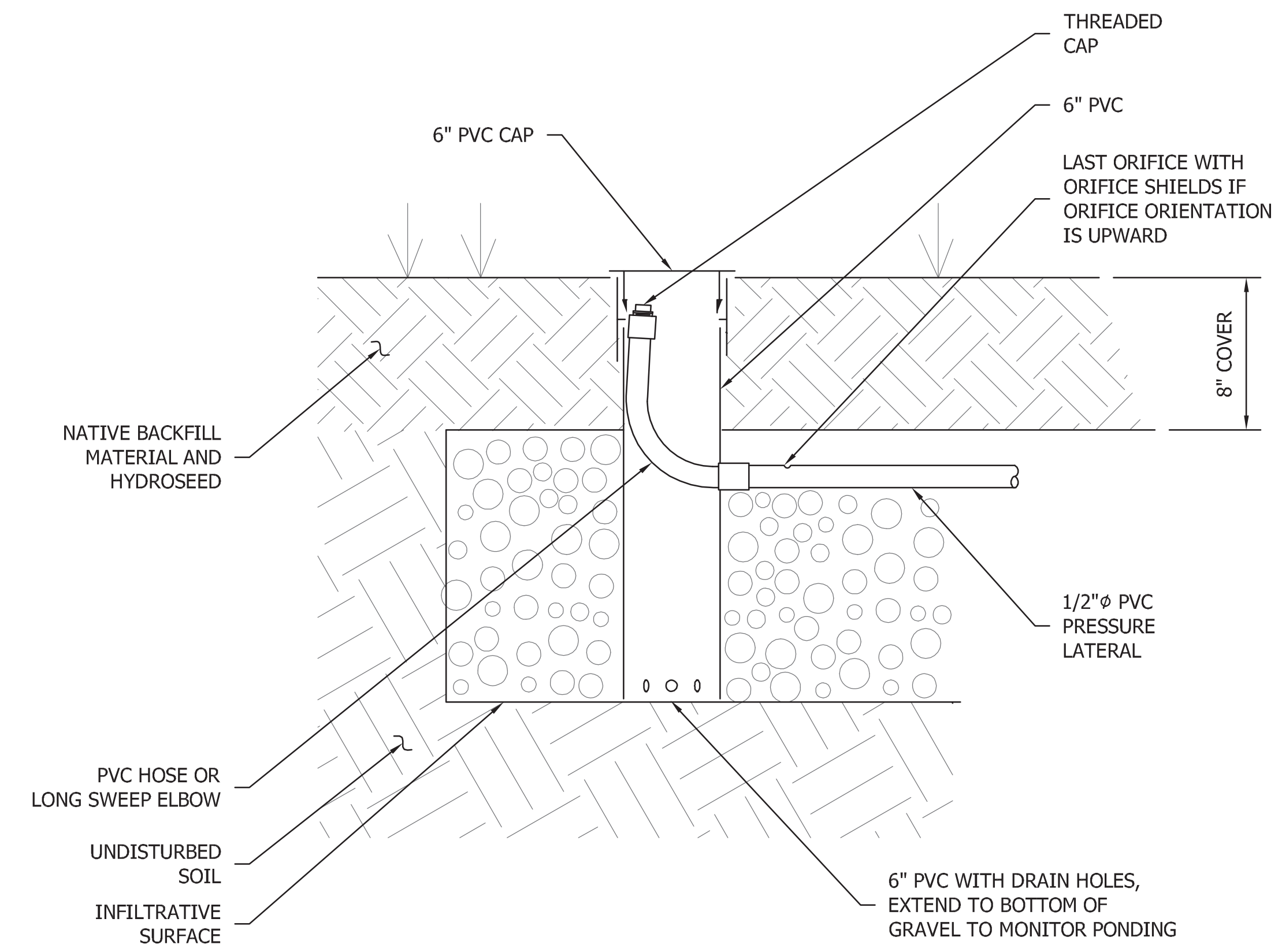


T-2 SEPTIC TANK-3000 gal
T-3 SEPTIC TANK-1000 gal

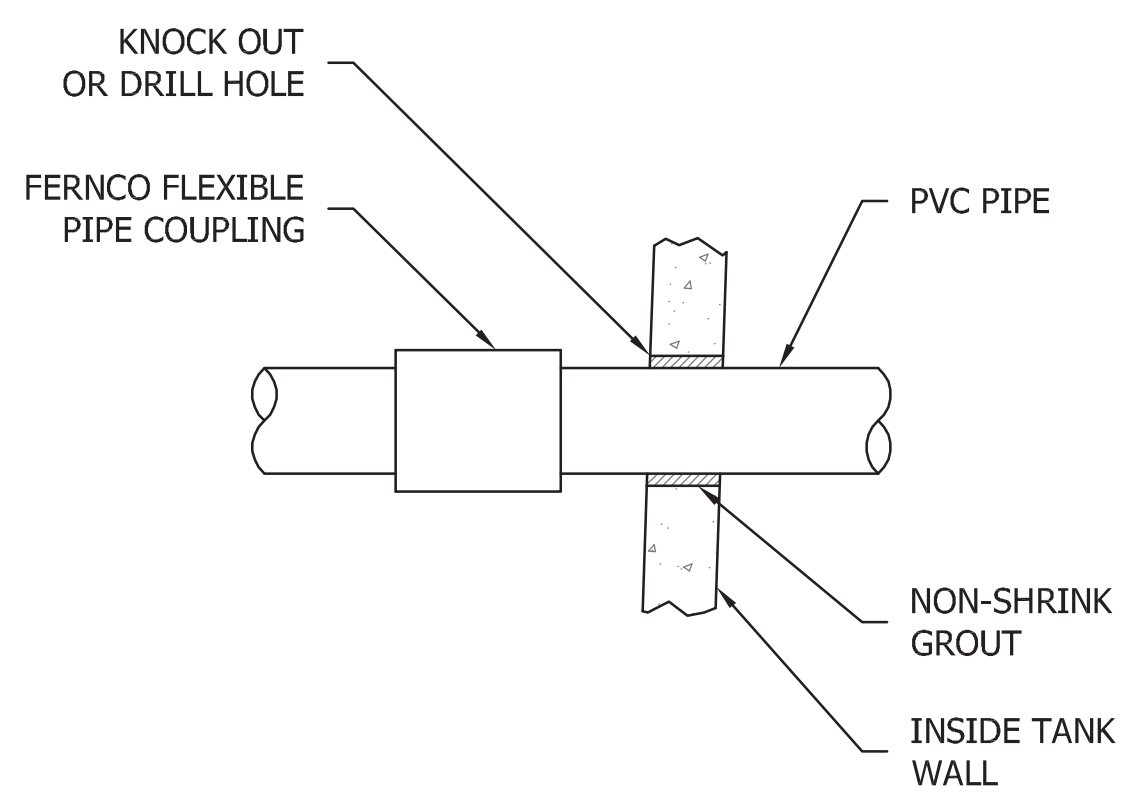


P-2 CHAMBER-4000 gal

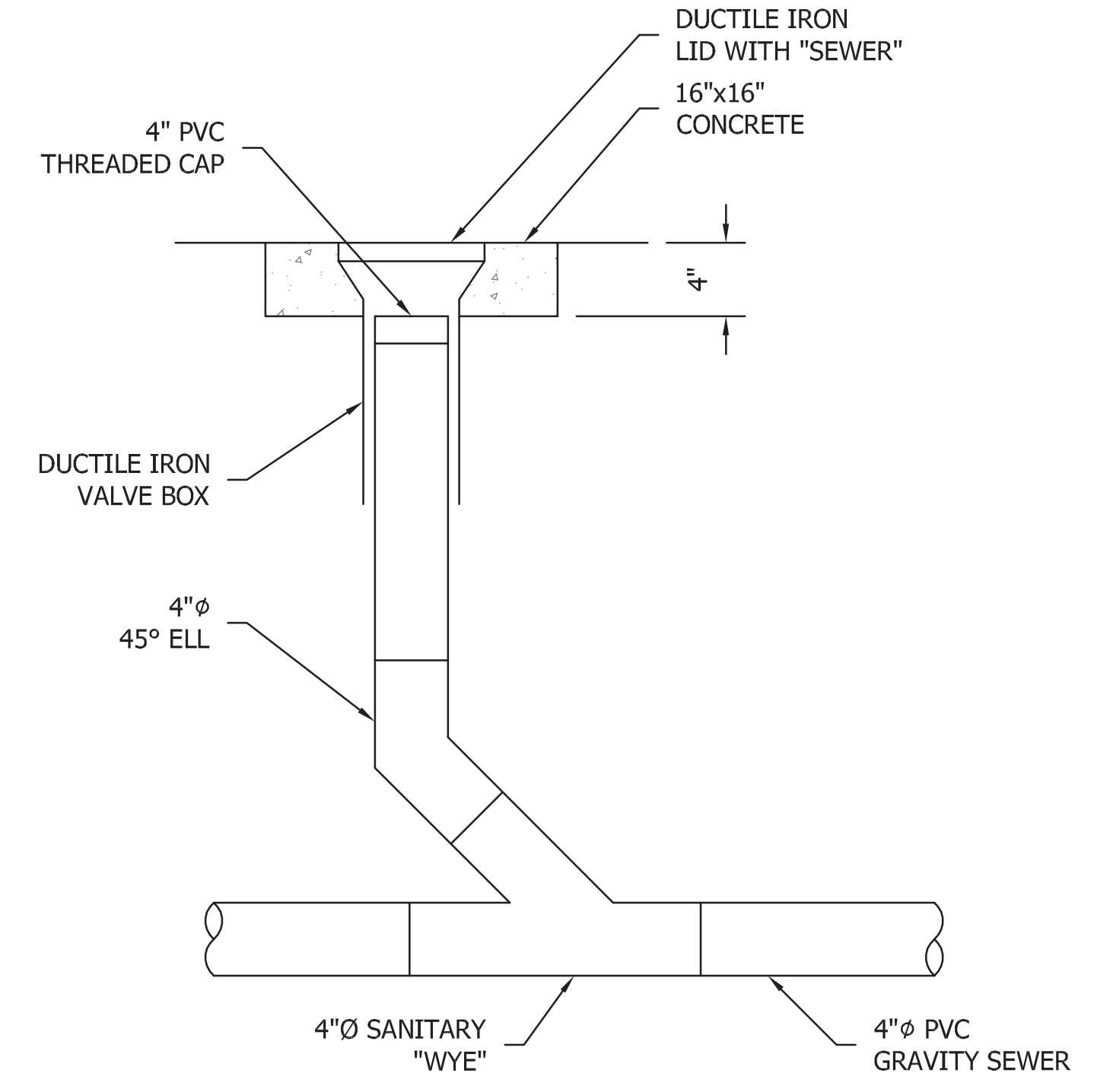
Description	P-2
Total Gallons	4,000
Dimension (ID)	6'x14'x7'-6"
Sediment Storage (Gal)	1,257
Working Volume (Gal)	1,536
Emergency Storage (Gal)	1,152
A- Off Level (In)	24
B- On Level (In)	39
C- Alarm Level (In)	54



DRAIN FIELD CLEANOUT



TANK PENETRATION DETAIL



GRAVITY LINE CLEANOUT

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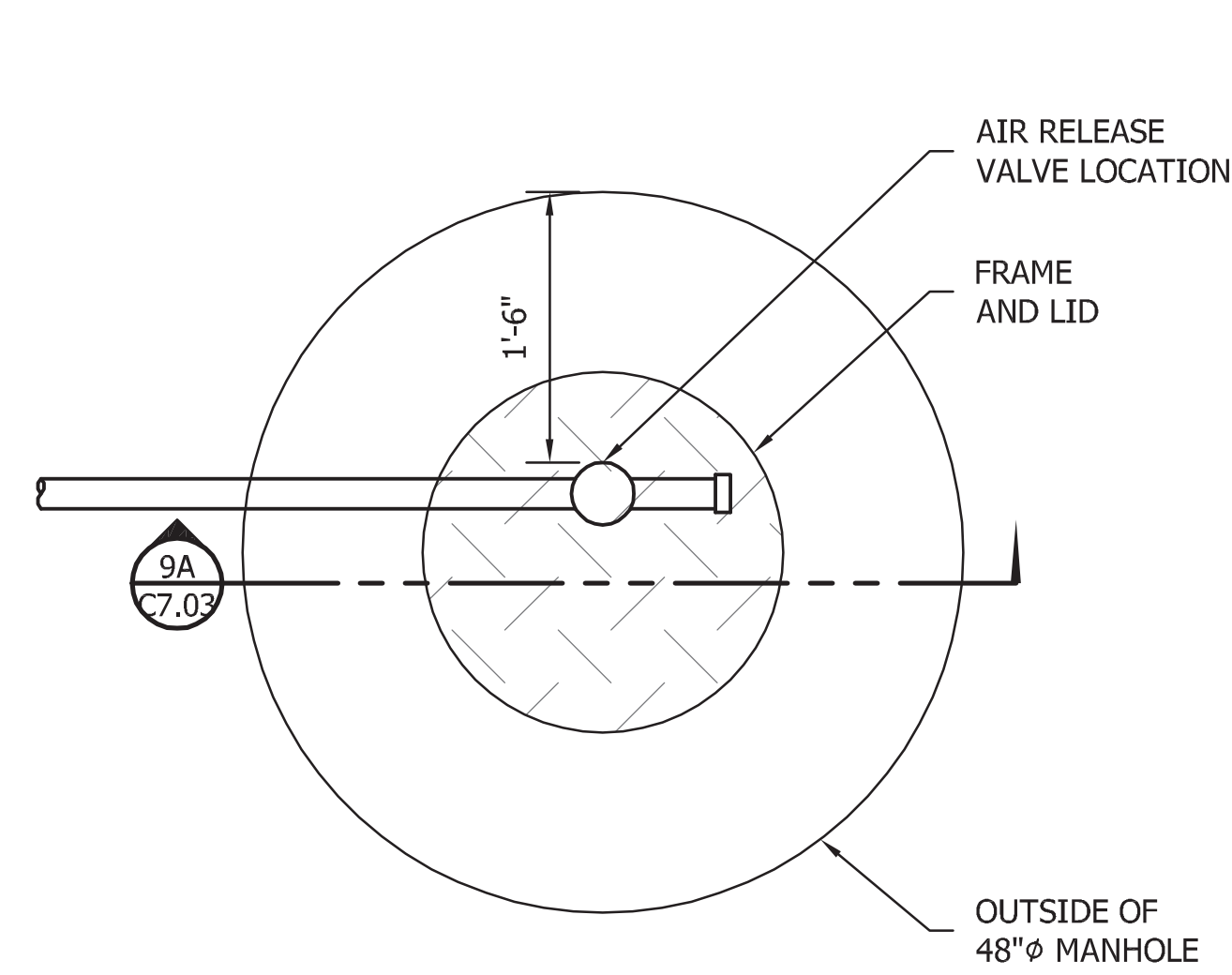
**KOPACHUCK
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**DAY USE
 DEVELOPMENT**

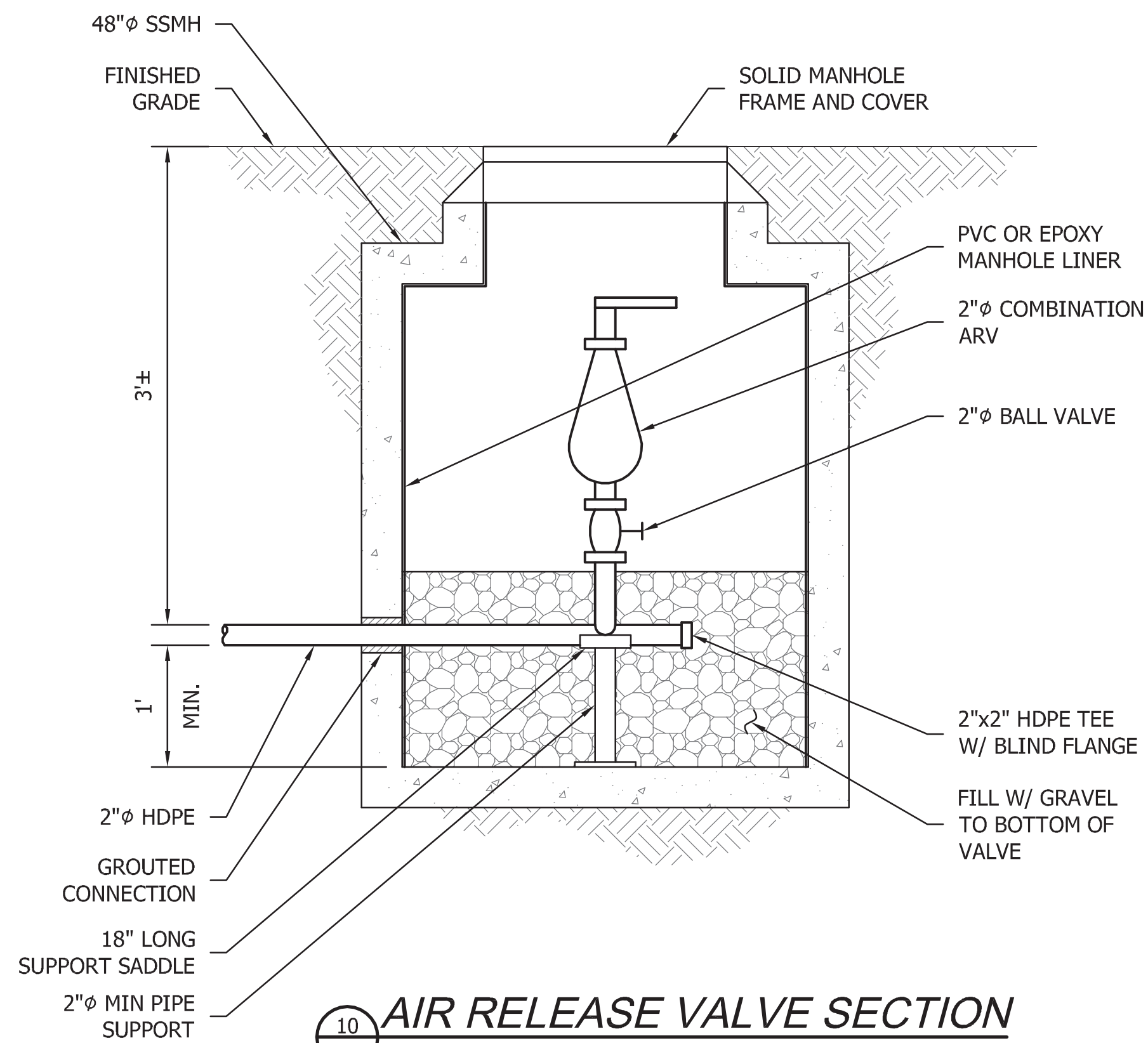
SEWER DETAILS

C7.02

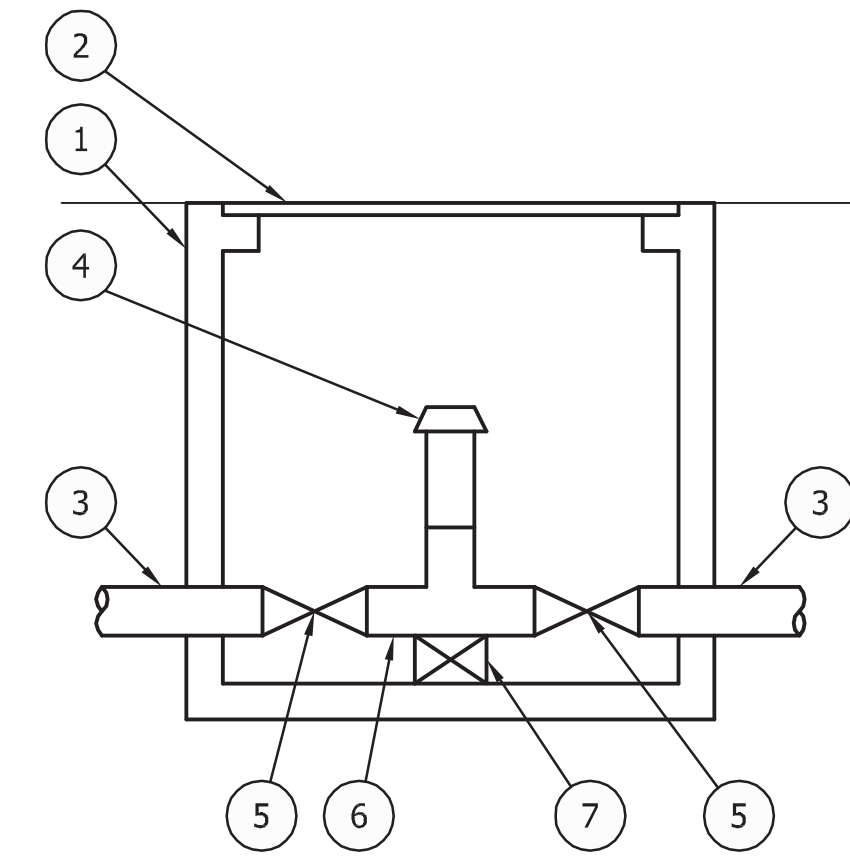
SCALE



9 AIR RELEASE VALVE PLAN
C7.03

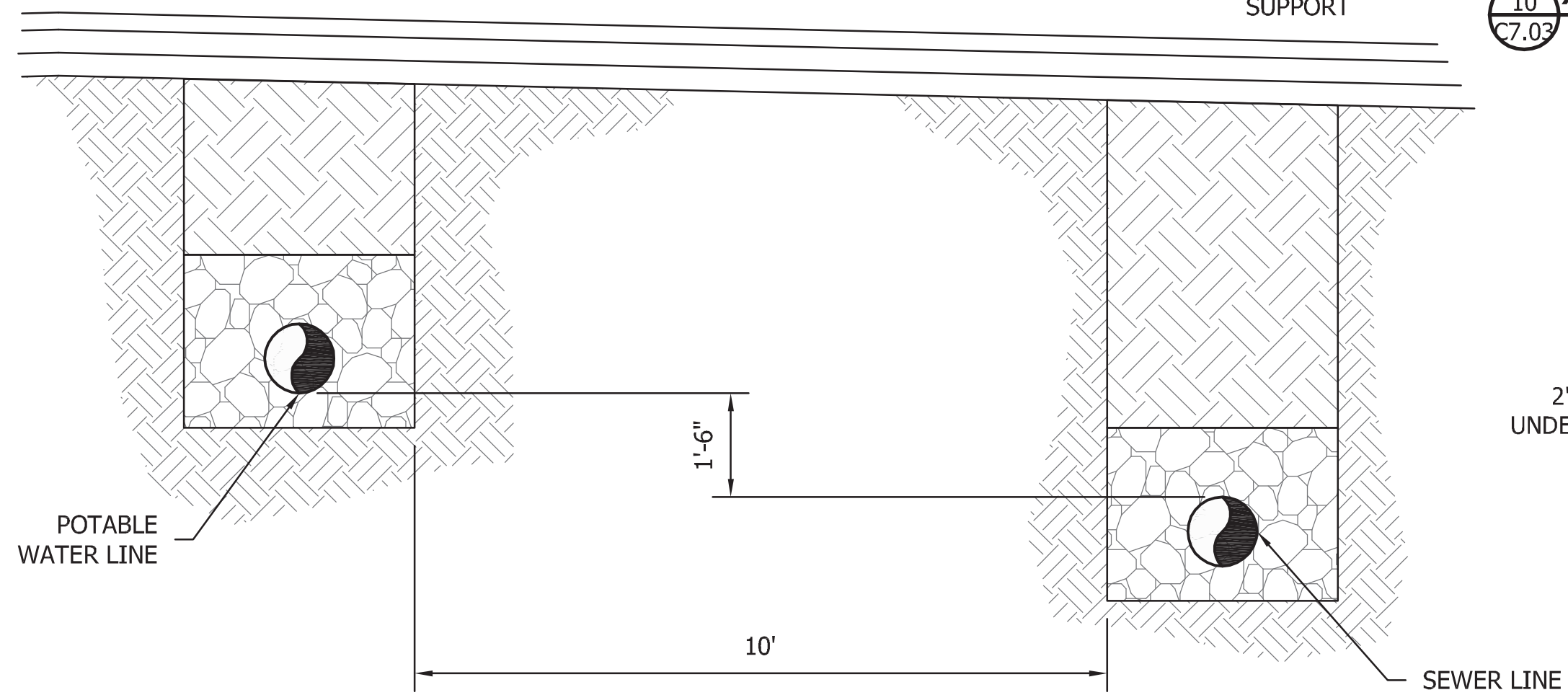


10 AIR RELEASE VALVE SECTION
C7.03

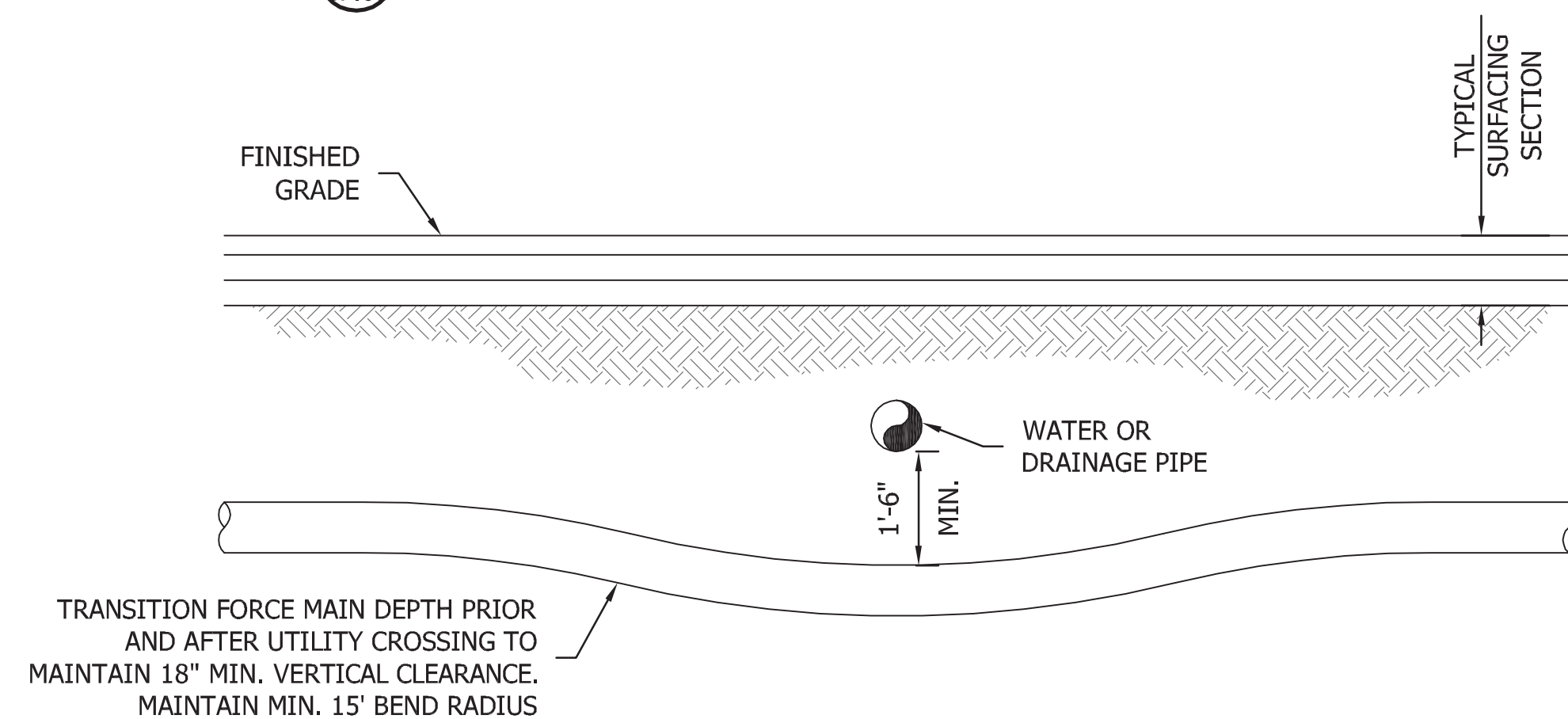


- 1 5'0" TYPE 2 MANHOLE
- 2 SOLID TRAFFIC RATED LID WITH "SEWER"
- 3 4"φ HDPE FORCE MAIN
- 4 4"φ THREADED TRANSITION FITTING & 4"φ CAP
- 5 BRASS BALL VALVE
- 6 HDPE TEE
- 7 BLOCKING

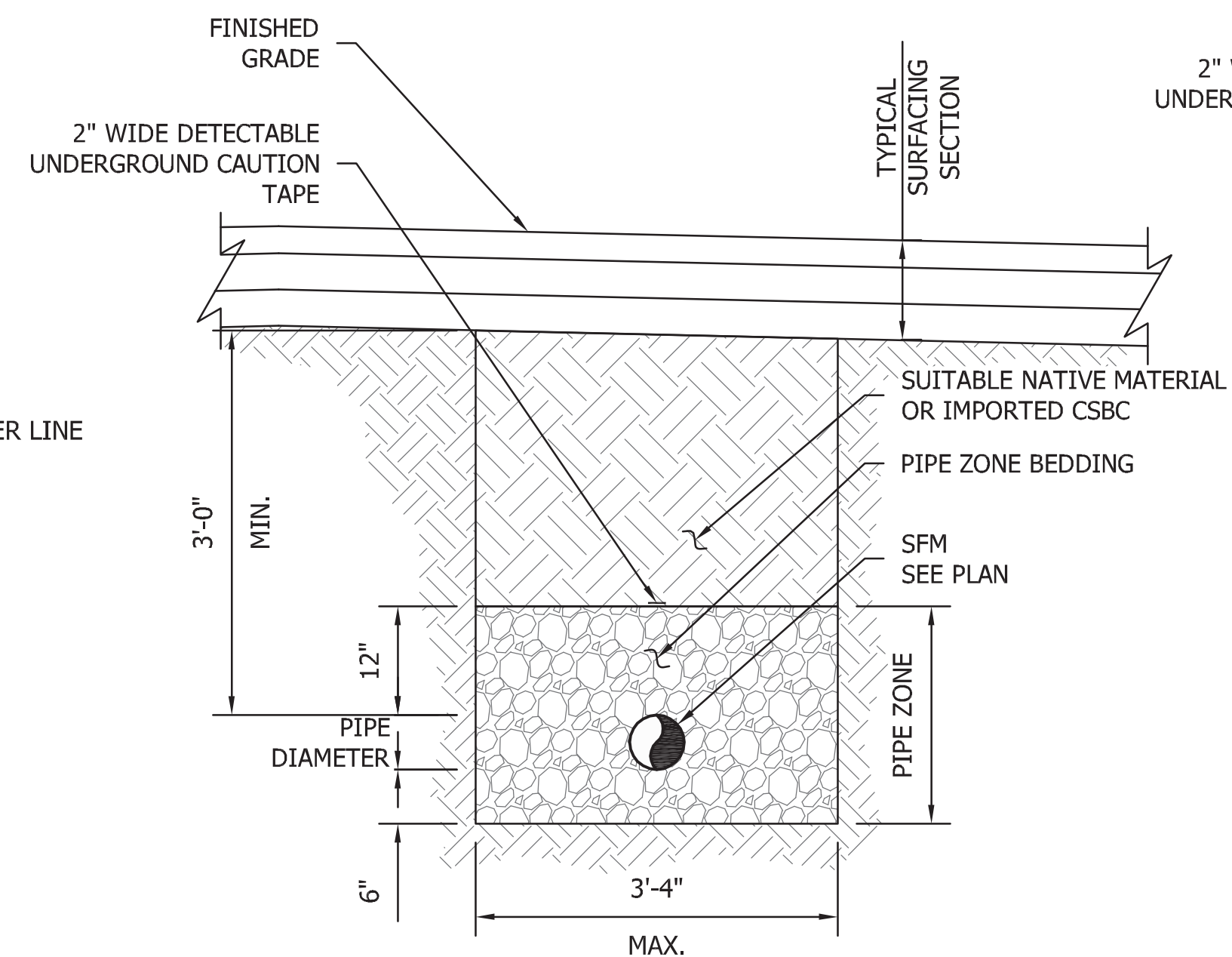
9A SFM CLEANOUT DETAIL
C7.03



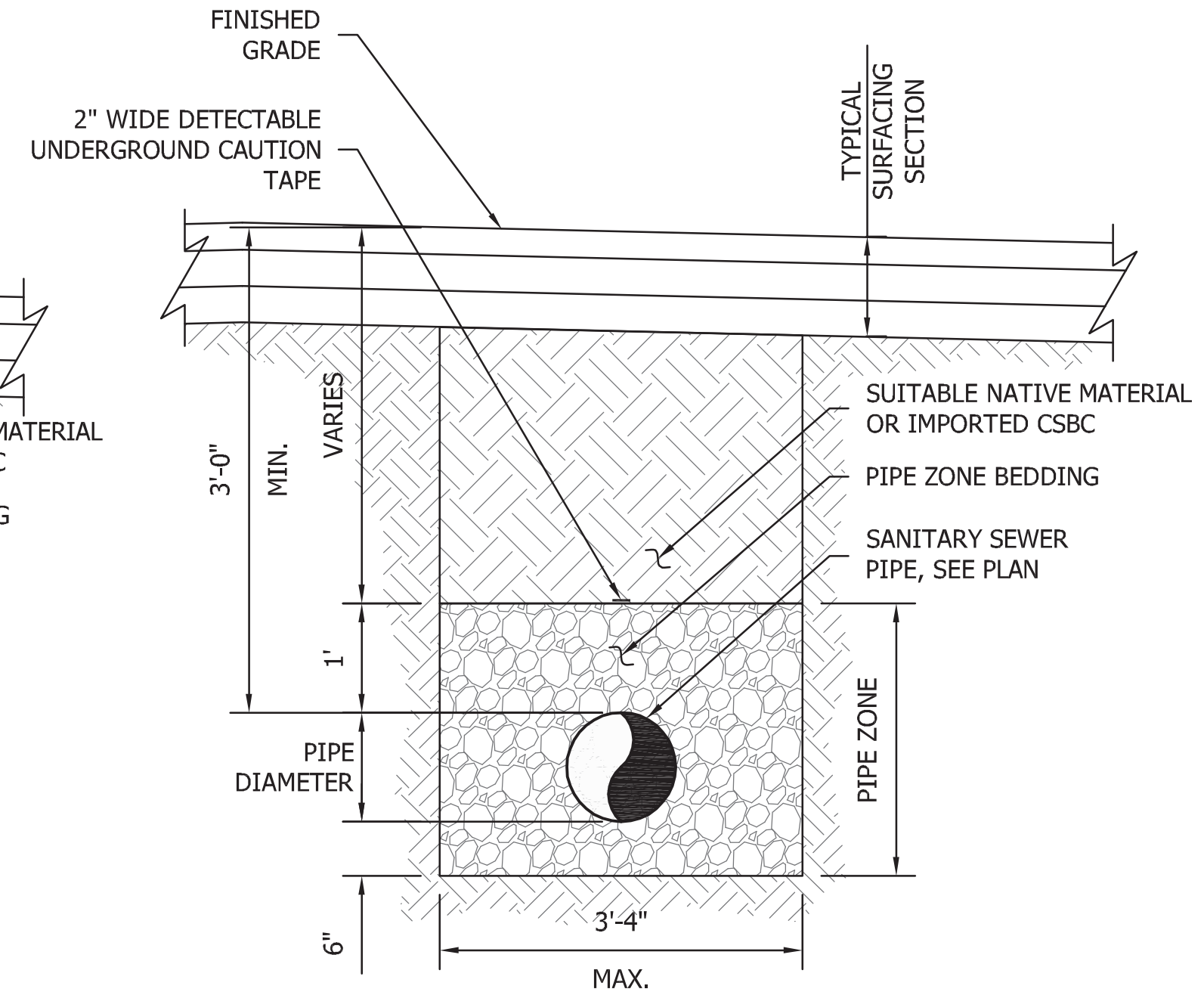
10 HORIZONTAL SEWER SEPARATION
C7.03



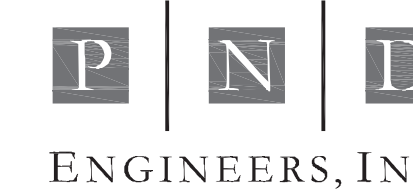
11 VERTICAL FORCE MAIN CROSSING
C7.03



12 SFM TRENCH DETAIL
C7.03



13 WATERLINE TRENCH DETAIL
C7.03



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DAY USE
DEVELOPMENT

SEWER DETAILS

C7.03

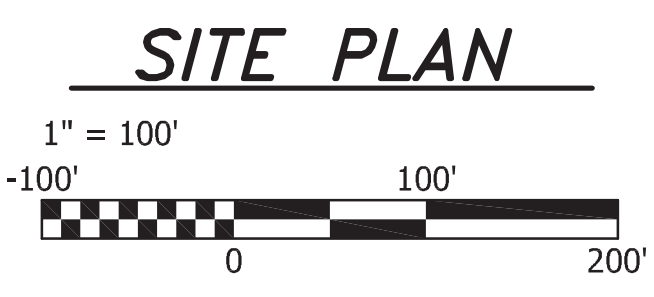
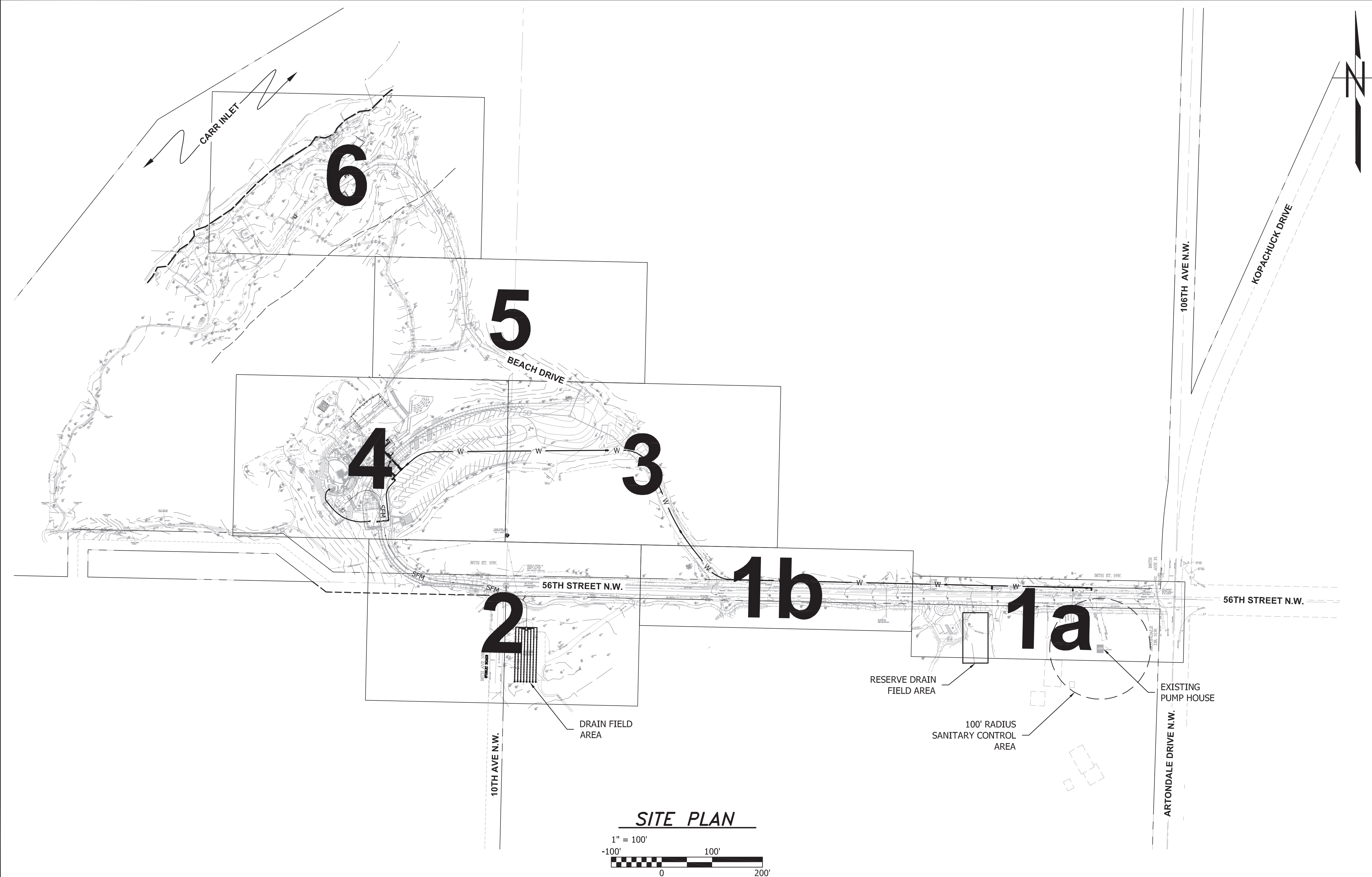
SCALE

SHEET 79 OF 102

BID SET

FILE NO.

P675-2



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DAY USE DEVELOPMENT

KEY PLAN WATER

C8.00

SCALE 1" = 100' @ 34"X22" (D)

0 100 FEET

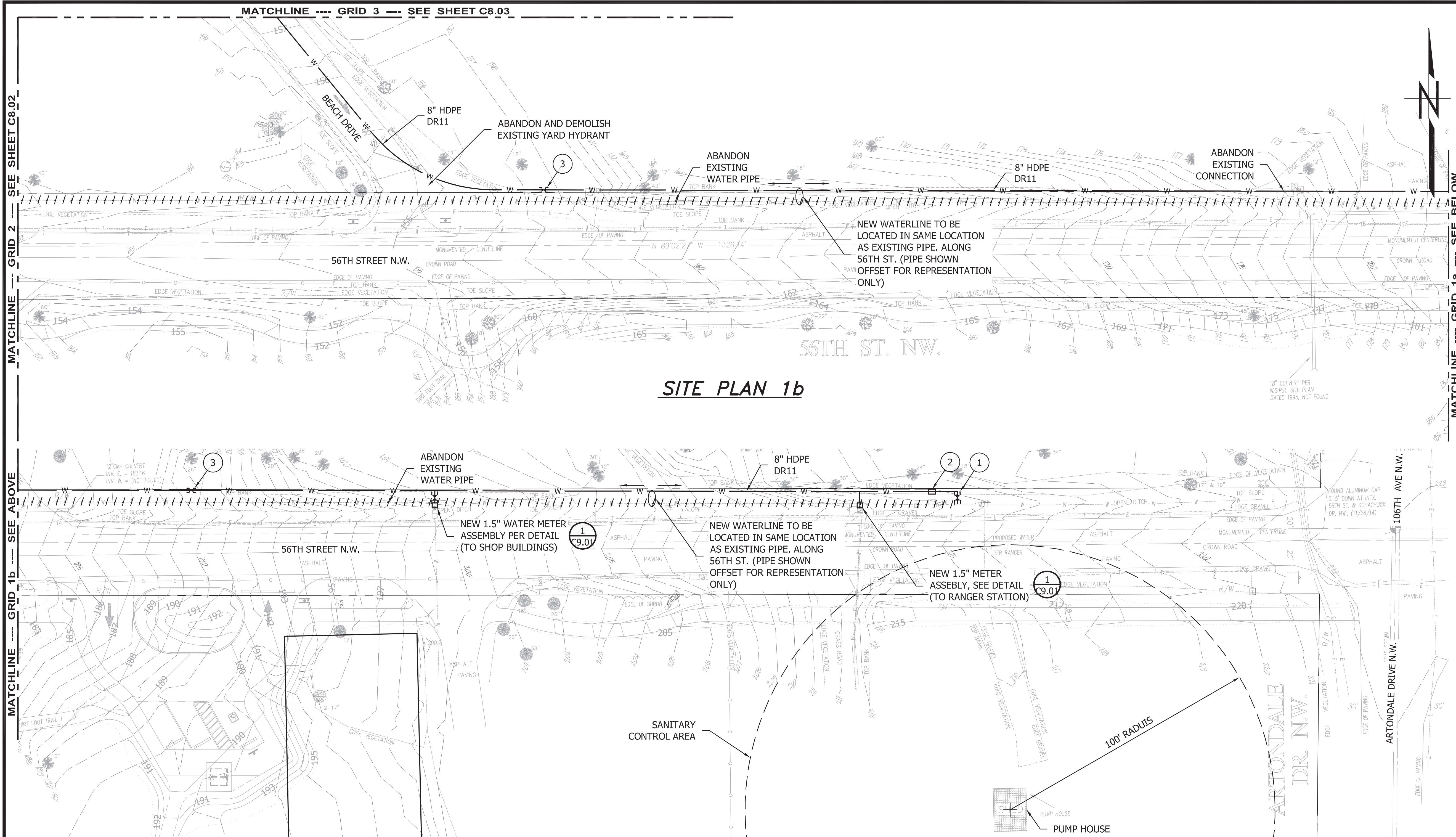
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FILE NO. **P675-2**



SITE PLAN 1b

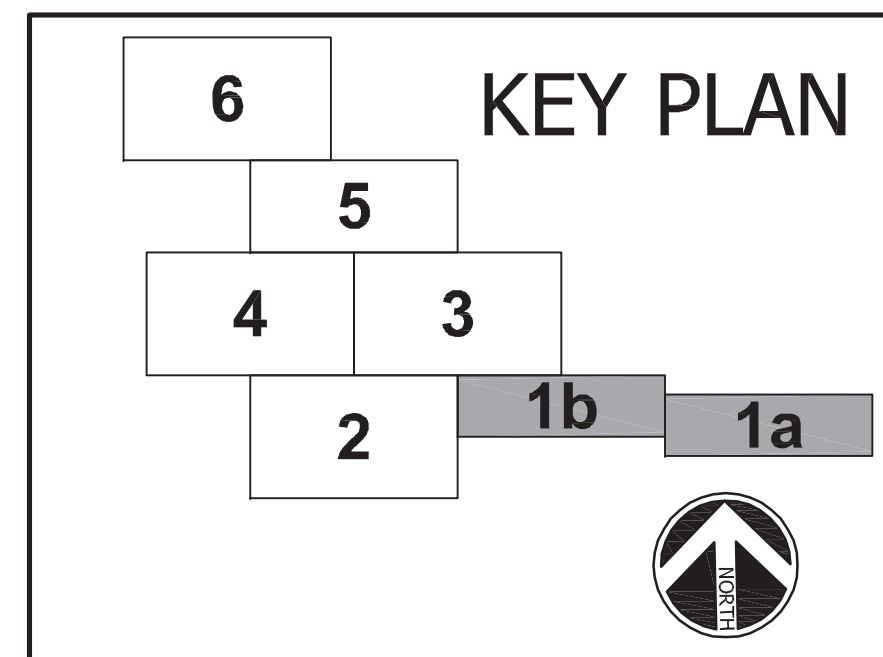
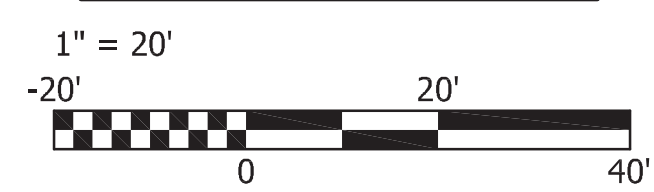
SITE PLAN 1a

LEGEND

- W — W — NEW HDPE WATER PIPE
- SS — SS — EXISTING SEWER PIPE
- UGT — UGT — EXISTING TELEPHONE
- W — W — EXISTING WATER PIPE
- UGE — UGE — EXISTING ELECTRICAL
- — PIPE CROSSING
- C — GATE VALVE

FLAG NOTES:

- (1) 6"x8" TAPPING TEE
- (1) RSGV GATE VALVE
- (1) DI TO HDPE ADAPTOR
- (1) 8" BLIND FLANGE
- (1) 8" HDPE 90° ELBOW THRUST BLOCKING
- (2) DEMOLISH EXISTING 4"Ø METER VAULT AND REPLACE WITH NEW 6"Ø VAULT, SEE DETAIL
- (3) 8" RSGV AND VALVE BOX (FLxFL)
- (4) 9.01



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DAY USE DEVELOPMENT

WATER PLAN GRID 1

C8.01

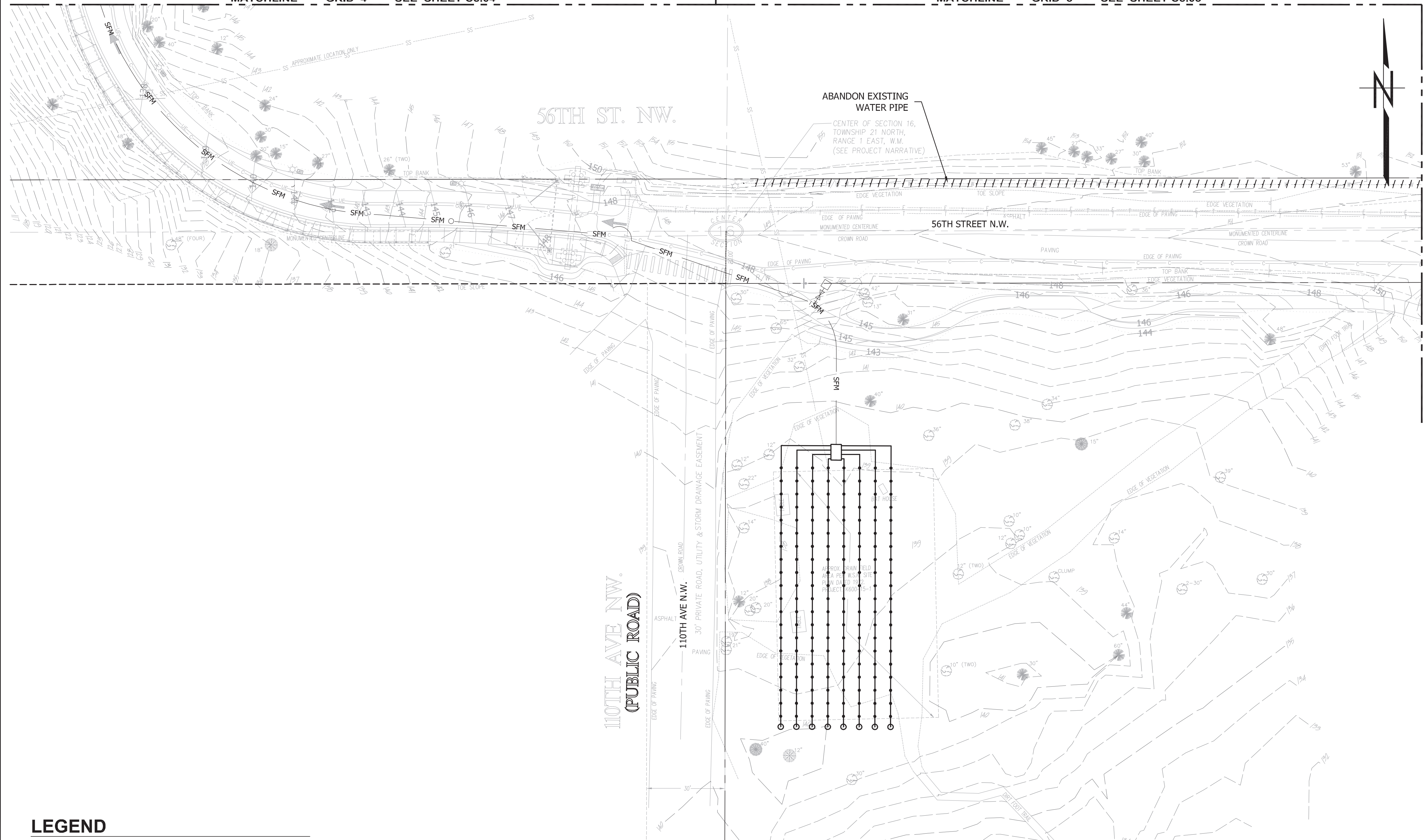
SCALE 1" = 20' @ 34"x22" (D)
 0 20 FEET

FILE NO. **P675-2**

MATCHLINE --- GRID 4 --- SEE SHEET C8.04

MATCHLINE --- GRID 3 --- SEE SHEET C8.03

CAD NO. 184060-C8.00-C8.04.dwg



MATCHLINE --- GRID 1b --- SEE SHEET C8.01 (top)



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DAY USE
DEVELOPMENT

WATER PLAN
GRID 2

C8.02

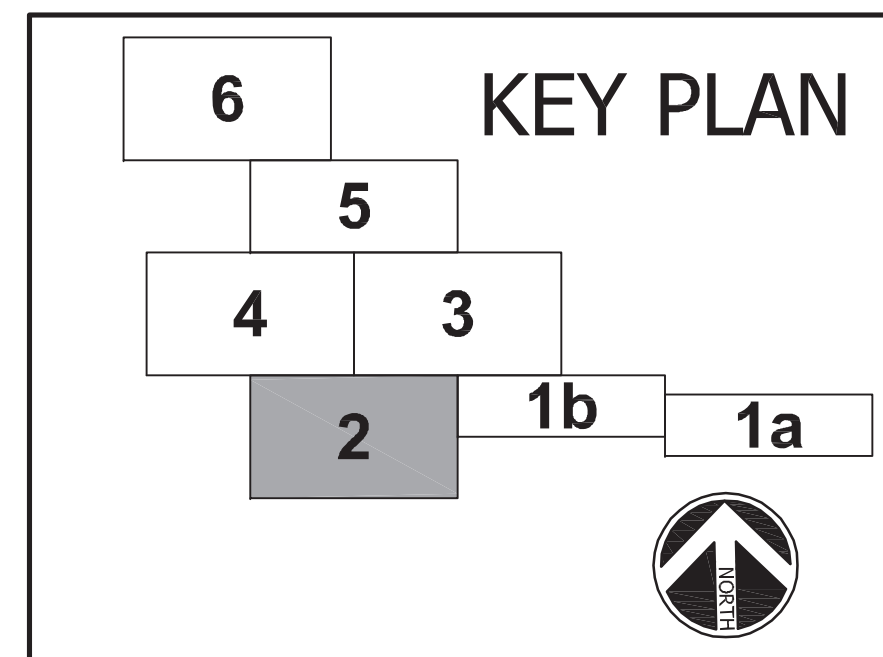
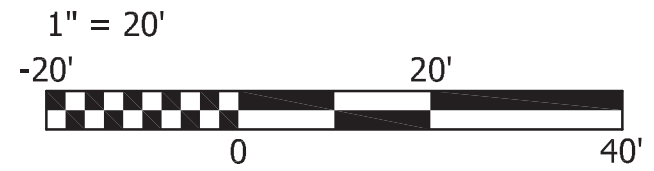
SCALE 1" = 20' @ 34"x22" (D)
0 20 FEET

FILE NO. P675-2

LEGEND

- SFM — SFM — NEW SEWER FORCE PIPE
- W — W — NEW HDPE WATER PIPE
- UE — UE — NEW UNDERGROUND ELECTRICAL (SEE ELECTRICAL)
- SS — SS — EXISTING SEWER PIPE
- UGT — UGT — EXISTING TELEPHONE
- W — W — EXISTING WATER PIPE
- UGE — UGE — EXISTING ELECTRICAL

SITE PLAN 2

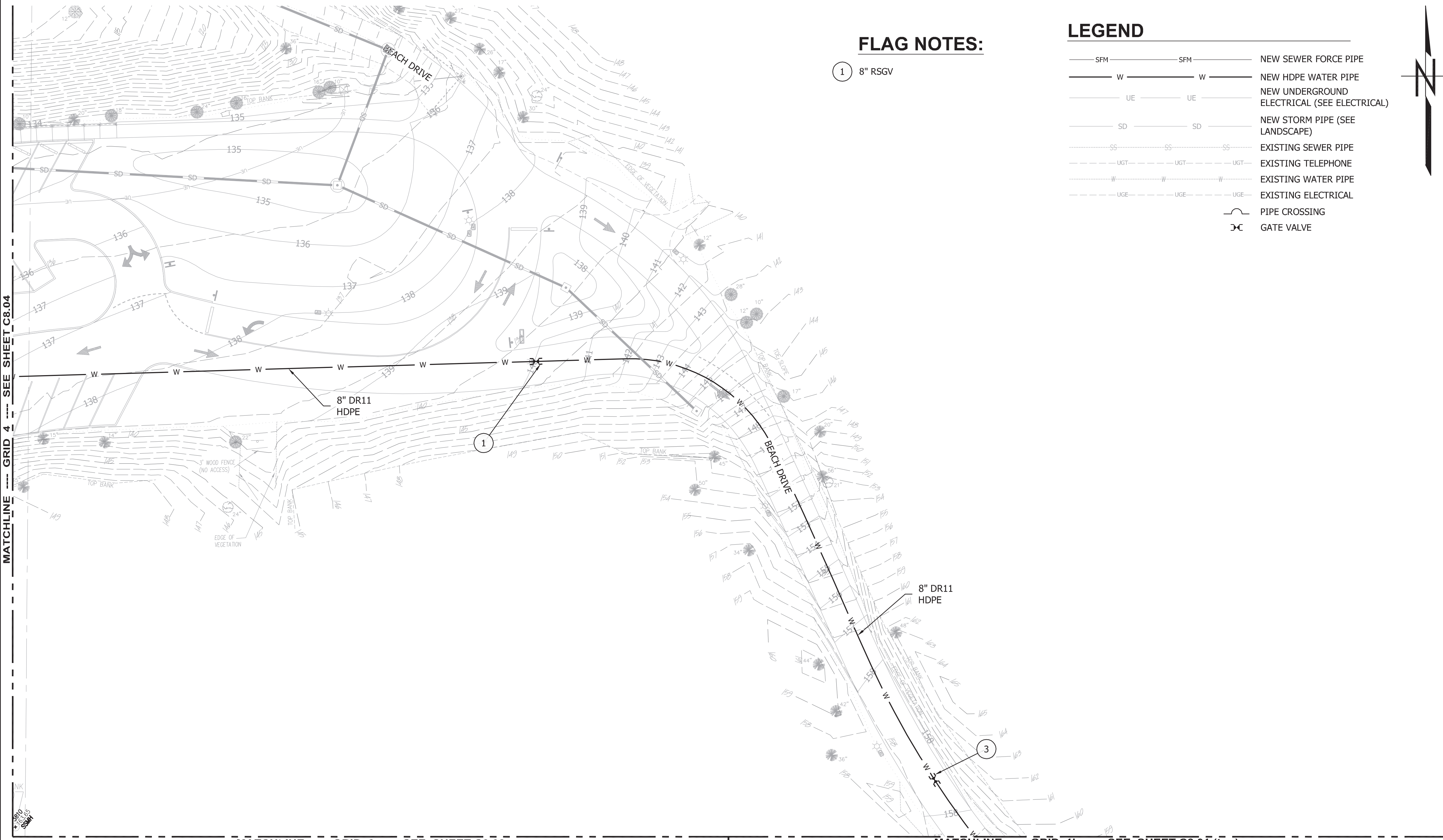


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FLAG NOTES:

① 8" RSGV

LEGEND

- SFM — SFM — NEW SEWER FORCE PIPE
- W — W — NEW HDPE WATER PIPE
- UE — UE — NEW UNDERGROUND ELECTRICAL (SEE ELECTRICAL)
- SD — SD — NEW STORM PIPE (SEE LANDSCAPE)
- SS — SS — EXISTING SEWER PIPE
- UGT — UGT — EXISTING TELEPHONE
- W — W — EXISTING WATER PIPE
- UGE — UGE — EXISTING ELECTRICAL
- — — PIPE CROSSING
- — — GATE VALVE



ACTION	BY	DATE
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DAY USE DEVELOPMENT

WATER PLAN
GRID 3
C8.03

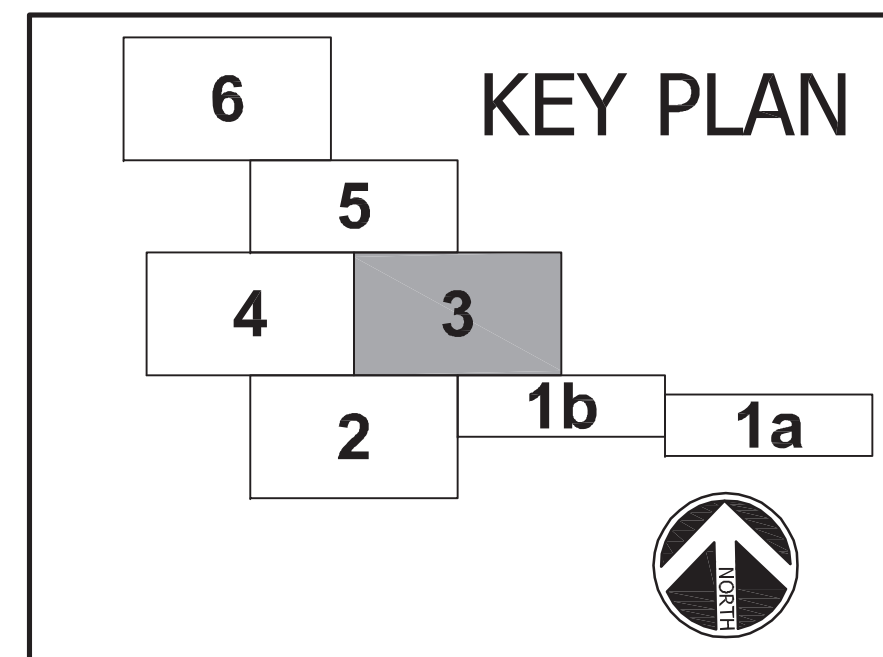
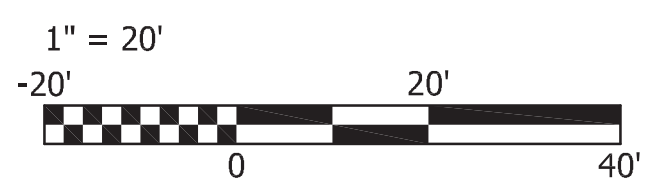
SCALE 1" = 20' @ 34"x22" (D)
 0 20 FEET

MATCHLINE --- GRID 4 --- SEE SHEET C8.04

MATCHLINE --- GRID 2 --- SEE SHEET C8.02

MATCHLINE --- GRID 1b --- SEE SHEET C8.01 (top)

SITE PLAN 3



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KOPACHUCK STATE PARK

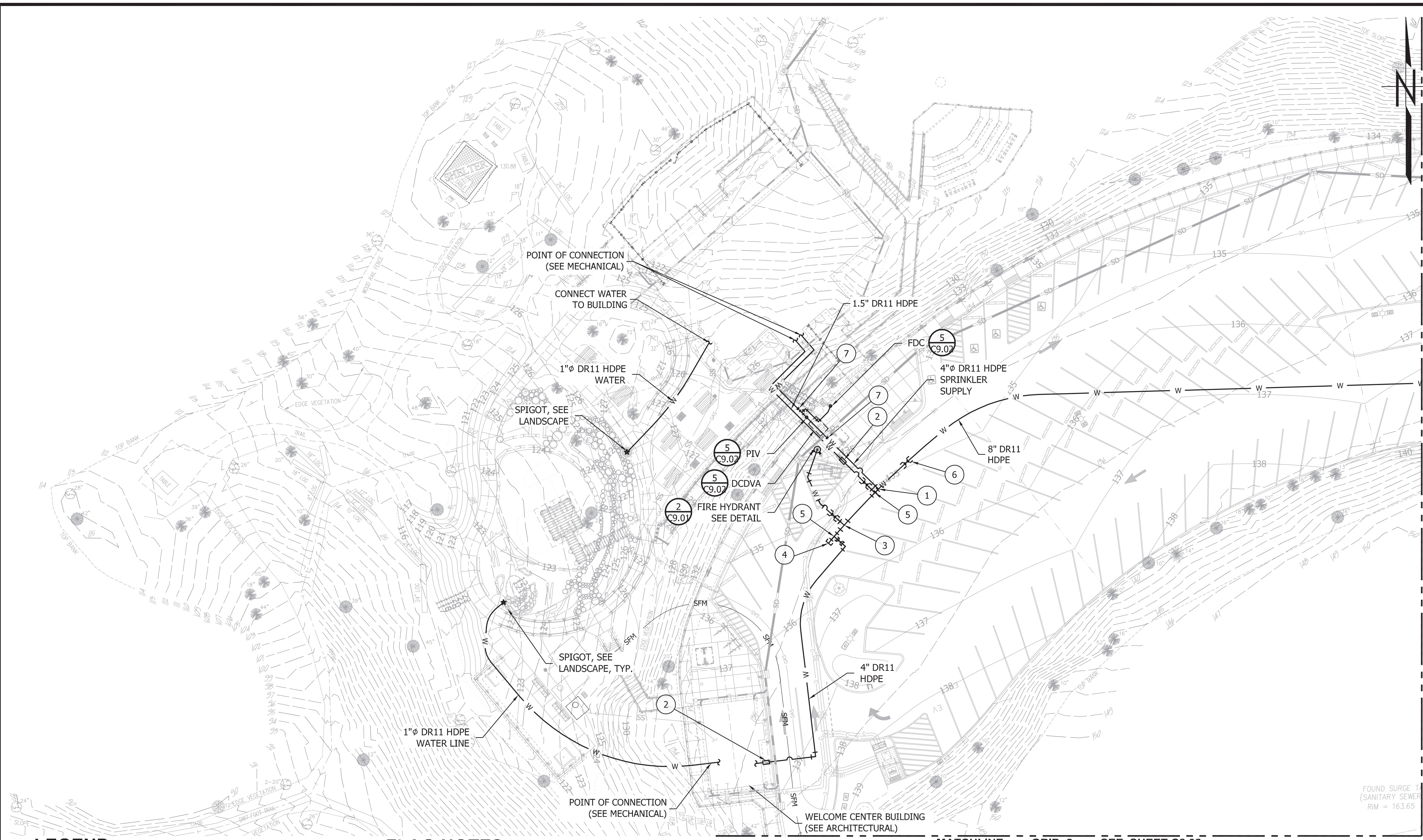
DAY USE DEVELOPMENT

WATER PLAN GRID 4

C8.04

SCALE 1" = 20' @ 34"x22" (D)
0 20 FEET

FILE NO. P675-2



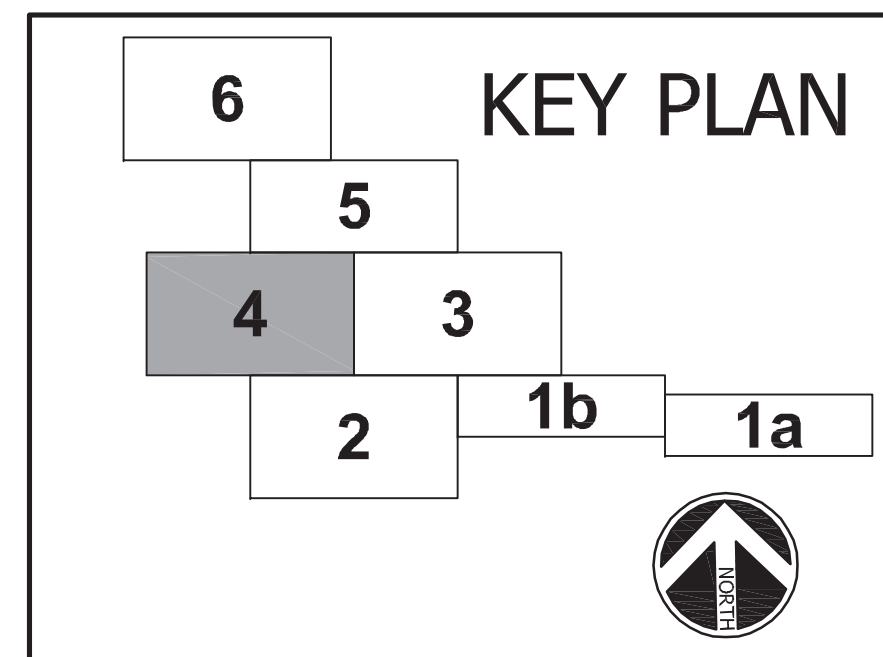
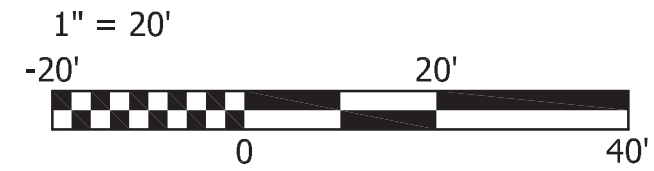
LEGEND

- SFM — SFM — NEW SEWER FORCE PIPE
- SS — SS — NEW SANITARY SEWER PIPE
- W — W — NEW HDPE WATER PIPE
- UE — UE — NEW UNDERGROUND ELECTRICAL (SEE ELECTRICAL)
- SD — SD — NEW STORM PIPE (SEE LANDSCAPE)
- SS — SS — EXISTING SEWER PIPE
- UGT — UGT — EXISTING TELEPHONE
- W — W — EXISTING WATER PIPE
- UGE — UGE — EXISTING ELECTRICAL
- ⊕ FIRE HYDRANT
- PIPE CROSSING
- ⊗ GATE VALVE

FLAG NOTES:

- ① 8"x4" HDPE TEE 4" RSGV AND VALVE BOX (FLxFL) THRUST BLOCK
- ② 1.5" WATER METER ASSEMBLY PER DETAIL
- ③ 8"x6" HDPE TEE AND FIRE HYDRANT ASSEMBLY PER DETAIL THRUST BLOCK
- ④ 8" BLIND FLANGE AND THRUST BLOCK
- ⑤ 8"x4" HDPE TEE 4" RSGV AND VALVE BOX (FLxFL) THRUST BLOCK
- ⑥ 8" RSGV (FLxFL)
- ⑦ HDPE TRANSITION FLxFL TO CLASS 52 DI

SITE PLAN 4



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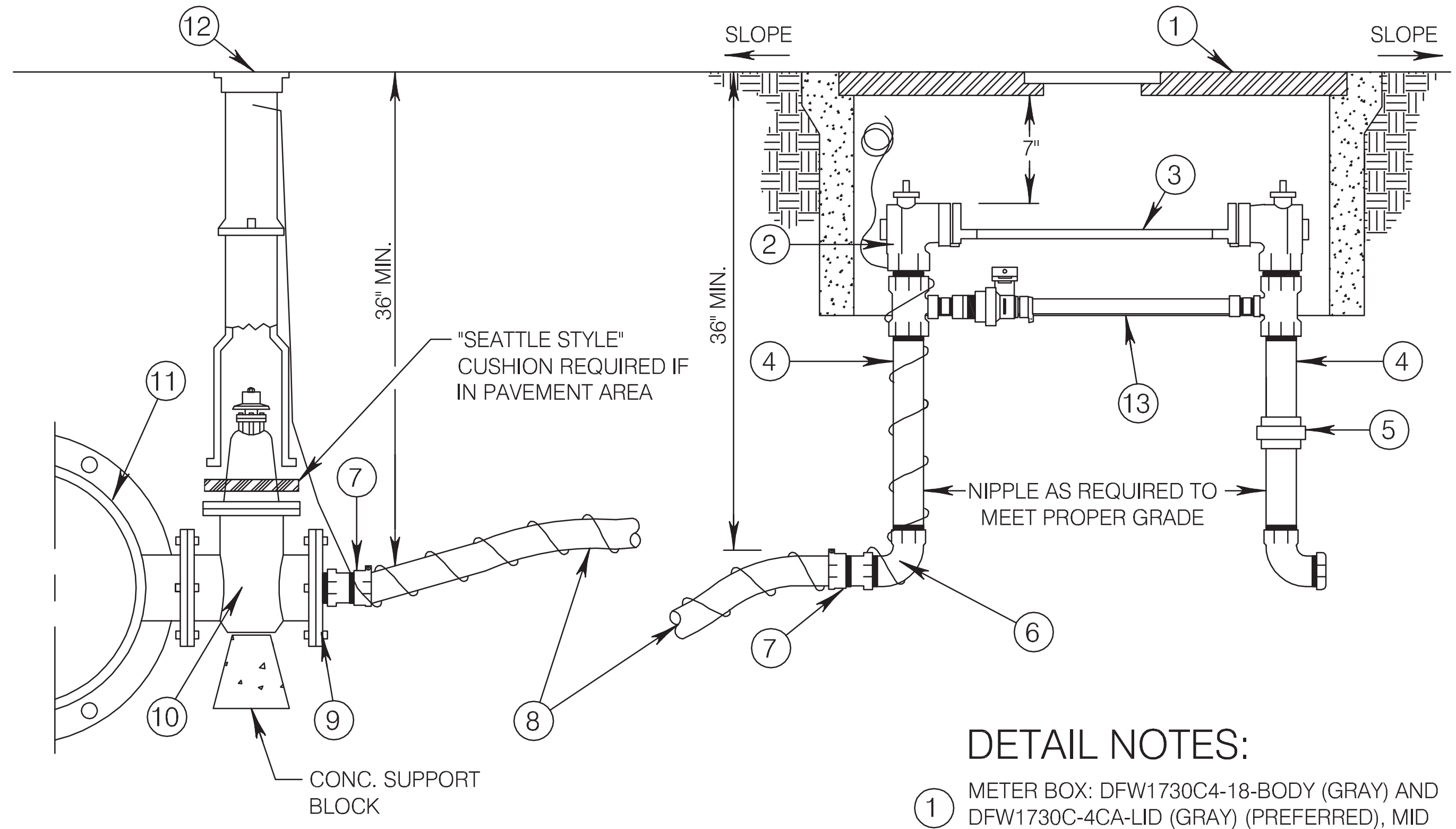
SHEET 84 OF 102

BID SET

MATCHLINE --- GRID 3 --- SEE SHEET C8.03

MATCHLINE --- GRID 2 --- SEE SHEET C8.02

FOUND SURGE T (SANITARY SEWER)
RIM = 163.65



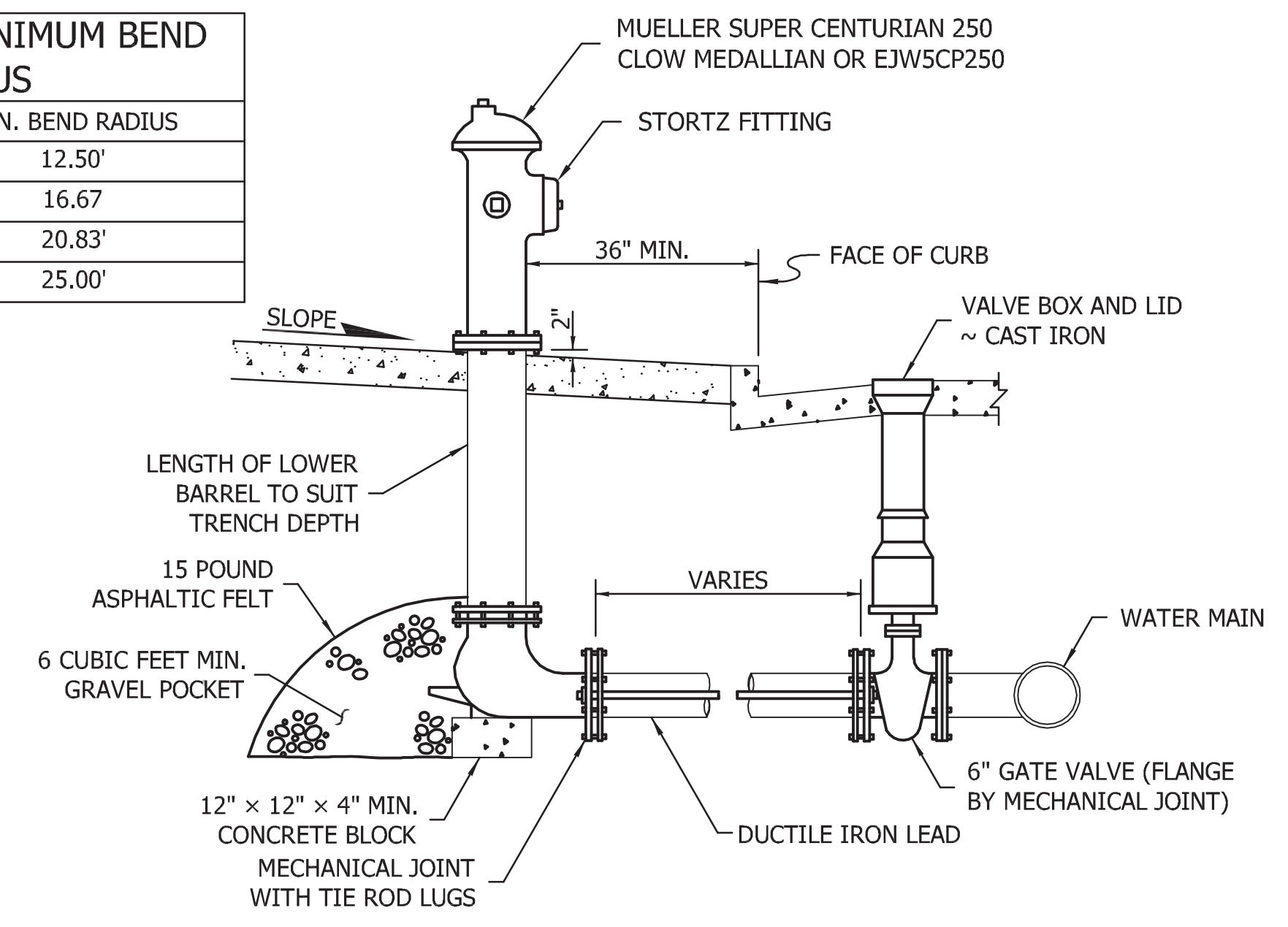
NOTES:

1. WATER METER SUPPLIED AND INSTALLED BY THE CONTRACTOR.
2. A 24" HORIZONTAL WAVE SHALL BE AT THE CONNECTION TO THE NEW MAIN.
3. NO SPLICES OR CRIMPING OF SERVICE LINE SHALL BE MADE.
4. SERVICE LINE SHALL BE PERPENDICULAR TO THE MAIN AND 30" MIN. COVER UNLESS OTHERWISE APPROVED BY THE ENGINEER.
5. METER BOX SHALL BE SET SQUARE TO THE BACK OF CURB WITH WATER METER CENTERED IN THE BOX. FOR INSTALLATION IN SIDEWALK, PLACE EXPANSION JOINTS A MIN. OF 6" BETWEEN BOX AND JOINT.
6. METER INSTALLATION SHALL PROVIDE ADEQUATE CLEARANCE BETWEEN BYPASS AND METER BOX WALL FOR OPERATING AND LOCKING BYPASS VALVE
7. STAINLESS STEEL INSERTS REQUIRED FOR ALL PACK JOINTS (COMPRESSION TYPE) FITTINGS.
8. GROUND LEVEL INSIDE METER BOX SHOULD BE UP TO BOTTOM OF METER STOP.
9. ALL WATER METERS UP TO 2" ARE TO BE BACKFILLED WITH 5/8" MINUS CRUSHED ROCK UP TO THE BOTTOM OF THE METER AND THE REMAINING AREA UP TO THE TOP OF THE REGISTER WITH ACCEPTED INSULATING MATERIAL, MEDIUM BARK OR SAW DUST.
10. PROVIDE A 3 FEET UNOBSTRUCTED CLEAR AREA AROUND THE METER.
11. CONTRACTOR WILL BE RESPONSIBLE TO PROTECT WATER SERVICES FROM FREEZING DURING CONSTRUCTION.
12. USE DIFFERENT COLOR TRACER WIRE ON CUSTOMER SIDE IF IN COMMON TRENCH.

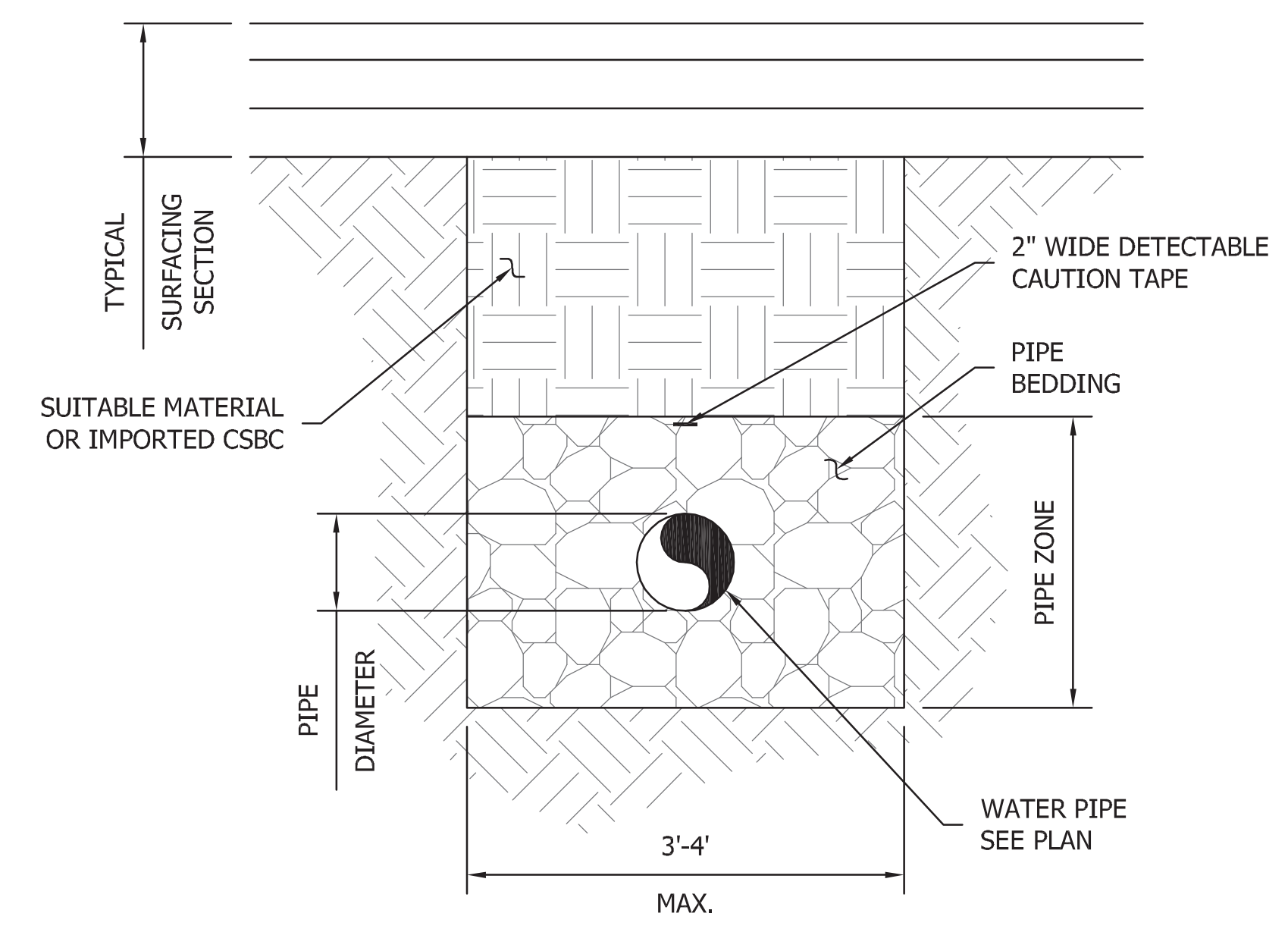
* (OR APPROVED EQUAL)

1 1.5" WATER SERVICE CONNECTION
(SEE LANDSCAPE FOR ACTUAL LOCATION OF METERS)

WATER PIPE MINIMUM BEND RADIUS	
PIPE DIA.	MIN. BEND RADIUS
6"	12.50'
8"	16.67'
10"	20.83'
12"	25.00'



2 FIRE HYDRANT DETAIL (PER GIG HARBOR)
(SEE LANDSCAPE FOR ACTUAL LOCATION OF HYDRANT.)



3 TYPICAL PIPE TRENCH

DETAIL NOTES:

- 1 METER BOX: DFW1730C4-18-BODY (GRAY) AND DFW1730C-4CA-LID (GRAY) (PREFERRED), MID STATES #MSBCF1730-18 w/#1730 DI RDR LID OR ARMORCAST 17" X 30" X 18" POLYMER CONCRETE BOX WITH 17" X 30" X 2" RPM COVER W/READ LID*.
- 2 1 1/2" SETTER: FORD #VBB86-C11290-01-NL OR AY MCDONALD 730F608WWFF 666 OR MUELLER 695B2427---25N.
- 3 1 1/2" WATER METER: SUPPLIED BY CONTRACTOR.
- 4 1 1/2" NIPPLE: BRASS, 4" LONG MIPT x MIPT.
- 5 1 1/2" UNION: BRASS.
- 6 1 1/2" 90° ELBOW: BRASS.
- 7 1 1/2" COUPLING: MIPT x PACK JOINT COMPRESSION AY MCDONALD FITTING #74753-33*
- 8 1 1/2" IPS SERVICE LINE: 200 PSI GRADE 3408 POLYETHYLENE WRAPPED WITH 10 GAUGE COATED SOLID CORE COPPER WIRE 12" OUT OF THE BOX.
- 9 4" REDUCER: COMPANION FLANGE WITH 1 1/2" TAP.
- 10 4" GATE VALVE: FL x FL (SEE SECTION 5-10.6)
- 11 WATER MAIN TEE: DUCTILE IRON WITH 4" BRANCH, MJ x FL (ON NEW MAINS) TAPPING TEE WITH 4" BRANCH, FL (ON EXISTING MAINS).
- 12 VALVE BOX: EAST JORDAN 8555* (SEE STD DETAIL 527) NO LEAD ON ALL BRASS FITTINGS
- 13 BYPASS MUST BE 1.5 INCH DIAMETER

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WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

WATER DETAILS

C9.01

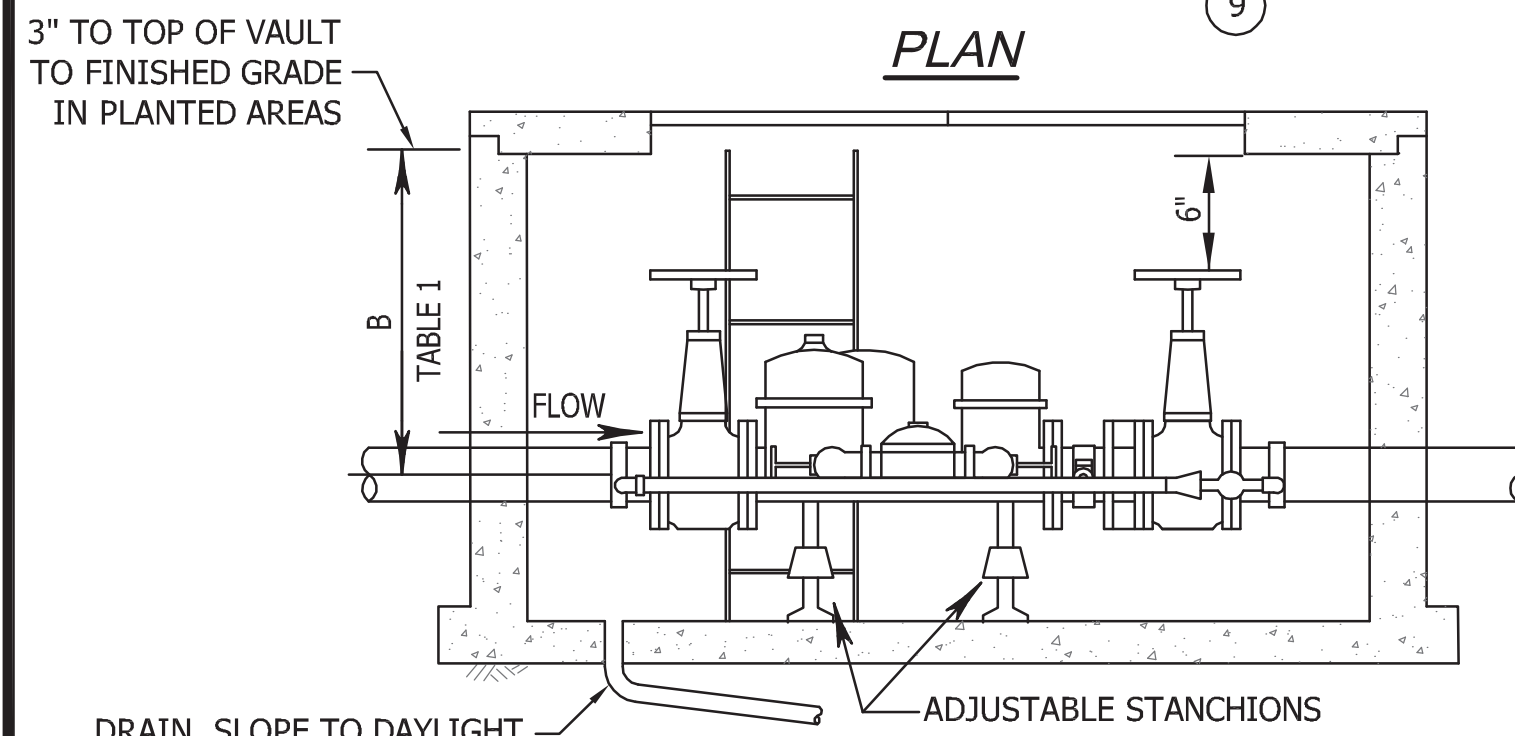
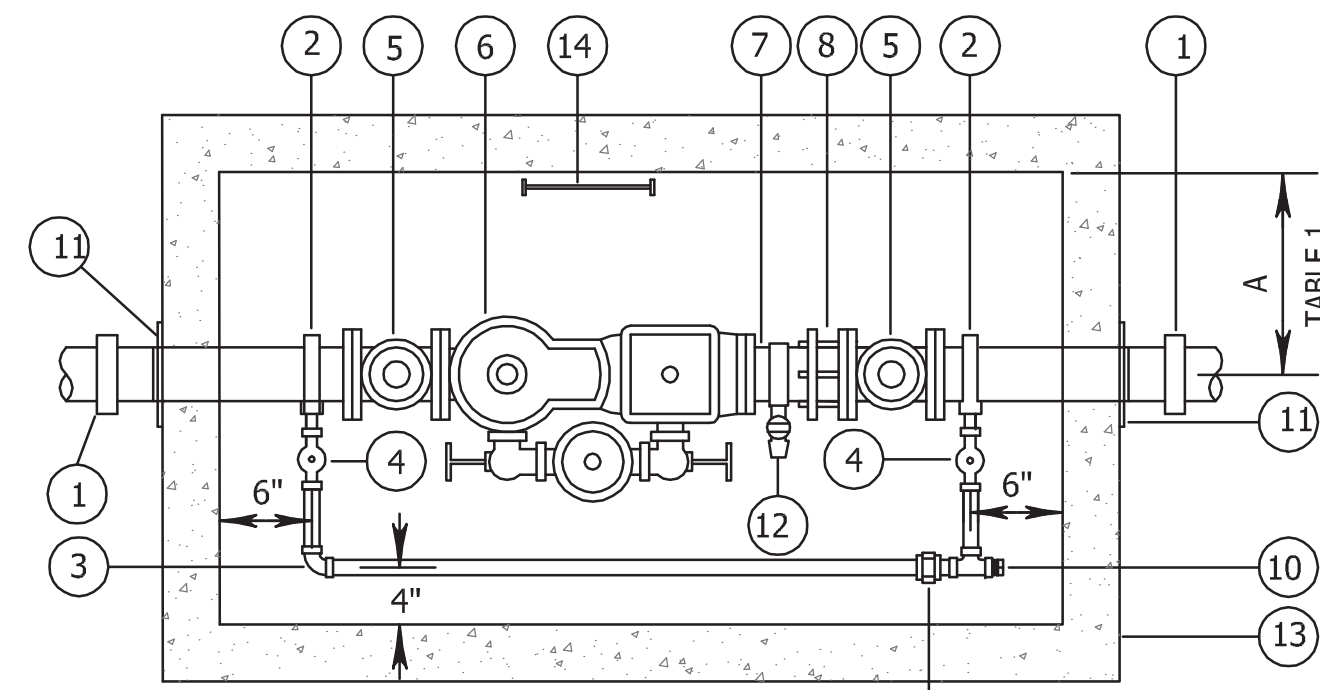
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MATERIAL LIST

- 1 FLEX. CPLG. TO FIT, ROCKWELL 441 OR EQUAL
- 2 SINGLE STRAP SERVICE CLAMP, ROMAC 101 OR EQUAL WITH IPS TAP, ROCKWELL 313.
- 3 90° BRASS ELBOW
- 4 BALL VALVE WITH PADLOCK WING OR LOCK CAP EQUAL TO FORD B11-666W WITH LOCK CAP OR B11-777W WITH LOCK CAP.
- 5 G.V. FL. (SECTION 5-9.6)
- 6 6" COMPOUND METER, AS APPROVED BY THE ENGINEER & TO BE FURNISHED BY CONTRACTOR.
- 7 CL50 C.I. ADPT. FL.xPE. LENGTH TO FIT.
- 8 CPLG. ADPT., FL. EQUAL TO ROCKWELL 912.
- 9 THREADED BRASS UNION
- 10 THREADED BRASS TEE WITH PLUG INSTALLED
- 11 SET SCREW RETAINER GLAND
- 12 SERVICE SADDLE, ROMAC 2025 OR EQUAL WITH CORP. STOP, AWWA TAPPER (CC) x M.I.P.T., FORD F900 OR EQUAL (SEE TABLE 1 FOR SIZE).
- 13 PRECAST CONCRETE VAULT BY UTILITY VAULT CO. WITH TWO 3'x 3' DIAMOND PLATE DOORS RATED FOR H-20 LOADING, (SEE TABLE 1 FOR MODEL NO.)
- 14 1-GALV. STEEL LADDER TO BE ATTACHED TO VAULT MOUNTED SUCH THAT LADDER IS DIRECTLY ABOVE EDGE OF ACCESS OPENING FOR EASE OF ACCESS.

NOTES:

- 1 METER TO READ IN CUBIC FEET.
- 2 VAULTS SHALL NOT BE INSTALLED IN AREAS WITH VEHICULAR TRAFFIC.
- 3 IF TURBO METER IS USED, WE REQUIRE A LENGTH OF STRAIGHT SPOOL NO LESS THAN 6 TIMES THE DIAMETER OF THE SERVICE PIPE AND A STRAINER, INSTALLED BETWEEN THE SHUTOFF GATE VALVE AND THE METER.



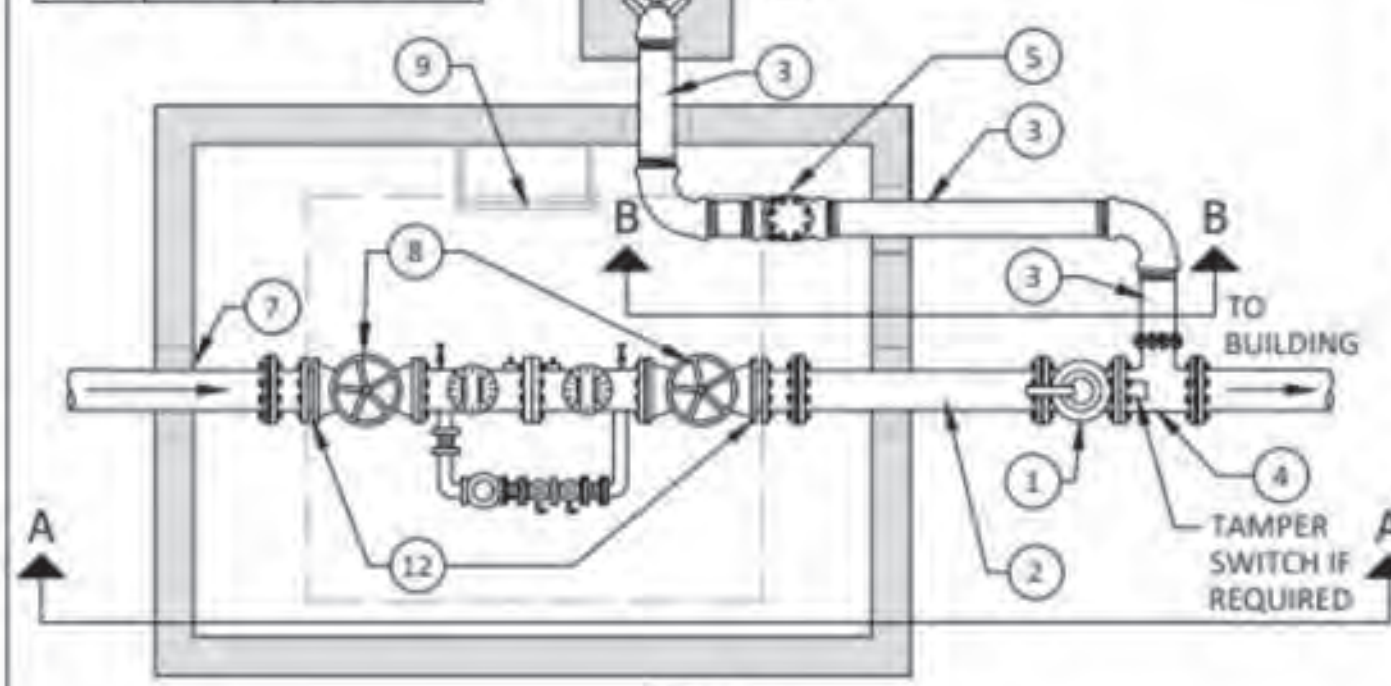
ELEVATION

TABLE 1

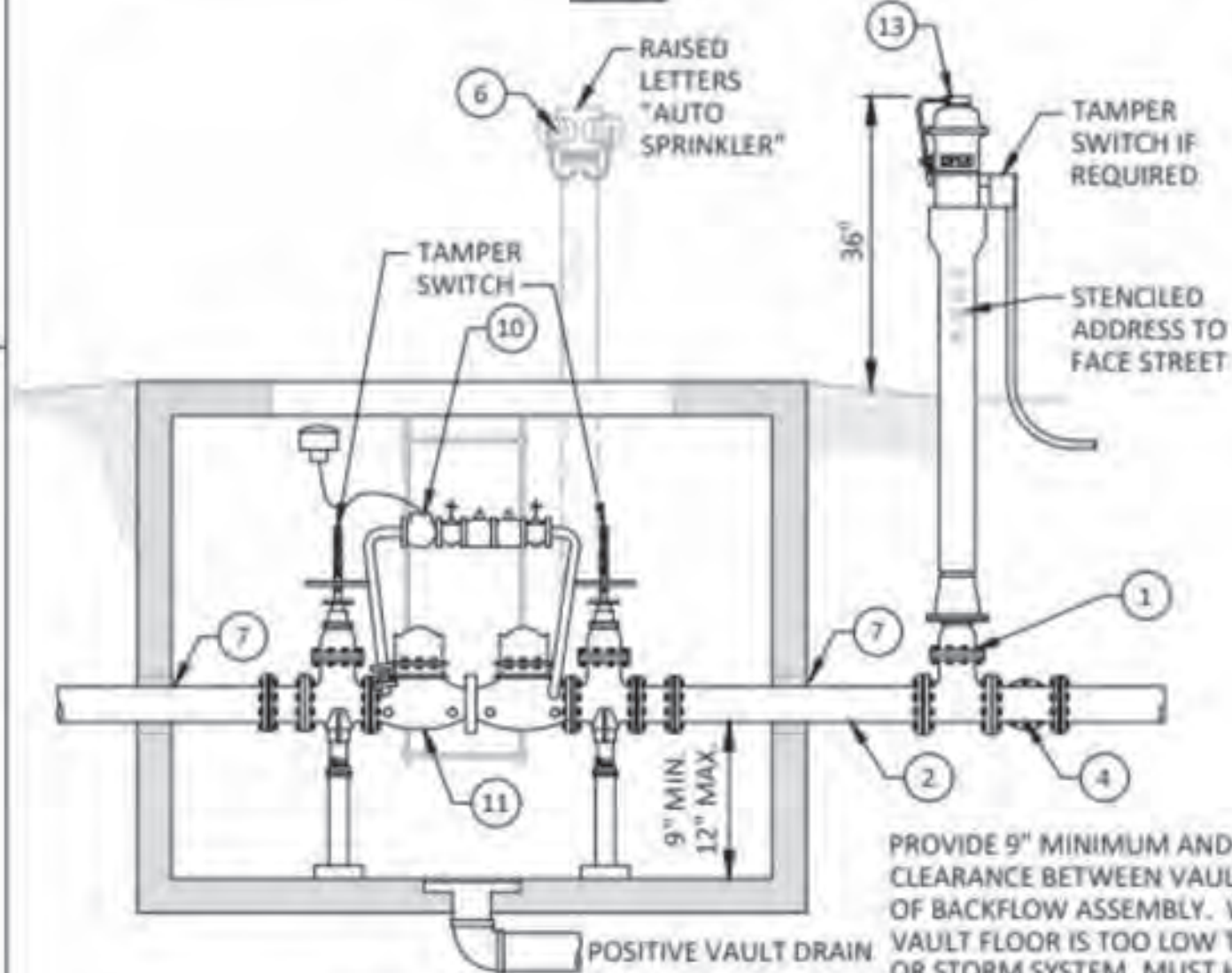
SERV. SIZE	ALL BRASS BY-PASS SIZE	11	MINIMUM CLEARANCES		VAULT MODEL MIN. SIZE
			A	B	
6"	2"	2"	12"	3'-2"	9'x6'x6'

6"Ø WATER SERVICE METER

UTILITY VAULT CO.		
SIZE	MODEL	CORNER
2 1/2'	844	64-2-332P
3'	844	64-2-332P
4'	575	57FL-2-332P
6'	577	57FL-2-332P
8'	4484	4484-TL2-332P
10'	3106	5106-TL3-332



PLAN



DCDVA ELEVATION A-A

PROVIDE 9" MINIMUM AND 12" MAXIMUM CLEARANCE BETWEEN VAULT FLOOR AND BOTTOM OF BACKFLOW ASSEMBLY. WHERE ELEVATION OF VAULT FLOOR IS TOO LOW TO DRAIN TO DAYLIGHT OR STORM SYSTEM, MUST HAVE 6" FLOOR OPENING FOR DRAINAGE (APPROVED BY THE CITY ENGINEER ON A CASE BY CASE BASIS ONLY).

FDC ELEVATION B-B

4" FDC AND PIV

PARTS

- 1 POST INDICATOR VALVE (PIV) PAINTED RED WITH TAMPER TO FIRE ALARM PANEL AND WITH STENCILED ADDRESS (WHITE, 2" HIGH TEXT).
- 2 DUCTILE IRON PIPE (SIZED AS REQUIRED) CLASS 52.
- 3 SCHEDULE 40 GALV. STEEL WRAPPED W/6MIL PLASTIC.
- 4 CLASS 52 DI TEE FL X FL.
- 5 SWING CHECK VALVE W/BALL DRIP ASSEMBLY.
- 6 FIRE DEPARTMENT CONNECTION (FDC), BRASS. PROVIDE KNOX LOCKING CAPS. EXPOSED GALVANIZED STEEL PIPE TO BE PAINTED RED. STENCIL ADDRESS (WHITE, 2" HIGH TEXT) ON PAINTED PIPE.
- 7 ALL PIPE THROUGH VAULT WALL SHALL BE CORE DRILLED AND HAVE A "LINK SEAL" (OR APPROVED EQUAL).
- 8 OS & Y VALVES WITH TAMPER SWITCH TO ALARM PANEL OR CHAIN AND PADLOCK.
- 9 1-GALV. LADDER WITH PULL-UP LADDER EXTENSION TO BE BOLTED TO VAULT FLOOR AND TO VAULT WALL, MOUNTED SUCH THAT LADDER IS DIRECTLY ABOVE THE EDGE OF ACCESS OPENING FOR EASE OF ACCESS.
- 10 UL-FM LISTED SOFTSEATED WA STATE APPROVED DOUBLE CHECK DETECTOR VALVE ASSEMBLY INCLUDING 2-0.5.8Y RESILIENT SEATED GATE VALVES, TEST COCKS, 3/4" BRASS OR COPPER BYPASS WITH INLINE VALVES, 5/8" X 3/4" NEPTUNE METER W/E-CODER R900 I, CU FT W/STUB ANTENNA & A 3/4" DOUBLE CHECK VALVE ASSEMBLY.
- 11 STATE APPROVED DOUBLE CHECK DETECTOR ASSEMBLY.
- 12 RFCA (RESTRAINED FLANGE COUPLING ADAPTER).
- 13 CUTABLE PADLOCK WITH KEY IN KNOX BOX.

NOTES

- 1 TEE AND GATE VALVE REQUIRED ON MAIN.
- 2 SINGLE DETECTOR CHECKS ARE NOT APPROVED BACKFLOW PREVENTION DEVICES.
- 3 ASSEMBLY REQUIRES CERTIFICATION UPON INSTALLATION AND RE-CERTIFICATION ANNUALLY BY OWNER.
- 4 ALL TEST COCKS MUST HAVE BRASS PLUGS.
- 5 ROUND MANHOLE LIDS ARE NOT TO BE USED.
- 6 INSIDE DEPTH IS TO BE KEPT AT A MINIMUM AS PER DIMENSION IN SKETCHES ABOVE AND/OR AS APPROVED BY CITY OF EVERETT UTILITIES DEPARTMENT.
- 7 METER SHALL BE INSTALLED SUCH THAT IT CAN BE READ WITH ACCESS HATCH OPEN AND WITHOUT ENTERING THE VAULT.
- 8 ALL DIMENSIONS ARE MINIMUM CLEARANCE.
- 9 ALL BACKFLOW DEVICES WILL BE INSTALLED IN A VAULT OUTSIDE THE BUILDING UNLESS OTHERWISE APPROVED BY UTILITIES SUPERINTENDENT.
- 10 FIRE SERVICE PIPINGS FROM MAIN TO BUILDING SHALL BE RESTRAINED.
- 11 PROVISIONS FOR DRAINAGE OF THE VAULT SHALL BE IN THE FOLLOWING ORDER OF PRECEDENCE:
A) VAULT DRAIN TO DAYLIGHT
B) VAULT DRAIN TO STORM DRAIN SYSTEM (IF PRACTICAL)
C) IF NO POSSIBLE MEANS OF GRAVITY DRAIN, THEN INSTALL SUMP PUMP
- 12 SWING CHECK VALVE ON FDC LINE MUST BE LOCATED IN A VAULT. IF OUTSIDE OF DCDA VAULT, MUST BE IN MINIMUM 4'x4' VAULT.
- 13 PIV LOCATION MUST BE DOWNSTREAM OF DCDA AND UPSTREAM OF FDC.
- 14 NEW FDC MUST BE LOCATED WITHIN 75' OF A FIRE HYDRANT (OR 100' FOR AN EXISTING BUILDING BEING RETROFIT FOR SPRINKLERS). NEW FIRE HYDRANT INSTALLATION MAY BE NEEDED TO MEET CODE REQUIREMENT

TYPICAL WHEN FIRE ROOM IS MORE THAN 70' FROM MAIN

EVERETT WASHINGTON PUBLIC WORKS DEPARTMENT

DOUBLE CHECK DETECTOR VALVE ASSEMBLY W/FDC & PIV (DCDA) 2" & LARGER SERVICE

515

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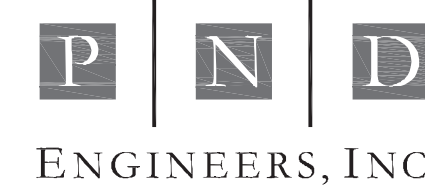
PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

VAULT DETAILS



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C9.02

SYMBOLS AND ABBREVIATIONS

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

PANELBOARDS

- 208V SYSTEM PANELBOARD
- 480V SYSTEM PANELBOARD

CIRCUITS
EMERGENCY NORMAL

LIGHTING

- N/A LOWER-CASE LETTER NEAR FIXTURE DENOTES SWITCH LEG, TYP
- RECESSED RECTANGULAR FIXTURE, DRAWN TO SCALE
- SURFACE MOUNTED RECTANGULAR FIXTURE, DRAWN TO SCALE
- WALL MOUNTED RECTANGULAR FIXTURE, LENGTH TO SCALE (NUMBER OF MOUNTING POINTS WILL VARY WITH FIXTURE LENGTH AND ARE NOT INDICATED)
- RECESSED DOWNLIGHT FIXTURE
- PENDANT MOUNTED FIXTURE
- LINEAR PENDANT MOUNTED FIXTURE, LENGTH TO SCALE (NUMBER OF MOUNTING POINTS WILL VARY WITH FIXTURE LENGTH AND ARE NOT INDICATED)
- WALL MOUNTED FIXTURE
- EXIT SIGN, FILLED SIDES ARE ILLUMINATED, DIRECTIONAL ARROWS AS INDICATED
- N/A EMERGENCY BATTERY PACK
- N/A EXIT WITH EMERGENCY BATTERY PACK
- N/A CEILING MOUNTED WALL WASH FIXTURE, OPEN AREA INDICATES DIRECTION OF ILLUMINATION
- FIXTURE IDENTIFICATION, SEE LIGHTING FIXTURE SCHEDULE

LIGHTING SWITCHES AND CONTROLS

- LOWER-CASE LETTER NEAR SWITCH DENOTES CIRCUIT CONTROLLED (TYP)
- SINGLE POLE SWITCH
- 3-WAY SWITCH
- OCCUPANCY SENSOR SWITCH
- DIMMER SWITCH

CIRCUITS

- RACEWAY CONCEALED IN CEILING OR WALL. HASH MARKS INDICATE NUMBER OF WIRES. #12 AWG WIRE UNLESS OTHERWISE NOTED. EXPOSED RACEWAY IS ALLOWED ONLY WHERE NOTED.
- HOT (SHORT HASH MARK)
- NEUTRAL (LONG HASH MARK)
- GROUND WIRE (JOGGED HASH MARK)
- EXISTING RACEWAY (IF HASH MARKS ARE SHOWN, PULL NEW CONDUCTORS)
- RACEWAY BELOW SLAB OR UNDERGROUND
- RACEWAY UP
- RACEWAY DOWN
- RACEWAY STUB-OUT WITH BUSHING
- CIRCUIT CONTINUATION
- HOME RUN TO PANEL OR LOCATION NOTED
- JUNCTION BOX
- PULL BOX
- TA-38 COMM VAULT

CIRCUITS
EMERGENCY NORMAL

RECEPTACLES

- DUPLEX RECEPTACLE, 120V, 20A
- GFCI DUPLEX RECEPTACLE, 120V, 20A
- WEATHERPROOF, GFCI DUPLEX RECEPTACLE, 120V, 20A
- DOUBLE DUPLEX RECEPTACLE, 120V, 20A

RECEPTACLE TYPES

- MOUNTED 3" ABOVE COUNTER BACKSLASH
- GROUND FAULT CIRCUIT INTERRUPTER
- GROUND FAULT CIRCUIT INTERRUPTER WITH WEATHER PROOF COVER

CONTROLS

- FUSED DISCONNECT SWITCH (FUSE RATING INDICATED)

EQUIPMENT

- EQUIPMENT CONNECTION, E = EMERGENCY POWER

WORK DEFINITION

- FLAG NOTE
- REVISION IDENTIFICATION
- EQUIPMENT IDENTIFICATION
- EQUIPMENT IDENTIFICATION
- DETAIL REFERENCE
- DETAIL REFERENCE W/ORIGINATING SHEET REFERENCE
- SECTION REFERENCE
- SECTION REFERENCE W/ORIGINATING SHEET REFERENCE
- ELEVATION REFERENCE
- PROJECT NORTH REFERENCE
- PROJECT NORTH REFERENCE W/TRUE NORTH REFERENCE
- NEW WORK
- EXISTING
- FUTURE
- REMOVE EXISTING ELECTRICAL EQUIPMENT

OUTLET MOUNTING HEIGHTS

SPECIAL OUTLET HEIGHTS ARE SHOWN ON THE ELECTRICAL DRAWINGS OR ON THE ARCHITECTURAL DRAWINGS. IF SPECIAL OUTLET HEIGHTS ARE NOT SHOWN OR REQUIRED, THEN LOCATE OUTLETS AS NOTED BELOW. OUTLET HEIGHTS ARE MEASURED FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE OUTLET UNLESS OTHERWISE NOTED.

RECEPTACLES	18 INCHES (460 mm) VERTICALLY MOUNTED
SWITCHES	43 INCHES (1095 mm) VERTICALLY MOUNTED
PANELBOARDS	72 INCHES (1830 mm) TO TOP OF PANELBOARD IF BOX < 68 INCHES (1730 mm) HIGH, OTHERWISE PER NEC 404.8

GENERAL NOTES

- COMPLY WITH THE NATIONAL ELECTRICAL CODE AS ADOPTED AND AMENDED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- THE LOCATIONS OF ELECTRICAL DEVICES OR LIGHTING FIXTURES INDICATED ON ARCHITECTURAL PLANS ELEVATIONS OR SECTIONS TAKE PRECEDENCE OVER LOCATIONS INDICATED ON THE ELECTRICAL DRAWINGS.
- REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LIGHTING FIXTURE LOCATIONS.
- FOR LIGHTING CONTROLS WHICH INCLUDE OCCUPANT SENSING AUTOMATIC CONTROLS, AUTOMATIC SHUT-OFF CONTROLS, OCCUPANCY SENSORS, OR AUTOMATIC TIME SWITCHES THE LIGHTING CONTROLS SHALL BE TESTED TO ENSURE THAT CONTROL DEVICES, COMPONENTS, EQUIPMENT, AND SYSTEMS ARE CALIBRATED, ADJUSTED, AND OPERATE IN ACCORDANCE WITH PROJECT PLANS AND SPECIFICATIONS. SEQUENCE OF OPERATION SHALL ALSO BE FUNCTIONALLY TESTED TO ENSURE IT IS OPERATING IN ACCORDANCE WITH PROJECT PLANS AND SPECIFICATIONS. A COMPLETE REPORT OF TEST PROCEDURES AND RESULTS SHALL BE PREPARED AND FILED WITH THE OWNER.

DATE	APP.	INT.	REVISIONS	NO.

ACTION	BY	DATE
DESIGNED	CBF	NOV. 2023
DRAWN	JTW	NOV. 2023
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PROJECT ENGINEER

WASHINGTON
STATE
PARKS
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KOPACHUCK
STATE PARK

DAY USE
DEVELOPMENT

SITE ELECTRICAL
SYMBOLS AND
ABBREVIATIONS

E0.00

SCALE
AS NOTED

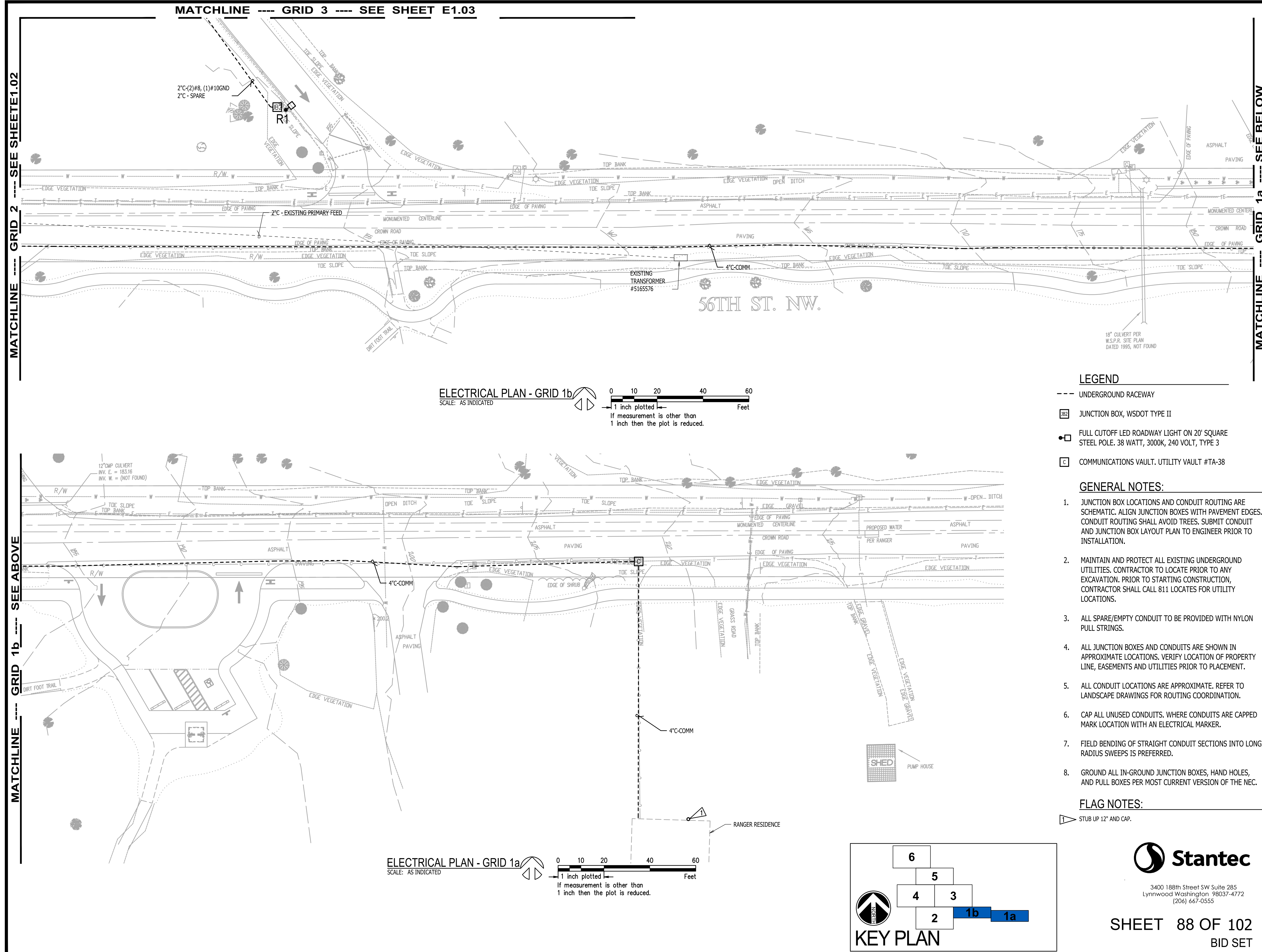
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SHEET 87 OF 102
BID SET

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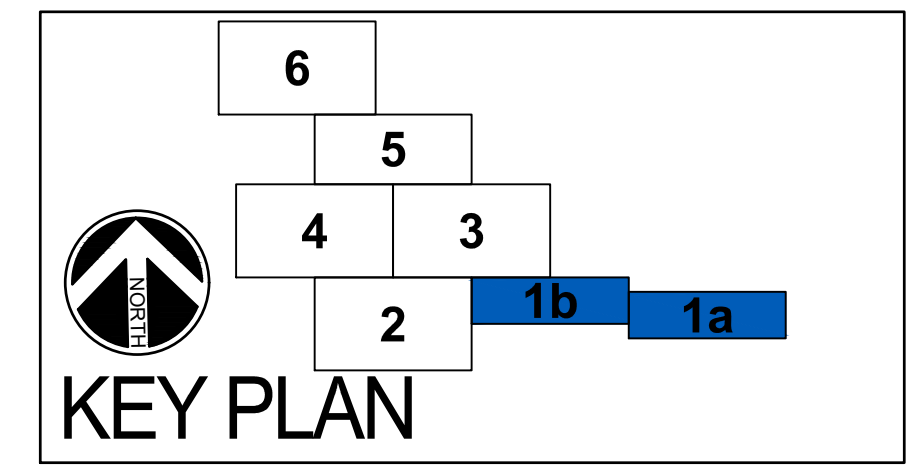
MATCHLINE --- GRID 3 --- SEE SHEET E1.03

MATCHLINE --- GRID 2 --- SEE SHEET E1.02

MATCHLINE --- GRID 1a --- SEE BELOW

ELECTRICAL PLAN - GRID 1b
 SCALE: AS INDICATED
 0 10 20 40 60 Feet
 1 inch plotted
 If measurement is other than 1 inch then the plot is reduced.

ELECTRICAL PLAN - GRID 1a
 SCALE: AS INDICATED
 0 10 20 40 60 Feet
 1 inch plotted
 If measurement is other than 1 inch then the plot is reduced.



- LEGEND**
- UNDERGROUND RACEWAY
 - JB JUNCTION BOX, WSDOT TYPE II
 - LED FULL CUTOFF LED ROADWAY LIGHT ON 20' SQUARE STEEL POLE. 38 WATT, 3000K, 240 VOLT, TYPE 3
 - CV COMMUNICATIONS VAULT. UTILITY VAULT #TA-38

- GENERAL NOTES:**
1. JUNCTION BOX LOCATIONS AND CONDUIT ROUTING ARE SCHEMATIC. ALIGN JUNCTION BOXES WITH PAVEMENT EDGES. CONDUIT ROUTING SHALL AVOID TREES. SUBMIT CONDUIT AND JUNCTION BOX LAYOUT PLAN TO ENGINEER PRIOR TO INSTALLATION.
 2. MAINTAIN AND PROTECT ALL EXISTING UNDERGROUND UTILITIES. CONTRACTOR TO LOCATE PRIOR TO ANY EXCAVATION. PRIOR TO STARTING CONSTRUCTION, CONTRACTOR SHALL CALL 811 LOCATES FOR UTILITY LOCATIONS.
 3. ALL SPARE/EMPTY CONDUIT TO BE PROVIDED WITH NYLON PULL STRINGS.
 4. ALL JUNCTION BOXES AND CONDUITS ARE SHOWN IN APPROXIMATE LOCATIONS. VERIFY LOCATION OF PROPERTY LINE, EASEMENTS AND UTILITIES PRIOR TO PLACEMENT.
 5. ALL CONDUIT LOCATIONS ARE APPROXIMATE. REFER TO LANDSCAPE DRAWINGS FOR ROUTING COORDINATION.
 6. CAP ALL UNUSED CONDUITS. WHERE CONDUITS ARE CAPPED MARK LOCATION WITH AN ELECTRICAL MARKER.
 7. FIELD BENDING OF STRAIGHT CONDUIT SECTIONS INTO LONG RADIUS SWEEPS IS PREFERRED.
 8. GROUND ALL IN-GROUND JUNCTION BOXES, HAND HOLES, AND PULL BOXES PER MOST CURRENT VERSION OF THE NEC.

- FLAG NOTES:**
- ▽ STUB UP 12" AND CAP.

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME		
		DATE
		APP.
		INT.
		REVISIONS
		NO.
ACTION	BY	DATE
DESIGNED	CBF	NOV. 2023
DRAWN	JTW	NOV. 2023
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WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

SITE ELECTRICAL PLAN - GRID 1

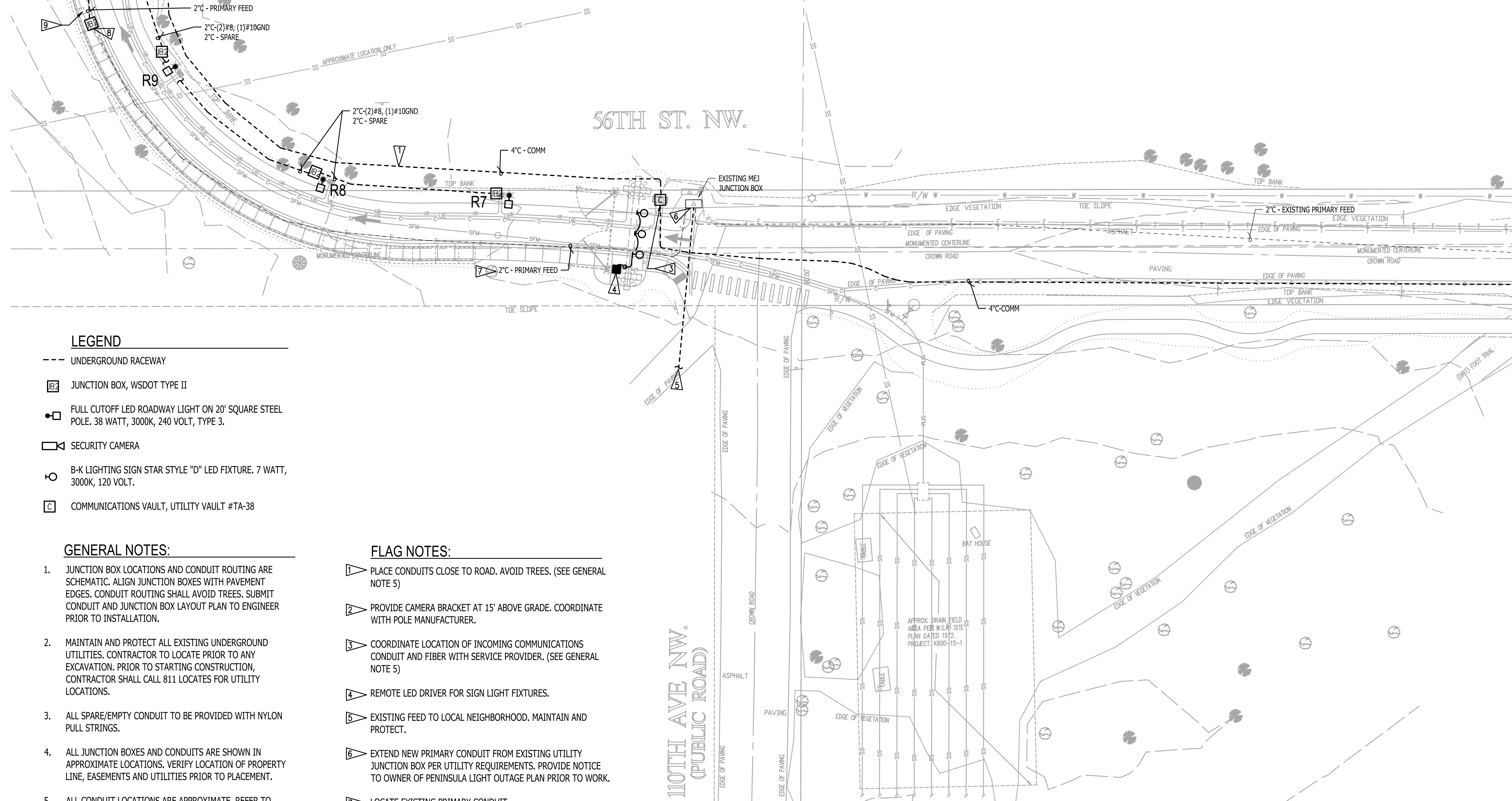
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SCALE AS NOTED



SHEET 88 OF 102
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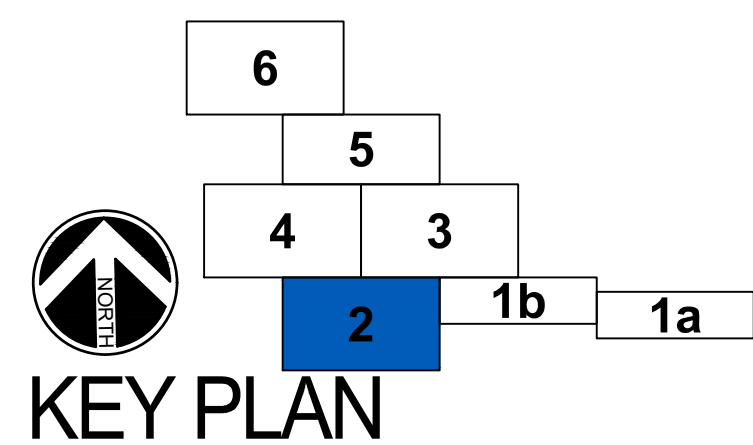
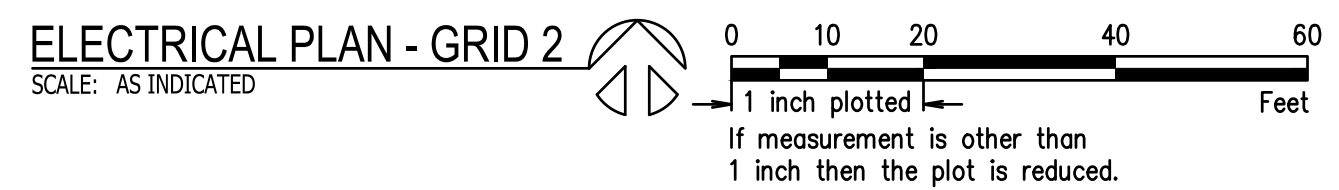
PARKS FILE#



- LEGEND**
- UNDERGROUND RACEWAY
 - [R7] JUNCTION BOX, WSDOT TYPE II
 - FULL CUTOFF LED ROADWAY LIGHT ON 20' SQUARE STEEL POLE. 38 WATT, 3000K, 240 VOLT, TYPE 3.
 - SECURITY CAMERA
 - B-K LIGHTING SIGN STAR STYLE "D" LED FIXTURE. 7 WATT, 3000K, 120 VOLT.
 - [C] COMMUNICATIONS VAULT, UTILITY VAULT #TA-38

- GENERAL NOTES:**
1. JUNCTION BOX LOCATIONS AND CONDUIT ROUTING ARE SCHEMATIC. ALIGN JUNCTION BOXES WITH PAVEMENT EDGES. CONDUIT ROUTING SHALL AVOID TREES. SUBMIT CONDUIT AND JUNCTION BOX LAYOUT PLAN TO ENGINEER PRIOR TO INSTALLATION.
 2. MAINTAIN AND PROTECT ALL EXISTING UNDERGROUND UTILITIES. CONTRACTOR TO LOCATE PRIOR TO ANY EXCAVATION. PRIOR TO STARTING CONSTRUCTION, CONTRACTOR SHALL CALL 811 LOCATES FOR UTILITY LOCATIONS.
 3. ALL SPARE/EMPTY CONDUIT TO BE PROVIDED WITH NYLON PULL STRINGS.
 4. ALL JUNCTION BOXES AND CONDUITS ARE SHOWN IN APPROXIMATE LOCATIONS. VERIFY LOCATION OF PROPERTY LINE, EASEMENTS AND UTILITIES PRIOR TO PLACEMENT.
 5. ALL CONDUIT LOCATIONS ARE APPROXIMATE. REFER TO LANDSCAPE DRAWINGS FOR ROUTING COORDINATION.
 6. CAP ALL UNUSED CONDUITS. WHERE CONDUITS ARE CAPPED MARK LOCATION WITH AN ELECTRICAL MARKER.
 7. FIELD BENDING OF STRAIGHT CONDUIT SECTIONS INTO LONG RADIUS SWEEPS IS PREFERRED.
 8. GROUND ALL IN-GROUND JUNCTION BOXES, HAND HOLES, AND PULL BOXES PER MOST CURRENT VERSION OF THE NEC.

- FLAG NOTES:**
1. PLACE CONDUITS CLOSE TO ROAD. AVOID TREES. (SEE GENERAL NOTE 5)
 2. PROVIDE CAMERA BRACKET AT 15' ABOVE GRADE. COORDINATE WITH POLE MANUFACTURER.
 3. COORDINATE LOCATION OF INCOMING COMMUNICATIONS CONDUIT AND FIBER WITH SERVICE PROVIDER. (SEE GENERAL NOTE 5)
 4. REMOTE LED DRIVER FOR SIGN LIGHT FIXTURES.
 5. EXISTING FEED TO LOCAL NEIGHBORHOOD. MAINTAIN AND PROTECT.
 6. EXTEND NEW PRIMARY CONDUIT FROM EXISTING UTILITY JUNCTION BOX PER UTILITY REQUIREMENTS. PROVIDE NOTICE TO OWNER OF PENINSULA LIGHT OUTAGE PLAN PRIOR TO WORK.
 7. LOCATE EXISTING PRIMARY CONDUIT.
 8. INTERCEPT AND EXTEND EXISTING PRIMARY CONDUIT TO NEW PAD MOUNT TRANSFORMER PER PENINSULA LIGHT REQUIREMENTS.
 9. ABANDON EXISTING CONDUIT. COORDINATE WITH PENINSULA LIGHT.



Stantec

3400 188th Street SW Suite 285
Lynnwood Washington 98037-4772
(206) 667-0555

SHEET 89 OF 102
BID SET

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	CBF	NOV. 2023
DRAWN	JTW	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		



PROJECT ENGINEER

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION

**KOPACHUCK
STATE PARK**

**DAY USE
DEVELOPMENT**

**SITE ELECTRICAL
PLAN - GRID 2**

E1.02

SCALE
AS NOTED

PARKS FILE#

	DATE
	APP.
	INT.
	REVISIONS
	NO.

ACTION	BY	DATE
DESIGNED	CBF	NOV. 2023
DRAWN	JTW	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

SITE ELECTRICAL PLAN - GRID 3

E1.03

SCALE AS NOTED

PARKS FILE#

LEGEND

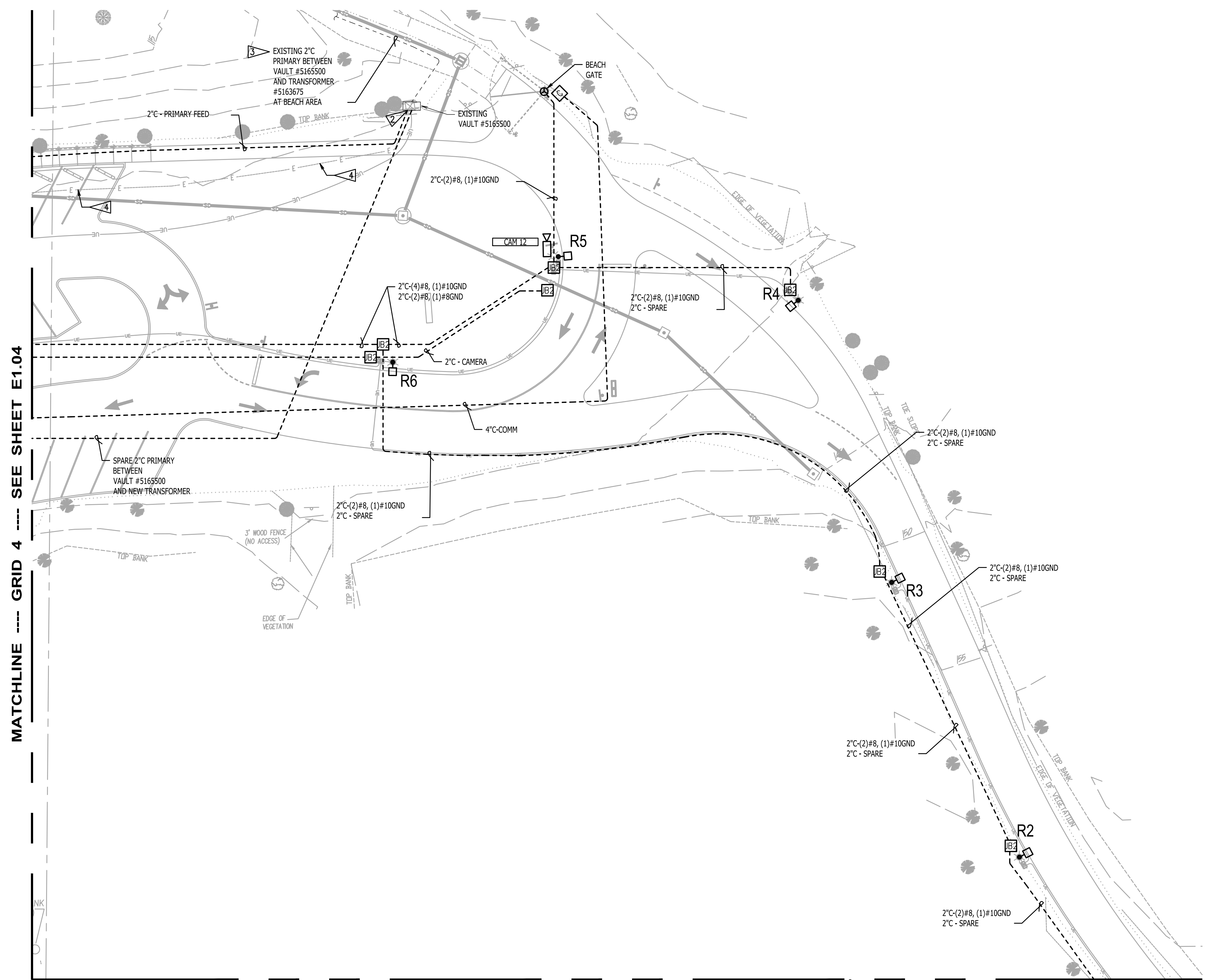
- UNDERGROUND RACEWAY
- [JB] JUNCTION BOX, WSDOT TYPE II
- [JB] JUNCTION BOX, FOGTITE SEATTLE TYPE III
- [L] FULL CUTOFF LED ROADWAY LIGHT ON 20' SQUARE STEEL POLE. 38 WATT, 3000K, 240 VOLT, TYPE 3
- [SC] SECURITY CAMERA
- [CV] COMMUNICATIONS VAULT, UTILITY VAULT #TA-38

GENERAL NOTES:

1. JUNCTION BOX LOCATIONS AND CONDUIT ROUTING ARE SCHEMATIC. ALIGN JUNCTION BOXES WITH PAVEMENT EDGES. CONDUIT ROUTING SHALL AVOID TREES. SUBMIT CONDUIT AND JUNCTION BOX LAYOUT PLAN TO ENGINEER PRIOR TO INSTALLATION.
2. MAINTAIN AND PROTECT ALL EXISTING UNDERGROUND UTILITIES. CONTRACTOR TO LOCATE PRIOR TO ANY EXCAVATION. PRIOR TO STARTING CONSTRUCTION, CONTRACTOR SHALL CALL 811 LOCATES FOR UTILITY LOCATIONS.
3. ALL SPARE/EMPTY CONDUIT TO BE PROVIDED WITH NYLON PULL STRINGS.
4. ALL JUNCTION BOXES AND CONDUITS ARE SHOWN IN APPROXIMATE LOCATIONS. VERIFY LOCATION OF PROPERTY LINE, EASEMENTS AND UTILITIES PRIOR TO PLACEMENT.
5. ALL CONDUIT LOCATIONS ARE APPROXIMATE. REFER TO LANDSCAPE DRAWINGS FOR ROUTING COORDINATION.
6. CAP ALL UNUSED CONDUITS. WHERE CONDUITS ARE CAPPED MARK LOCATION WITH AN ELECTRICAL MARKER.
7. FIELD BENDING OF STRAIGHT CONDUIT SECTIONS INTO LONG RADIUS SWEEPS IS PREFERRED.
8. GROUND ALL IN-GROUND JUNCTION BOXES, HAND HOLES, AND PULL BOXES PER MOST CURRENT VERSION OF THE NEC.

FLAG NOTES:

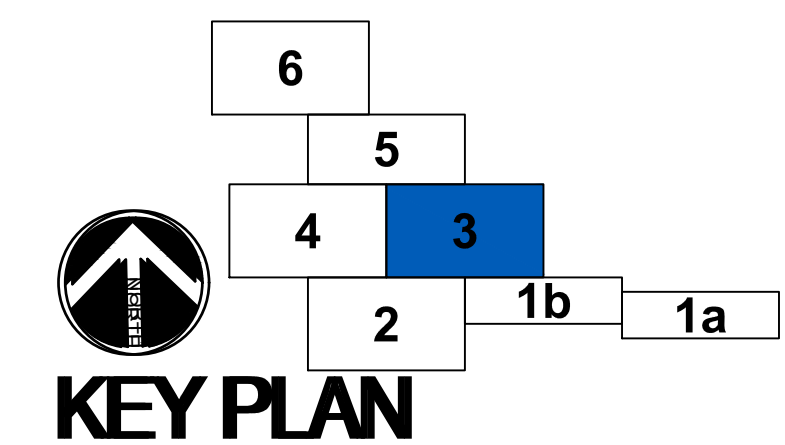
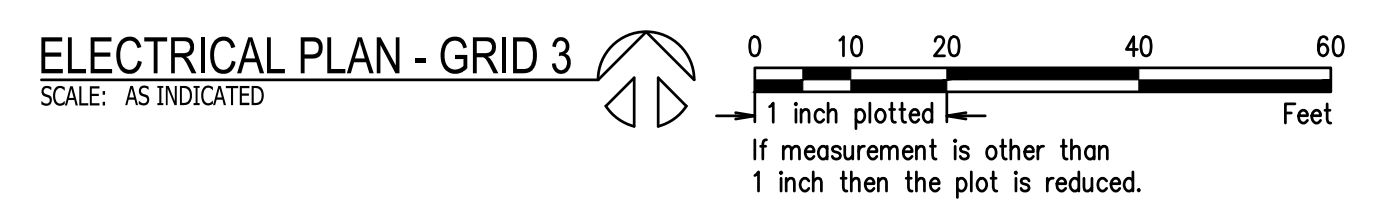
1. PROVIDE CAMERA BRACKET AT 15' ABOVE GRADE. COORDINATE WITH POLE MANUFACTURER.
2. INTERCEPT EXISTING 2" C PRIMARY FEED FROM NEW TRANSFORMER. COORDINATE WITH PENINSULA LIGHT.
3. MAINTAIN AND PROTECT.
4. ABANDON EXISTING CONDUIT. COORDINATE WITH PENINSULA LIGHT.



MATCHLINE --- GRID 4 --- SEE SHEET E1.04

MATCHLINE --- GRID 2 --- SEE SHEET E1.02

MATCHLINE --- GRID 1b --- SEE SHEET E1.01 (top)



SHEET 90 OF 102
BID SET

	DATE
	APP.
	INT.
	REVISIONS
	NO.

ACTION	BY	DATE
DESIGNED	CBF	NOV. 2023
DRAWN	JTW	NOV. 2023
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CHECKED (HDQTS.)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

SITE ELECTRICAL PLAN - GRID 4

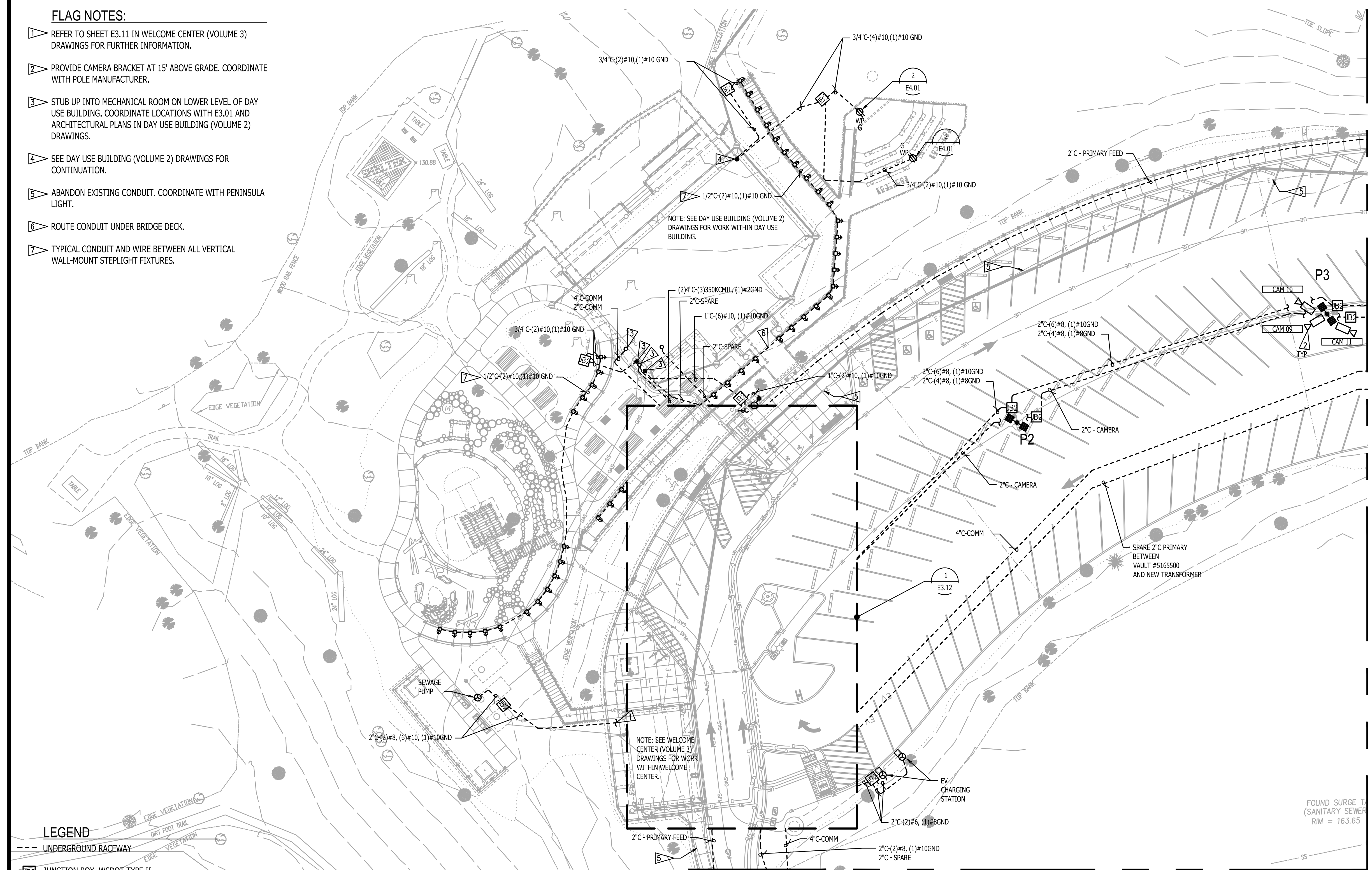
E1.04

SCALE AS NOTED

PARKS FILE#

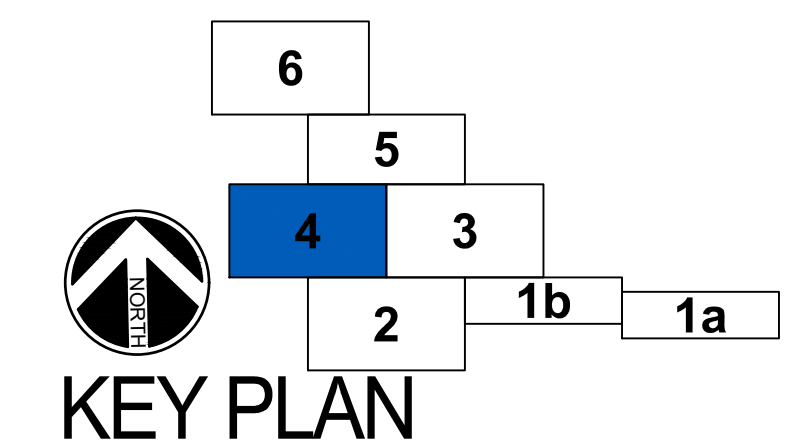
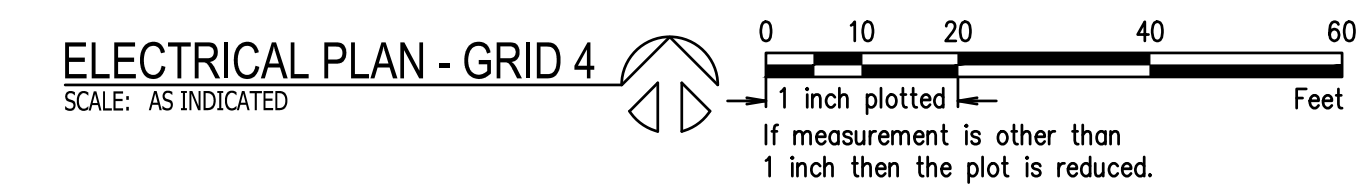
FLAG NOTES:

- 1 REFER TO SHEET E3.11 IN WELCOME CENTER (VOLUME 3) DRAWINGS FOR FURTHER INFORMATION.
- 2 PROVIDE CAMERA BRACKET AT 15' ABOVE GRADE. COORDINATE WITH POLE MANUFACTURER.
- 3 STUB UP INTO MECHANICAL ROOM ON LOWER LEVEL OF DAY USE BUILDING. COORDINATE LOCATIONS WITH E3.01 AND ARCHITECTURAL PLANS IN DAY USE BUILDING (VOLUME 2) DRAWINGS.
- 4 SEE DAY USE BUILDING (VOLUME 2) DRAWINGS FOR CONTINUATION.
- 5 ABANDON EXISTING CONDUIT. COORDINATE WITH PENINSULA LIGHT.
- 6 ROUTE CONDUIT UNDER BRIDGE DECK.
- 7 TYPICAL CONDUIT AND WIRE BETWEEN ALL VERTICAL WALL-MOUNT STEPLIGHT FIXTURES.



MATCHLINE --- GRID 3 --- SEE SHEET E1.03

MATCHLINE --- GRID 2 --- SEE SHEET E1.02



SHEET 91 OF 102
BID SET

GENERAL NOTES:

- JUNCTION BOX LOCATIONS AND CONDUIT ROUTING ARE SCHEMATIC. ALIGN JUNCTION BOXES WITH PAVEMENT EDGES. CONDUIT ROUTING SHALL AVOID TREES. SUBMIT CONDUIT AND JUNCTION BOX LAYOUT PLAN TO ENGINEER PRIOR TO INSTALLATION.
- MAINTAIN AND PROTECT ALL EXISTING UNDERGROUND UTILITIES. CONTRACTOR TO LOCATE PRIOR TO ANY EXCAVATION. PRIOR TO STARTING CONSTRUCTION, CONTRACTOR SHALL CALL 811 LOCATES FOR UTILITY LOCATIONS.
- ALL SPARE/EMPTY CONDUIT TO BE PROVIDED WITH NYLON PULL STRINGS.
- ALL JUNCTION BOXES AND CONDUITS ARE SHOWN IN APPROXIMATE LOCATIONS. VERIFY LOCATION OF PROPERTY LINE, EASEMENTS AND UTILITIES PRIOR TO PLACEMENT.
- ALL CONDUITS LENGTHS ARE APPROXIMATE. REFER TO LANDSCAPE DRAWINGS FOR ROUTING COORDINATION.
- CAP ALL UNUSED CONDUITS. WHERE CONDUITS ARE CAPPED MARK LOCATION WITH AN ELECTRICAL MARKER.
- FIELD BENDING OF STRAIGHT CONDUIT SECTIONS INTO LONG RADIUS SWEEPS IS PREFERRED.
- GROUND ALL IN-GROUND JUNCTION BOXES, HAND HOLES, AND PULL BOXES PER MOST CURRENT VERSION OF THE NEC.

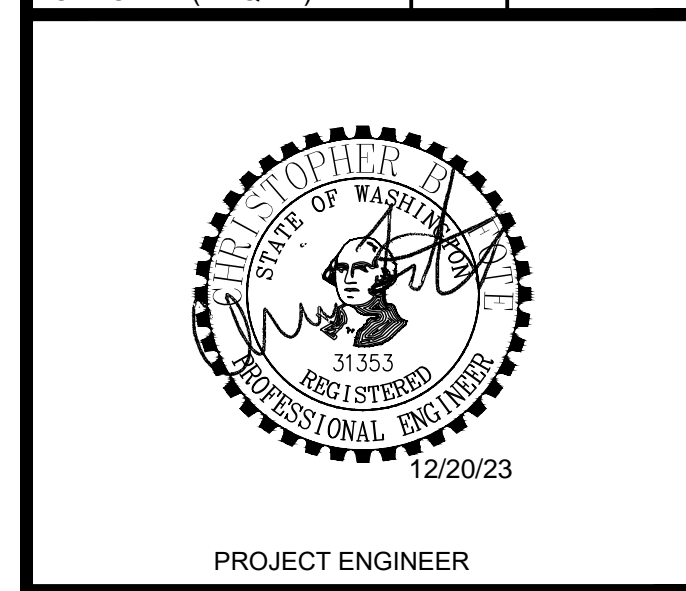
LEGEND

- UNDERGROUND RACEWAY
- JB2 JUNCTION BOX, WSDOT TYPE II
- JB3 JUNCTION BOX, FOGTITE TYPE III
- PATHWAY LIGHT ON 12'-0" SQUARE STEEL POLE. 38 WATT, 3000K, 240 VOLT, FT.
- FULL CUTOFF LED ROADWAY LIGHT ON 20' SQUARE STEEL POLE. 49 WATT, 3000K, 240 VOLT, TYPE 3
- FULL CUTOFF LED PARKING LOT LIGHTS ON 30' SQUARE STEEL POLE. 102 WATT, 3000K, 240 VOLT, TYPE 4
- COMMUNICATIONS VAULT. UTILITY VAULT #TA-38
- SECURITY CAMERA
- ▲ LED VERTICAL WALL-MOUNT STEPLIGHT, 120 VOLT, 2 WATT, 2700K, MP LIGHTING MODEL L45
- WP, GFCI DUPLEX RECEPTACLE, 120 VOLT, 20A, CAST IRON BOX WITH WP COVER

V:\2048\ACTIVE\204820753\CAD-BIM\E1.04.DWG 11 Plotted: 12.20.23-10:49 By: jwittmer

	DATE
	APP.
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	REVISIONS
	NO.

ACTION	BY	DATE
DESIGNED	CBF	NOV. 2023
DRAWN	JTW	NOV. 2023
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CHECKED (HDQTS.)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

ENLARGED ELECTRICAL PLAN GRID - 4

E3.12

SCALE: AS NOTED

AS NOTED

PARKS FILE#

LEGEND:

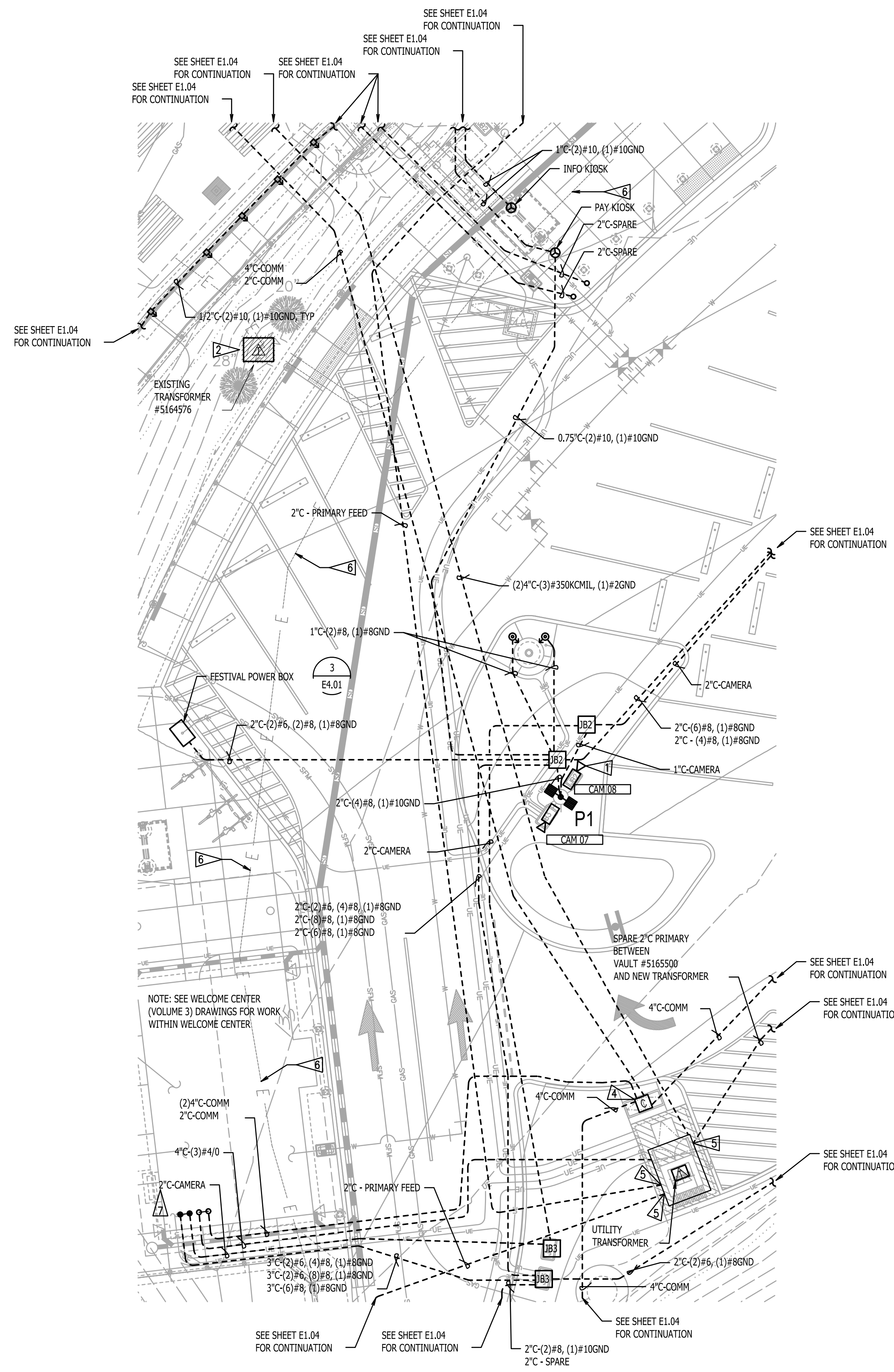
- UNDERGROUND RACEWAY
- JUNCTION BOX, WSDOT TYPE II
- JUNCTION BOX, FOGTITE TYPE III
- FULL CUTOFF LED PARKING LOT LIGHTS ON 30' SQUARE STEEL POLE. 102 WATT, 3000K, 240 VOLT, TYPE 4
- COMMUNICATIONS VAULT. UTILITY VAULT #TA-38
- SECURITY CAMERA
- LED VERTICAL WALL-MOUNT STEPLIGHT, 120 VOLT, 2 WATT, 2700K, MP LIGHTING MODEL L45
- GFCI DUPLEX RECEPTACLE IN LOCKABLE WEATHERPROOF BOX, 120V, 20A
- KIM LTV71 LED UPLIGHT, 120 VOLT, 3500K

GENERAL NOTES:

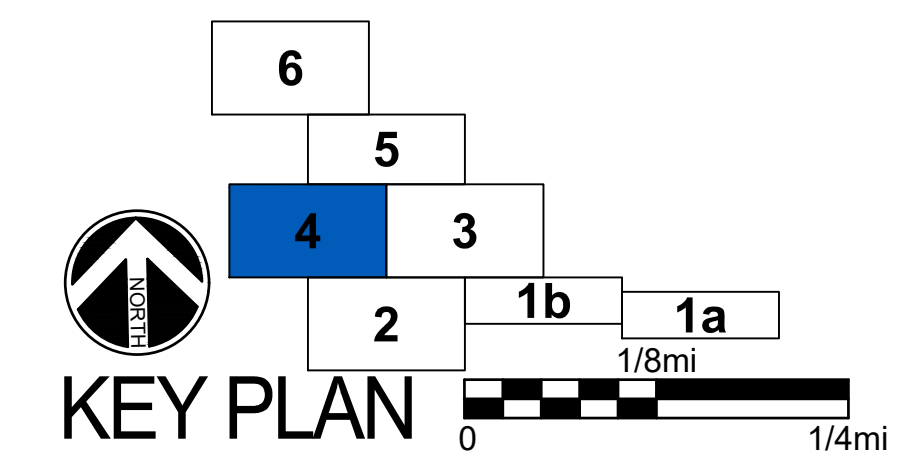
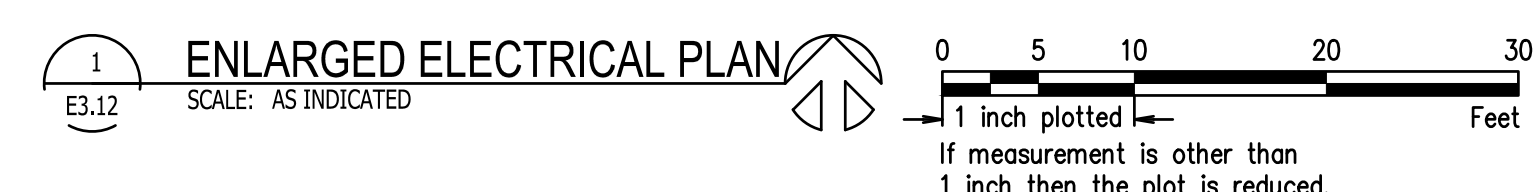
1. JUNCTION BOX LOCATIONS AND CONDUIT ROUTING ARE SCHEMATIC. ALIGN JUNCTION BOXES WITH PAVEMENT EDGES. CONDUIT ROUTING SHALL AVOID TREES. SUBMIT CONDUIT AND JUNCTION BOX LAYOUT PLAN TO ENGINEER PRIOR TO INSTALLATION.
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7. FIELD BENDING OF STRAIGHT CONDUIT SECTIONS INTO LONG RADIUS SWEEPS IS PREFERRED.
8. GROUND ALL IN-GROUND JUNCTION BOXES, HAND HOLES, AND PULL BOXES PER MOST CURRENT VERSION OF THE NEC.

FLAG NOTES:

- PROVIDE CAMERA BRACKET AT 15' ABOVE GRADE. COORDINATE WITH POLE MANUFACTURER.
- DEMO EXISTING PENINSULA POWER TRANSFORMER AND SECONDARY SERVICE. COORDINATE WITH PENINSULA LIGHT.
- NOT USED.
- PROVIDE NEW TA-38 COMMUNICATIONS VAULT.
- COORDINATE ENTRANCE LOCATION WITH PENINSULA POWER.
- ABANDON EXISTING CONDUIT. COORDINATE WITH PENINSULA LIGHT.
- REFER TO SPECIFICATION SECTION 282300 FOR PROVISION OF ALL CAMERAS AND RELATED EQUIPMENT.



NOTE: SEE WELCOME CENTER (VOLUME 3) DRAWINGS FOR WORK WITHIN WELCOME CENTER



Stantec

3400 188th Street SW Suite 285
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(206) 667-0555

SHEET 92 OF 102

BID SET

V:\2048\ACTIVE\204820753\CAD-BIM\E312.DWG 11 Plotted: 12.20.23-10:50 By: jmtimmer

	DATE
	APP.
	INT.
	REVISIONS
	NO.

ACTION	BY	DATE
DESIGNED	CBF	NOV. 2023
DRAWN	JTW	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

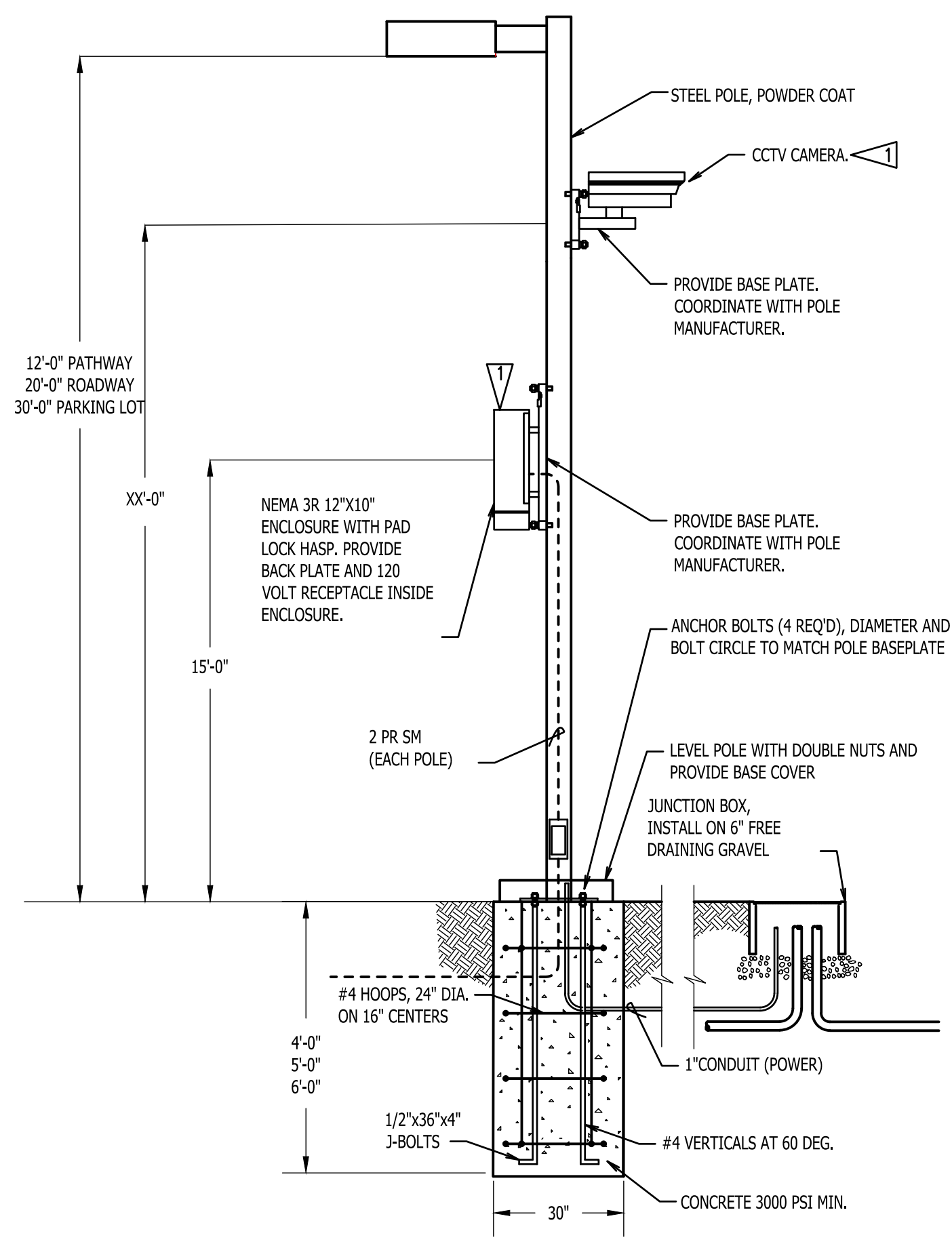
SITE ELECTRICAL DETAILS

E4.01

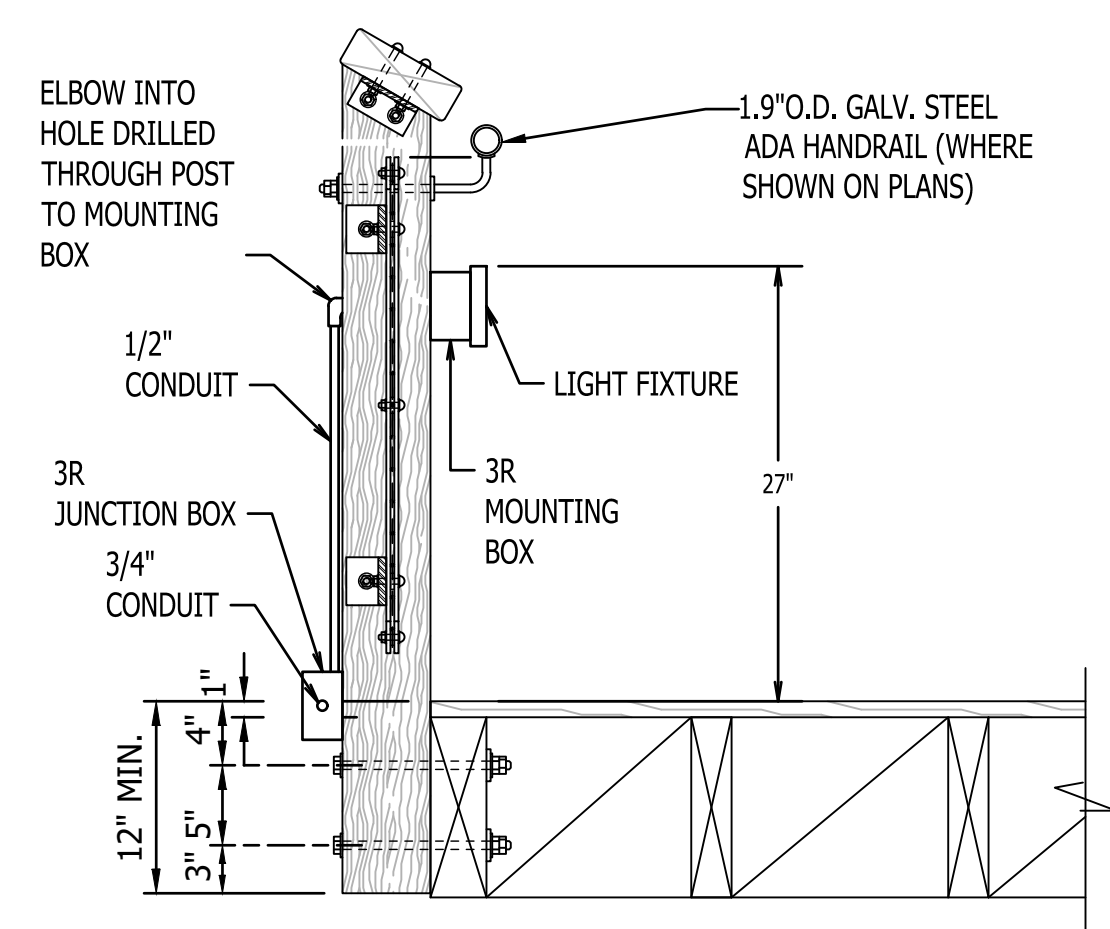
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PARKS FILE#

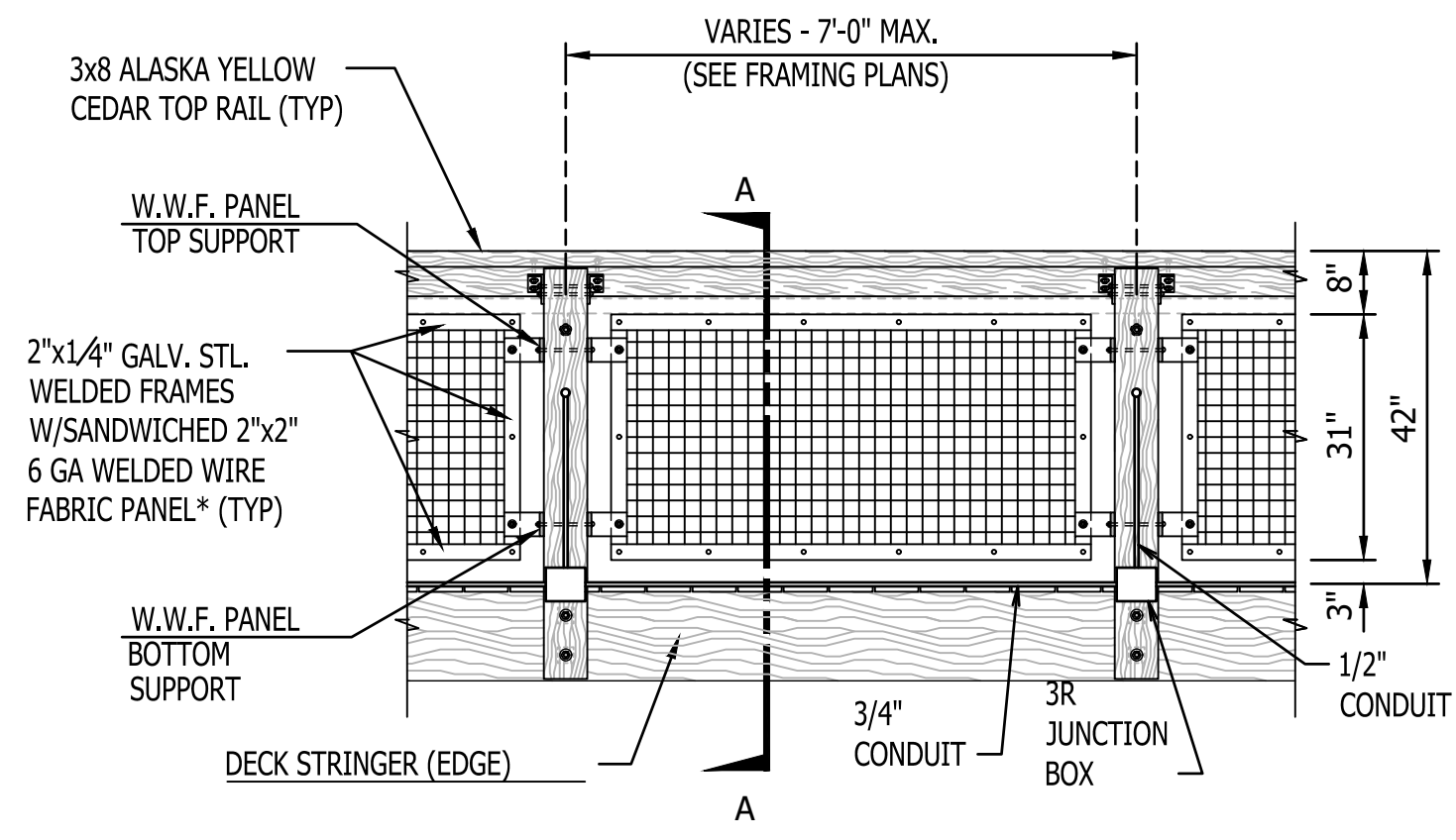
FLAG NOTES:
 REFER TO SPECIFICATION SECTION 282300 FOR PROVISION OF ALL CAMERAS AND RELATED EQUIPMENT.



1 PARKING/PATHWAY POLE DETAIL
 E4.01 SCALE: NONE

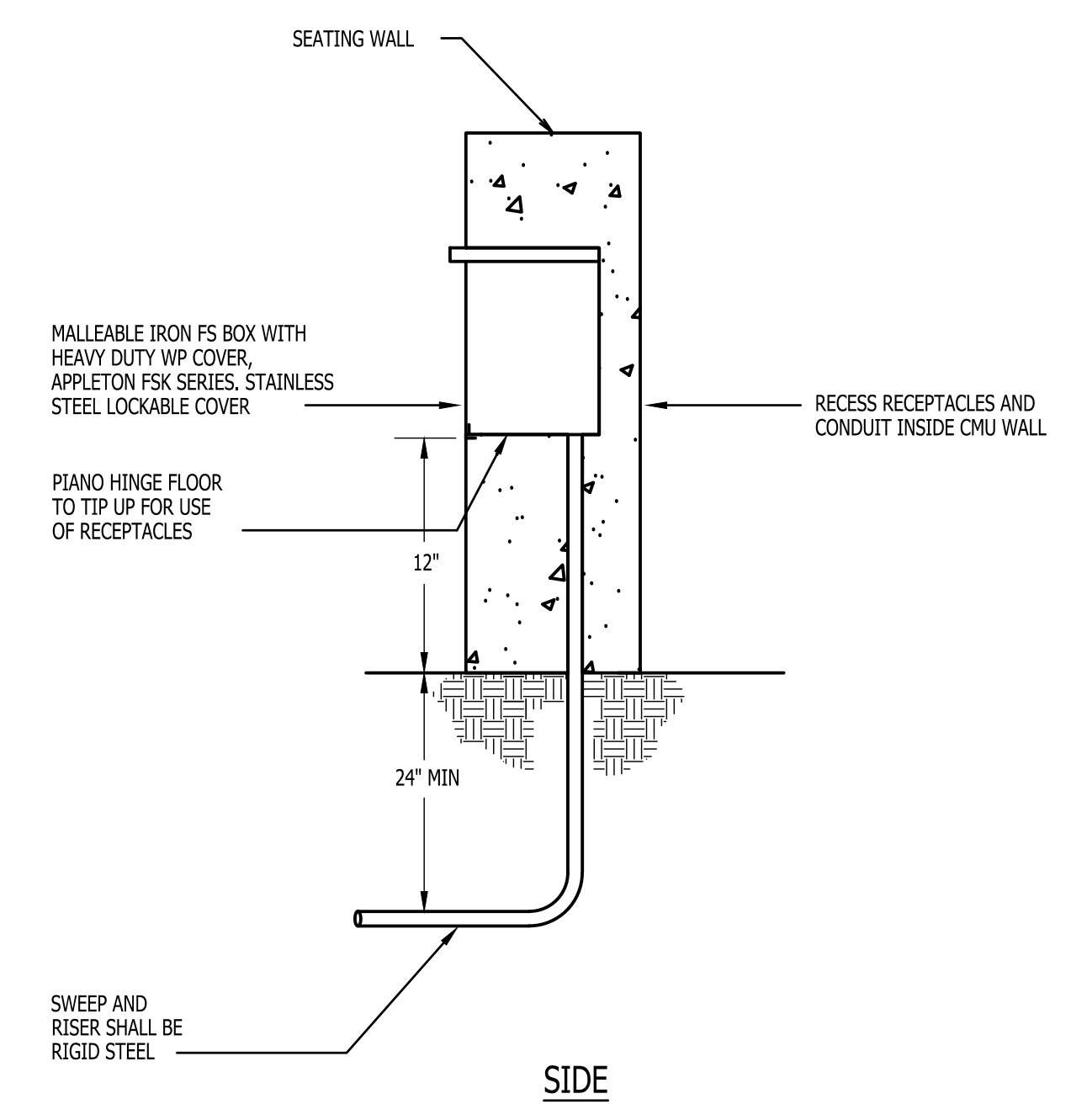


SECTION AA: POST MOUNTING AT FRAMING

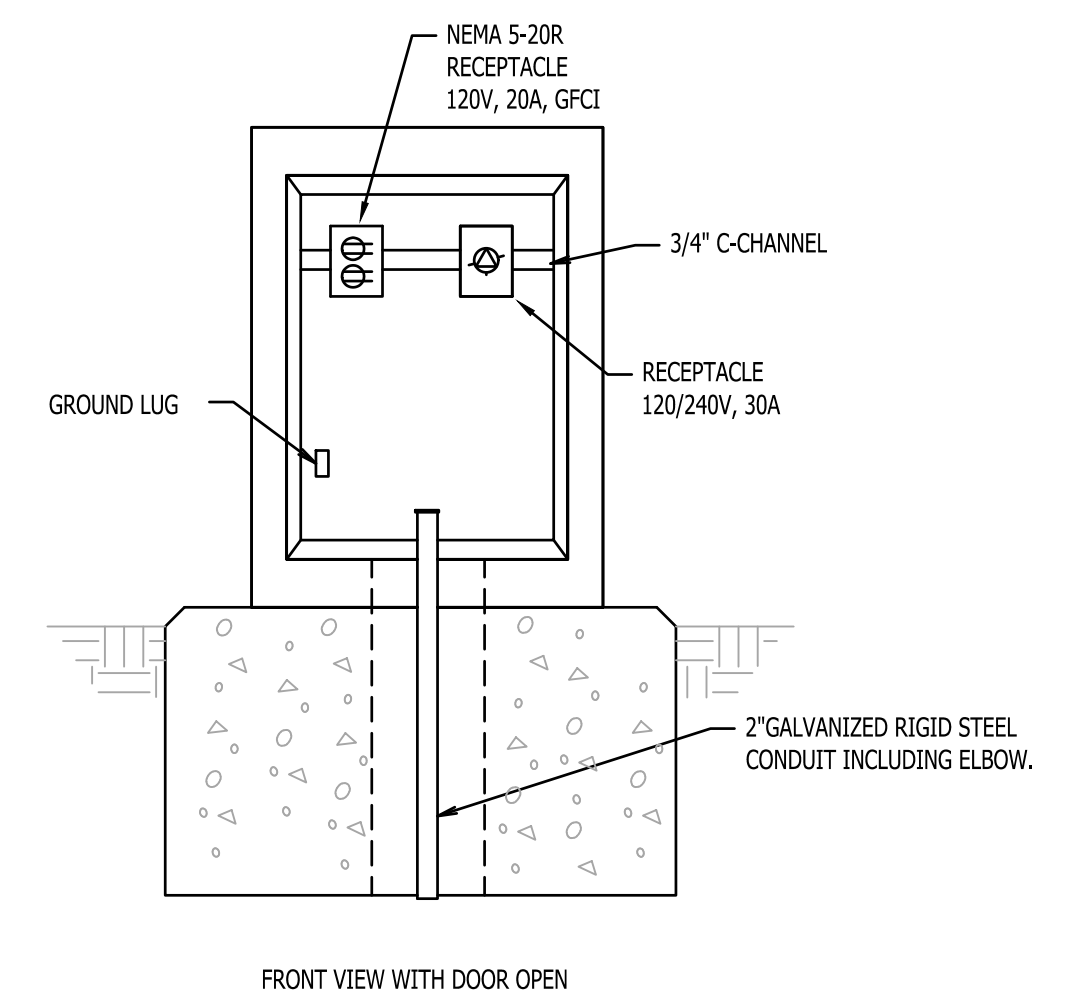
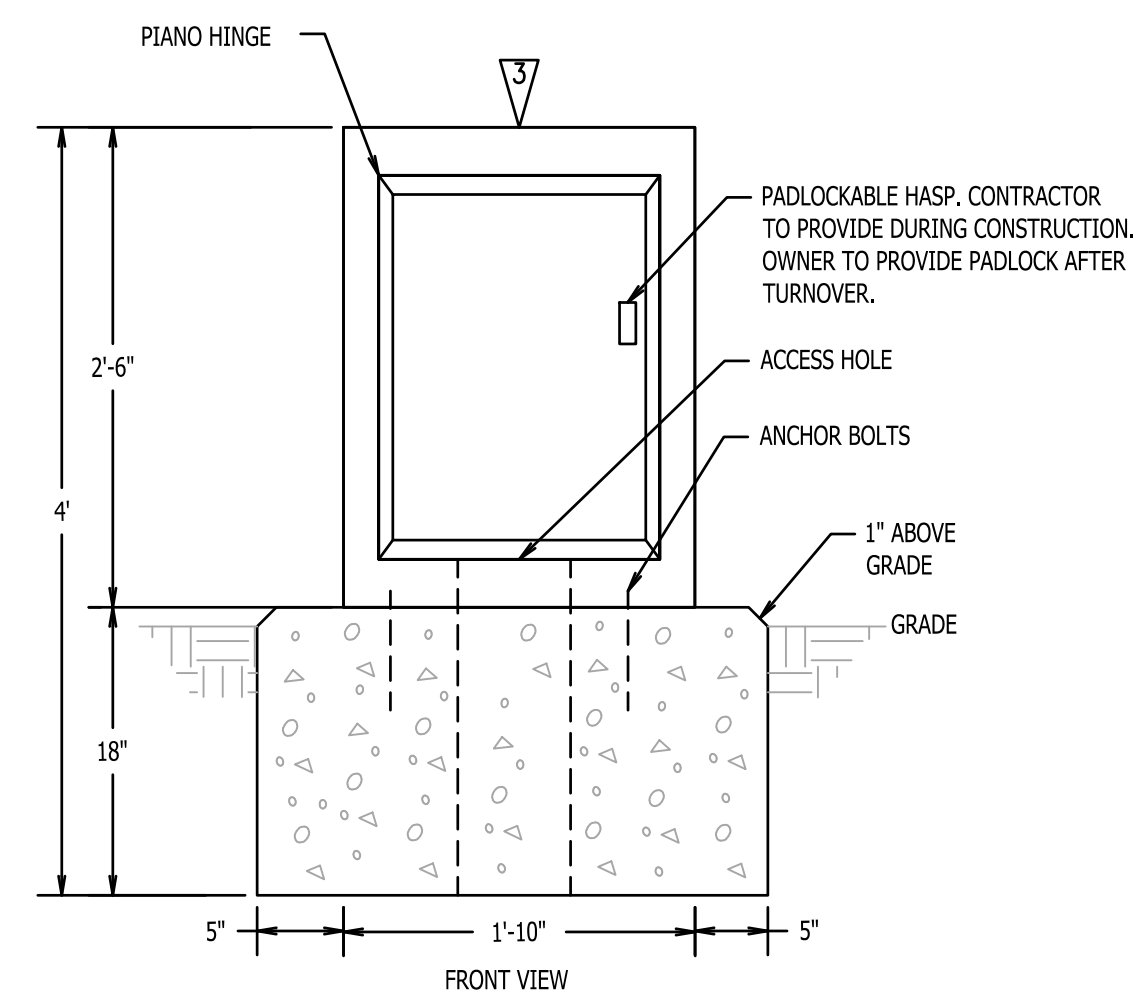


HANDRAIL ELEVATION (EXTERIOR DECK VIEW)

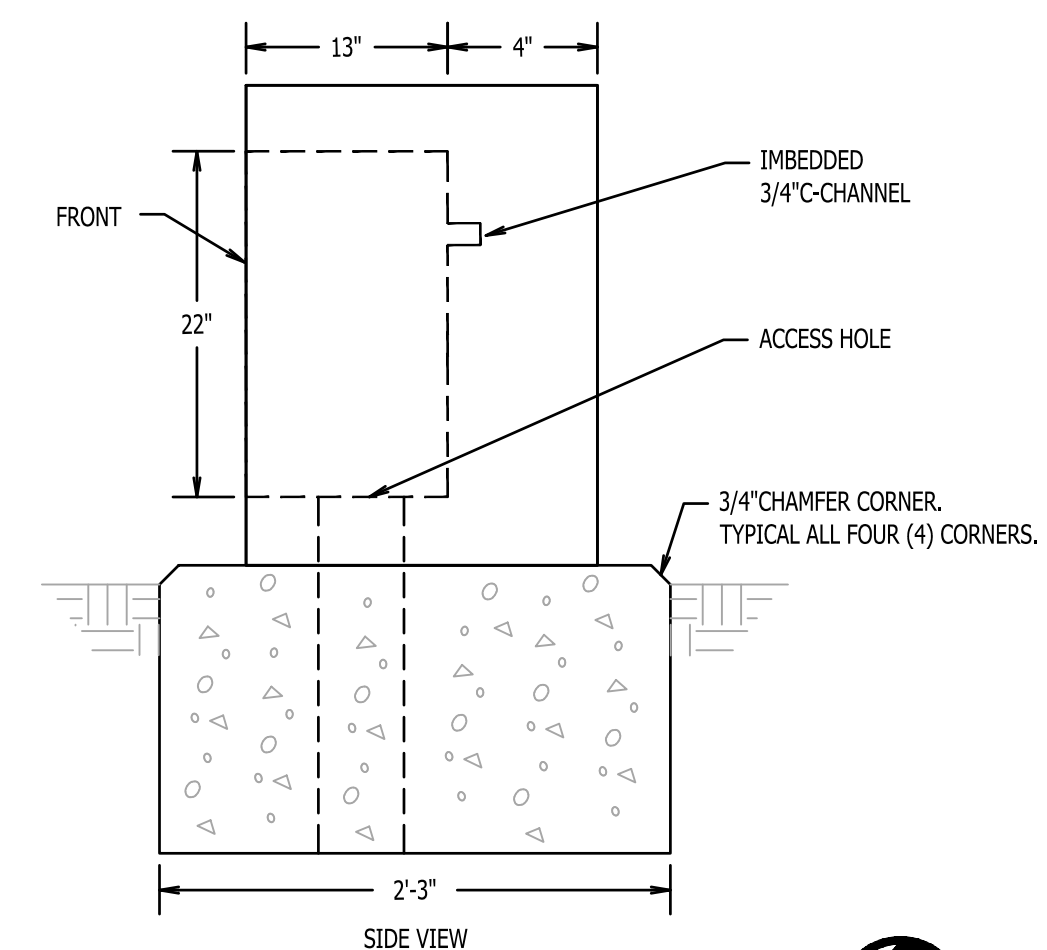
4 LIGHT FIXTURE AT HANDRAIL
 E4.01 SCALE: NONE



2 RECEPTACLE BOX DETAIL
 E4.01 SCALE: NONE



3 CUSTOM CAST CONCRETE POWER BOX
 E4.01 SCALE: NONE



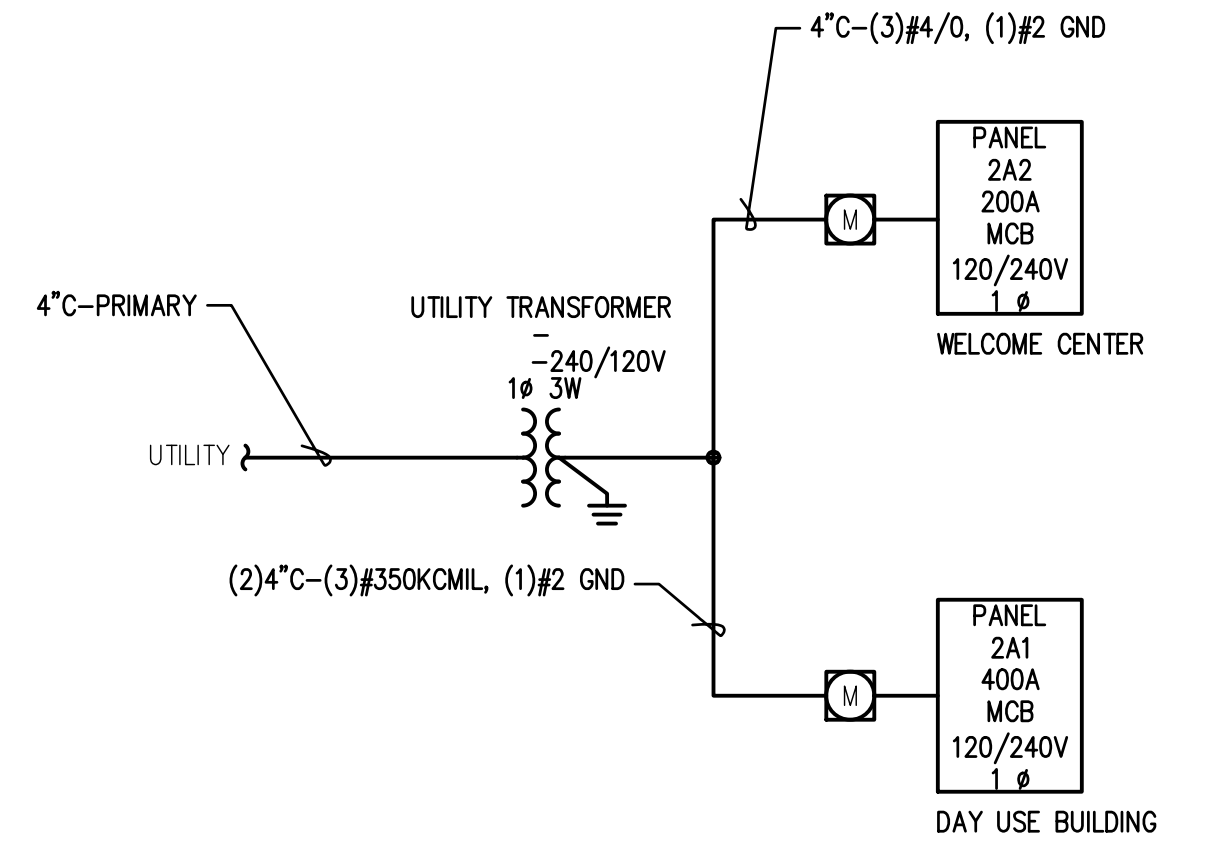
3400 188th Street SW Suite 285
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 (206) 667-0555

SHEET 93 OF 102

BID SET

V:\2048\ACTIVE\204820753\CAD-BIM\E4.01 Dec 20, 2023 10:50 AM By: JMTIMER

V:\2048\ACTIVE\204820753\CAD-BIM\E4-03 - SITE.DWG 2023 10:50 AM By:JMTIMMER



1 ONE-LINE DIAGRAM
SCALE: NONE

Stantec Panel
Name 2A1 120/240V 1 PH 3W 400A Main CB Type: Panelboard
Location DAY USE BUILDING - LOWER LEVEL Surface Mounted 22,000 AIC
Serves: Single Lugs

#	Description	Load	CB	*	A	B	CB	Load	Description	#
1	Recept KITCHEN - REFRIG	1.00	20/1	CB	X		40/2	1.00	Equip HOT WATER HEATER	2
3	Recept KITCHEN	1.00	20/1	CB	X			1.00	-----HOT WATER HEATER	4
5	Recept KITCHEN	1.00	20/1	CB	X		20/1	0.36	Recept LOWER LVL BATH	6
7	Recept LOBBY	0.54	20/1	CB	X		20/1	0.20	Equip LOWER LVL BATH - EF-1,2	8
9	Recept BATHROOMS	0.72	20/1	CB	X		20/1	0.04	Lighting LOWER LVL EXTERIOR LTG	10
11	Recept COMMON USE - WEST SIDE	1.08	20/1	CB	X		20/1	0.24	Lighting LOWER LVL LIGHTING	12
13	Recept COMMON USE - EAST SIDE	1.08	20/1	CB	X		20/1	0.50	Equip FIREPLACE	14
15	Recept NORTH EXTERIOR	0.72	20/1	CB	X		20/1	1.20	Equip PROJECTOR, PROJ. SCREEN	16
17	Mech KITCHN, BATH FANS EF-# 3,4,5,6	0.50	20/1	CB	X		40/2	2.00	Equip LWR LVL - HAND DRYERS	18
19	Equip COMMON - MTR PARTITION	1.66	30/1	CB	X			2.00	-----LWR LVL - HAND DRYERS	20
21	Space	0.00	0/1		X		20/1	0.50	Equip LWR LVL STORAGE - EWH-4	22
23	Lighting NORTH DECK	0.09	20/1	CB	X		20/1	1.00	Equip LWR LVL BATH - EWH-2,-3	24
25	Lighting COMMON USE - WEST	0.58	20/1	CB	X		20/1	0.18	Recept LOWER LVL STORAGE	26
27	Lighting COMMON USE - EAST	0.55	20/1	CB	X		50/2	4.32	Mech HEAT PUMP 1	28
29	Lighting ENTRYWAY, BATHROOMS	0.29	20/1	CB	X			4.32	-----HEAT PUMP 1	30
31	Lighting EXTERIOR ENTRANCE (SOUTH)	0.04	20/1	CB	X		50/2	4.32	Mech HEAT PUMP 2	32
33	Recept KITCHEN	1.00	20/1	CB	X			4.32	-----HEAT PUMP 2	34
35	Recept KITCHEN	1.00	20/1	CB	X		40/2	3.48	Mech HEAT PUMP 3	36
37	Equip COMMON - WEST OVRHD DOOR	1.18	20/1	CB	X			3.48	-----HEAT PUMP 3	38
39	Equip COMMON - EAST OVRHD DOOR	1.18	20/1	CB	X		20/1	0.50	Equip INFO KIOSK	40
41	Recept AMPHITHEATER	0.36	20/1	CB	X		20/1	0.50	Equip PAY KIOSK	42
43	Lighting ENTRYWAY LIGHT POLE	0.05	20/1	CB	X		20/2	0.50	Equip LWR LVL MECH - EWH-1	44
45	Equip STORAGE - EWH-5	0.50	20/2	CB	X			0.50	-----LWR LVL MECH - EWH-1	46
47	-----STORAGE - EWH-5	0.50			X		20/2	0.74	Equip LWR LVL MECH - ERV-1,-2	48
49	Equip MEETING - CF-1	1.20	20/1	CB	X			0.74	-----LWR LVL MECH - ERV-1,-2	50
51	Equip MEETING - CF-2	1.20	20/1	CB	X		20/2	0.09	Equip MEETING - IHP-7,-8	52
53	Equip MEETING - IHP-1,-2,-3	0.17	20/2	CB	X			0.09	-----MEETING - IHP-7,-8	54
55	-----MEETING - IHP-1,-2,-3	0.17			X		20/1	0.03	Lighting WALKWAY WEST	56
57	Equip MEETING - IHP-4,-5,-6	0.17	20/2	CB	X		20/1	0.06	Lighting WALKWAY EAST, SOUTH	58
59	-----MEETING - IHP-4,-5,-6	0.17			X		0/1	0.00	Space	60

Rev: PHA PHB PHC
Revised Ckts Marked * Existing Ckts Marked # Connected KVA 28.34 29.56
204820753
File: V:\2048\ACTIVE\204820753\Design\Sched\Kopachuck St Pk.PNL
* Circuit Breaker Code
G = GFCI H = HID Rated
S = Shunt Trip C = HACR Rated
D = Switching Duty # = See Note
A = AFCI

Notes: Dem.
Load Type Conn KVA NEC Demand Factor KVA Dem. Amj NEC Feed % NEC Feed Amps
Equip 21.15 x 100% 21.15 88 x 100% 88
Lighting 1.97 x 100% 1.97 8 x 125% 10
Mech 24.74 x 100% 24.74 103 125% of Largest 112
Recept 10.04 10 KVA @ 100%, rest @ 50% 10.02 42 x 100% 42
57.90 241 Amps 57.88 241 252

2 PANEL SCHEDULES
SCALE: NONE

Stantec Panel
Name 2A2 120/240V 1 PH 3W 200A Main CB Type: Panelboard
Location WELCOME CENTER Surface Mounted 22,000 AIC
Serves: Single Lugs

#	Description	Load	CB	*	A	B	CB	Load	Description	#
1	Recept LOBBY 100	0.54	20/1	CB	X		20/2	0.17	Lighting ROADWAY LIGHTING	2
3	Recept RANGERS DESK 101	1.08	20/1	CB	X			0.17	-----ROADWAY LIGHTING	4
5	Recept BATH, STORAGE, WRK RM	0.90	20/1	CB	X		20/2	0.30	Lighting PARKING LOT LIGHTING	6
7	Recept WORK ROOM	0.72	20/1	CB	X			0.30	-----PARKING LOT LIGHTING	8
9	Mech WELCOME CTR ERV-1	0.10	20/1	CB	X		20/2	1.00	Mech SEWAGE PUMP	10
11	Lighting WELCOME CTR LTG - FRONT	0.17	20/1	CB	X			1.00	-----SEWAGE PUMP	12
13	Lighting WELCOME CTR LTG - BACK	0.13	20/1	CB	X		20/1	0.20	Equip SECURITY VIDEO RECORDER	14
15	Lighting WELCOME CTR LTG - EXT.	0.05	20/1	CB	X		40/2	3.84	Equip VEHICLE CHARGING STATIONS	16
17	Mech HEAT PUMP	3.07	40/2	CB	X			3.84	-----VEHICLE CHARGING STATIONS	18
19	-----HEAT PUMP	3.07			X		20/1	1.00	Recept FESTIVAL POWER BOX 120V	20
21	Mech WH-1	0.76	20/2	CB	X		30/2	2.16	Recept FESTIVAL POWER BOX 240V	22
23	-----WH-1	0.76			X			2.16	-----FESTIVAL POWER BOX 240V	24
25	Space	0.00	0/1		X		20/1	0.08	Lighting FLAG POLE LTS	26
27	Space	0.00	0/1		X		20/1	0.20	Equip BEACH AREA GATE	28
29	Space	0.00	0/1		X		20/1	0.20	Recept CAMERA RECEPT POLE P1	30
31	Space	0.00	0/1		X		20/1	0.20	Recept CAMERA RECEPT POLE P3	32
33	Space	0.00	0/1		X		20/1	0.20	Recept CAMERA RECEPT POLE R5	34
35	Space	0.00	0/1		X		20/2	0.90	Equip UPS	36
37	Space	0.00	0/1		X			0.90	-----UPS	38
39	Space	0.00	0/1		X		0/1	0.00	Space	40
41	Space	0.00	0/1		X		0/1	0.00	Space	42

Rev: PHA PHB PHC
Revised Ckts Marked * Existing Ckts Marked # Connected KVA 14.54 15.61
204820753
File: V:\2048\ACTIVE\204820753\Design\Sched\Kopachuck St Pk.PNL
* Circuit Breaker Code
G = GFCI H = HID Rated
S = Shunt Trip C = HACR Rated
D = Switching Duty # = See Note
A = AFCI

Notes: Dem.
Load Type Conn KVA NEC Demand Factor KVA Dem. Amj NEC Feed % NEC Feed Amps
Equip 9.88 x 100% 9.88 41 x 100% 41
Lighting 1.37 x 100% 1.37 6 x 125% 7
Mech 9.75 x 100% 9.75 41 125% of Largest 47
Recept 9.16 10 KVA @ 100%, rest @ 50% 9.16 38 x 100% 38
30.15 126 Amps 30.15 126 133

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

DATE
APP.
INT.
REVISIONS
NO.

ACTION	BY	DATE
DESIGNED	CBF	NOV. 2023
DRAWN	JTW	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

SITE ELECTRICAL PANEL SCHEDULES & ONE-LINE

E4.03

SCALE AS NOTED

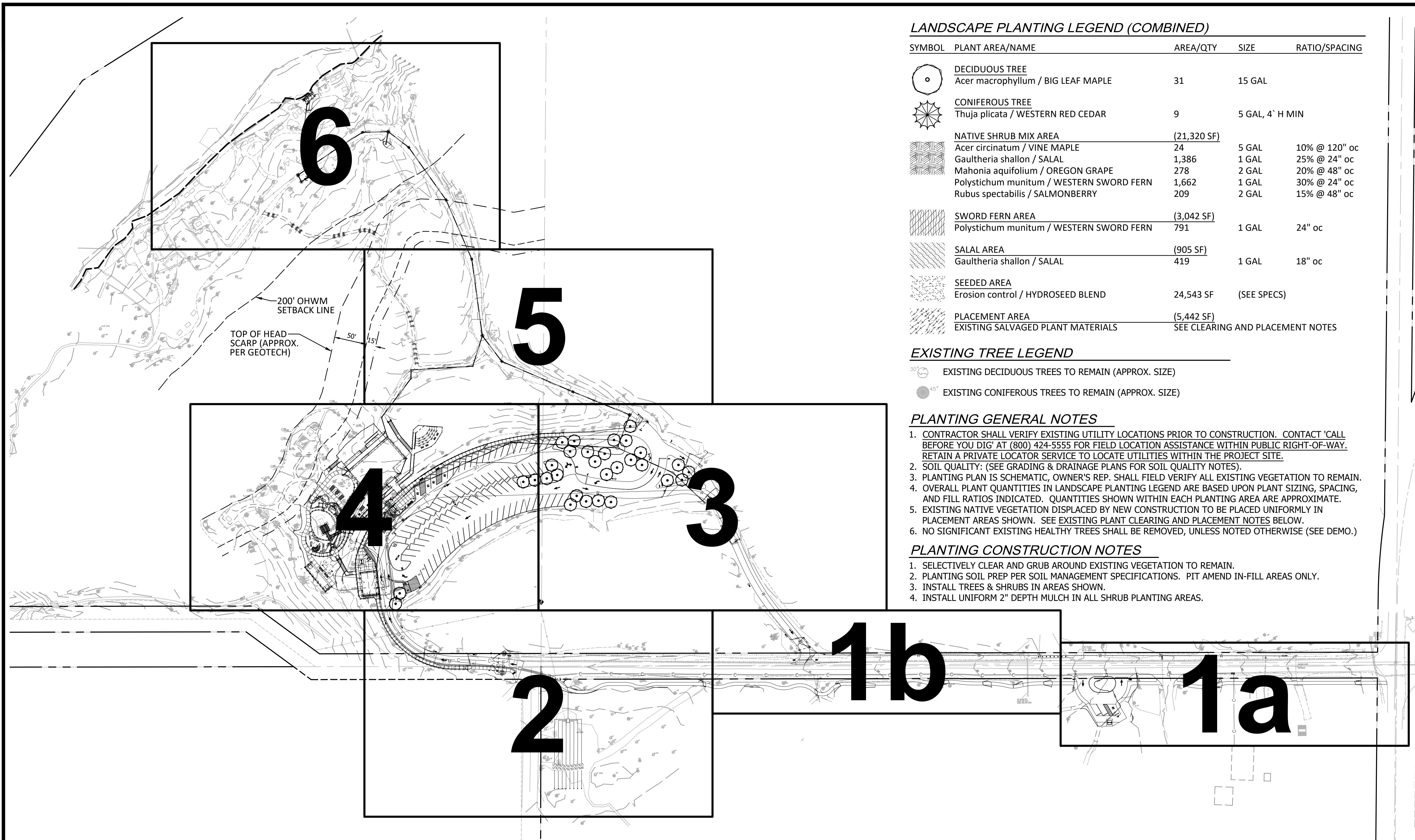
PARKS FILE#



3400 188th Street SW Suite 285
Lynnwood Washington 98037-4772
(206) 667-0555

SHEET 94 OF 102

BID SET



LANDSCAPE PLANTING LEGEND (COMBINED)

SYMBOL	PLANT AREA/NAME	AREA/QTY	SIZE	RATIO/SPACING
	DECIDUOUS TREE Acer macrophyllum / BIG LEAF MAPLE	31	15 GAL	
	CONIFEROUS TREE Thuja plicata / WESTERN RED CEDAR	9	5 GAL, 4' H MIN	
	NATIVE SHRUB MIX AREA Acer circinatum / VINE MAPLE Gaultheria shallon / SALAL Mahonia aquifolium / OREGON GRAPE Polystichum munitum / WESTERN SWORD FERN Rubus spectabilis / SALMONBERRY	(21,320 SF) 24 1,386 278 1,662 209	5 GAL 1 GAL 2 GAL 1 GAL 2 GAL	10% @ 120" oc 25% @ 24" oc 20% @ 48" oc 30% @ 24" oc 15% @ 48" oc
	SWORD FERN AREA Polystichum munitum / WESTERN SWORD FERN	(3,042 SF) 791	1 GAL	24" oc
	SALAL AREA Gaultheria shallon / SALAL	(905 SF) 419	1 GAL	18" oc
	SEEDED AREA Erosion control / HYDROSEED BLEND	24,543 SF		(SEE SPECS)
	PLACEMENT AREA EXISTING SALVAGED PLANT MATERIALS	(5,442 SF)		SEE CLEARING AND PLACEMENT NOTES

EXISTING TREE LEGEND

- EXISTING DECIDUOUS TREES TO REMAIN (APPROX. SIZE)
- EXISTING CONIFEROUS TREES TO REMAIN (APPROX. SIZE)

PLANTING GENERAL NOTES

- CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION. CONTACT 'CALL BEFORE YOU DIG' AT (800) 424-5555 FOR FIELD LOCATION ASSISTANCE WITHIN PUBLIC RIGHT-OF-WAY. RETAIN A PRIVATE LOCATOR SERVICE TO LOCATE UTILITIES WITHIN THE PROJECT SITE.
- SOIL QUALITY: (SEE GRADING & DRAINAGE PLANS FOR SOIL QUALITY NOTES).
- PLANTING PLAN IS SCHEMATIC, OWNER'S REP. SHALL FIELD VERIFY ALL EXISTING VEGETATION TO REMAIN.
- OVERALL PLANT QUANTITIES IN LANDSCAPE PLANTING LEGEND ARE BASED UPON PLANT SIZING, SPACING, AND FILL RATIOS INDICATED. QUANTITIES SHOWN WITHIN EACH PLANTING AREA ARE APPROXIMATE.
- EXISTING NATIVE VEGETATION DISPLACED BY NEW CONSTRUCTION TO BE PLACED UNIFORMLY IN PLACEMENT AREAS SHOWN. SEE EXISTING PLANT CLEARING AND PLACEMENT NOTES BELOW.
- NO SIGNIFICANT EXISTING HEALTHY TREES SHALL BE REMOVED, UNLESS NOTED OTHERWISE (SEE DEMO.)

PLANTING CONSTRUCTION NOTES

- SELECTIVELY CLEAR AND GRUB AROUND EXISTING VEGETATION TO REMAIN.
- PLANTING SOIL PREP PER SOIL MANAGEMENT SPECIFICATIONS. PIT AMEND IN-FILL AREAS ONLY.
- INSTALL TREES & SHRUBS IN AREAS SHOWN.
- INSTALL UNIFORM 2" DEPTH MULCH IN ALL SHRUB PLANTING AREAS.

EXISTING PLANT CLEARING AND PLACEMENT NOTES

- | | |
|---|---|
| <p>DESCRIPTION</p> <ol style="list-style-type: none"> THE INTENT IS TO TRANSPLANT (MACHINE EXCAVATE) EXISTING, HEALTHY UNDER STORY PLANT MATERIAL THAT MUST BE CLEARED FOR NEW CONSTRUCTION. THE MACHINE EXCAVATED MATERIAL IS TO BE PLACED EN MASSE IN PLACEMENT AREAS NOTED ON PLANS. <p>PLANT CLEARING PREPARATION</p> <ol style="list-style-type: none"> STAKE CLEARING LIMITS FOR REVIEW AND APPROVAL BY OWNER'S REPRESENTATIVE. IDENTIFY TREES FOR TRUNK/ROOT ZONE PROTECTION. ADJUST CLEARING LIMITS AS NOTED BY OWNER'S REPRESENTATIVE. ERECT TREE TRUNK/ROOT ZONE PROTECTION. MAKE ADJUSTMENTS AS DIRECTED BY THE ARBORIST OR OWNER'S REPRESENTATIVE REMOVE TREES THAT ARE NOTED FOR REMOVAL. | <p>PRE-PLACEMENT</p> <ol style="list-style-type: none"> SCARIFY TO A 12" DEPTH ANY AREA(S) TO RECEIVE TRANSPLANTED EXISTING PLANT MATERIALS. <p>PLANT PLACEMENT</p> <ol style="list-style-type: none"> EXCAVATE EXISTING UNDER STORY PLANT MATERIAL TO BE CLEARED AND PLACE IN PLACEMENT AREA(S) USING A FRONT LOADING BUCKET OR SUITABLE EQUIPMENT TO REMOVE 12" MINIMUM DEPTH OF SOIL AND ROOTS EN MASSE WITH PLANTS. PLACE EACH PLANT MASS LOAD TIGHTLY TOGETHER TO PROVIDE A DENSE MASS WITHIN PLACEMENT AREA(S). <p>*ALL EXPOSED SOIL REMAINING ADJACENT TO NEW CONSTRUCTION SHALL BE REPLANTED WITH IMPORT NATIVE PLANT MATERIAL OR SEEDED AS NOTED ON THE PLANTING PLANS.</p> |
|---|---|

EXISTING FEATURES LEGEND

- FOR EXISTING SITE FEATURES LEGEND SEE TOPOGRAPHIC SURVEY PLAN, SHEET SV1.00.
- HORIZONTAL CONTROL**
HORIZONTAL CONTROL IS FROM CALCULATED COORDINATES BASED ON THE TWO PIERCE COUNTY CONTROL POINTS NOTED ON TOPOGRAPHIC SURVEY PLAN, SHEET SV1.00. WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM 1983 / 1991 ADJUSTMENT (NAD 83 / 91).
- VERTICAL CONTROL**
PIERCE COUNTY DATUM (NGVD 29) AS NOTED ON TOPOGRAPHIC SURVEY PLAN, SHEET SV1.00.

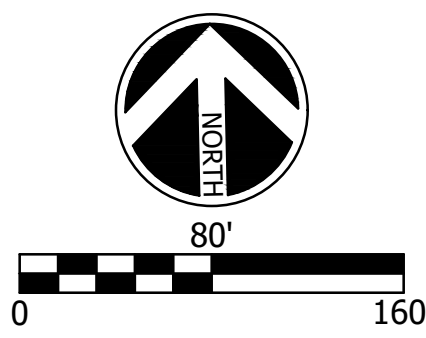
PLANTING DETAILS NOTE

- SEE SHEET L2.01 FOR TYPICAL PLANTING DETAILS.

PROJECT LAYOUT & STAKING

FIELD LOCATING AND STAKING OF PROPOSED IMPROVEMENTS SHALL BE BY DIMENSIONS SHOWN ON DRAWINGS AND COORDINATES OBTAINED VIA ELECTRONIC DRAWING FILES WHICH WILL BE PROVIDED WITHIN 5 DAYS OF RECEIVING WRITTEN REQUEST AFTER NOTICE OF AWARD. DIMENSIONS SHOWN ARE TAKEN AT 'FACE OF WALL/CURB' UNLESS OTHERWISE NOTED ON PLANS.

IMPORTANT NOTE:
PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE WORK NECESSARY TO COMPLETE CONSTRUCTION UNDER THIS CONTRACT AS SHOWN AND SPECIFIED ON THESE PLANS.



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SHEET 95 OF 102
BID SET

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	ABD	NOV. 2023
DRAWN	SAJ	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		

PROJECT ENGINEER

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION

**KOPACHUCK
STATE PARK**

**DAY USE
DEVELOPMENT**

**LANDSCAPE
PLANTING KEY PLAN
& NOTES**

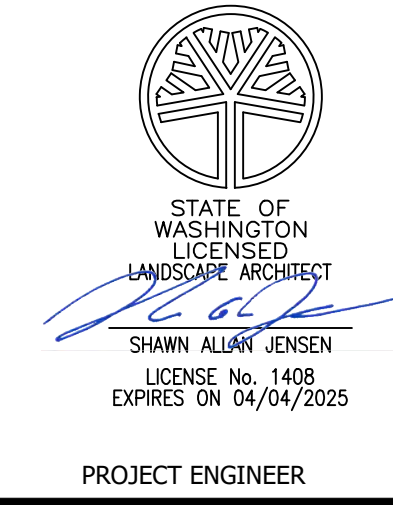
L1.00

SCALE
AS NOTED

PARKS FILE#

DATE	
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NO.	
REVISIONS	

ACTION	BY	DATE
DESIGNED	ABD	NOV. 2023
DRAWN	SAJ	NOV. 2023
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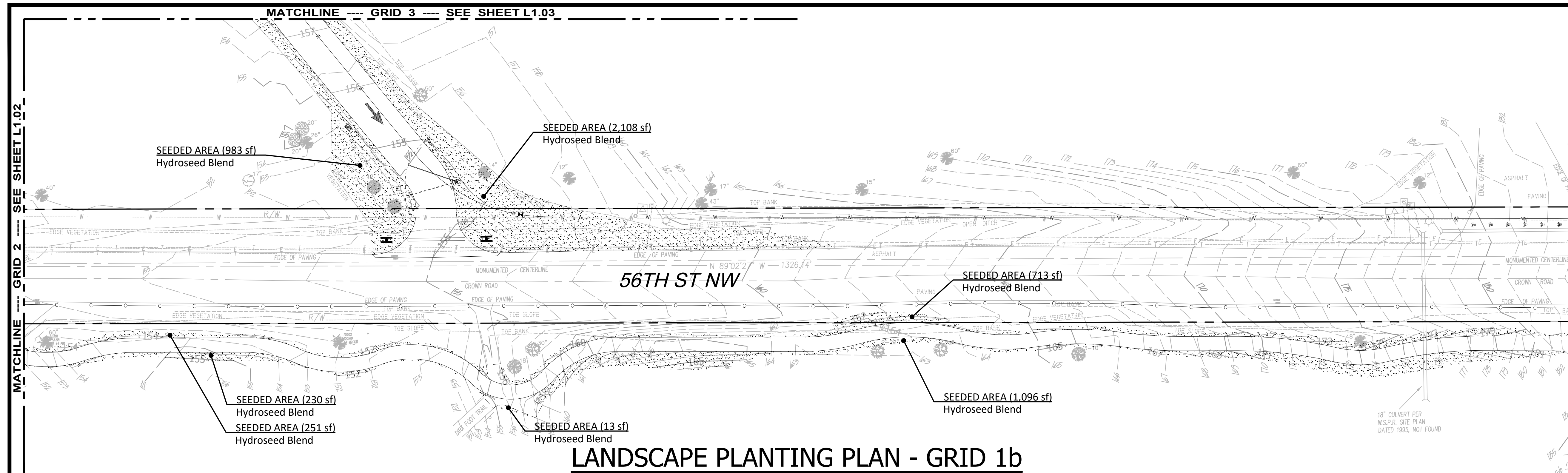
WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

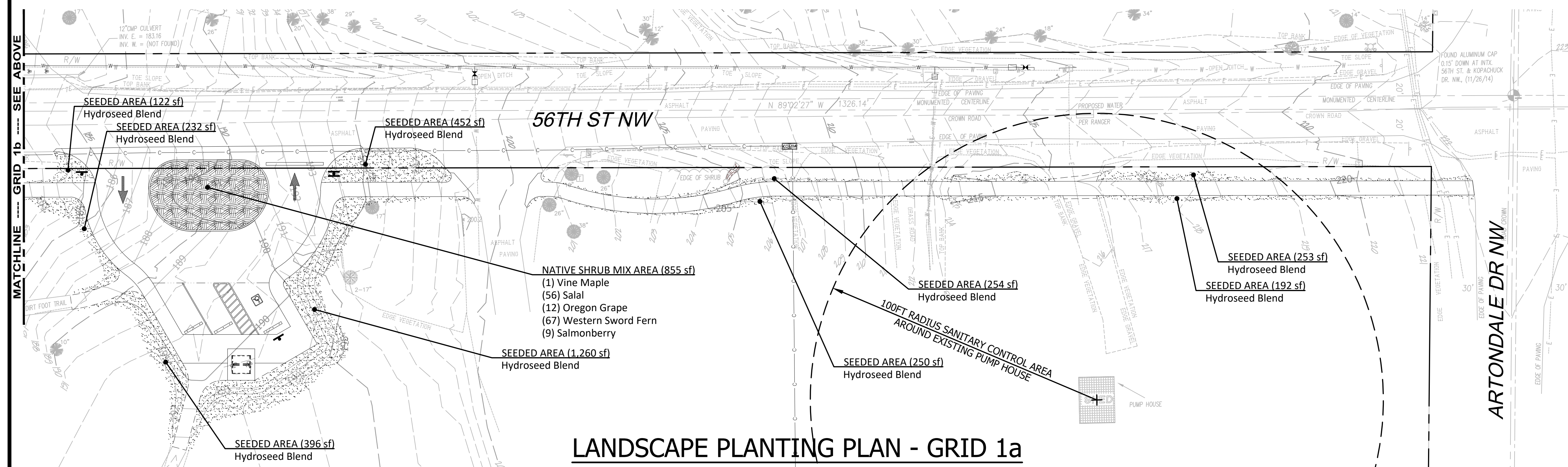
DAY USE DEVELOPMENT

LANDSCAPE PLANTING PLAN GRID 1

L1.01
SCALE AS NOTED
PARKS FILE#



LANDSCAPE PLANTING PLAN - GRID 1b



LANDSCAPE PLANTING PLAN - GRID 1a

LANDSCAPE PLANTING LEGEND - GRID 1

SYMBOL	PLANT AREA/NAME	AREA/QTY	SIZE	RATIO/SPACING
[Pattern]	NATIVE SHRUB MIX AREA (855 SF)			
[Symbol]	VINE MAPLE	1	5 GAL	10% @ 120" oc
[Symbol]	SALAL	56	1 GAL	25% @ 24" oc
[Symbol]	OREGON GRAPE	12	2 GAL	20% @ 48" oc
[Symbol]	WESTERN SWORD FERN	67	1 GAL	30% @ 24" oc
[Symbol]	SALMONBERRY	9	2 GAL	15% @ 48" oc
[Pattern]	SEEDED AREA HYDROSEED BLEND	8,805 SF	(SEE SPECS)	

EXISTING TREE LEGEND

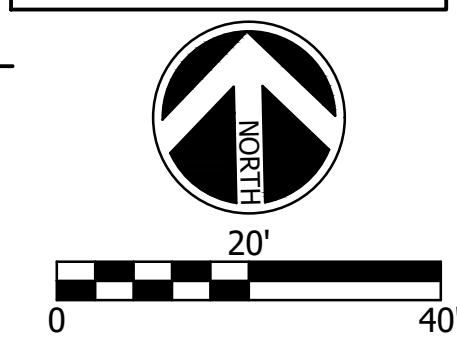
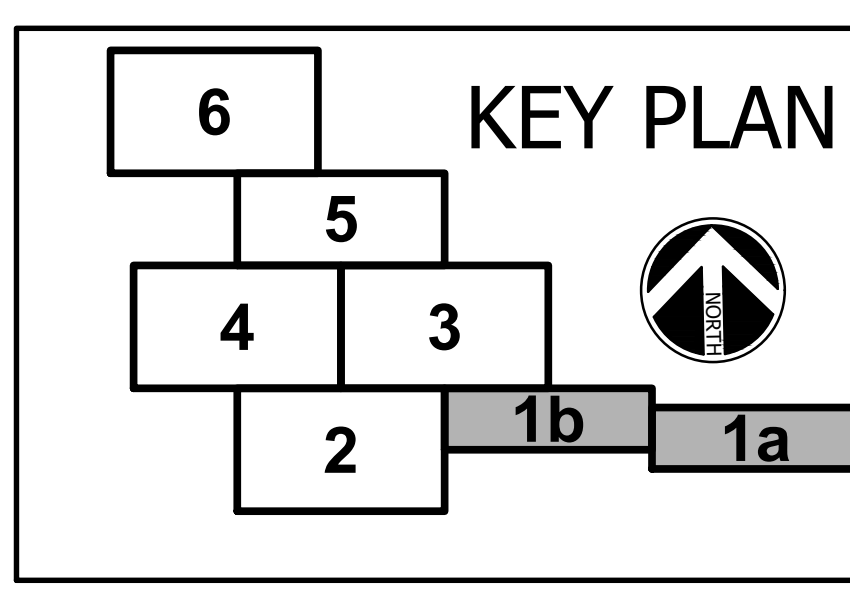
[Symbol]	EXISTING DECIDUOUS TREES TO REMAIN (APPROX. SIZE)
[Symbol]	EXISTING CONIFEROUS TREES TO REMAIN (APPROX. SIZE)

PLANTING DETAILS NOTE
1. SEE SHEET L2.01 FOR TYPICAL PLANTING DETAILS.

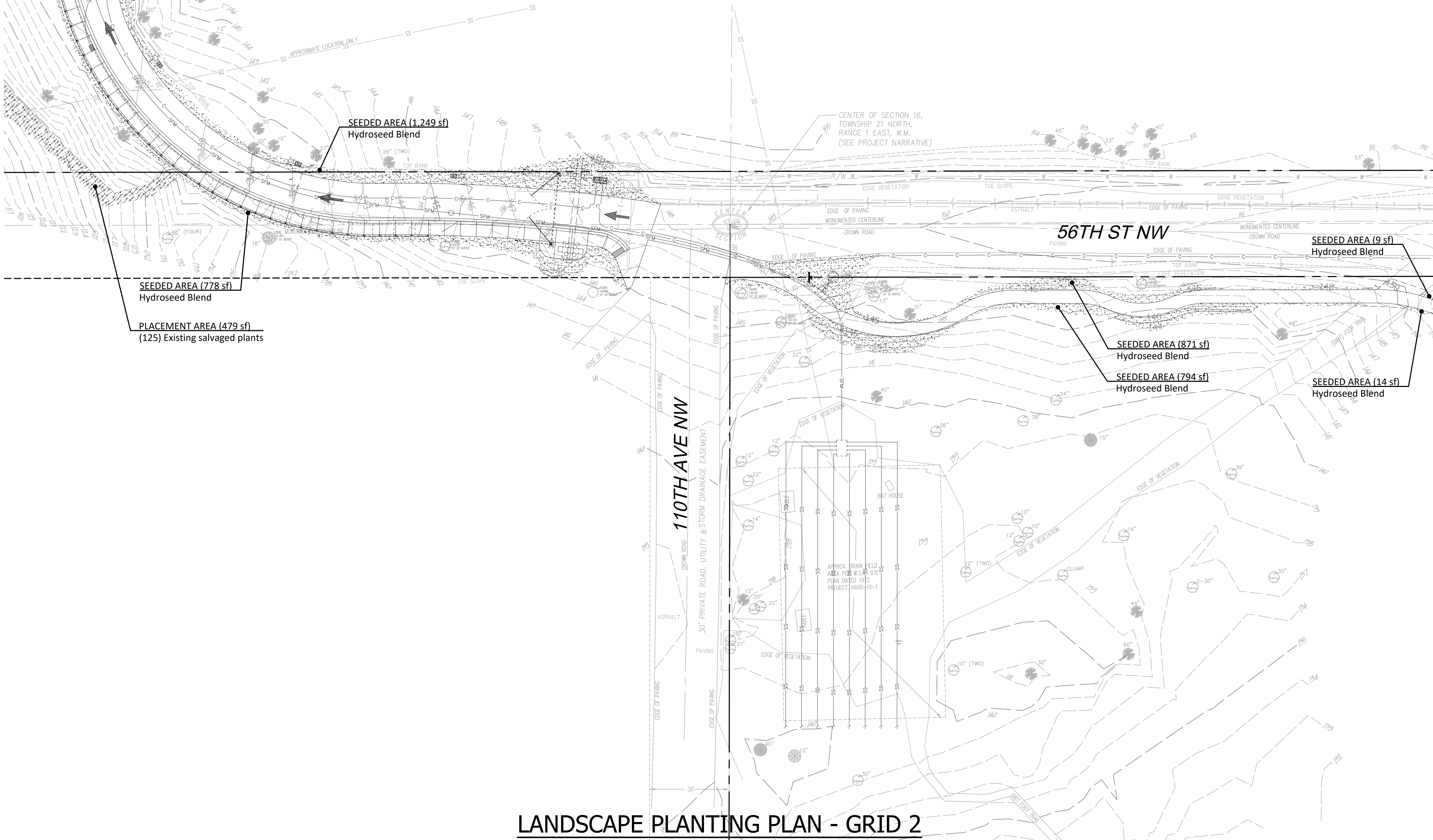
- PLANTING GENERAL NOTES**
1. PLANTING PLAN IS SCHEMATIC, OWNER'S REP. SHALL FIELD VERIFY ALL EXISTING VEGETATION TO REMAIN.
 2. PLANT QUANTITIES WITHIN EACH PLANTING AREA SHOWN ARE APPROXIMATE BASED UPON PLANT SIZING, SPACING, AND FILL RATIOS INDICATED.
 3. SEE SHEET L1.00 FOR EXISTING PLANT CLEARING AND PLACEMENT NOTES.
 4. NO SIGNIFICANT EXISTING HEALTHY TREES SHALL BE REMOVED, UNLESS NOTED OTHERWISE (SEE DEMO.)

- PLANTING CONSTRUCTION NOTES**
1. SELECTIVELY CLEAR AND GRUB AROUND EXISTING VEGETATION TO REMAIN.
 2. PLANTING SOIL PREP PER SOIL MANAGEMENT SPECIFICATIONS. PIT AMEND IN-FILL AREAS ONLY.
 3. INSTALL TREES & SHRUBS IN AREAS SHOWN.
 4. INSTALL UNIFORM 2" DEPTH MULCH IN ALL SHRUB PLANTING AREAS.

IMPORTANT NOTE:
PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE WORK NECESSARY TO COMPLETE CONSTRUCTION UNDER THIS CONTRACT AS SHOWN AND SPECIFIED ON THESE PLANS.



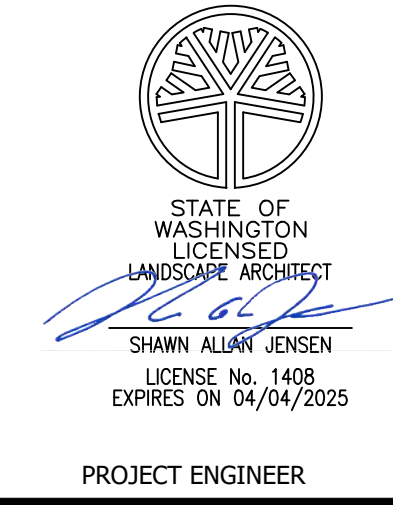
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MATCHLINE --- GRID 1b --- SEE SHEET L1.01

	DATE
	APP.
	INT.
	REVISIONS
	NO.

ACTION	BY	DATE
DESIGNED	ABD	NOV. 2023
DRAWN	SAJ	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		



WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION

KOPACHUCK
STATE PARK

DAY USE
DEVELOPMENT

LANDSCAPE
PLANTING PLAN
GRID 2

L1.02

SCALE
AS NOTED

PARKS FILE#

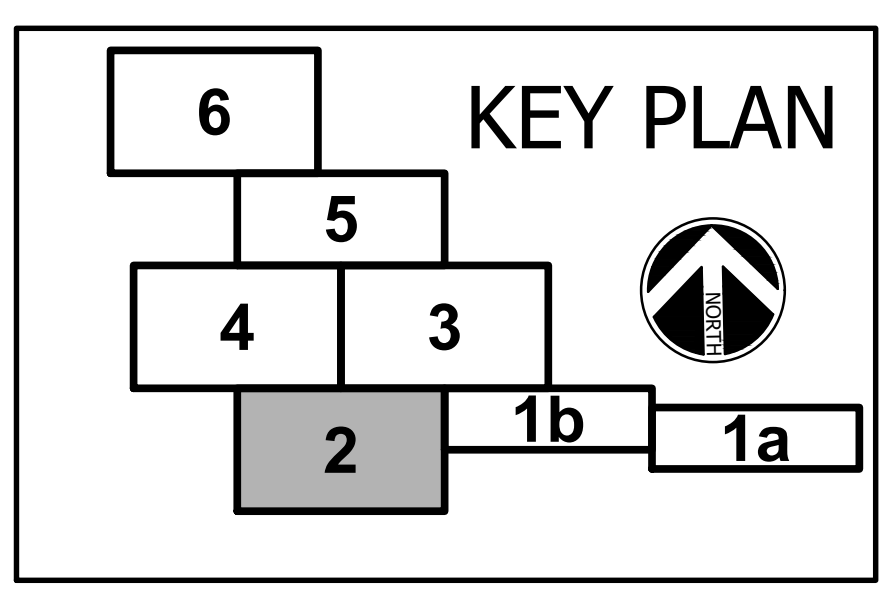
LANDSCAPE PLANTING LEGEND - GRID 2

SYMBOL	PLANT AREA/NAME	AREA/QTY	SIZE	RATIO/SPACING
	SEEDED AREA HYDROSEED BLEND	3,715 SF	(SEE SPECS)	
	PLACEMENT AREA EXIST. SALVAGED PLANTS	(479 SF)	SEE PLANTING GENERAL NOTE #3	

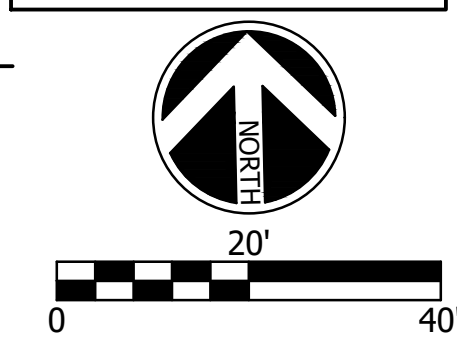
- EXISTING TREE LEGEND**
- EXISTING DECIDUOUS TREES TO REMAIN (APPROX. SIZE)
 - EXISTING CONIFEROUS TREES TO REMAIN (APPROX. SIZE)
- PLANTING DETAILS NOTE**
- SEE SHEET L2.01 FOR TYPICAL PLANTING DETAILS.

- PLANTING GENERAL NOTES**
- PLANTING PLAN IS SCHEMATIC, OWNER'S REP. SHALL FIELD VERIFY ALL EXISTING VEGETATION TO REMAIN.
 - PLANT QUANTITIES WITHIN EACH PLANTING AREA SHOWN ARE APPROXIMATE BASED UPON PLANT SIZING, SPACING, AND FILL RATIOS INDICATED.
 - SEE SHEET L1.00 FOR EXISTING PLANT CLEARING AND PLACEMENT NOTES.
 - NO SIGNIFICANT EXISTING HEALTHY TREES SHALL BE REMOVED, UNLESS NOTED OTHERWISE (SEE DEMO.)
- PLANTING CONSTRUCTION NOTES**
- SELECTIVELY CLEAR AND GRUB AROUND EXISTING VEGETATION TO REMAIN.
 - PLANTING SOIL PREP PER SOIL MANAGEMENT SPECIFICATIONS. PIT AMEND IN-FILL AREAS ONLY.
 - INSTALL TREES & SHRUBS IN AREAS SHOWN.
 - INSTALL UNIFORM 2" DEPTH MULCH IN ALL SHRUB PLANTING AREAS.

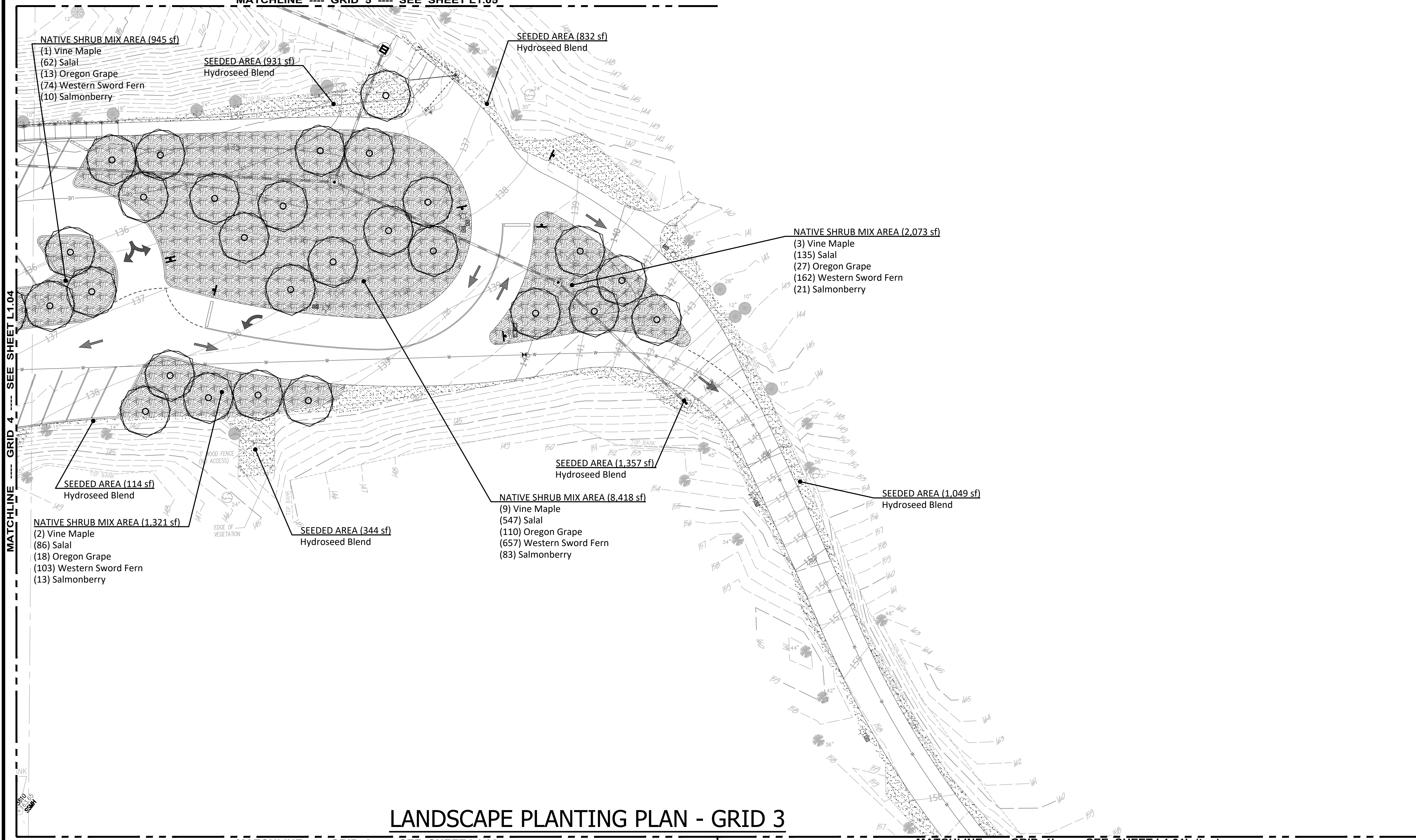
IMPORTANT NOTE:
PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE WORK NECESSARY TO COMPLETE CONSTRUCTION UNDER THIS CONTRACT AS SHOWN AND SPECIFIED ON THESE PLANS.



SHEET 97 OF 102
BID SET



MATCHLINE --- GRID 5 --- SEE SHEET L1.05



LANDSCAPE PLANTING PLAN - GRID 3

MATCHLINE --- GRID 2 --- SEE SHEET L1.02

MATCHLINE --- GRID 1b --- SEE SHEET L1.01b (top)

LANDSCAPE PLANTING LEGEND - GRID 3

SYMBOL	PLANT TYPE/NAME	AREA/QTY	SIZE	RATIO/SPACING
	DECIDUOUS TREE BIG LEAF MAPLE	27	15 GAL	
	NATIVE SHRUB MIX AREA VINE MAPLE SALAL OREGON GRAPE WESTERN SWORD FERN SALMONBERRY	(12,756 SF) 14 829 166 995 125	5 GAL 1 GAL 2 GAL 1 GAL 2 GAL	10% @ 120" oc 25% @ 24" oc 20% @ 48" oc 30% @ 24" oc 15% @ 48" oc
	SEEDED AREA HYDROSEED BLEND	4,626 SF	(SEE SPECS)	

EXISTING TREE LEGEND

- EXISTING DECIDUOUS TREES TO REMAIN (APPROX. SIZE)
- EXISTING CONIFEROUS TREES TO REMAIN (APPROX. SIZE)

PLANTING DETAILS NOTE

- SEE SHEET L2.01 FOR TYPICAL PLANTING DETAILS.

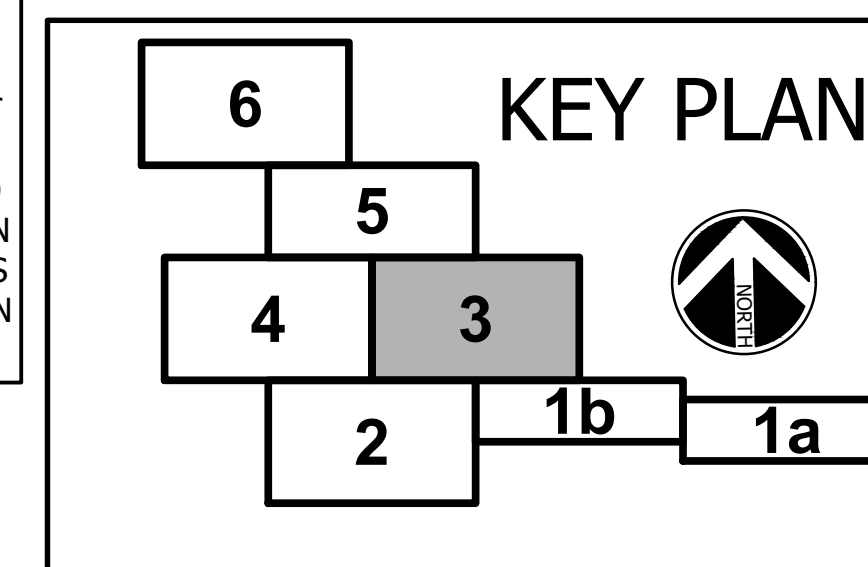
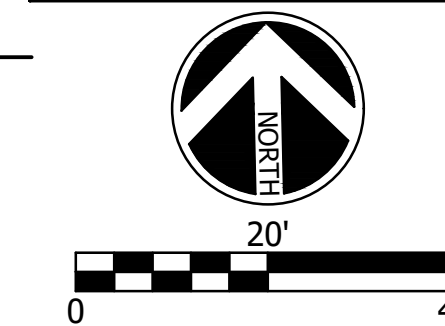
PLANTING GENERAL NOTES

- PLANTING PLAN IS SCHEMATIC, OWNER'S REP. SHALL FIELD VERIFY ALL EXISTING VEGETATION TO REMAIN.
- PLANT QUANTITIES WITHIN EACH PLANTING AREA SHOWN ARE APPROXIMATE BASED UPON PLANT SIZING, SPACING, AND FILL RATIOS INDICATED.
- SEE SHEET L1.00 FOR EXISTING PLANT CLEARING AND PLACEMENT NOTES.
- NO SIGNIFICANT EXISTING HEALTHY TREES SHALL BE REMOVED, UNLESS NOTED OTHERWISE (SEE DEMO.)

PLANTING CONSTRUCTION NOTES

- SELECTIVELY CLEAR AND GRUB AROUND EXISTING VEGETATION TO REMAIN.
- PLANTING SOIL PREP PER SOIL MANAGEMENT SPECIFICATIONS. PIT AMEND IN-FILL AREAS ONLY.
- INSTALL TREES & SHRUBS IN AREAS SHOWN.
- INSTALL UNIFORM 2" DEPTH MULCH IN ALL SHRUB PLANTING AREAS.

IMPORTANT NOTE:
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SHEET 98 OF 102
 BID SET

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	ABD	NOV. 2023
DRAWN	SAJ	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		



WASHINGTON
 STATE
 PARKS
 AND
 RECREATION
 COMMISSION

KOPACHUCK
 STATE PARK

DAY USE
 DEVELOPMENT

LANDSCAPE
 PLANTING PLAN
 GRID 3

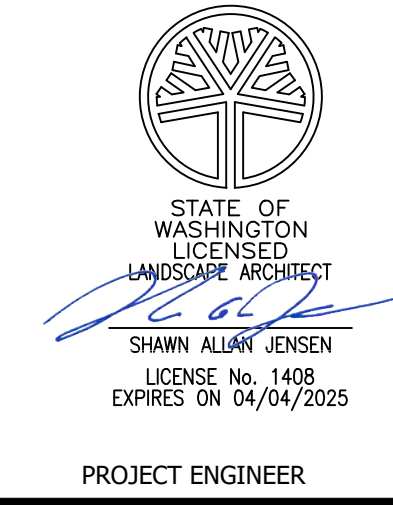
L1.03

SCALE
 AS NOTED

PARKS FILE#

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INT.
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NO.

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DRAWN	SAJ	NOV. 2023
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CHECKED (HDQTS.)		



WASHINGTON STATE PARKS AND RECREATION COMMISSION

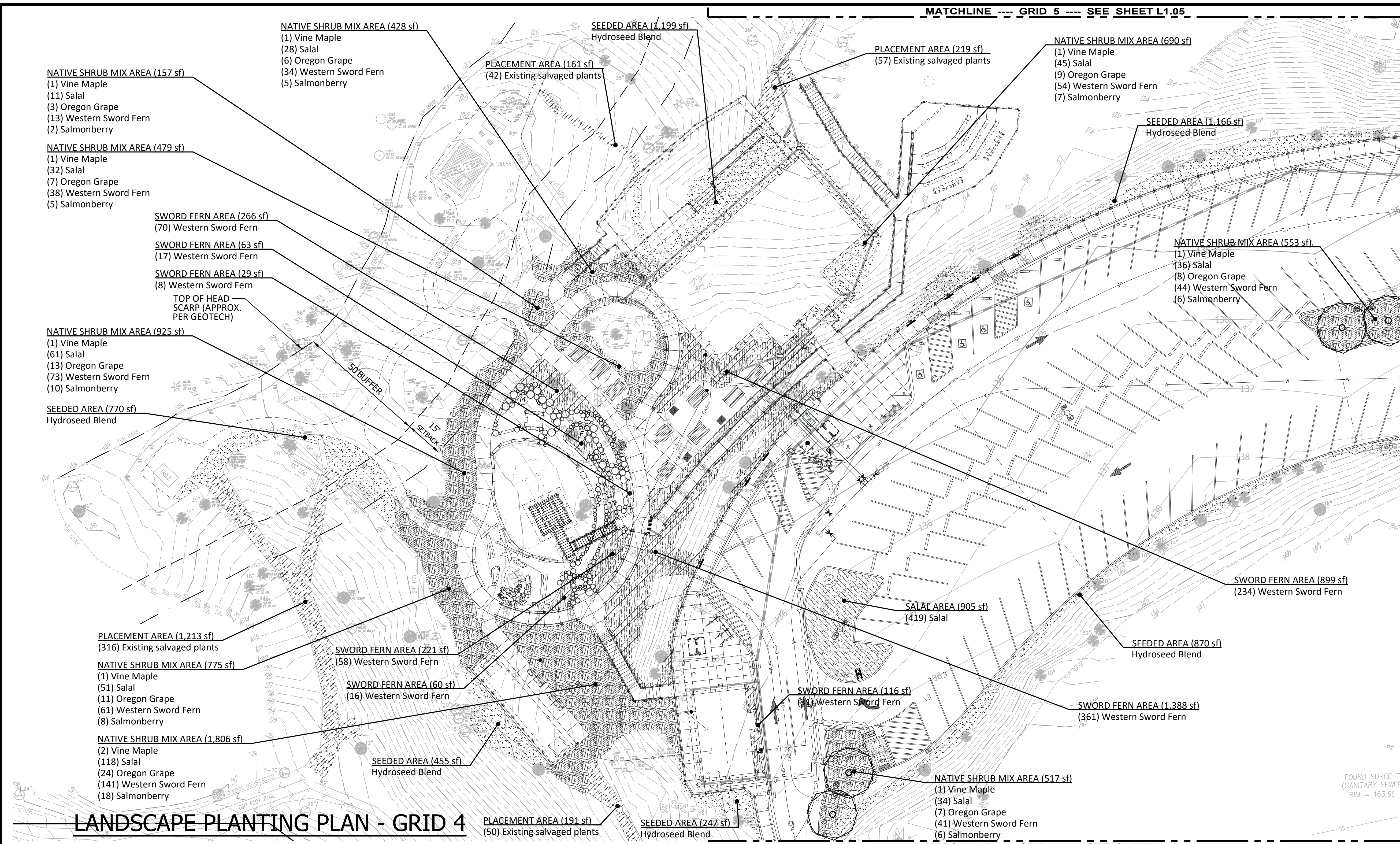
KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

LANDSCAPE PLANTING PLAN GRID 4

L1.04
SCALE AS NOTED

PARKS FILE#



LANDSCAPE PLANTING LEGEND - GRID 4

SYMBOL	PLANT AREA/NAME	AREA/QTY	SIZE	RATIO/SPACING	SYMBOL	PLANT AREA/NAME	AREA/QTY	SIZE	SPACING
	DECIDUOUS TREE BIG LEAF MAPLE	4	15 GAL			SEEDED AREA HYDROSEED BLEND	4,707 SF	(SEE SPECS)	
	NATIVE SHRUB MIX AREA (6,330 SF)					PLACEMENT AREA EXIST. SALVAGED PLANTS	(1,787 SF)		SEE PLANTING GENERAL NOTE #3
	VINE MAPLE	7	5 GAL	10% @ 120" oc		EXISTING DECIDUOUS TREES TO REMAIN (APPROX. SIZE)			
	SALAL	412	1 GAL	25% @ 24" oc		EXISTING CONIFEROUS TREES TO REMAIN (APPROX. SIZE)			
	OREGON GRAPE	83	2 GAL	20% @ 48" oc	EXISTING TREE LEGEND				
	WESTERN SWORD FERN	494	1 GAL	30% @ 24" oc					
	SALMONBERRY	62	2 GAL	15% @ 48" oc	PLANTING DETAILS NOTE				
	SWORD FERN AREA (3,042 SF)				1. SEE SHEET L2.01 FOR TYPICAL PLANTING DETAILS.				
	WESTERN SWORD FERN	791	1 GAL	24" oc					
	SALAL AREA (905 SF)								
	SALAL	419	1 GAL	18" oc					

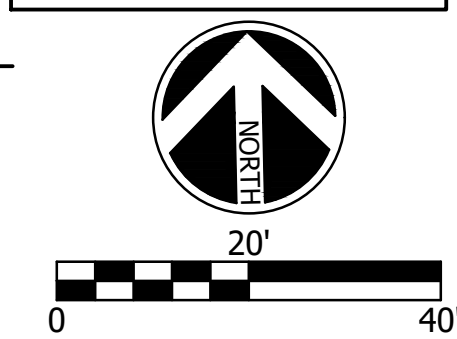
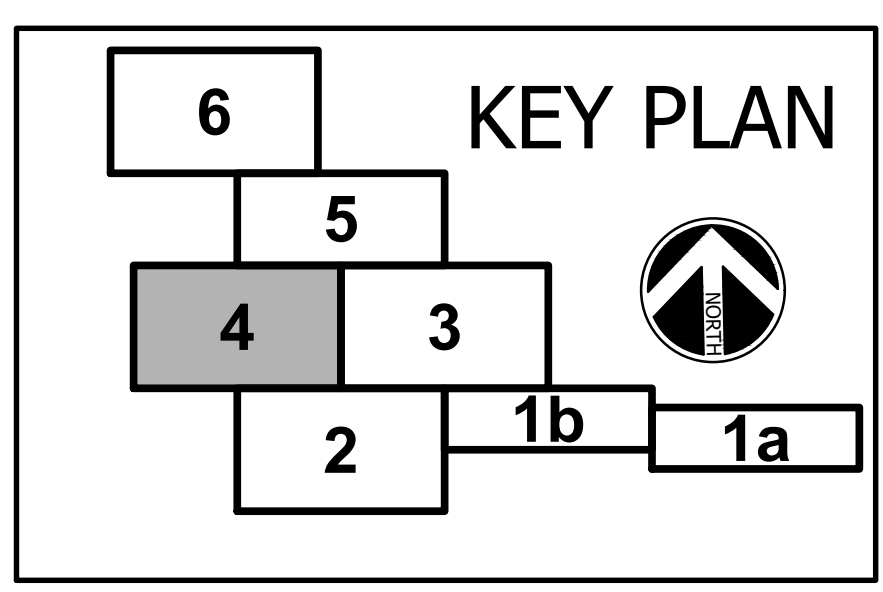
PLANTING GENERAL NOTES

1. PLANTING PLAN IS SCHEMATIC, OWNER'S REP. SHALL FIELD VERIFY ALL EXISTING VEGETATION TO REMAIN.
2. PLANT QUANTITIES WITHIN EACH PLANTING AREA SHOWN ARE APPROXIMATE BASED UPON PLANT SIZING, SPACING, AND FILL RATIOS INDICATED.
3. SEE SHEET L1.00 FOR EXISTING PLANT CLEARING AND PLACEMENT NOTES.
4. NO SIGNIFICANT EXISTING HEALTHY TREES SHALL BE REMOVED, UNLESS NOTED OTHERWISE (SEE DEMO.)

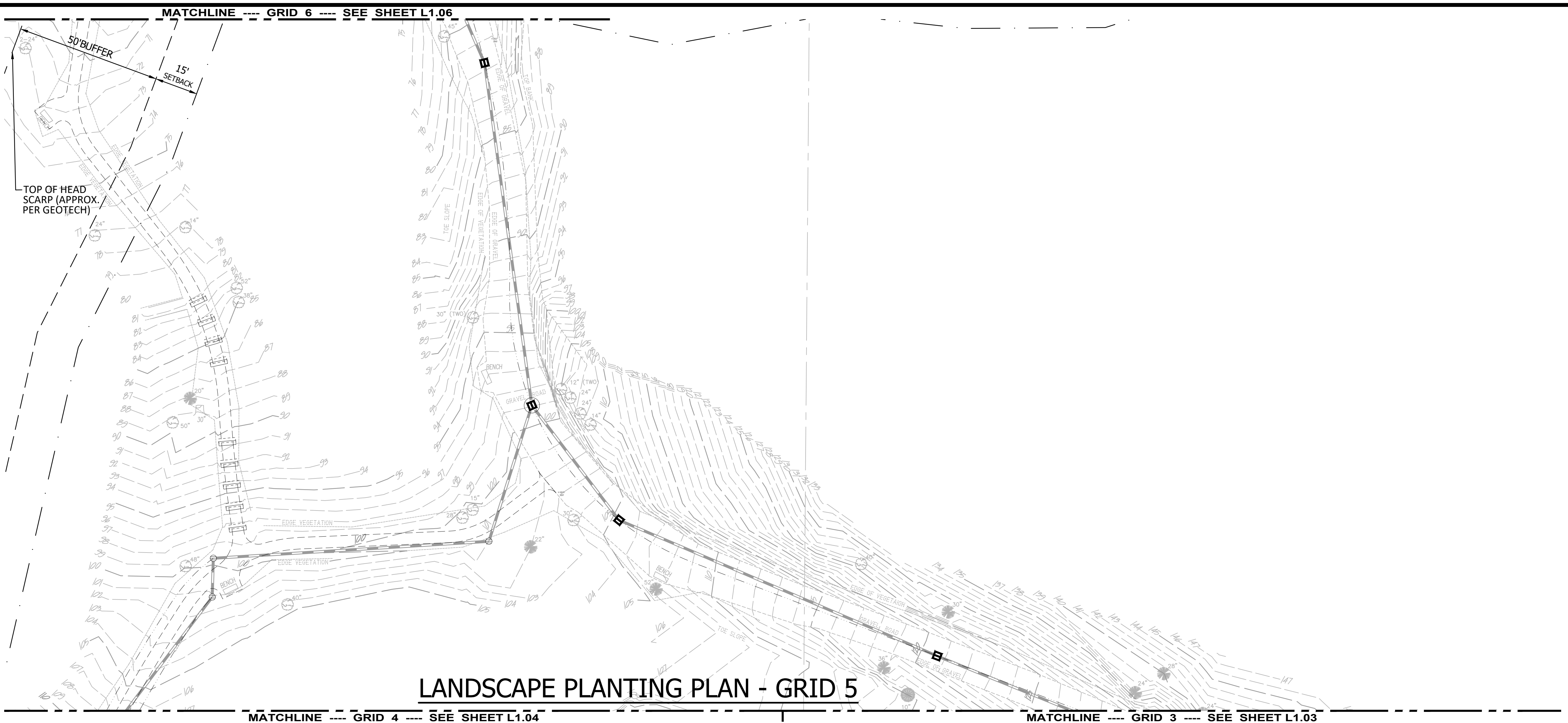
PLANTING CONSTRUCTION NOTES

1. SELECTIVELY CLEAR AND GRUB AROUND EXISTING VEGETATION TO REMAIN.
2. PLANTING SOIL PREP PER SOIL MANAGEMENT SPECIFICATIONS. PIT AMEND IN-FILL AREAS ONLY.
3. INSTALL TREES & SHRUBS IN AREAS SHOWN.
4. INSTALL UNIFORM 2" DEPTH MULCH IN ALL SHRUB PLANTING AREAS.

IMPORTANT NOTE:
PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE WORK NECESSARY TO COMPLETE CONSTRUCTION UNDER THIS CONTRACT AS SHOWN AND SPECIFIED ON THESE PLANS.





SHEET 99 OF 102
BID SET



LANDSCAPE PLANTING PLAN - GRID 5

EXISTING TREE LEGEND

 EXISTING DECIDUOUS TREES TO REMAIN (APPROX. SIZE)
 EXISTING CONIFEROUS TREES TO REMAIN (APPROX. SIZE)

PLANTING DETAILS NOTE

1. SEE SHEET L2.01 FOR TYPICAL PLANTING DETAILS.

PLANTING GENERAL NOTES

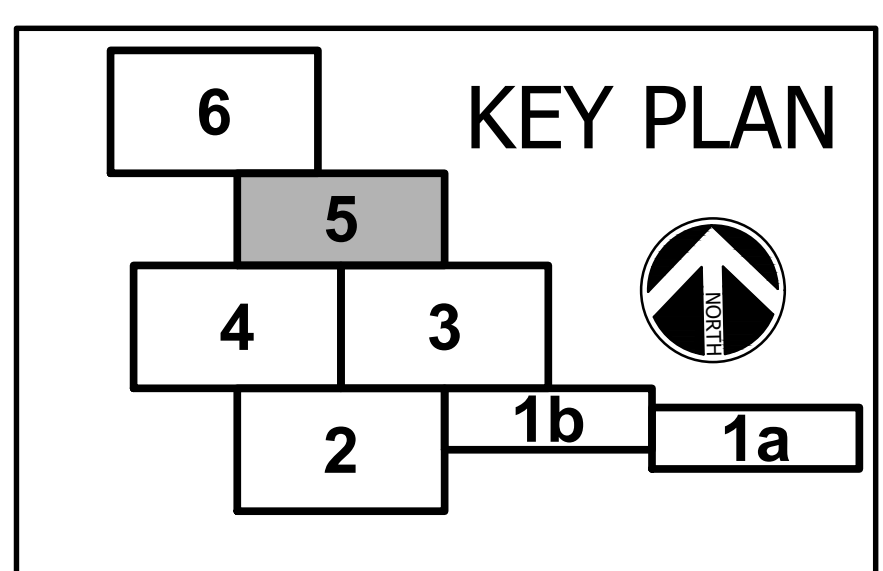
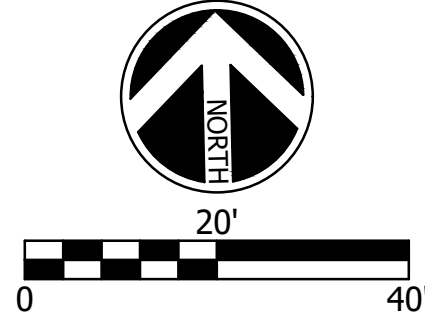
1. PLANTING PLAN IS SCHEMATIC, OWNER'S REP. SHALL FIELD VERIFY ALL EXISTING VEGETATION TO REMAIN.
2. PLANT QUANTITIES WITHIN EACH PLANTING AREA SHOWN ARE APPROXIMATE BASED UPON PLANT SIZING, SPACING, AND FILL RATIOS INDICATED.
3. SEE SHEET L1.00 FOR EXISTING PLANT CLEARING AND PLACEMENT NOTES.
4. NO SIGNIFICANT EXISTING HEALTHY TREES SHALL BE REMOVED, UNLESS NOTED OTHERWISE (SEE DEMO.)

PLANTING CONSTRUCTION NOTES

1. SELECTIVELY CLEAR AND GRUB AROUND EXISTING VEGETATION TO REMAIN.
2. PLANTING SOIL. PREP PER SOIL MANAGEMENT SPECIFICATIONS. PIT AMEND IN-FILL AREAS ONLY.
3. INSTALL TREES & SHRUBS IN AREAS SHOWN.
4. INSTALL UNIFORM 2" DEPTH MULCH IN ALL SHRUB PLANTING AREAS.

IMPORTANT NOTE:

PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE WORK NECESSARY TO COMPLETE CONSTRUCTION UNDER THIS CONTRACT AS SHOWN AND SPECIFIED ON THESE PLANS.



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SHEET 100 OF 102
 BID SET

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	REVISIONS	
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ACTION	BY	DATE
DESIGNED	ABD	NOV. 2023
DRAWN	SAJ	NOV. 2023
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PROJECT ENGINEER

WASHINGTON
 STATE
 PARKS
 AND
 RECREATION
 COMMISSION



KOPACHUCK
 STATE PARK

DAY USE
 DEVELOPMENT

LANDSCAPE
 PLANTING PLAN
 GRID 5

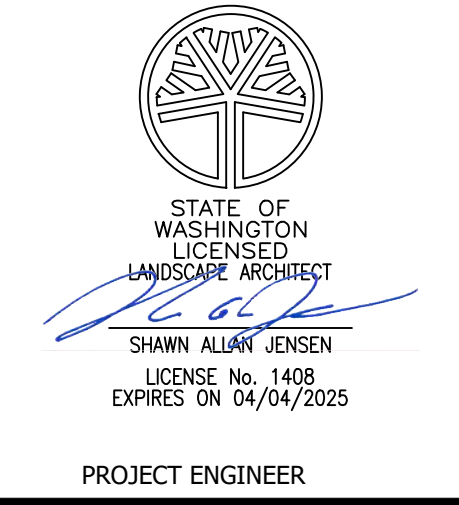
L1.05

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 AS NOTED

PARKS FILE#

	DATE
	APP.
	INT.
	NO.
	REVISIONS

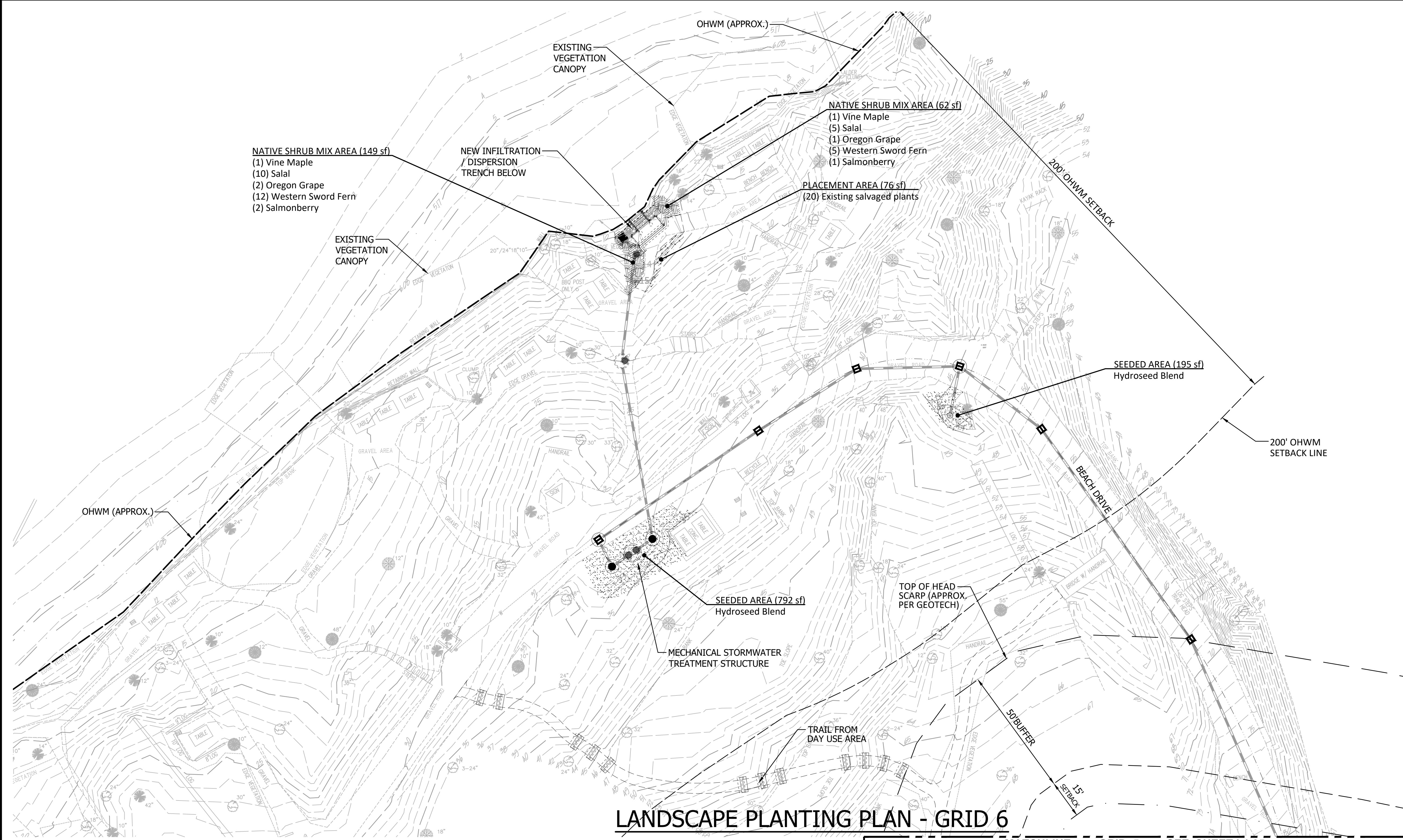
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DESIGNED	ABD	NOV. 2023
DRAWN	SAJ	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		



WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK
DAY USE DEVELOPMENT

LANDSCAPE PLANTING PLAN GRID 6
L1.06
SCALE AS NOTED
PARKS FILE#



LANDSCAPE PLANTING PLAN - GRID 6

MATCHLINE GRID 5 SEE SHEET L1.05

LANDSCAPE PLANTING LEGEND - GRID 6

SYMBOL	PLANT AREA/NAME	AREA/QTY	SIZE	RATIO/SPACING
[Pattern]	NATIVE SHRUB MIX AREA	(211 SF)		
[Symbol]	VINE MAPLE	2	5 GAL	10% @ 120" oc
[Symbol]	SALAL	15	1 GAL	25% @ 24" oc
[Symbol]	OREGON GRAPE	3	2 GAL	20% @ 48" oc
[Symbol]	WESTERN SWORD FERN	17	1 GAL	30% @ 24" oc
[Symbol]	SALMONBERRY	3	2 GAL	15% @ 48" oc
[Pattern]	SEEDED AREA HYDROSEED BLEND	987 SF	(SEE SPECS)	
[Pattern]	PLACEMENT AREA EXIST. SALVAGED PLANTS	(76 SF)	SEE PLANTING GENERAL NOTE #3	

EXISTING TREE LEGEND

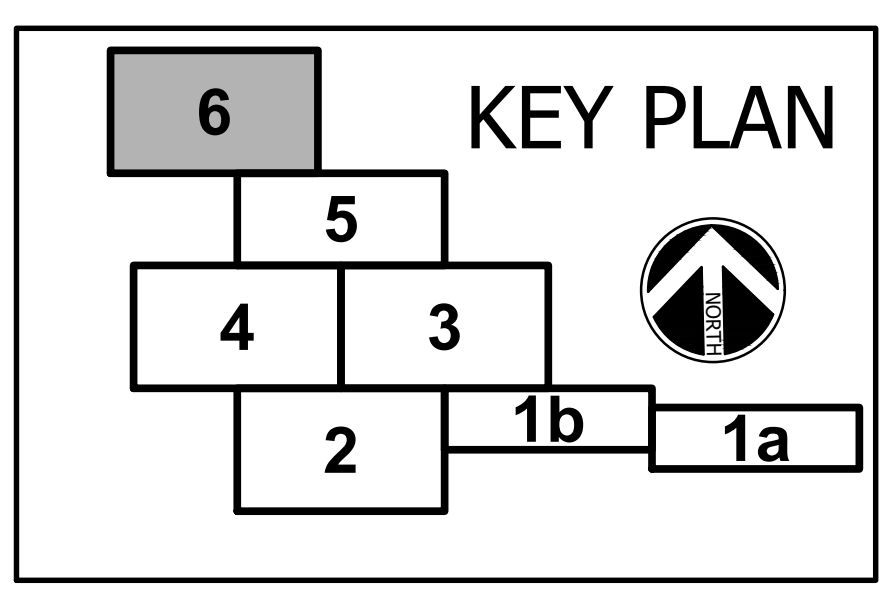
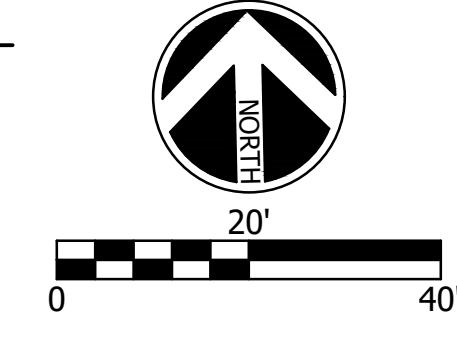
[Symbol]	EXISTING DECIDUOUS TREES TO REMAIN (APPROX. SIZE)
[Symbol]	EXISTING CONIFEROUS TREES TO REMAIN (APPROX. SIZE)

PLANTING DETAILS NOTE
1. SEE SHEET L2.01 FOR TYPICAL PLANTING DETAILS.

- PLANTING GENERAL NOTES**
1. PLANTING PLAN IS SCHEMATIC, OWNER'S REP. SHALL FIELD VERIFY ALL EXISTING VEGETATION TO REMAIN.
 2. PLANT QUANTITIES WITHIN EACH PLANTING AREA SHOWN ARE APPROXIMATE BASED UPON PLANT SIZING, SPACING, AND FILL RATIOS INDICATED.
 3. SEE SHEET L1.00 FOR EXISTING PLANT CLEARING AND PLACEMENT NOTES.
 4. NO SIGNIFICANT EXISTING HEALTHY TREES SHALL BE REMOVED, UNLESS NOTED OTHERWISE (SEE DEMO.)

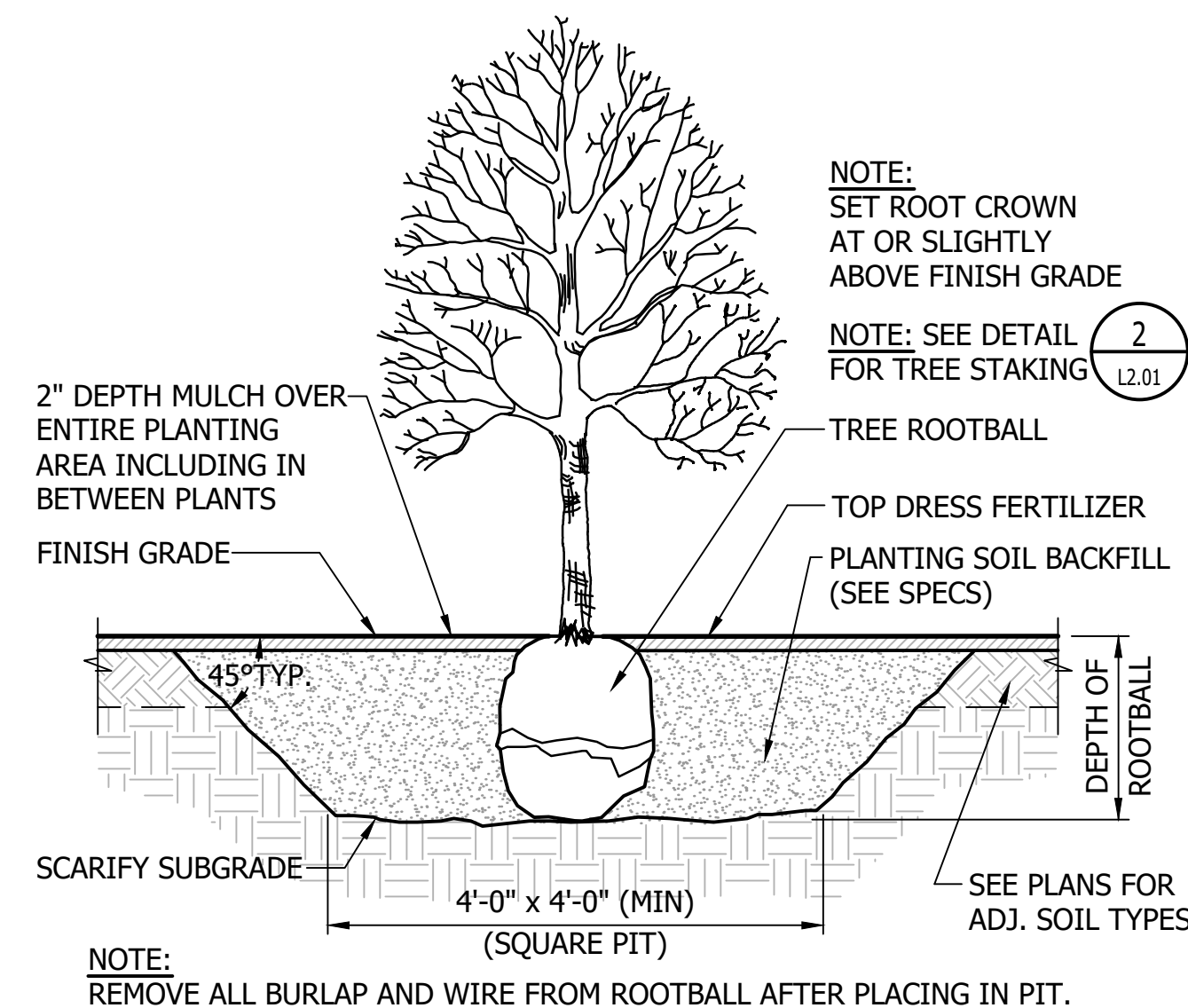
- PLANTING CONSTRUCTION NOTES**
1. SELECTIVELY CLEAR AND GRUB AROUND EXISTING VEGETATION TO REMAIN.
 2. PLANTING SOIL PREP PER SOIL MANAGEMENT SPECIFICATIONS. PIT AMEND IN-FILL AREAS ONLY.
 3. INSTALL TREES & SHRUBS IN AREAS SHOWN.
 4. INSTALL UNIFORM 2" DEPTH MULCH IN ALL SHRUB PLANTING AREAS.

IMPORTANT NOTE:
PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE WORK NECESSARY TO COMPLETE CONSTRUCTION UNDER THIS CONTRACT AS SHOWN AND SPECIFIED ON THESE PLANS.

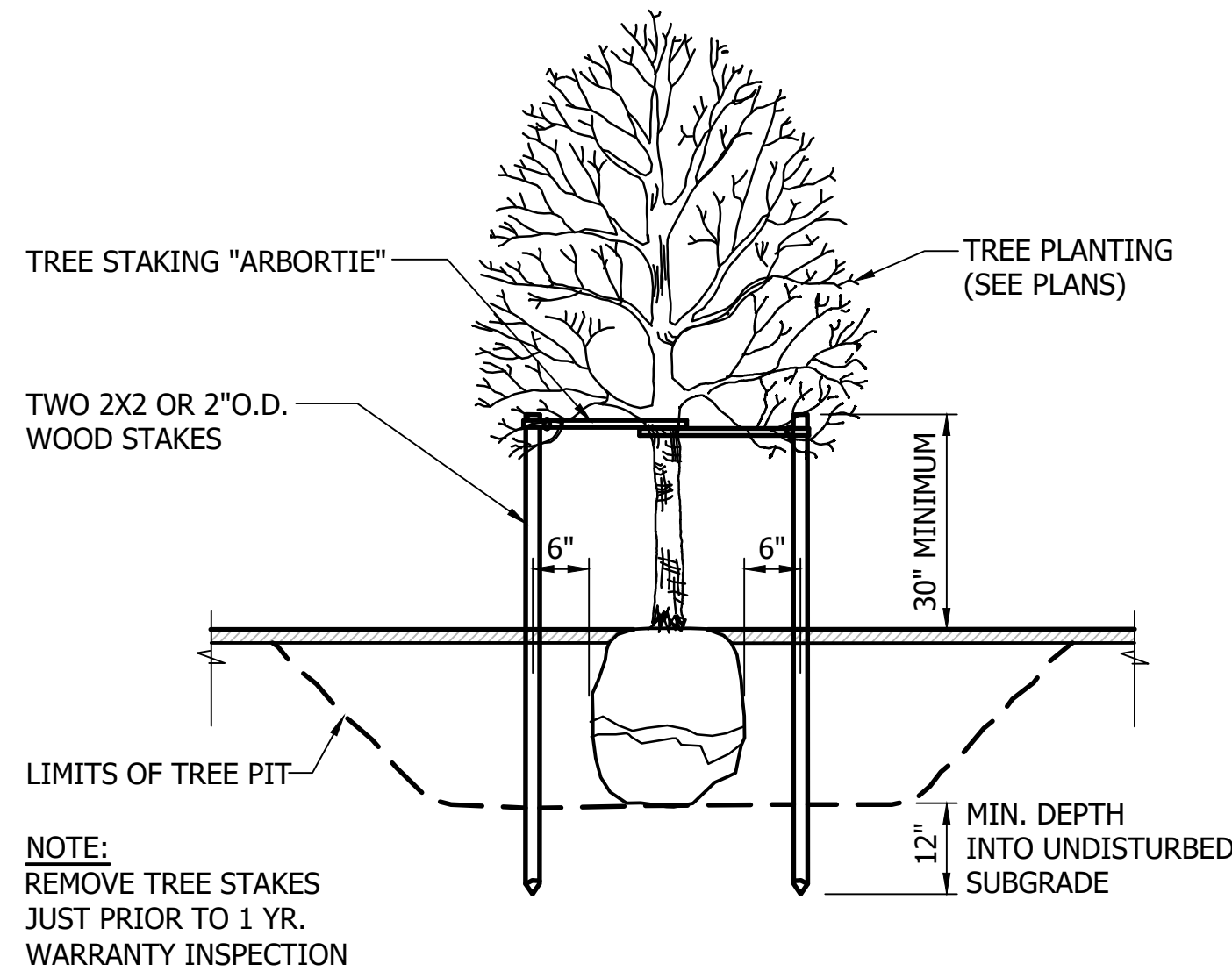


BRUCE DEES & ASSOCIATES
Landscape Architecture • Urban Design
Site Planning • Recreation Facilities Design
222 E. 26th St., No. 202, Tacoma, WA 98401 (253)627-7947
www.brucedees.com info@brucedees.com

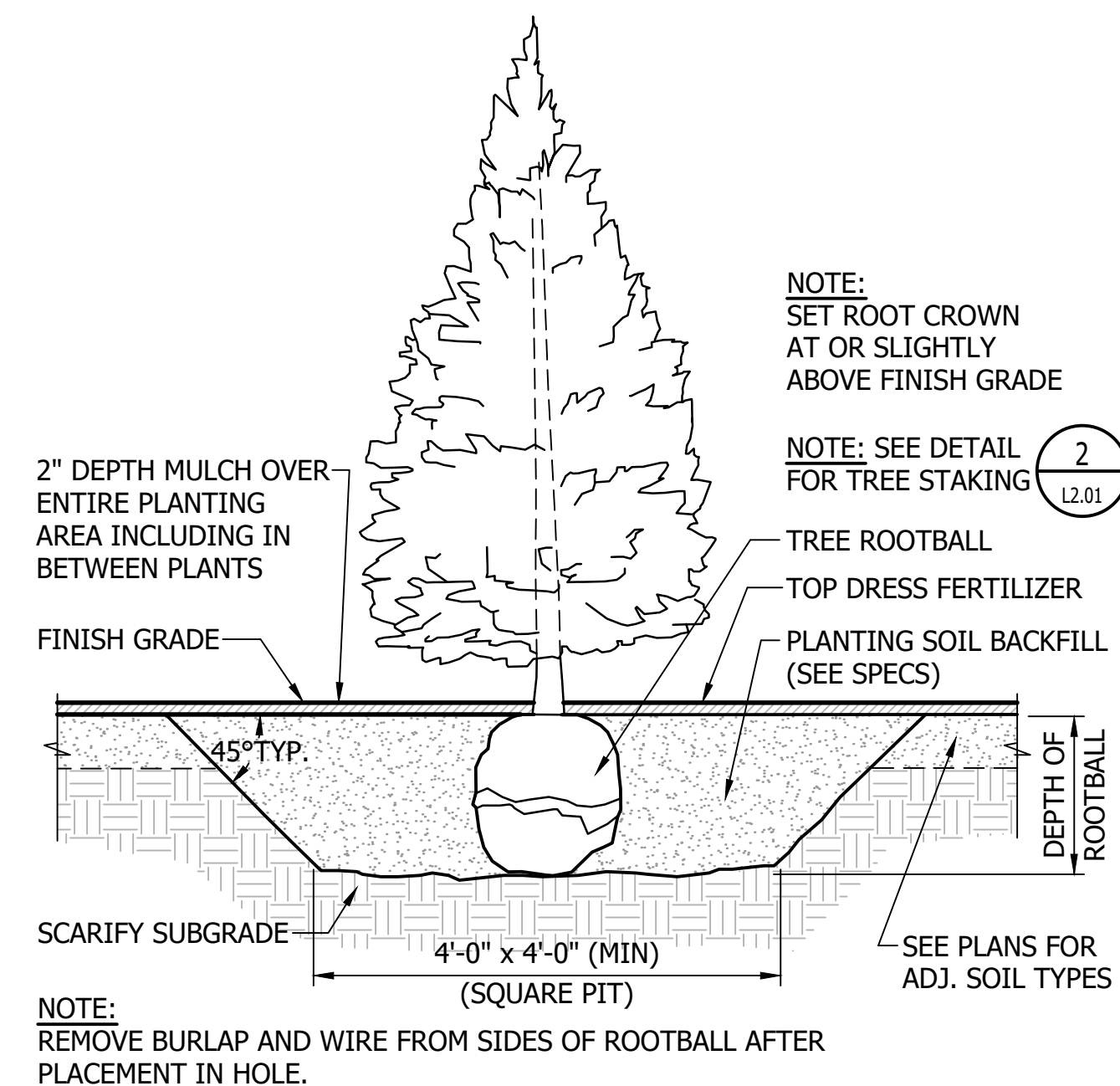
SHEET 101 OF 102
BID SET



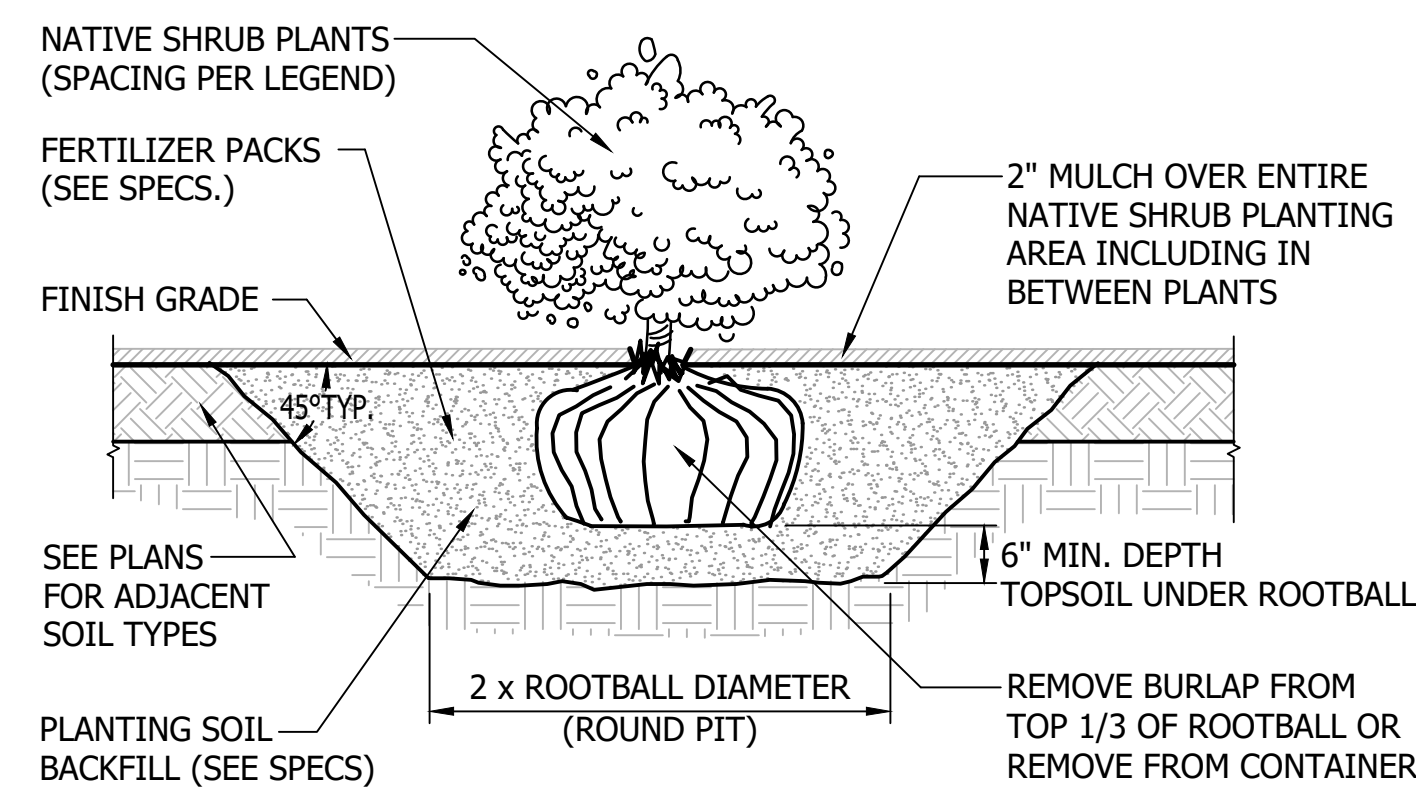
1 DECIDUOUS TREE PLANTING
 L2.01 1/2" = 1'-0" ON FULL SIZE (34"x22")



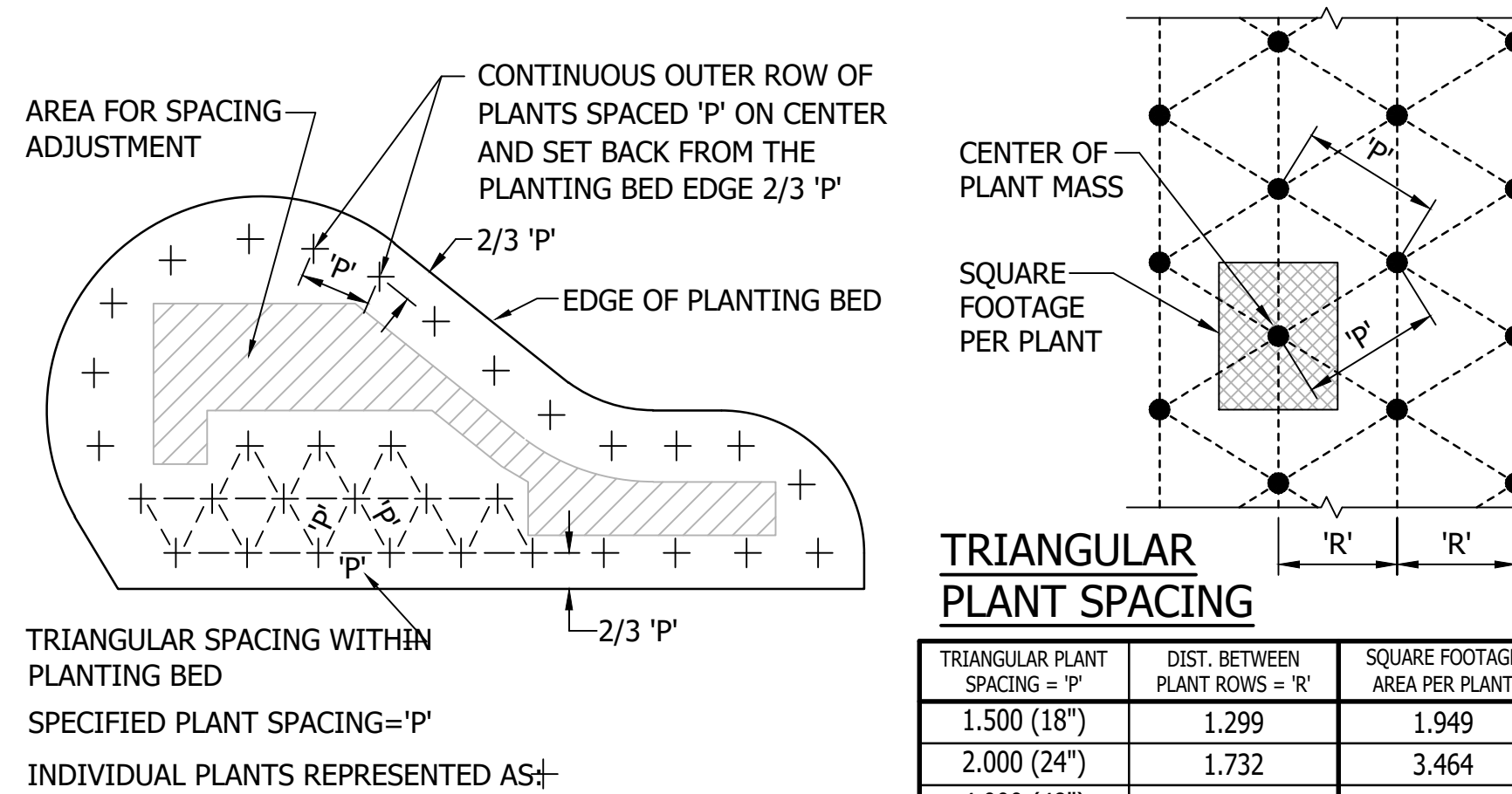
2 TREE STAKING DETAIL
 L2.01 1/2" = 1'-0" ON FULL SIZE (34"x22")



3 CONIFEROUS TREE PLANTING
 L2.01 1/2" = 1'-0" ON FULL SIZE (34"x22")



4 NATIVE SHRUB PLANTING
 L2.01 1/2" = 1'-0" ON FULL SIZE (34"x22")



SAMPLE PLANTING BED

5 PLANT SPACING DETAILS
 L2.01 SCALE : N. T. S.

TRIANGULAR PLANT SPACING

TRIANGULAR PLANT SPACING = 'P'	DIST. BETWEEN PLANT ROWS = 'R'	SQUARE FOOTAGE AREA PER PLANT
1.500 (18")	1.299	1.949
2.000 (24")	1.732	3.464
4.000 (48")	3.464	13.856
10.000 (120")	8.660	86.603

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WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE DEVELOPMENT

LANDSCAPE PLANTING DETAILS

L2.01

SCALE AS NOTED

PARKS FILE#



SHEET 102 OF 102
 BID SET

WASHINGTON STATE PARKS & RECREATION COMMISSION

KEN BOUNDS, CHAIR

SOPHIA DANENBERG

LAURIE CONNELLY

MICHAEL LATIMER

SCOTT MERRIMAN

ALI RAAD

HOLLY WILLIAMS

DIANA DUPUIS, DIRECTOR



Area Manager: OLYVIA BUDAY

APPROVED FOR CONSTRUCTION

[Signature] 09 Feb 2024
 REGION MANAGER date
Kyle Murphy 2/14/2024
 CAPITAL PROGRAM MANAGER date

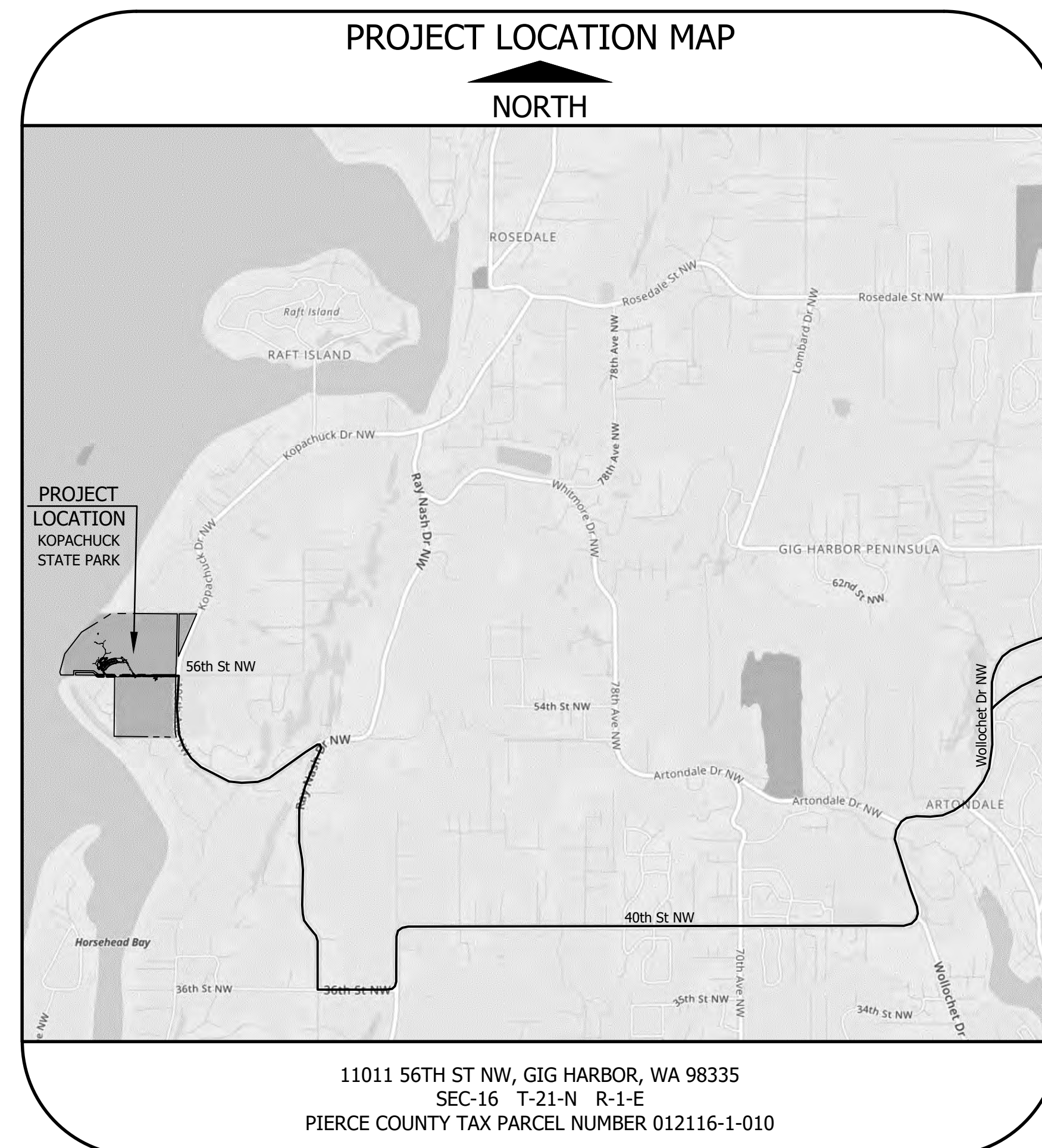
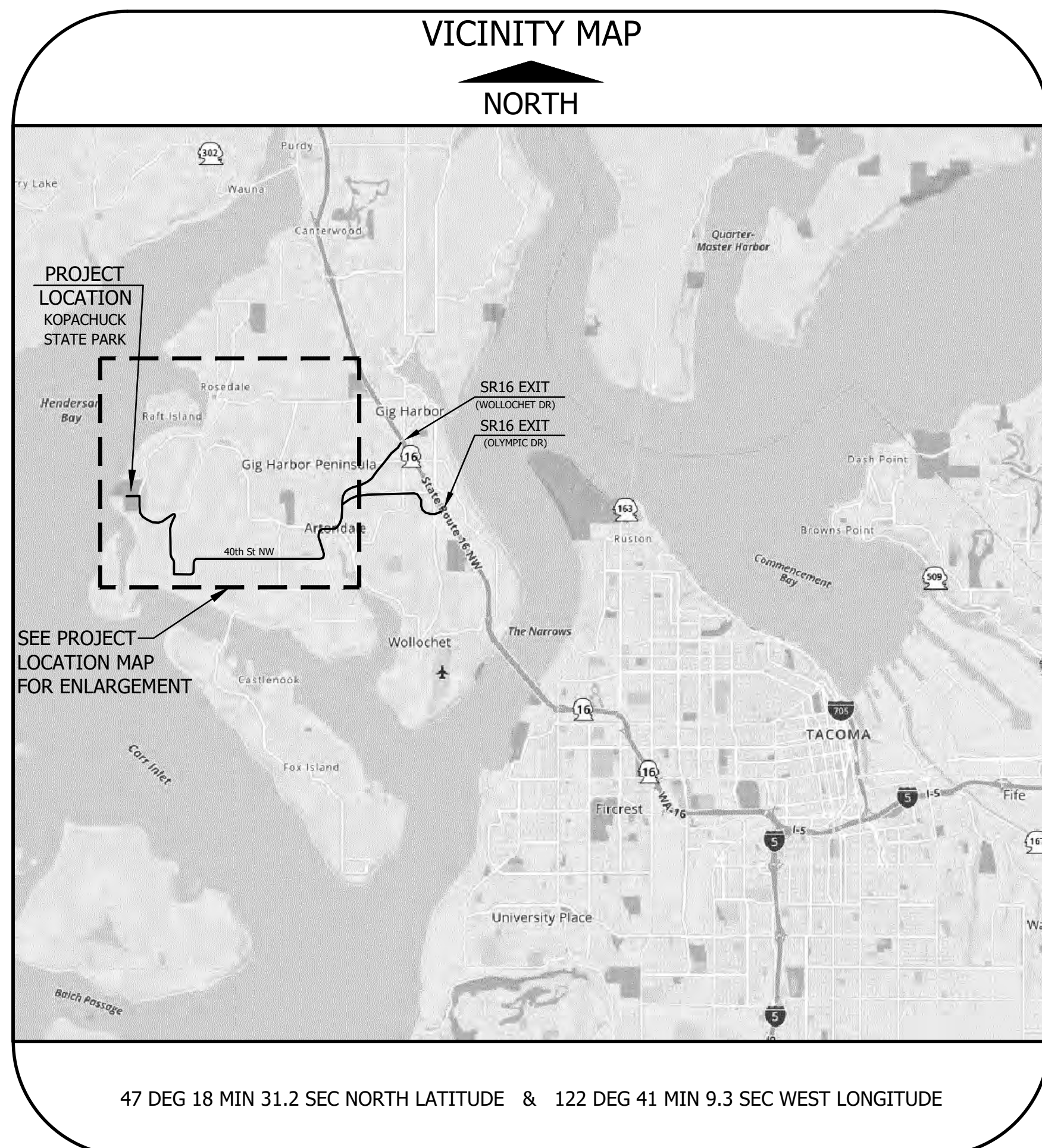
KOPACHUCK STATE PARK
 DAY USE DEVELOPMENT
VOLUME 2 of 3
 DAY USE BUILDING DRAWINGS

KOPACHUCK STATE PARK DAY USE DEVELOPMENT (VOLUME 2 OF 3)

DRAWING SHEET INDEX - DAY USE BUILDING DRAWINGS VOLUME ONLY*

SHEET	DWG	DRAWING SHEET DESCRIPTION	SHEET	DWG	DRAWING SHEET DESCRIPTION
1	G0.01	ARCHITECTURAL: COVER SHEET	39	M0.1	MECHANICAL: MECHANICAL LEGEND & NOTES
2	G0.02	SITE PLAN	40	M0.2	MECHANICAL SCHEDULES
3	A2.0	MAIN LEVEL FLOOR PLAN	41	M1.0	LOWER FLOOR HVAC PLAN
4	A2.1	LOWER LEVEL FLOOR PLAN	42	M1.1	MAIN FLOOR HVAC PLAN
5	A2.2	REFLECTED CEILING MAIN LEVEL PLAN	43	M2.0	MECHANICAL DETAILS
6	A2.3	REFLECTED CEILING LOWER LEVEL PLAN	44	P0.1	PLUMBING LEGEND & NOTES
7	A2.4	ROOF PLAN	45	P0.2	PLUMBING SCHEDULES
8	A3.0	EXTERIOR ELEVATIONS AND SIDING DTLS.	46	P1.0	UNDERSLAB PLUMBING PLAN
9	A3.1	EXTERIOR ELEVATIONS	47	P1.1	LOWER FLOOR PLUMBING PLAN
10	A3.2	EXTERIOR ELEVATIONS AND SIDING DTLS.	48	P1.2	MAIN FLOOR PLUMBING PLAN
11	A3.3	EXTERIOR ELEVATIONS			
12	A4.0	BUILDING SECTIONS			
13	A4.1	BUILDING SECTIONS			
14	A5.0	DOOR SCHEDULE & ROOM FINISH SCHEDULE	49	E0.00	ELECTRICAL: SYMBOLS AND ABBREVIATIONS
15	A5.1	ENLARGED TOILET PLAN, ELEVATIONS AND TOILET ACCESSORIES SCHEDULE	50	E2.01	LOWER LEVEL FLOOR PLAN - LIGHTING
16	A5.2	INTERIOR ELEVATIONS AND DETAILS	51	E2.02	MAIN LEVEL FLOOR PLAN - LIGHTING
17	A6.0	TYP. SIDING AND ROOF DETAILS	52	E3.01	LOWER LEVEL FLOOR PLAN - POWER
			53	E3.02	MAIN LEVEL FLOOR PLAN - POWER
			54	E4.02	PANEL SCHEDULES & ONE-LINE
			55	TA1.01	MAIN LEVEL FLOOR PLAN - AUDIOVISUAL
			56	TA1.02	AUDIOVISUAL SINGLE LINES
18	S0.01	STRUCTURAL: GENERAL NOTES			
19	S0.02	GENERAL NOTES			
20	S0.03	GENERAL NOTES			
21	S0.04	GENERAL NOTES			
22	S0.05	GENERAL NOTES			
23	S2.01	FOUNDATION PLAN			
24	S2.11	FLOOR FRAMING PLAN			
25	S2.21	ROOF FRAMING PLAN			
26	S3.01	FOUNDATION DETAILS			
27	S3.02	FOUNDATION DETAILS			
28	S3.03	FOUNDATION DETAILS			
29	S4.01	FRAMING DETAILS			
30	S4.02	FRAMING DETAILS			
31	S4.03	FRAMING DETAILS			
32	S4.04	FRAMING DETAILS			
33	S4.05	ROOF FRAMING DETAILS			
34	S4.06	ROOF FRAMING DETAILS			
35	S4.07	FLOOR FRAMING DETAILS			
36	S5.01	TRUSS ELEVATION AND DETAILS			
37	S5.02	TRUSS ELEVATION AND DETAILS			
38	S5.03	TRUSS ELEVATION AND DETAILS			

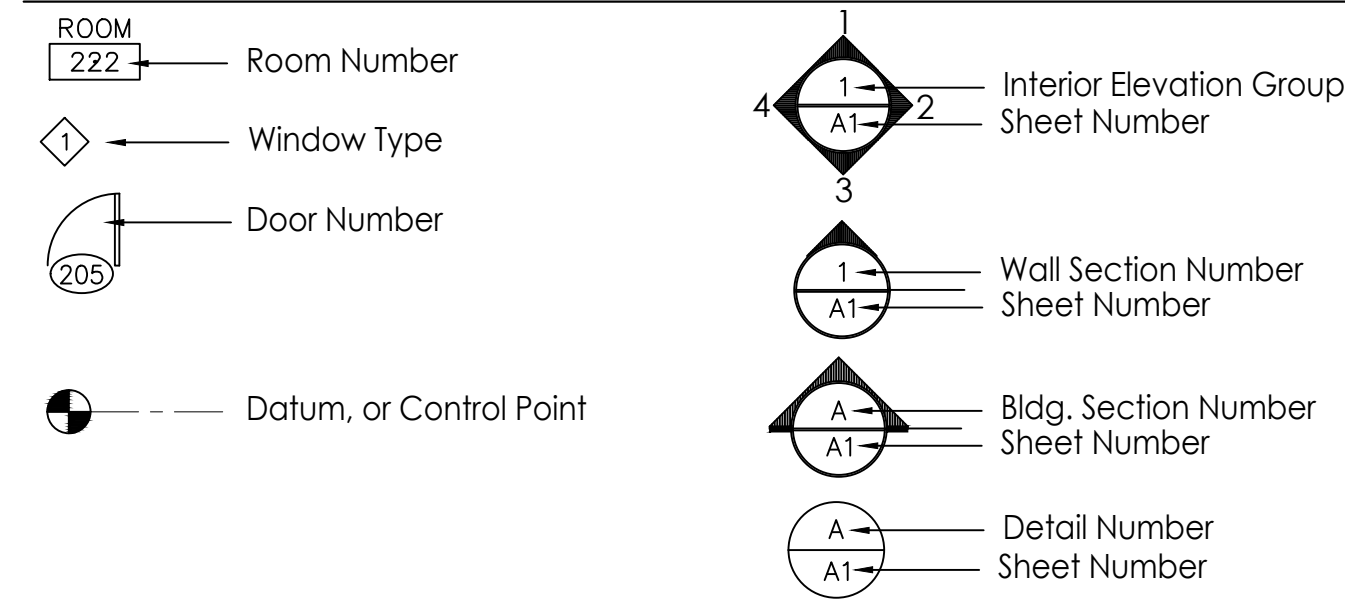
*NOTE: THE ABOVE DRAWING SHEET INDEX PERTAINS TO THE DAY USE BUILDING WORK FOR THIS PROJECT ONLY. THE SITE WORK (VOLUME 1) AND WELCOME CENTER WORK (VOLUME 3) ARE SHOWN INDIVIDUALLY WITHIN SEPARATE DRAWING VOLUMES. SEE EACH OF THOSE INDIVIDUAL DRAWING VOLUMES FOR THE SHEET INDEXES PERTAINING TO WORK WITHIN THOSE VOLUMES.



SHEET 1 OF 56
 BID SET

G0.01

SYMBOLS



ABBREVIATIONS

A.B.	ANCHOR BOLT	MTL.	METAL
A.C.P.	ACOUSTICAL CEILING PANEL	N.T.S.	NOT TO SCALE
AFFLR.	ABOVE FINISH FLOOR	O.C.	ON CENTER
B.S.	BACK SPLASH	O.H.	OPPOSITE HAND/OVER HANG
BM.	BEAM	O.S.B.	ORIENTED STRAND BOARD
C.J.	CONTROL/CONSTRUCTION JOINT	P.L.B.	PARA LAMINATED BEAM
C.L. or C	CENTERLINE	P.LAM.	PLASTIC LAMINATED
CONT.	CONTINUOUS	PLYWD.	PLYWOOD
CPT.	CARPET	PR.	PAIR
CRM.	CLASSROOM	PT.	PAINT
D.	DEPTH	P.T.D.	PAPER TOWEL DISPENSER
D.F.	DRINKING FOUNTAIN	R.I.	ROUGH-IN
D.O.	DEDICATED OUTLET	S & V	STAINED & VARNISHED
D.S.	DOWN SPOUT	S.C.	SOLID CORE
EX.	EXISTING	S.V.	SHEET VINYL
EXP. BOLT	EXPANSION BOLT	SHT. MTL.	SHEET METAL
F.D.	FLOOR DRAIN	SH.	SIMILAR
F.E.	FIRE EXTINGUISHER	T & G	TONGUE & GROOVE
FIN. FLR.	FINISH FLOOR	T.O.B.	TOP OF BEAM
F.O.I.C.	FURNISHED BY OWNER INSTALLED BY CONTRACTOR	T.O.C	TOP OF CONCRETE
F.O.P.W	FACE OF PLYWOOD	T.O.P.	TOP OF PLATE
G.LAM.	GLUE LAMINATED	T.O.W.	TOP OF WALL
GA.	GAUGE OR GAGE	TRI.	TREATED
GALV.	GALVANIZED	T.T.D.	TOILET TISSUE DISPENSER
H.	HEIGHT	TYP.	TYPICAL
H.C.	HOLLOW CORE/HANDICAP	U.N.O.	UNLESS NOTED OTHERWISE
H.M.	HOLLOW METAL	W.	WIDE
HDR.	HEADER	W.P.	WATER PROOF
L.	LENGTH	WD.	WOOD

GENERAL NOTES

- Product specifications incorporated throughout Construction Documents.
- Install materials/products per manufacturer's recommendations and specifications.
- All work shall be performed in strict accordance to the Architect's construction documents.
- Do not scale drawings.
- All work shall be performed in strict conformance with all governing building codes and regulations.
- The Contractor shall be responsible for all work that has been performed which does not meet these codes and regulations.
- The Contractor shall verify dimensions denoted on the construction documents as "field verify" on site prior to commencement of construction.
- The construction work shall be limited to the immediate area in which the work is being performed.
- The Contractor shall be responsible for the cleaning of all the debris and dust throughout the site which is a result of this construction project.
- The Contractor shall be responsible for the removal and disposal of all debris for the site. All costs for the removal of construction debris shall be the sole responsibility of the Contractor.

PROJECT DATA

SITE PROJECT:
KOPACHUCK STATE PARK
11011 56TH ST NW
GIG HARBOR,
WA, 98335

TAX PARCEL NUMBER:
0121161010

ZONING:
PARK & RECREATION

BUILDING CODE:
2018 EDITION, INTERNATIONAL BUILDING CODE &
WAC 51-50

JURISDICTION:
UNINCORPORATED PIERCE COUNTY

OCCUPANCY CLASSIFICATION:
A-3 (MEETING, RESTROOMS, KITCHEN)

CONSTRUCTION TYPE:
TYPE V-B, WITH NFPA13 FIRE SPRINKLER SYSTEM

BUILDING AREA (GROSS S.F.): 3,286 SF
MAIN LEVEL FLOOR AREA: 410 SF
LOWER FLOOR AREA: 3,696 SF
TOTAL SF: 4,106 SF

VESTIBULE 100: 307 SF
 WARMING KITCHEN 101: 196 SF
 ADA TOILET 102: 48 SF
 ADA TOILET 103: 54 SF
 ADA TOILET 104: 54 SF
 ADA TOILET 105: 48 SF
 STORAGE 106: 172 SF
 MEETING 107: 1,296 SF
 MEETING 108: 862 SF
MAIN LEVEL USABLE AREA S.F.: 2,878 SF

ADA TOILET 001: 53 SF
 ADA TOILET 002: 53 SF
LOWER FLOOR USABLE AREA S.F.: 106 SF

PLUMBING CALCULATION - MAIN LEVEL

ROOM #	ROOM NAME	AREA	OCCUPANCY	CHAP. 10 OCC. LOAD FACTORS	OCC. LOAD
100	VESTIBULE	307	B	0	0
101	KITCHEN WARMING	196	-	100	2
102	ADA TOILET	48	-	0	0
103	ADA TOILET	54	-	0	0
104	ADA TOILET	54	-	0	0
105	ADA TOILET	48	-	0	0
106	STORAGE	172	S	300	1
107	MEETING	1296	A-3	5	260
108	MEETING	862	A-3	-	172
109	JANITOR	13	S	300	1
					436 occ.

PLUMBING CALCULATION - LOWER LEVEL

ROOM #	ROOM NAME	AREA	OCCUPANCY	CHAP. 10 OCC. LOAD FACTORS	OCC. LOAD
1	ADA TOILET	53	-	0	0
2	ADA TOILET	53	-	0	0
3	MECHANICAL	154	-	0	0
					0 occ.

MEN'S RESTROOM:
 REQUIRED LAVATORIES (2) LAVATORIES
 REQUIRED TOILETS (2) TOILETS
 PROVIDED: (2) LAVATORIES, (2) TOILETS

WOMEN'S RESTROOM:
 REQUIRED LAVATORIES (2) LAVATORIES
 REQUIRED TOILETS (4) TOILETS
 PROVIDED: (2) LAVATORIES, (4) TOILETS

PROJECT TEAM

ARCHITECT

AustinCina Architects, P.S.
 Architect of Record:
 WP Architecture
 253-691-2758
 Contact: Bill Parretta

STRUCTURAL ENGINEER

PCS Structural Solutions
 Pacific Plaza
 1250 Pacific Ave, Suite 701
 Tacoma, WA 98402
 Phone 253.383.2797
 JPinkard@pcs-structural.com;
 Contact: Jack Pinkard, P.E.

MECHANICAL ENGINEER

Veach Consulting Engineers
 12202 Pacific Avenue South, Suite B
 Tacoma, Washington 98444
 253-274-5201
 Contact: Ted Veach, P.E.

ELECTRICAL ENGINEER

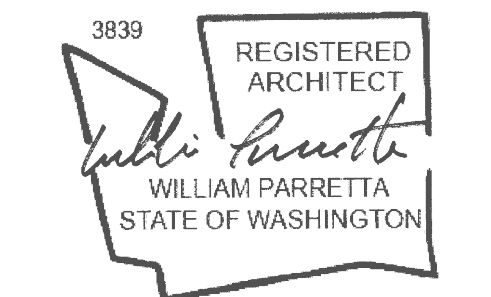
Stantec
 4100 194TH ST SW, Suite 400
 LYNWOOD, WA, 98036
 chris.forte@stantec.com
 Contact: Christopher Fote, P.E.

GENERAL CONTRACTOR

To Be Determined

CAD NO.	
DATE	
APP.	
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NO.	

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PROJECT ENGINEER



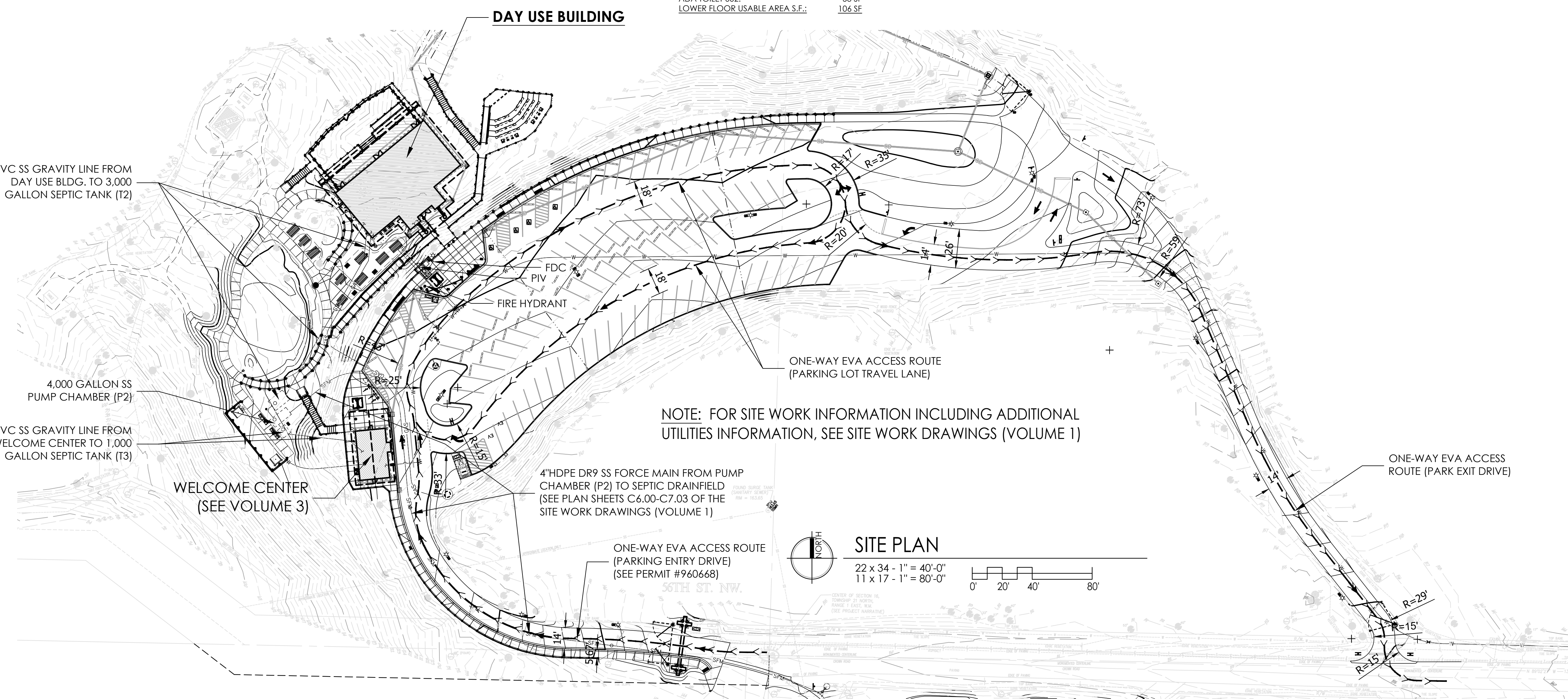
KOPACHUCK STATE PARK

DAY USE BUILDING

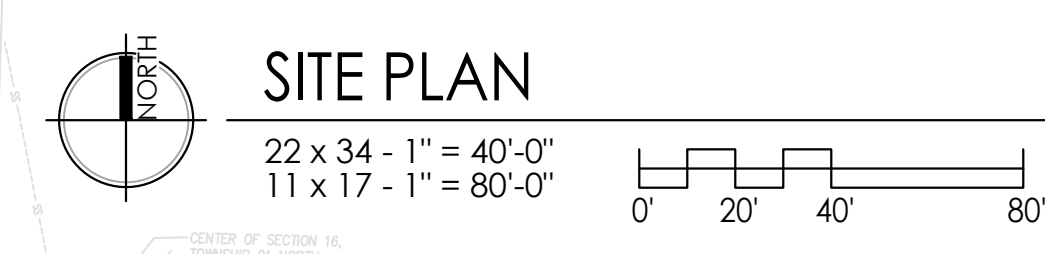
SITE PLAN

G0.02

AUSTINCINA architects p.s.
 Architect of Record:
 WP Architecture
 Bill Parretta, P: 253.691.2758
 E: parretta@comcast.net

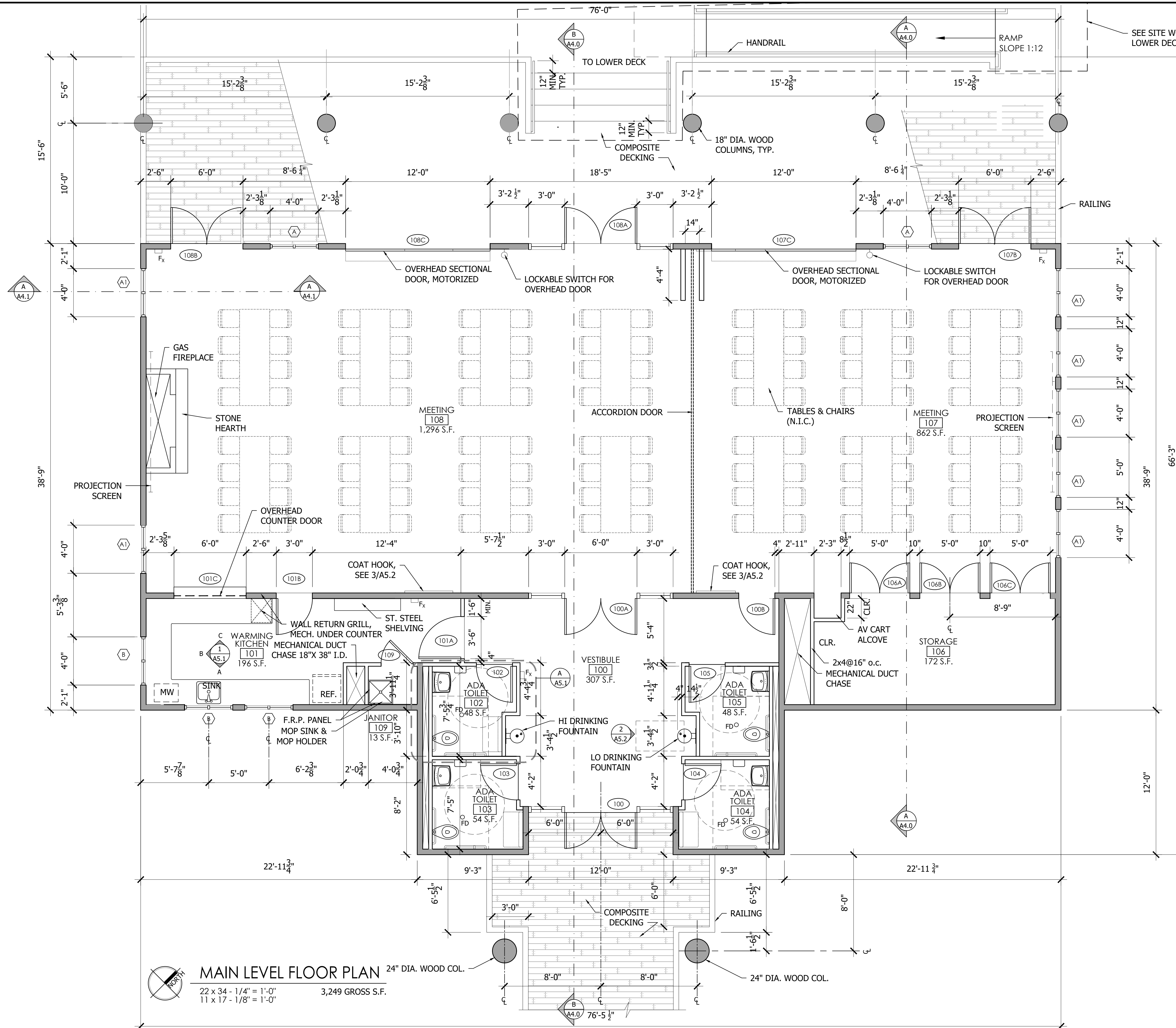


NOTE: FOR SITE WORK INFORMATION INCLUDING ADDITIONAL UTILITIES INFORMATION, SEE SITE WORK DRAWINGS (VOLUME 1)



SCALE AS NOTED

SHEET 2 OF 58
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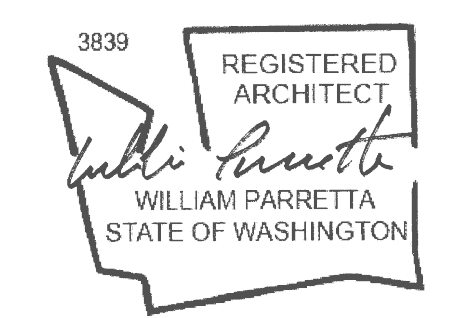


MAIN LEVEL FLOOR PLAN 24" DIA. WOOD COL.
 22 x 34 - 1/4" = 1'-0" 3,249 GROSS S.F.
 11 x 17 - 1/8" = 1'-0"

WALL TYPES
 2 x 6 @ 16" O.C.
 2 x 4 @ 16" O.C.

CAD NO.	
DATE	INT. APP.
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WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK
DAY USE BUILDING
MAIN LEVEL FLOOR PLAN

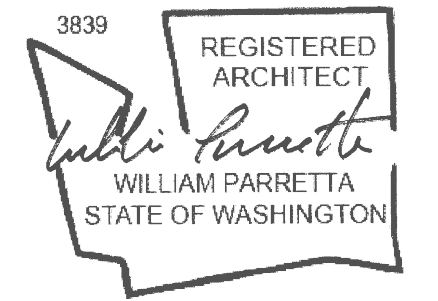
A2.0

AUSTINCINA
 architects p.s.
 Architect of Record:
 WP Architecture
 Bill Parretta, P. 253.691.2758
 E: parretta@comcast.net

SCALE
AS NOTED
 SHEET 3 OF 56
 BID SET PARKS FILE#

CAD NO.	
	DATE
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KOPACHUCK STATE PARK

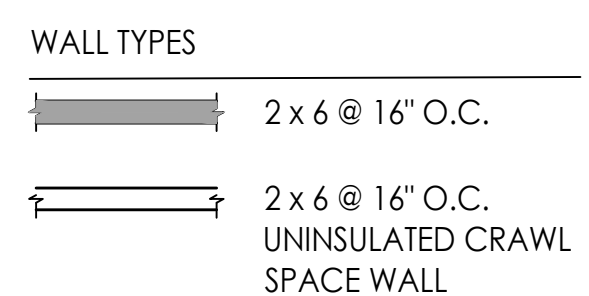
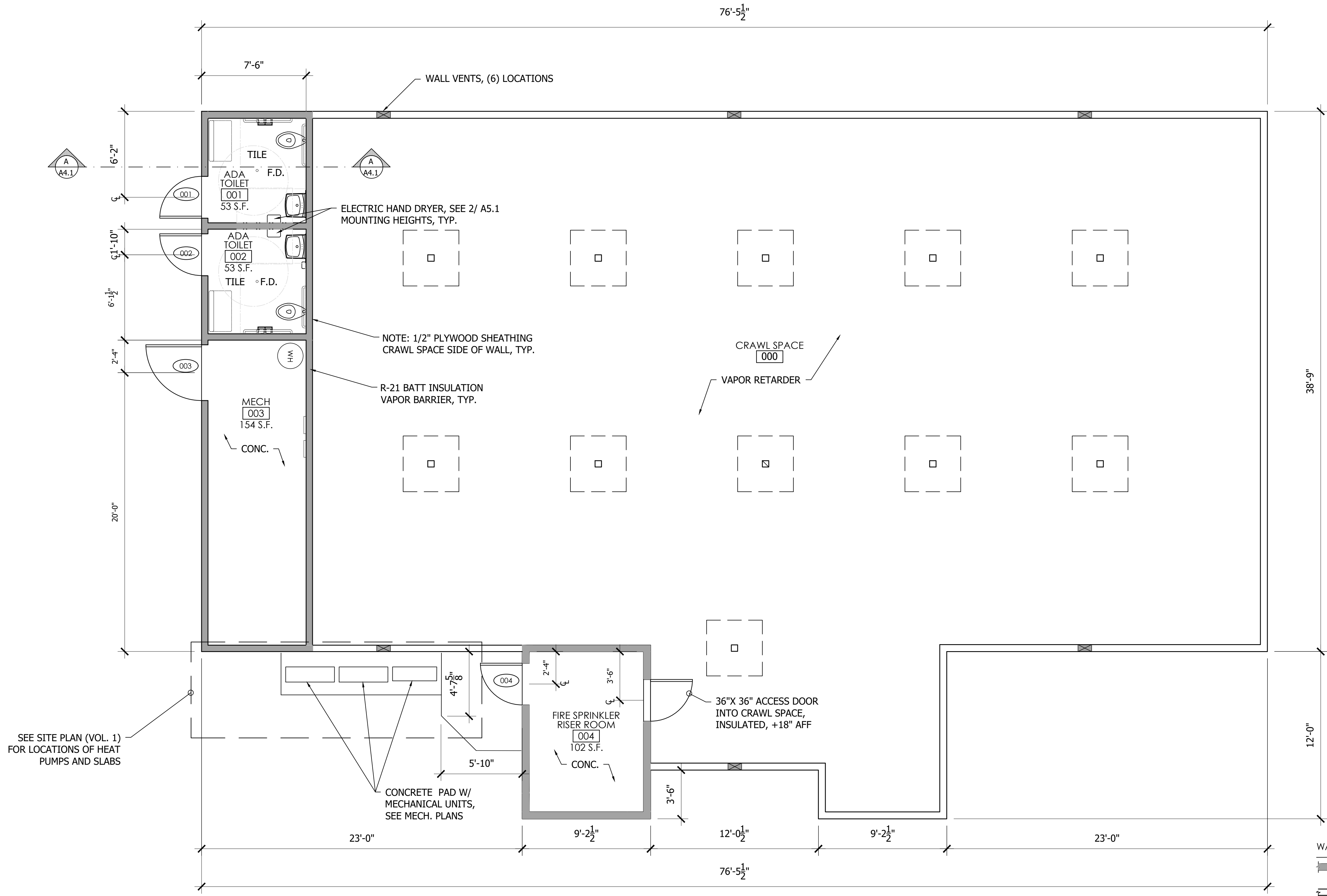
DAY USE BUILDING

LOWER LEVEL FLOOR PLAN

A2.1

SCALE AS NOTED

BID SET PARKS FILE#



VENT CALCULATIONS:

I.B.C. SECTION 1202.4.1.2: VENTILATION AREA FOR CRAWL SPACE WITH COVERED FLOORS

CRAWL SPACE AREA: 2,745 SF

2,745 S.F. / 1,500 SF = 1.83 SF WITH CLASS A VAPOR RETARDER

VENT SIZE: 11 3/4" x 15" = .4 SF FREE AREA

1.83 S.F. ÷ .4 SF = 5 VENTS REQUIRED

PROVIDED 6 VENTS.

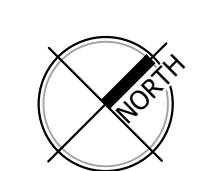
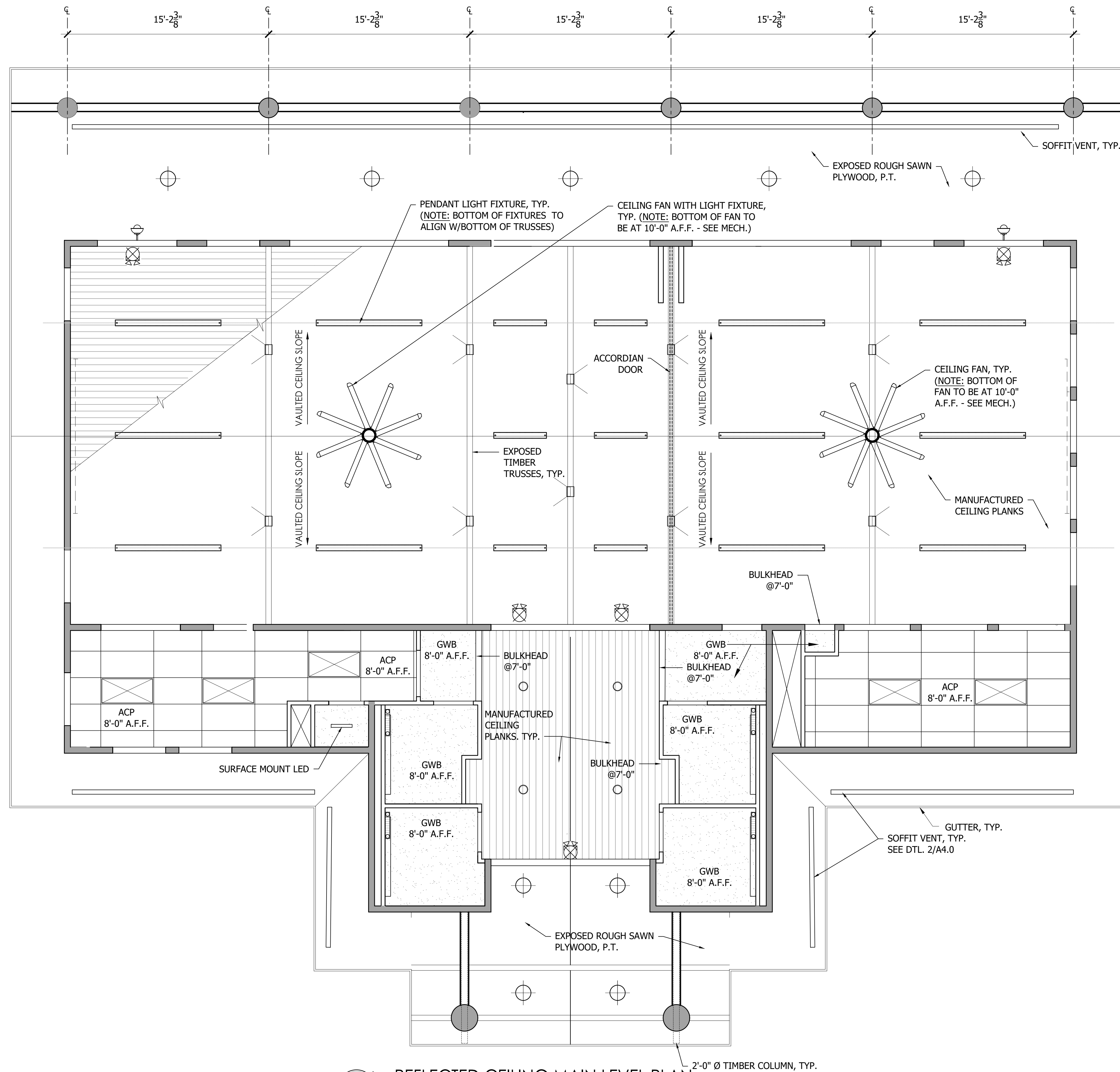
LOWER LEVEL FLOOR PLAN 217 GROSS S.F. (HEATED)

22 x 34 - 1/4" = 1'-0"

11 x 17 - 1/8" = 1'-0"

AUSTINCINA
architects p.s.

Architect of Record:
WP Architecture
Bill Parretta, P: 253.691.2758
E: parretta@comcast.net

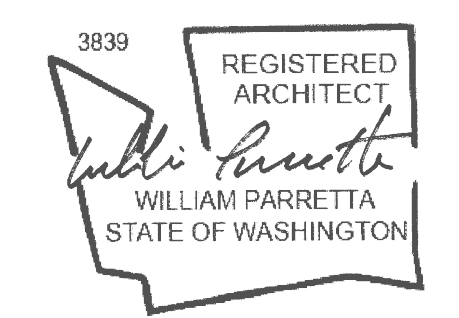


REFLECTED CEILING MAIN LEVEL PLAN
 22 x 34 - 1/4" = 1'-0"
 11 x 17 - 1/8" = 1'-0"

NOTE: SEE ELECTRICAL PLAN FOR LIGHT FIXTURES AND HVAC PLANS FOR VENTILATION.

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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE BUILDING

REFLECTED CEILING PLAN

A2.2

AUSTINCINA
 architects p.s.
 Architect of Record:
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 Bill Parretta, P: 253.691.2758
 E: parretta@comcast.net

SCALE	AS NOTED
SHEET 5 OF 56	BID SET
PARKS FILE#	

CAD NO.

	DATE
	APP.
	INT.
	REVISIONS
	NO.

ACTION	BY	DATE
DESIGNED	BP	NOV. 2023
DRAWN	NW	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDOTS)		



PROJECT ENGINEER

WASHINGTON
STATE
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AND
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COMMISSION



KOPACHUCK STATE PARK

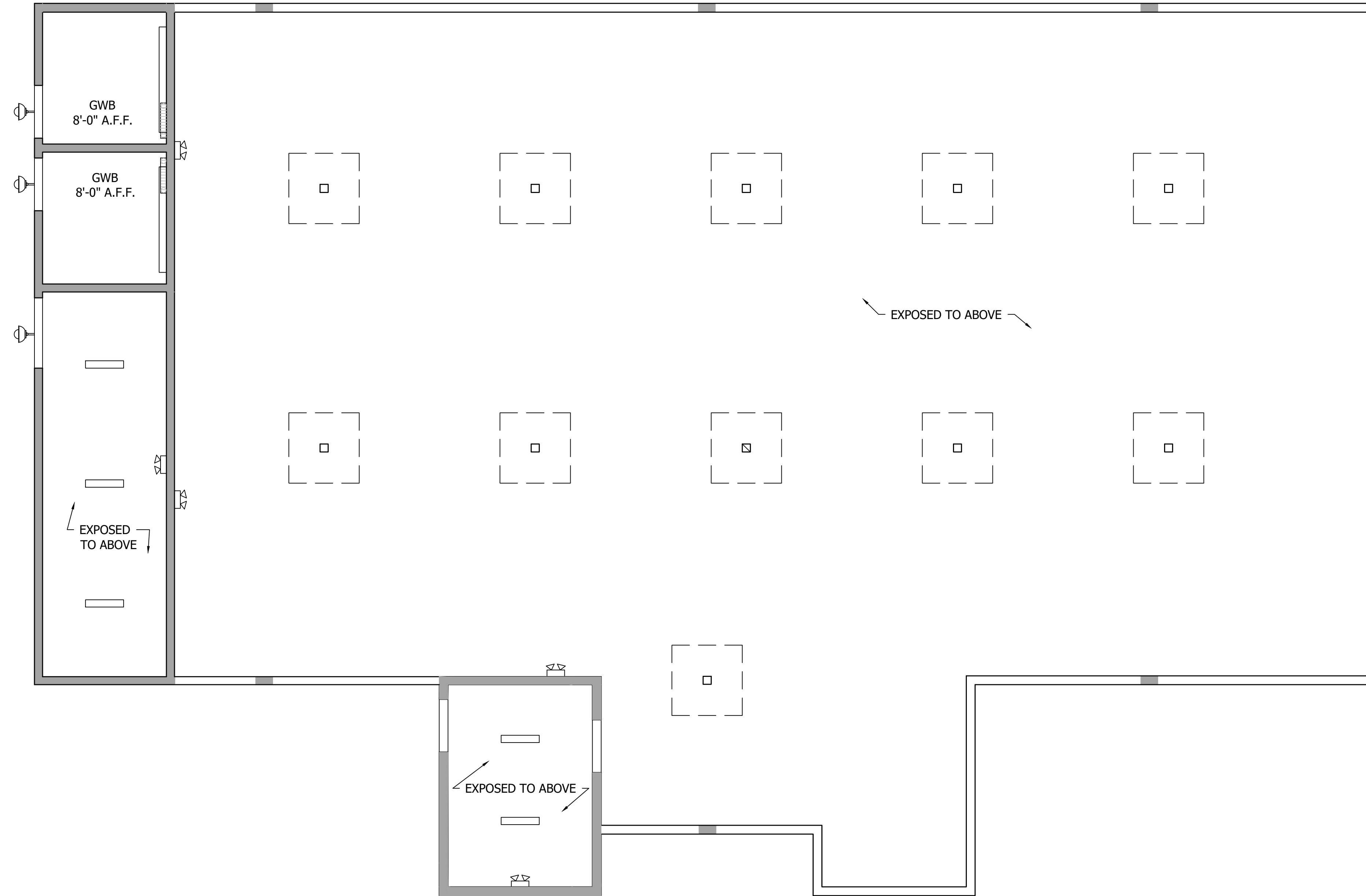
DAY USE BUILDING

REFLECTED CEILING PLAN LOWER LEVEL

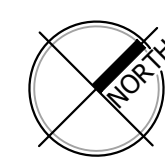
A2.3

SCALE

AS NOTED



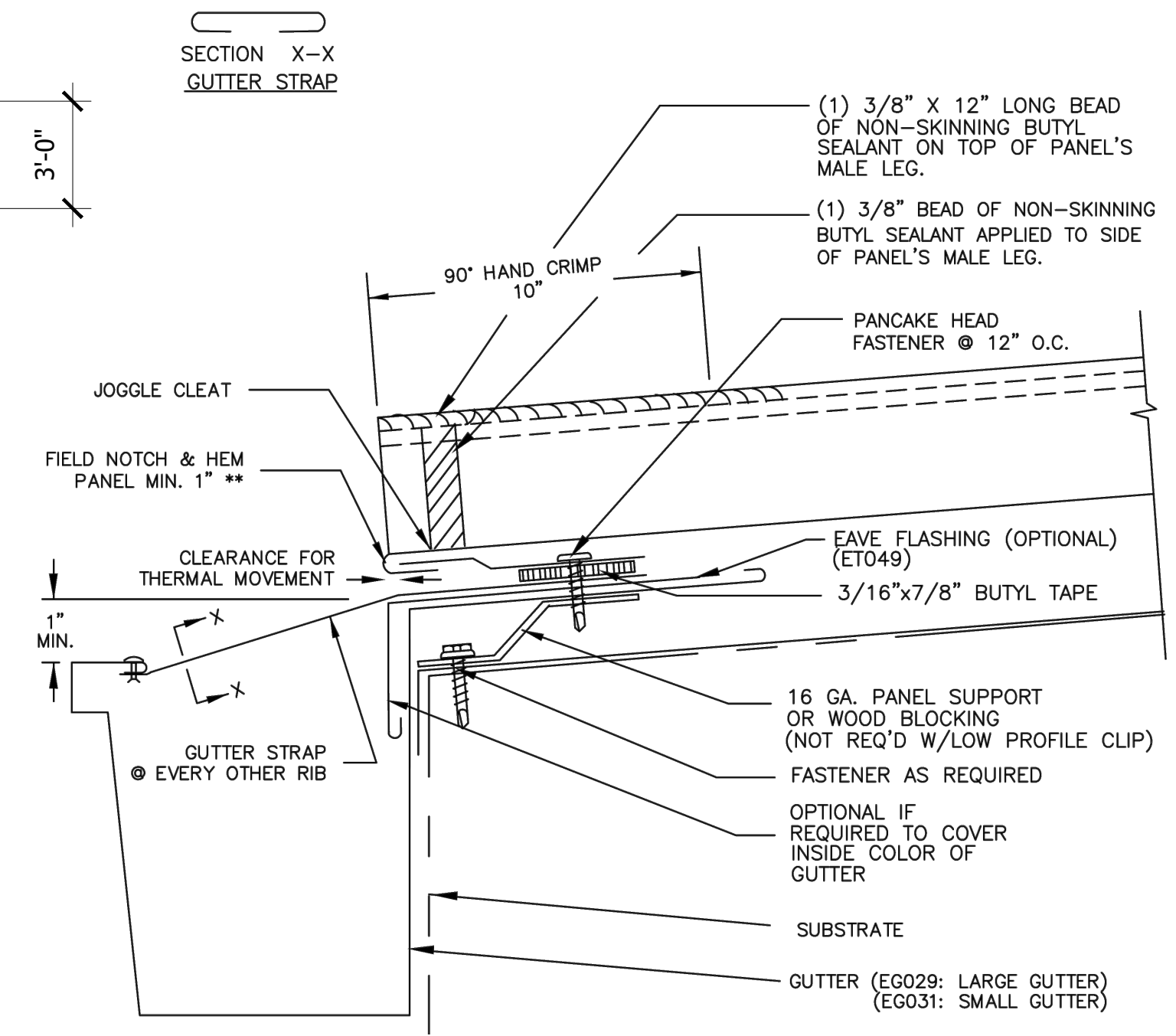
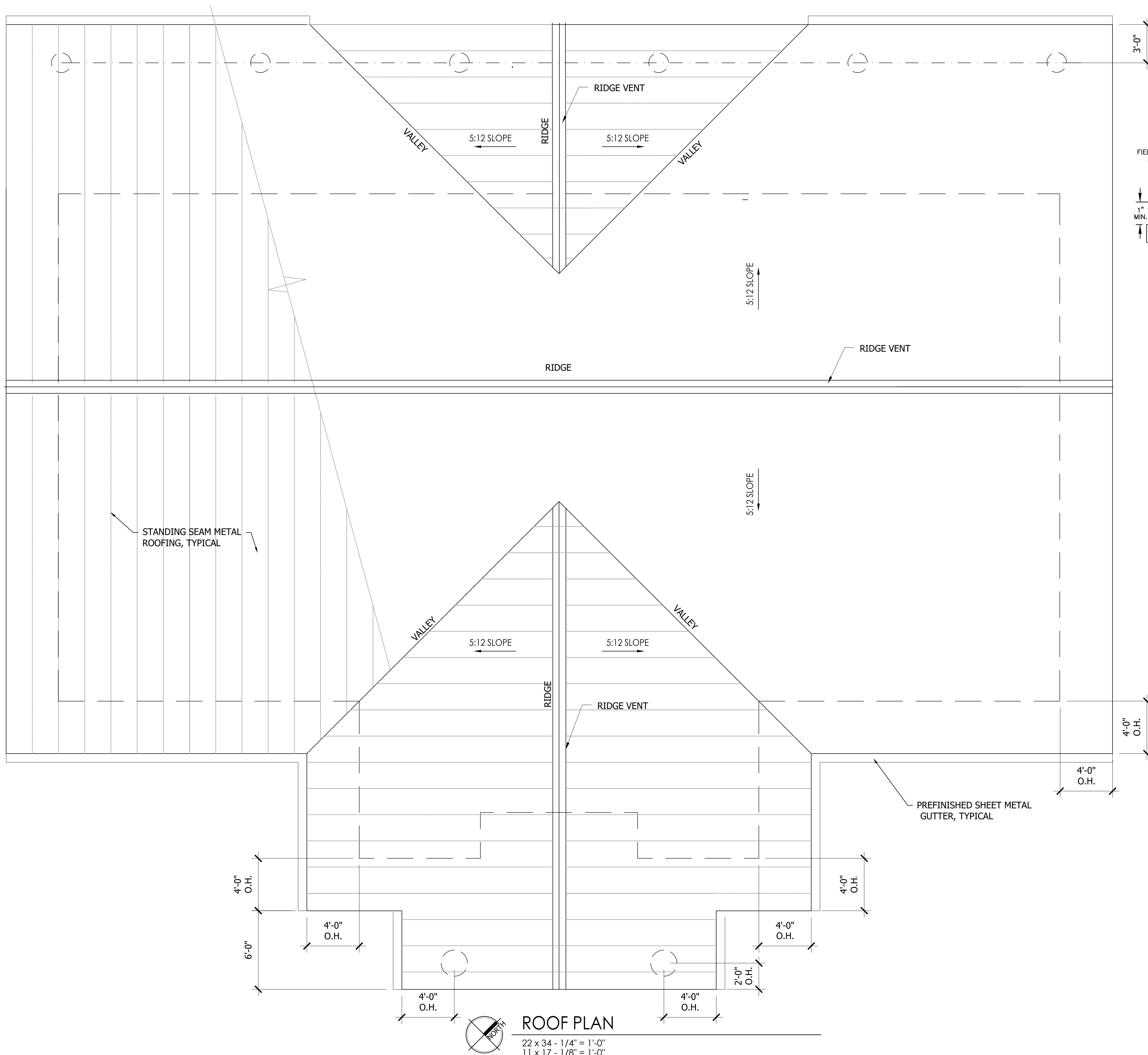
NOTE: SEE ELECTRICAL PLAN FOR LIGHT FIXTURES AND HVAC PLAN FOR VENTILATION



REFLECTED CEILING LOWER LEVEL PLAN

22 x 34 - 1/4" = 1'-0"
11 x 17 - 1/8" = 1'-0"

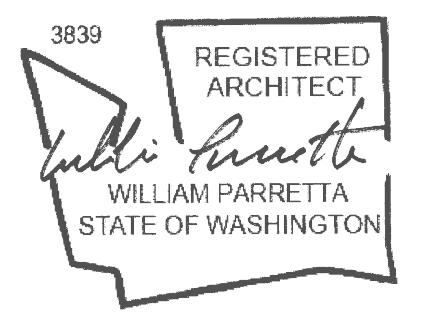
AUSTINCINA
architects p.s.
Architect of Record:
WP Architecture
Bill Parretta, P: 253.691.2758
E: parretta@comcast.net



1 TYP. MTL. ROOF GUTTER DTL.
NOT TO SCALE

CAD NO.		DATE
		APP.
		INT.
		REVISIONS
		NO.

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CHECKED (HQTS.)		



PROJECT ENGINEER

WASHINGTON
STATE
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AND
RECREATION
COMMISSION



KOPACHUCK
STATE PARK

DAY USE
BUILDING

ROOF PLAN

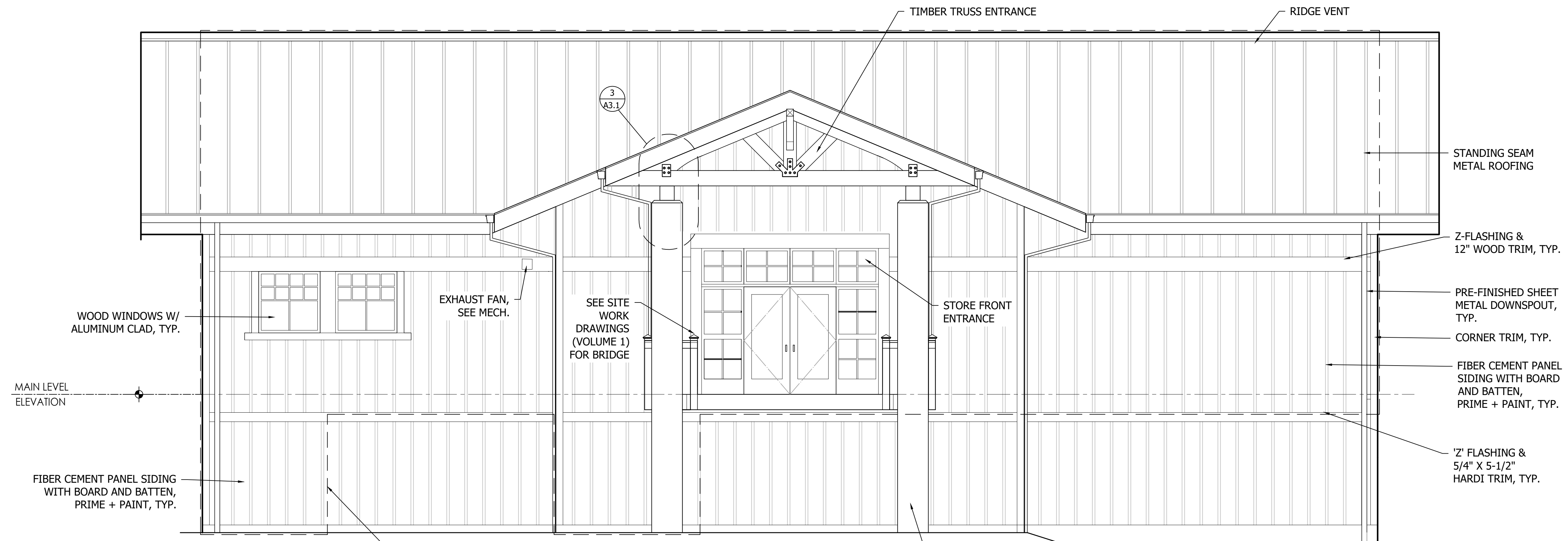
A2.4

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WP Architecture
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E: parretta@comcast.net

SHEET 7 OF 56

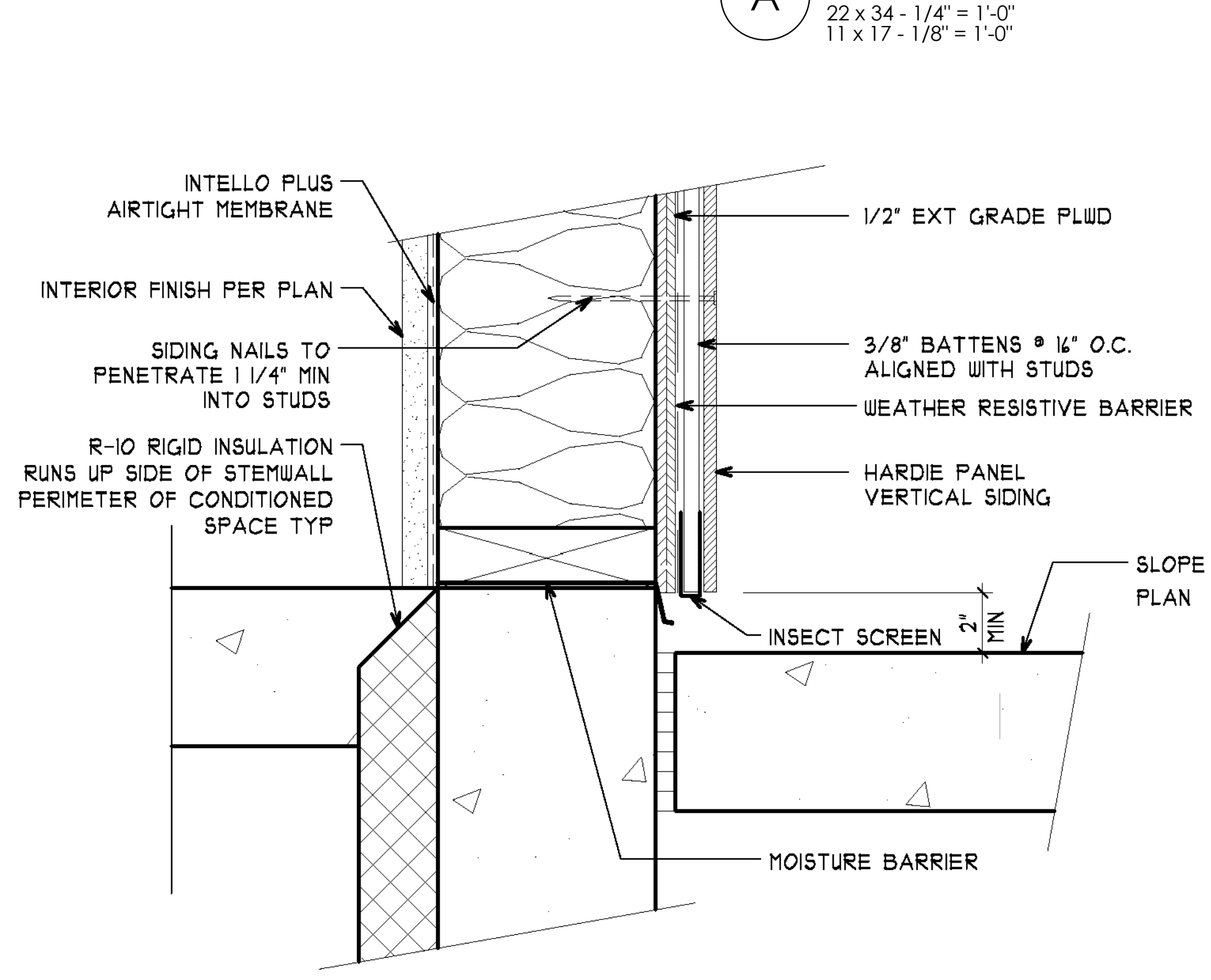
SCALE AS NOTED

BID SET PARKS FILE#

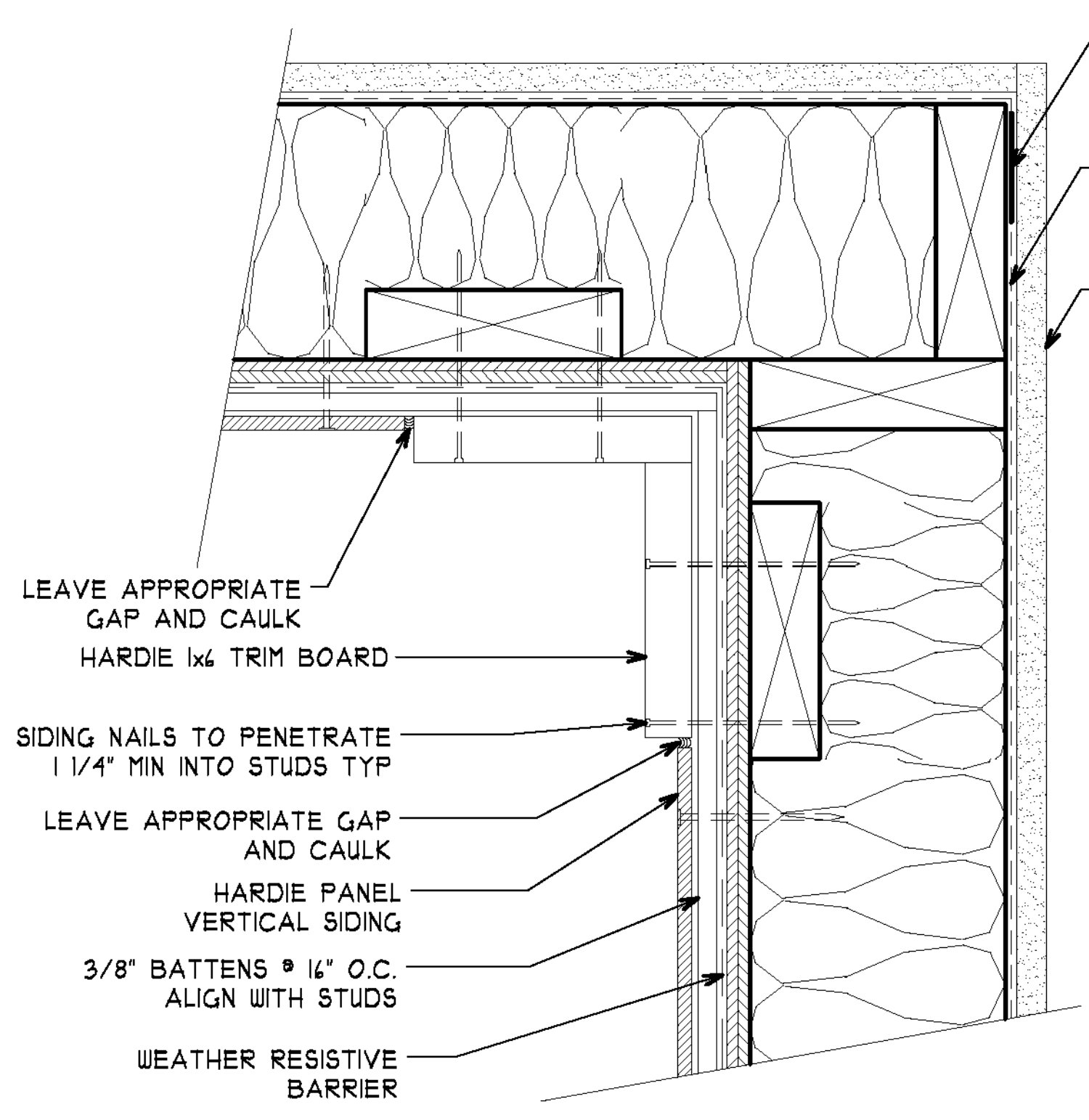


NOTE: DASHED LINE REPRESENTS THE BUILDING'S PRESSURE BOUNDARY, SEE SHEET A3.1 FOR BUILDING AIR LEAKAGE TEST NOTES, MAXIMUM BUILDING VERTICAL FENESTRATION AREA CALCULATIONS, AND AIR BARRIER CONSTRUCTION NOTES.

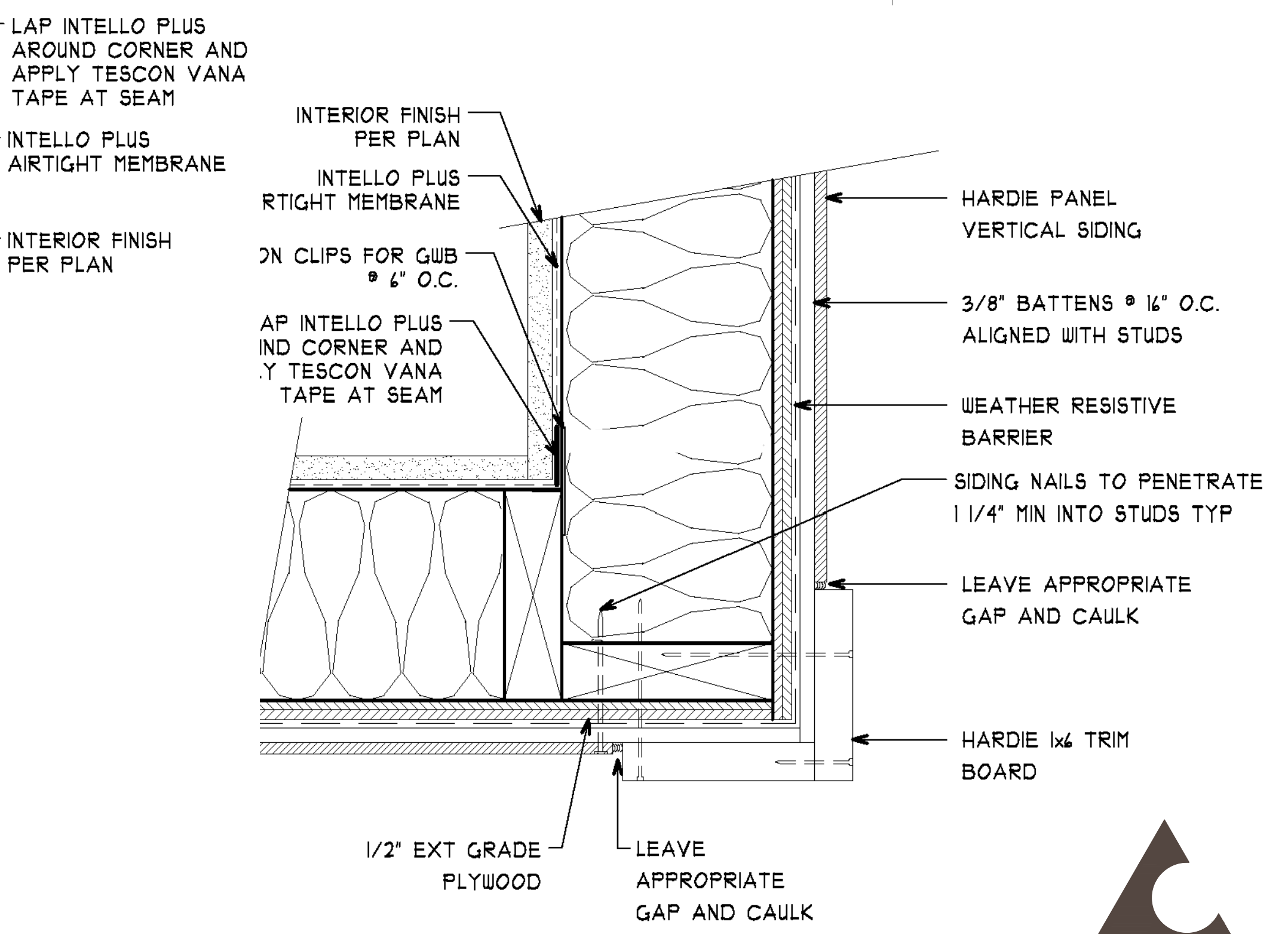
A EAST ELEVATION
 22 x 34 - 1/4" = 1'-0"
 11 x 17 - 1/8" = 1'-0"



1 HARDI-PANEL TYP. BOT. OF WALL CLEARANCE
 22x34 4" = 1'-0"
 11x17 2" = 1'-0"



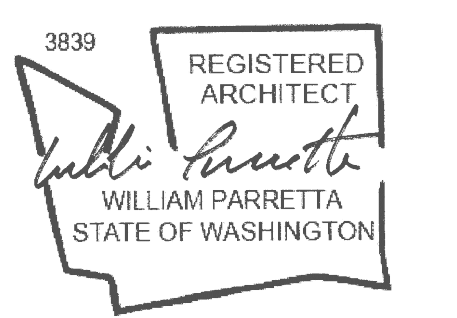
2 HARDI-PANEL TYP. INSIDE CORNER
 22x34 4" = 1'-0"
 11x17 2" = 1'-0"



3 HARDI-PANEL TYP. OUTSIDE CORNER
 22x34 4" = 1'-0"
 11x17 2" = 1'-0"

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	INT.	
	REVISONS	
		NO.

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CHECKED (HDOTS)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

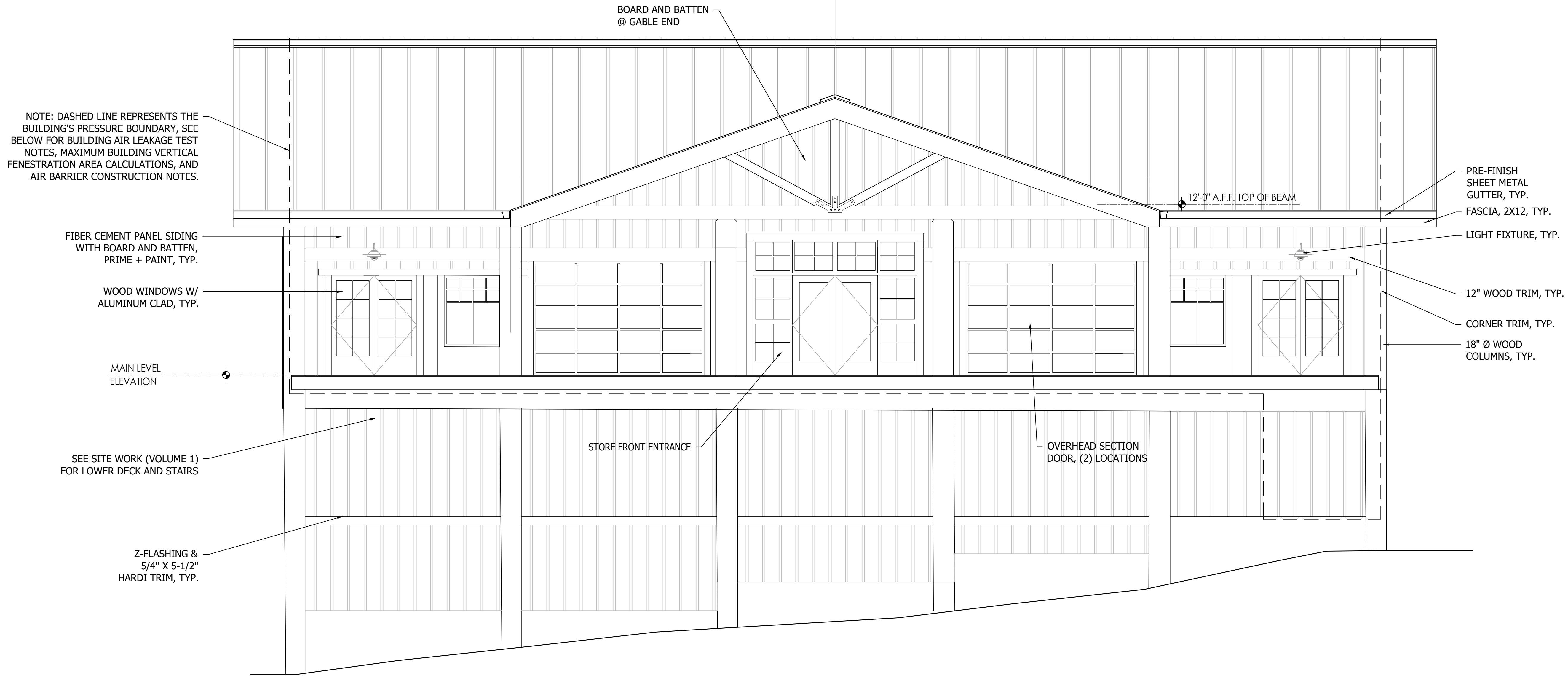
DAY USE BUILDING

EXTERIOR ELEVATIONS AND SIDING DETAILS

A3.0

SCALE AS NOTED

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 Architect of Record:
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 E: parretta@comcast.net



A WEST ELEVATION
 22 x 34 - 1/4" = 1'-0"
 11 x 17 - 1/8" = 1'-0"

BUILDING AIR LEAKAGE TEST NOTES:

THE COMPLETED BUILDING SHALL BE TESTED AND THE AIR LEAKAGE RATE OF THE BUILDING ENVELOPE SHALL NOT EXCEED 0.25 cfm/ft² AT A PRESSURE DIFFERENTIAL OF 0.3 INCHES WATER GAUGE (2.0 L/s x m² AT 75 Pa) AT THE UPPER 95 PERCENT CONFIDENCE INTERVAL IN ACCORDANCE WITH ASTM E 779 OR AN EQUIVALENT METHOD APPROVED BY THE CODE OFFICIAL. A REPORT THAT INCLUDES THE TEST SURFACE AREA, FLOOR AREA, AIR BY VOLUME, STORIES ABOVE GRADE, AND LEAKAGE RATES SHALL BE SUBMITTED TO THE BUILDING OWNER AND THE CODE OFFICIAL. IF THE TESTED RATE EXCEEDS THAT DEFINED HERE BY UP TO 0.15 cfm/ft², A VISUAL INSPECTION OF THE AIR BARRIER SHALL BE CONDUCTED AND ANY LEAKS NOTED SHALL BE SEALED TO THE EXTENT PRACTICABLE. AN ADDITIONAL REPORT IDENTIFYING THE CORRECTIVE ACTIONS TAKEN TO SEAL AIR LEAKS SHALL BE SUBMITTED TO THE BUILDING OWNER AND THE CODE OFFICIAL AND ANY FURTHER REQUIREMENT TO MEET THE LEAKAGE AIR RATE WILL BE WAIVED. IF THE TESTED RATE EXCEEDS 0.40 cfm/ft², CORRECTIVE ACTIONS MUST BE MADE AND THE TEST COMPLETED AGAIN. A TEST ABOVE 0.40 cfm/ft² WILL NOT BE ACCEPTED.

MAXIMUM BUILDING VERTICAL FENESTRATION AREA CALCULATIONS:

THE TOTAL MAXIMUM BUILDING VERTICAL FENESTRATION AREA (NOT INCLUDING OPAQUE DOORS AND OPAQUE SPANDREL PANELS) SHALL NOT EXCEED 30% OF THE TOTAL BUILDING GROSS ABOVE-GRADE WALL AREA.

NET WALL AREA		NEW VERTICAL FENESTRATION & GLAZED DOOR AREA	
EAST	1,538 SF	EAST	149 SF
WEST	1,305 SF	WEST	425 SF
SOUTH	1,313 SF	SOUTH	60 SF
NORTH	1,240 SF	NORTH	100 SF
	5,396 SF		734 SF

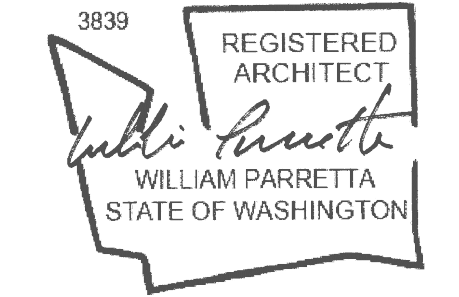
MAXIMUM AREA ALLOWABLE: 5,396 SF x 30% = 1,618 SF ALLOWABLE (734 SF O.K.)

AIR BARRIER CONSTRUCTION NOTES:

1. THE AIR BARRIER SHALL BE CONTINUOUS FOR ALL ASSEMBLIES THAT ARE THE THERMAL ENVELOPE OF THE BUILDING AND ACROSS THE JOINTS AND ASSEMBLIES.
2. AIR BARRIER JOINTS AND SEAMS SHALL BE SEALED, INCLUDING SEALING TRANSITIONS IN PLACES AND CHANGES IN MATERIALS. THE JOINTS AND SEALS SHALL BE SECURELY INSTALLED IN OR ON THE JOINT FOR ITS ENTIRE LENGTH SO AS NOT TO DISLODGE, LOOSEN, OR OTHERWISE IMPAIR ITS ABILITY TO RESIST POSITIVE AND NEGATIVE PRESSURE FROM WIND, STACK EFFECT, AND MECHANICAL VENTILATION.
3. PENETRATIONS OF THE AIR BARRIER SHALL BE CAULKED, GASKETED, OR OTHERWISE SEALED IN A MANNER COMPATIBLE WITH THE CONSTRUCTION MATERIALS AND LOCATION. SEALING SHALL ALLOW FOR EXPANSION, CONTRACTION, AND MECHANICAL VIBRATION. JOINTS AND SEAMS ASSOCIATED WITH PENETRATIONS SHALL BE SEALED IN THE SAME MANNER OR TAPED. SEALING MATERIALS SHALL BE SECURELY INSTALLED AROUND THE PENETRATIONS SO AS TO NOT DISLODGE, LOOSEN, OR OTHERWISE IMPAIR THE PENETRATIONS ABILITY TO RESIST POSITIVE AND NEGATIVE PRESSURE FROM WIND, STACK EFFECT, AND MECHANICAL VENTILATION. SEALING OF CONCEALED FIRE SPRINKLERS, WHERE REQUIRED, SHALL BE IN A MANNER THAT IS RECOMMENDED BY THE MANUFACTURER. CAULKING OR OTHER ADHESIVE SEALANTS SHALL NOT BE USED TO FILL VOIDS BETWEEN FIRE SPRINKLER COVER PLATES AND WALLS OR CEILINGS.

1. TEST SHALL BE ACCOMPLISHED USING EITHER (1) BOTH PRESSURIZATION AND DEPRESSURIZATION OR (2) PRESSURIZATION ALONE, BUT NOT DEPRESSURIZATION ALONE. THE TEST RESULTS SHALL BE PLOTTED AGAINST THE CORRECT 'P' FOR PRESSURIZATION IN ACCORDANCE WITH SECTION 9.4 OF ASTM E 779.
2. THE TEST PRESSURE RANGE SHALL BE FROM 25 Pa TO 80 Pa PER SECTION 8.10 OF ASTM E 779, BUT THE UPPER LIMIT SHALL NOT BE LESS THAN 50 Pa, AND THE DIFFERENCE BETWEEN THE UPPER AND LOWER LIMIT SHALL NOT BE LESS THAN 25 Pa.
3. IF THE PRESSURE EXPONENT n IS LESS THAN 0.45 OR GREATER THAN 0.85 PER SECTION 9.6.4 OF ASTM E 779, THE TEST SHALL BE RERUN WITH ADDITIONAL READINGS OVER A LONGER TIME INTERVAL.

ACTION	BY	DATE
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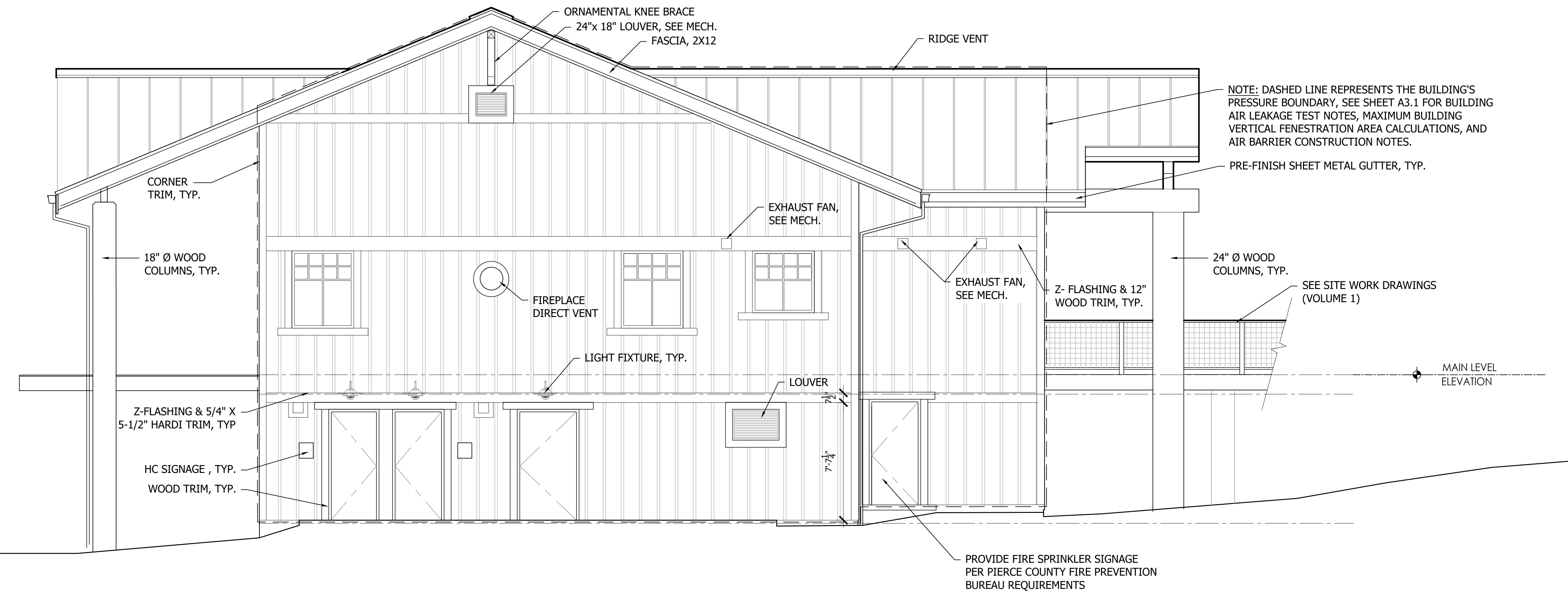
DAY USE BUILDING

EXTERIOR ELEVATIONS

A3.1

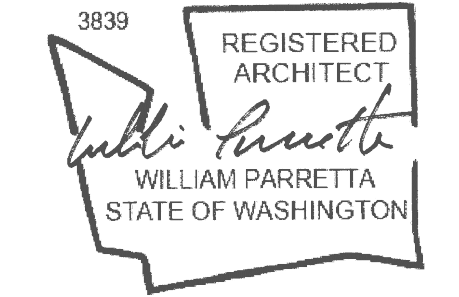


SCALE **AS NOTED**



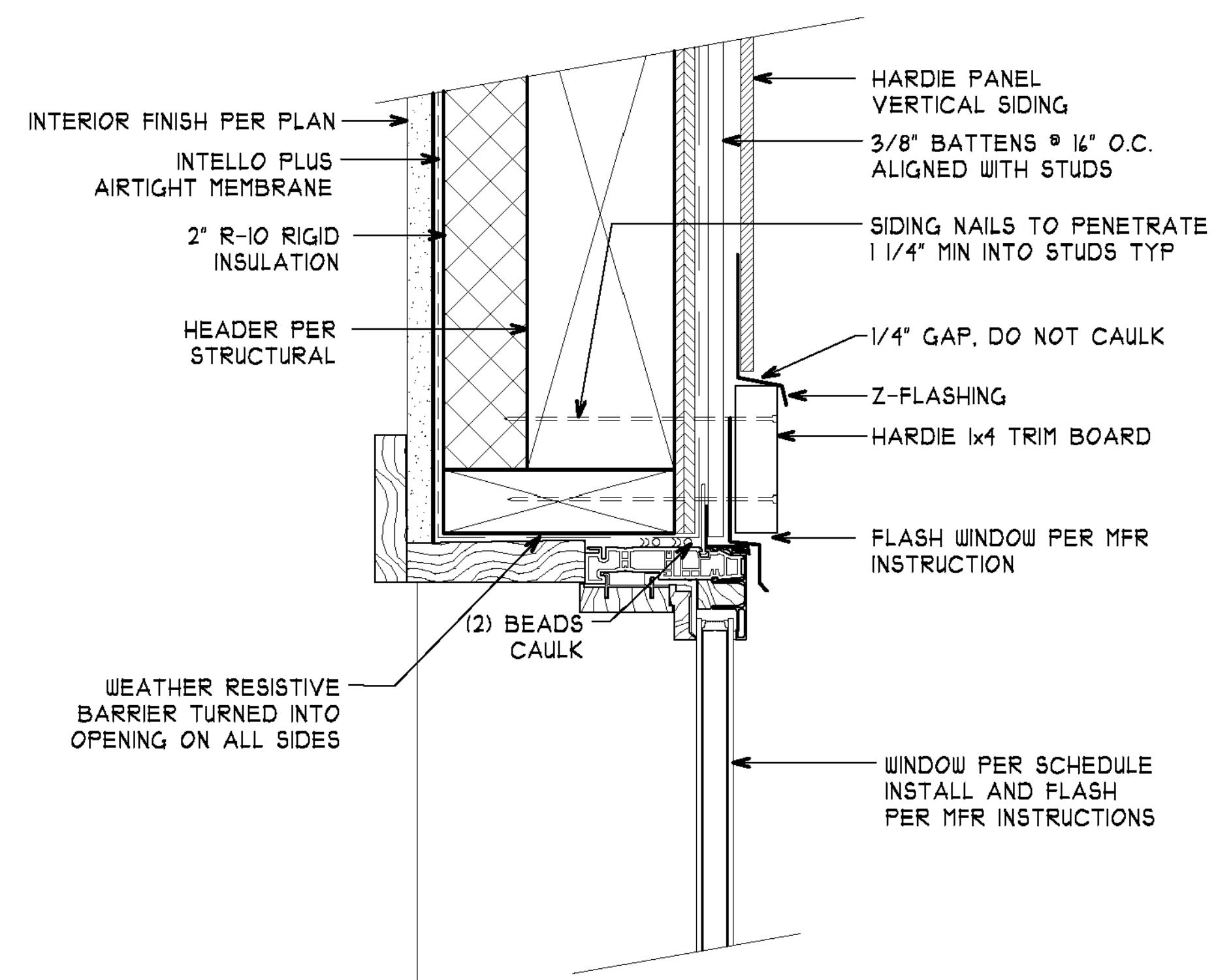
CAD NO.		DATE
	INT.	APP.
	REVISIONS	
		NO.

ACTION	BY	DATE
DESIGNED	BP	NOV. 2023
DRAWN	NW	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDOTS)		

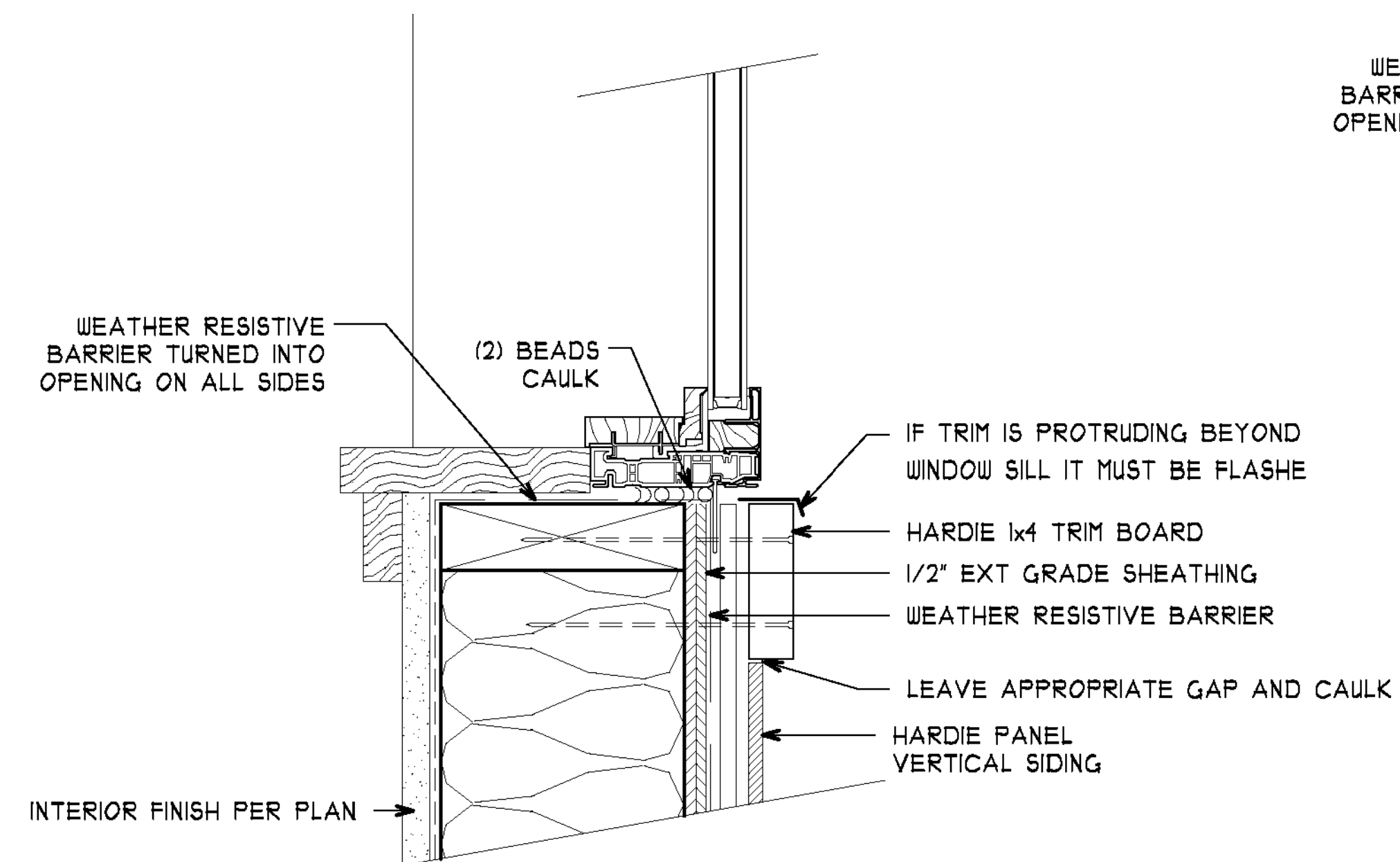


PROJECT ENGINEER

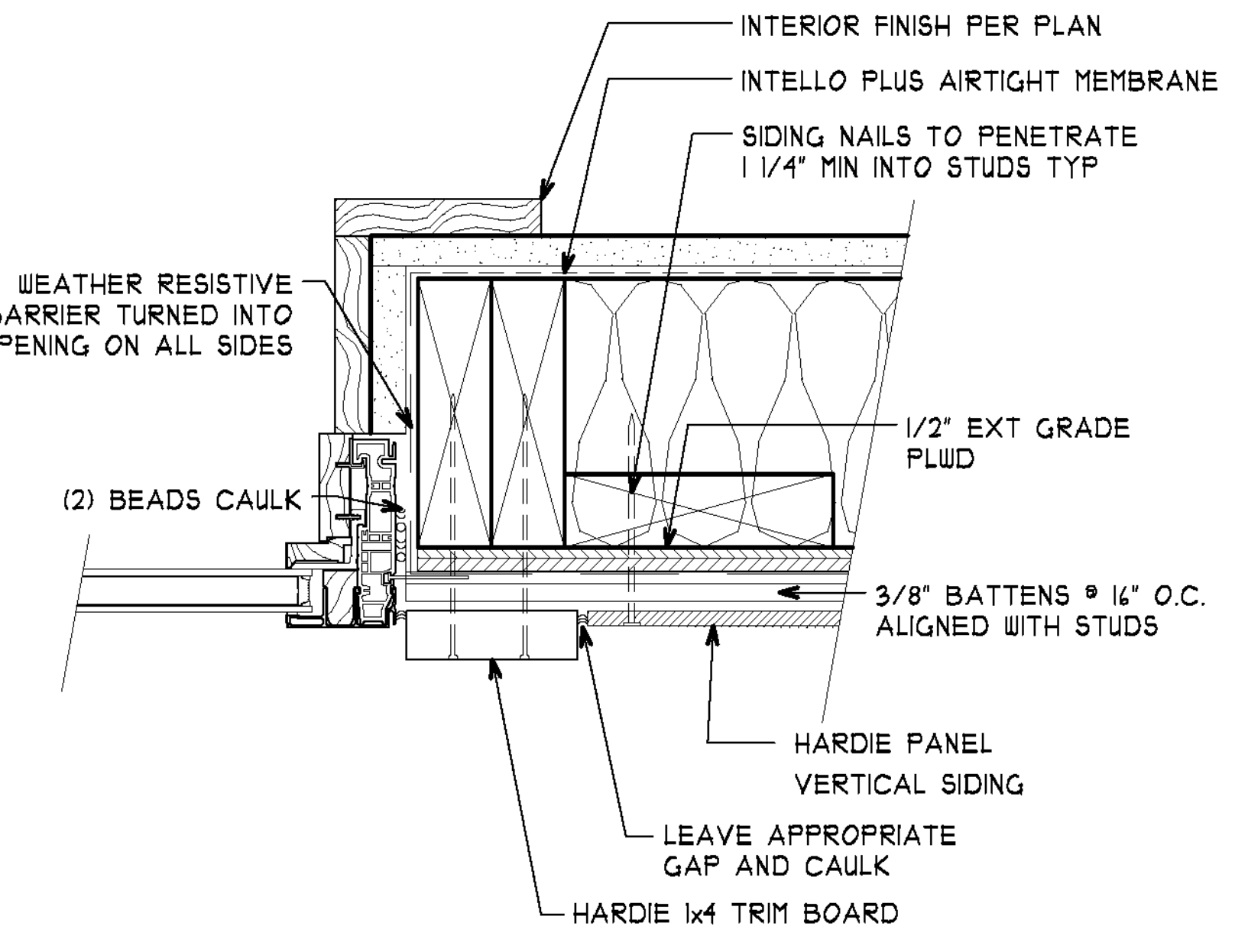
A SOUTH ELEVATION
 22 x 34 - 1/4" = 1'-0"
 11 x 17 - 1/8" = 1'-0"



1 HARDI-WINDOW HEAD TYP.
 22x34 4" = 1'-0"
 11x17 2" = 1'-0"



2 HARDI-WINDOW SILL TYP.
 22x34 4" = 1'-0"
 11x17 2" = 1'-0"



3 HARDI-WINDOW JAMB TYP.
 22x34 4" = 1'-0"
 11x17 2" = 1'-0"

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE BUILDING

EXTERIOR ELEVATIONS AND SIDING DETAILS

AUSTINCINA
 architects p.s.
 Architect of Record:
 WP Architecture
 Bill Parretta, P: 253.691.2758
 E: parretta@comcast.net

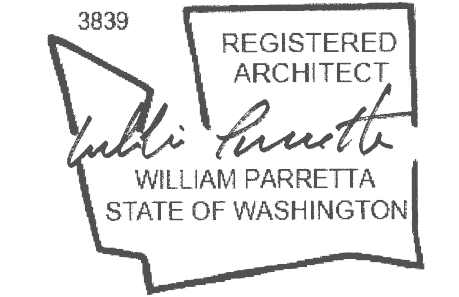
A3.2

SCALE AS NOTED

SHEET 10 OF 56

BID SET PARKS FILE#

ACTION	BY	DATE
DESIGNED	BP	NOV. 2023
DRAWN	NW	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDOTS)		



PROJECT ENGINEER



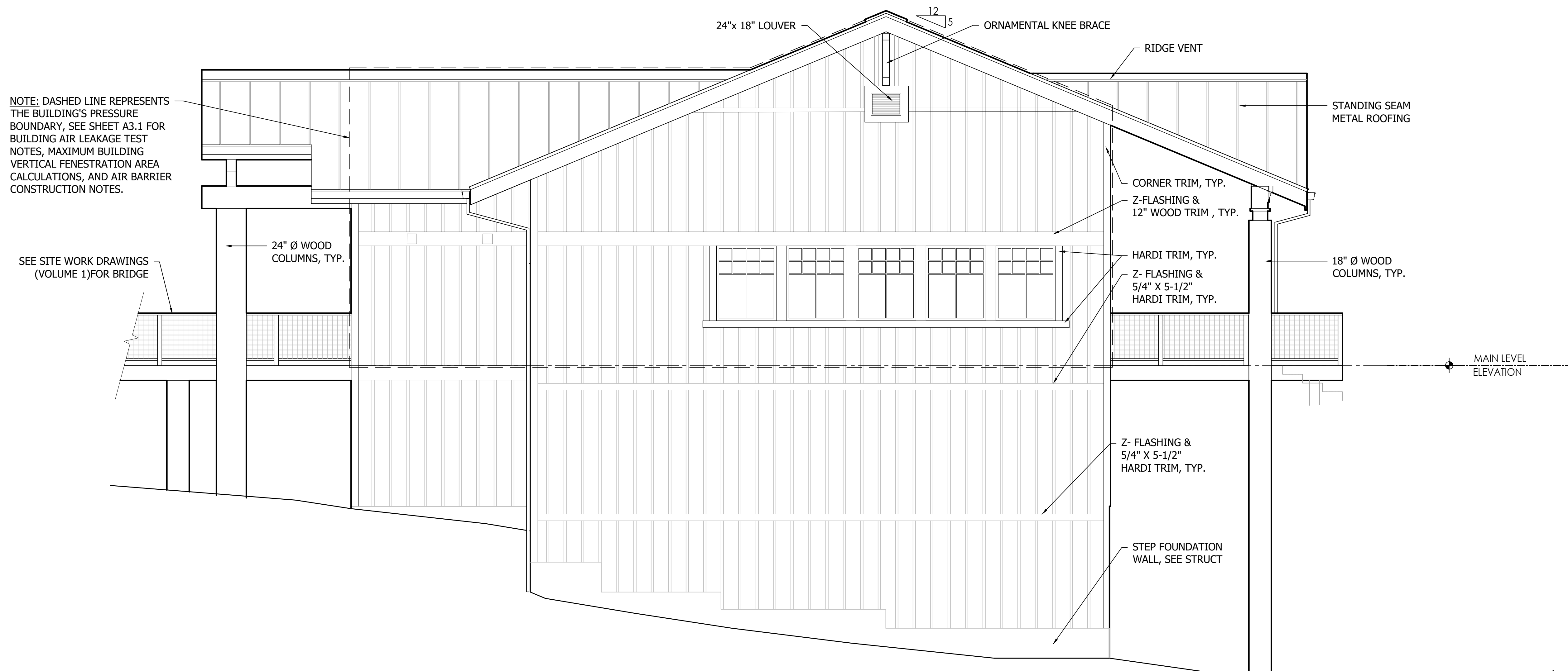
KOPACHUCK
STATE PARK

DAY USE
BUILDING

EXTERIOR
ELEVATIONS

A3.3

SCALE AS NOTED



NOTE: DASHED LINE REPRESENTS THE BUILDING'S PRESSURE BOUNDARY, SEE SHEET A3.1 FOR BUILDING AIR LEAKAGE TEST NOTES, MAXIMUM BUILDING VERTICAL FENESTRATION AREA CALCULATIONS, AND AIR BARRIER CONSTRUCTION NOTES.

SEE SITE WORK DRAWINGS (VOLUME 1) FOR BRIDGE

24" Ø WOOD COLUMNS, TYP.

24"x 18" LOUVER

12
5

ORNAMENTAL KNEE BRACE

RIDGE VENT

STANDING SEAM METAL ROOFING

CORNER TRIM, TYP.
Z-FLASHING &
12" WOOD TRIM, TYP.

HARDI TRIM, TYP.
Z-FLASHING &
5/4" X 5-1/2"
HARDI TRIM, TYP.

18" Ø WOOD COLUMNS, TYP.

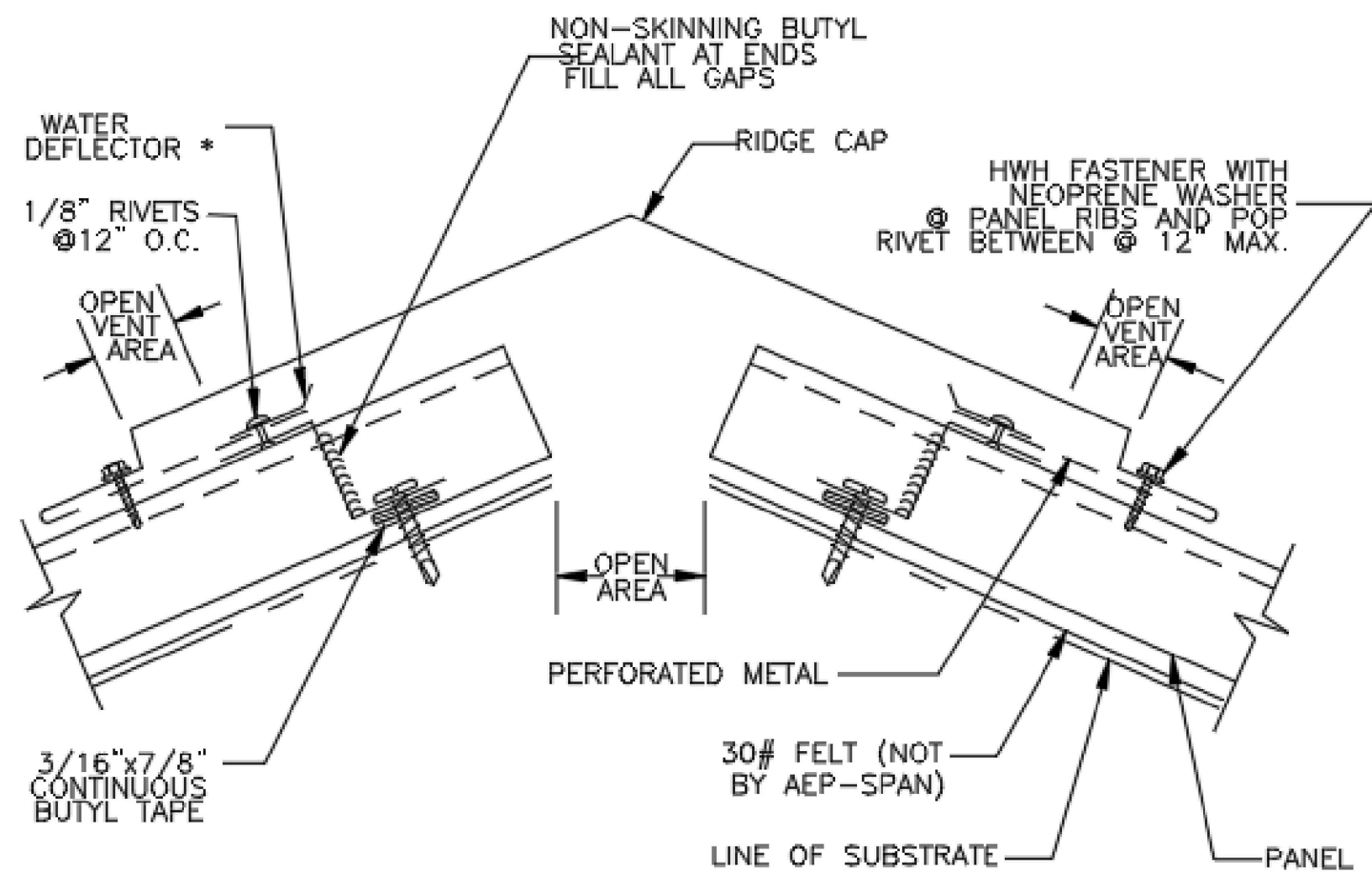
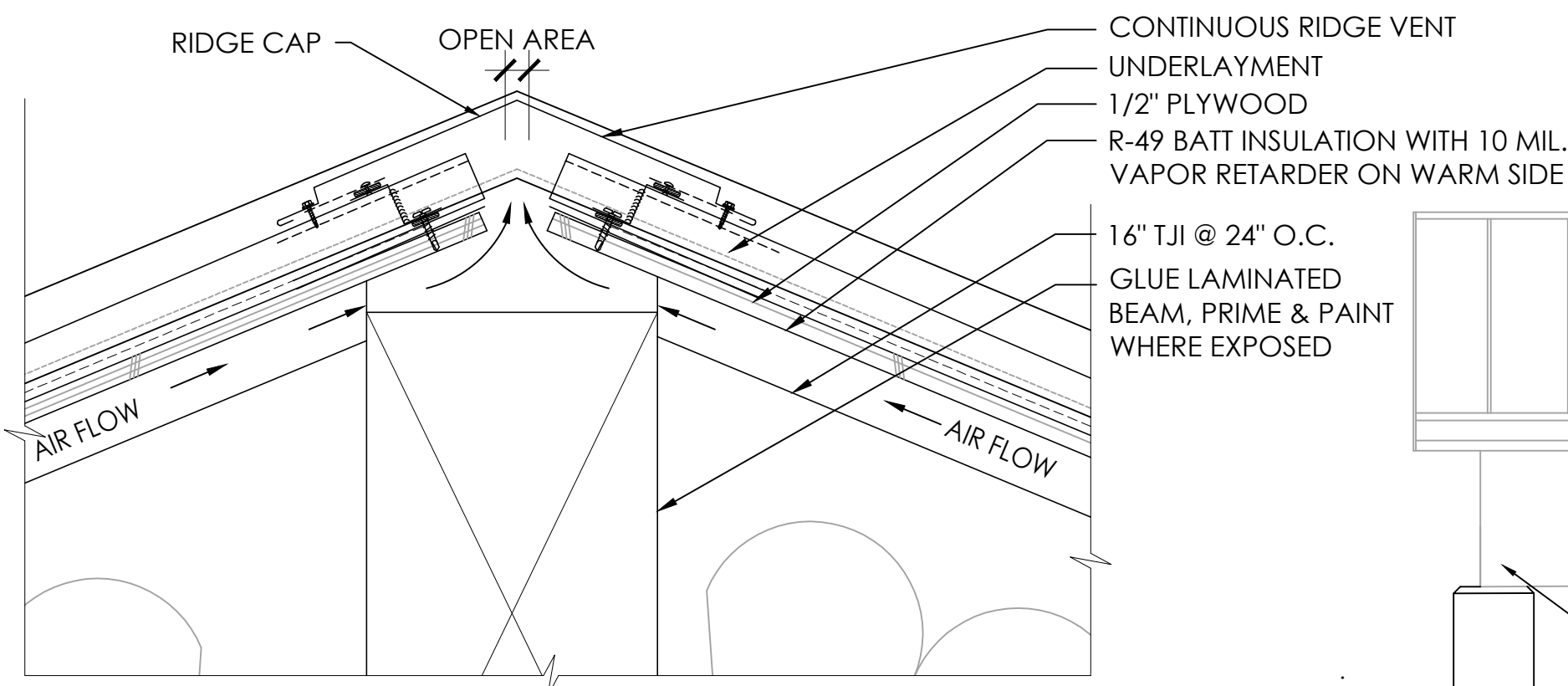
MAIN LEVEL ELEVATION

Z-FLASHING &
5/4" X 5-1/2"
HARDI TRIM, TYP.

STEP FOUNDATION WALL, SEE STRUCT

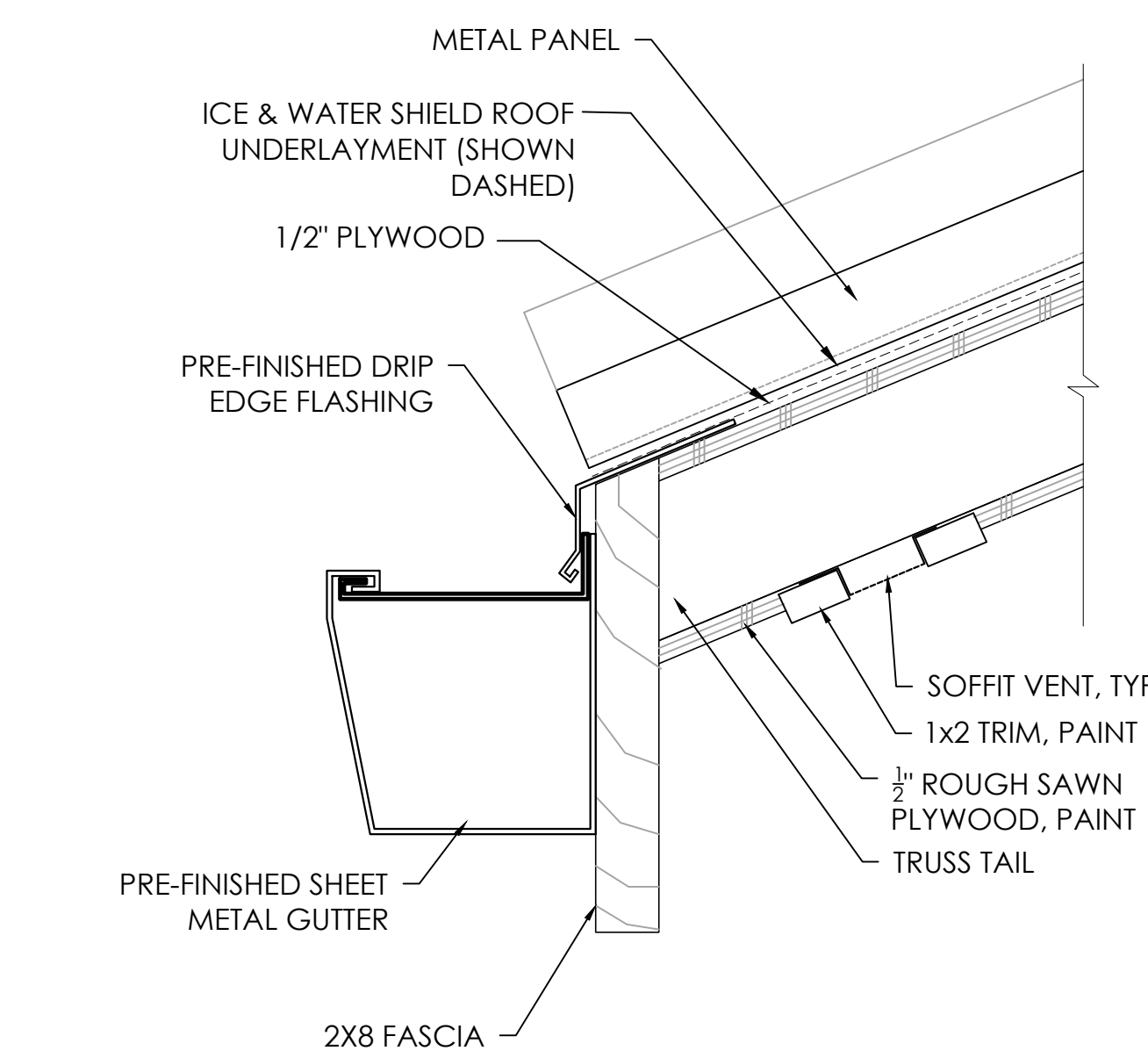
A NORTH ELEVATION
22 x 34 - 1/4" = 1'-0"
11 x 17 - 1/8" = 1'-0"

AUSTINCINA
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E: parretta@comcast.net

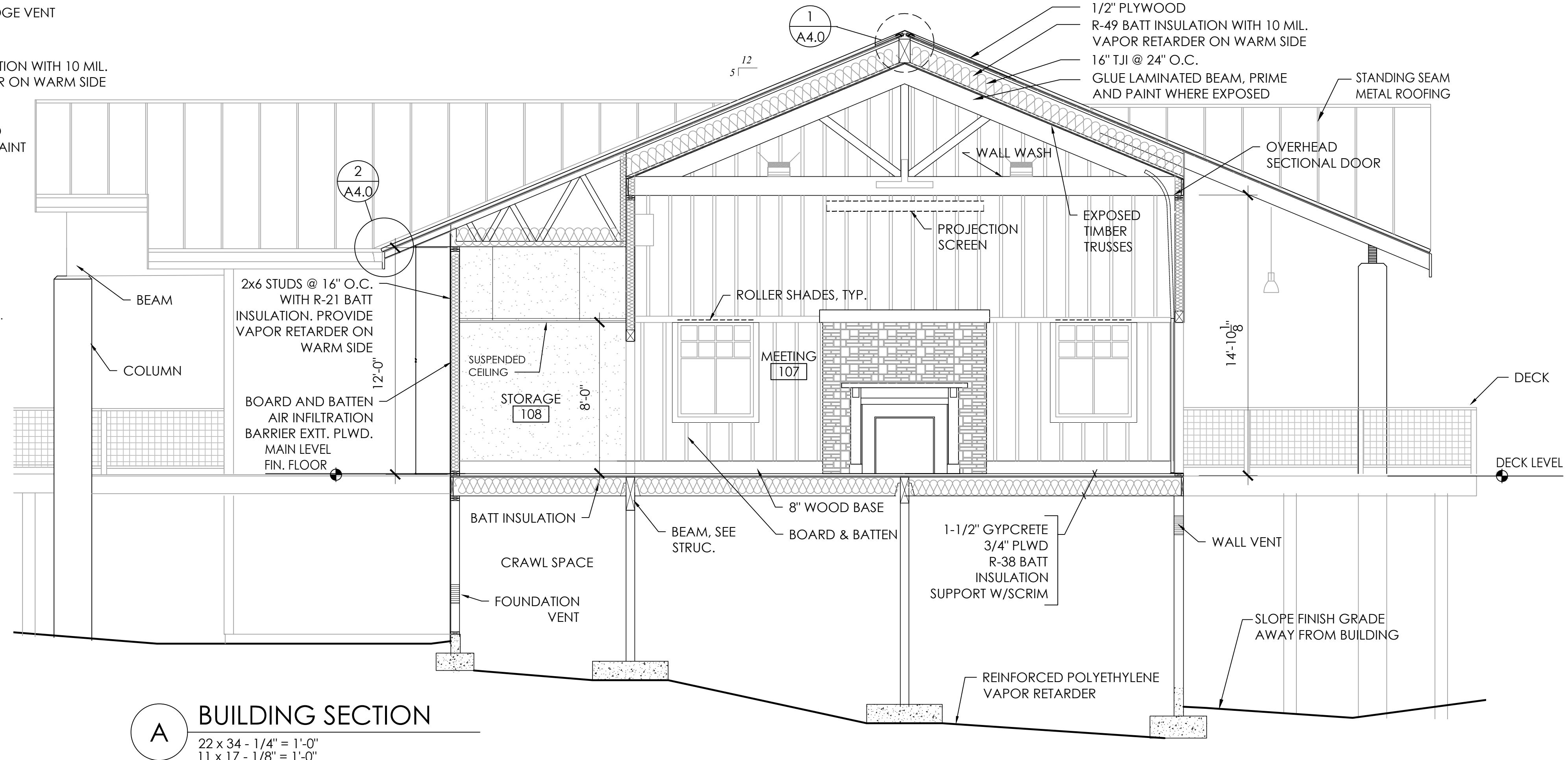


NOTE:
CUSTOMER MUST PROVIDE
VENT AREA REQUIREMENTS

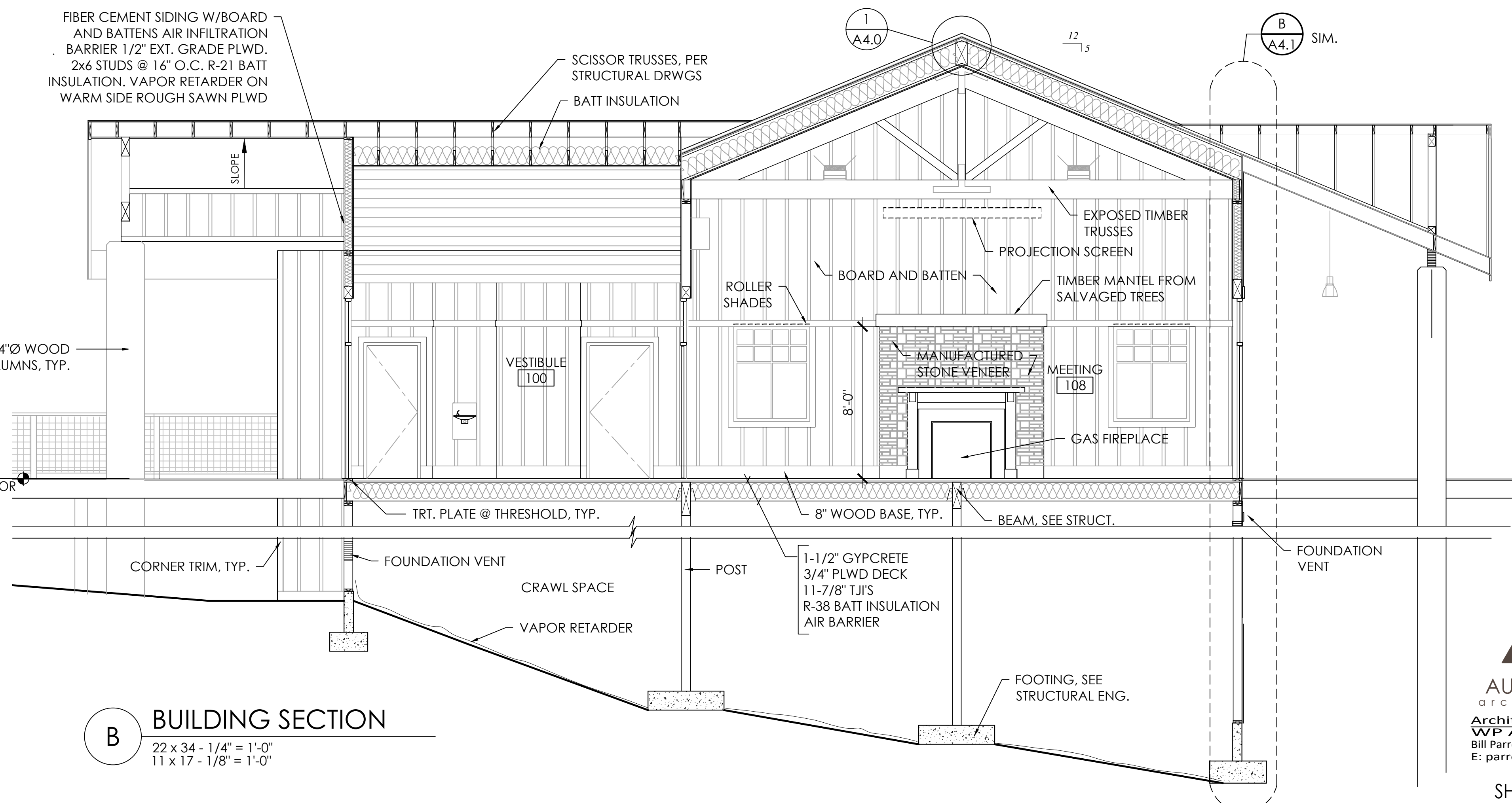
1 CONTINUOUS RIDGE VENT DETAILS
22 x 34 - 6" = 1'-0"
11 x 17 - 3" = 1'-0"



2 GUTTER & DRIP FLASHING ROOF DETAIL
22 x 34 - 3" = 1'-0"
11 x 17 - 1 1/2" = 1'-0"



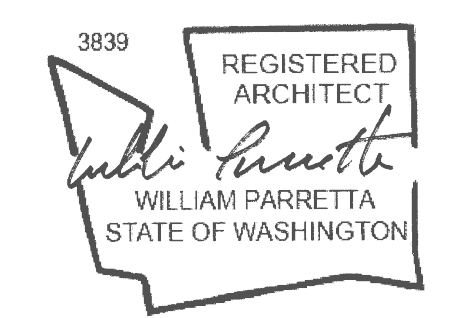
A BUILDING SECTION
22 x 34 - 1/4" = 1'-0"
11 x 17 - 1/8" = 1'-0"



B BUILDING SECTION
22 x 34 - 1/4" = 1'-0"
11 x 17 - 1/8" = 1'-0"

CAD NO.		DATE
		INT. APP.
		REVISIONS
		NO.

ACTION	BY	DATE
DESIGNED	BP	NOV. 2023
DRAWN	NW	NOV. 2023
CHECKED (FIELD)		
CHECKED (H.DOTS.)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE BUILDING

BUILDING SECTIONS

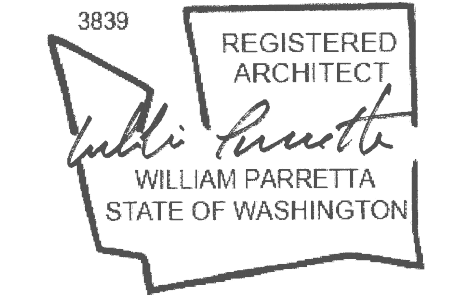
A4.0

SCALE AS NOTED

AUSTINCINA architects p.s.
Architect of Record:
WP Architecture
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E: parretta@comcast.net

DATE
APP.
INT.
REVISIONS
NO.

ACTION	BY	DATE
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DRAWN	NW	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		



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WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

DAY USE BUILDING

BUILDING SECTIONS

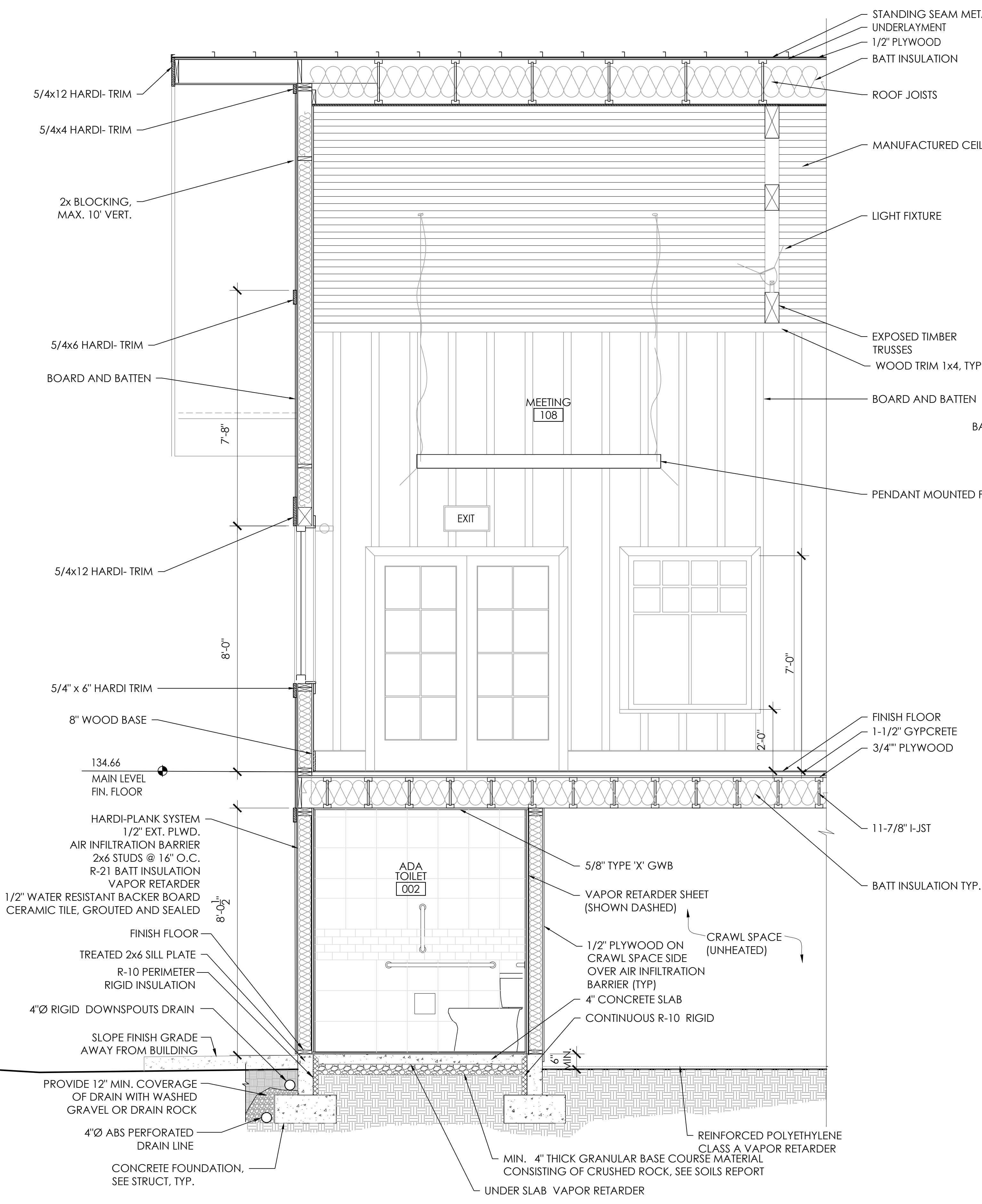
A4.1

SCALE AS NOTED

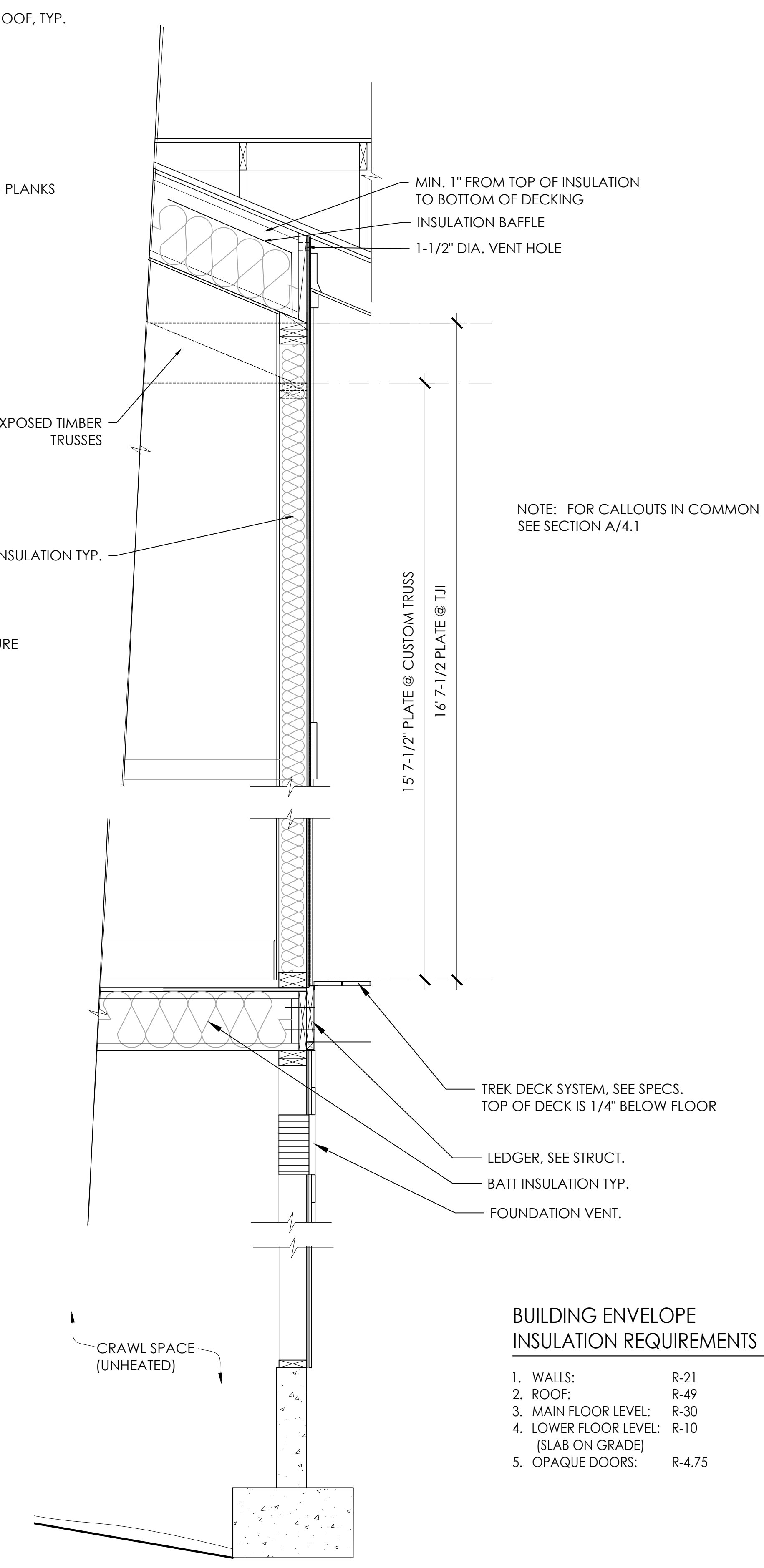
AUSTINCINA
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Architect of Record:
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Bill Parretta, P: 253.691.2758
E: parretta@comcast.net

SHEET 13 OF 56

BID SET PARKS FILE#



A BUILDING SECTION
22 x 34 - 1/2" = 1'-0"
11 x 17 - 1/4" = 1'-0"



B WALL SECTION
22 x 34 - 3/4" = 1'-0"
11 x 17 - 3/8" = 1'-0"

BUILDING ENVELOPE INSULATION REQUIREMENTS

1. WALLS:	R-21
2. ROOF:	R-49
3. MAIN FLOOR LEVEL:	R-30
4. LOWER FLOOR LEVEL: (SLAB ON GRADE)	R-10
5. OPAQUE DOORS:	R-4.75

DOOR SCHEDULE

DOOR NO.	DOOR SIZE	DOOR				FRAME		RATING	HDW GRP	DETAILS			REMARKS
		TYPE	CORE	MAT	FIN	MAT	FIN			HEAD	JAMB	SILL	
100	PR 3'-0" x 7'-0" x 1 3/4"	A	ALUM	FF	ALUM.	FF		7					
100A	PR 3'-0" x 7'-0" x 1 3/4"	A	ALUM	FF	ALUM.	FF		7					
100B	3'-0" x 7'-0" x 1 3/4"	D	WD	ST	HM	PT		5					
101A	3'-6" x 7'-0" x 1 3/4"	D	WD	ST	HM	PT		3					
101B	3'-0" x 7'-0" x 1 3/4"	D	WD	ST	HM	PT		3					
101C	8'-0" W x 4'-2" HIGH	E	ALUM.	FF	ALUM.	FF							
102	3'-0" x 7'-0" x 1 3/4"	D	WD	ST	HM	PT		1					
103	3'-0" x 7'-0" x 1 3/4"	D	WD	ST	HM	PT		1					
104	3'-0" x 7'-0" x 1 3/4"	D	WD	ST	HM	PT		1					
105	3'-0" x 7'-0" x 1 3/4"	D	WD	ST	HM	PT		1					
106A	PR 3'-0" x 7'-0" x 1 3/4"	D	WD	ST	HM	PT		2					
106B	PR 3'-0" x 7'-0" x 1 3/4"	D	WD	ST	HM	PT		2					
106C	PR 3'-0" x 7'-0" x 1 3/4"	D	WD	ST	HM	PT		2					
107B	PR 3'-0" x 7'-0" x 1 3/4"	C	WD	ST	HM	PT		6					
107C	12'-0" x 8'-0"	B	ALUM	FF	ALUM	FF		12					
108A	PR 3'-0" x 7'-0" x 1 3/4"	A	ALUM	FF	ALUM.	FF		7					
108B	PR 3'-0" x 7'-0" x 1 3/4"	C	WD	ST	HM	PT		6					
108C	12'-0" x 8'-0"	B	ALUM	FF	ALUM	FF		12					
001	3'-0" x 7'-0" x 1 3/4"	D	HM	PT	HM	PT		10					EXTERIOR INSULATED
002	3'-0" x 7'-0" x 1 3/4"	D	HM	PT	HM	PT		10					EXTERIOR INSULATED
003	4'-0" x 7'-0" x 1 3/4"	D	HM	PT	HM	PT		15					EXTERIOR INSULATED
004	3'-0" x 6'-8" x 1 3/4"	D	HM	PT	HM	PT		9					EXTERIOR INSULATED

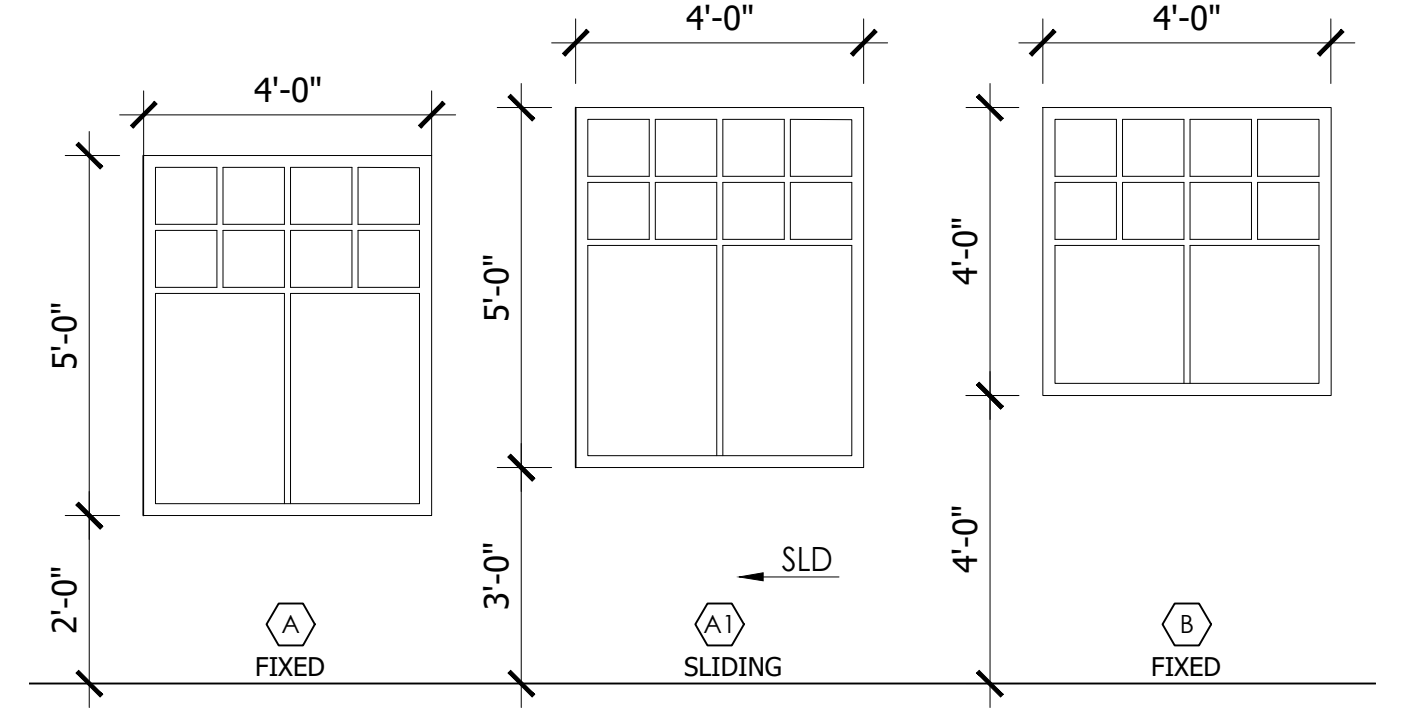
ROOM FINISH SCHEDULE

ROOM NO.	ROOM	FLOOR	BASE	WALLS		CEILING		REMARKS
				MATERIALS	FINISH	MATERIALS	FINISH	
100	VESTIBULE	VCC	WD	WD	PT	WD	ST	
101	WARMING KITCHEN	SV	RB	GWB	PT	ACP	-	
102	ADA TOILET	CT	CT	CT	-	GWB	PT	
103	ADA TOILET	CT	CT	CT	-	GWB	PT	
104	ADA TOILET	CT	CT	CT	-	GWB	PT	
105	ADA TOILET	CT	CT	CT	-	GWB	-	
106	STORAGE	SV	RB	GWB	PT	ACP	-	
107	MEETING	VCC	WD	WD	PT	WD	ST	
108	MEETING	VCC	WD	WD	PT	WD	ST	
109	JANITOR	SV	RB	GWB	PT	GWB	PT	F.R.P. @ WEST & SOUTH WALL, 48"H WAINSCOT
001	ADA TOILET	CT	CONC	CT	-	GWB	PT	
002	ADA TOILET	CT	CONC	CT	-	GWB	PT	
003	MECHANICAL	CONC.	-	GWB	PT	GWB	PT	
004	FIRE SPRINKLER	CONC.	-	GWB	PT	GWB	PT	

- ABBREVIATION:
- ACP ACOUSTICAL CEILING PANEL
 - CT CERAMIC TILE
 - FRP FIBER GLASS REINFORCED PANEL
 - GWB GYPSUM WALLBOARD
 - PT PAINT
 - RB RUBBER BASE
 - ST STAIN
 - SV SHEET VINYL
 - VCC VINYL COMPOSITE CORE
 - WD WOOD

ABBREVIATIONS:

- FF FACTORY FINISH
- WD WOOD FINISH
- PT PAINT
- ST STAIN
- HM HOLLOW METAL
- ALUM ALUMINUM MATERIAL
- MAT MATERIAL
- FIN FINISH



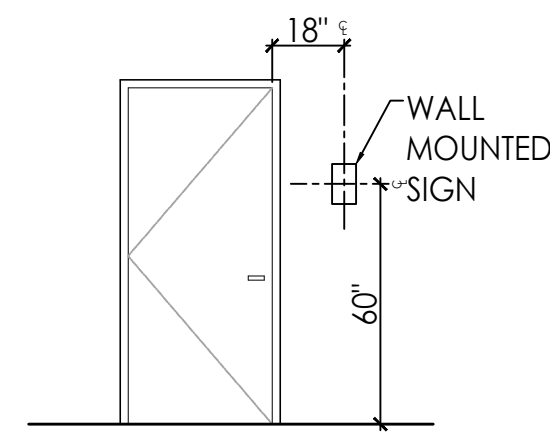
BUILDING ENVELOPE FENESTRATION MAX. U-FACTOR

- FIXED U-FACTOR: U-0.38
- OPERABLE U-FACTOR: U-0.40
- ENTRANCE DOORS: U-0.60

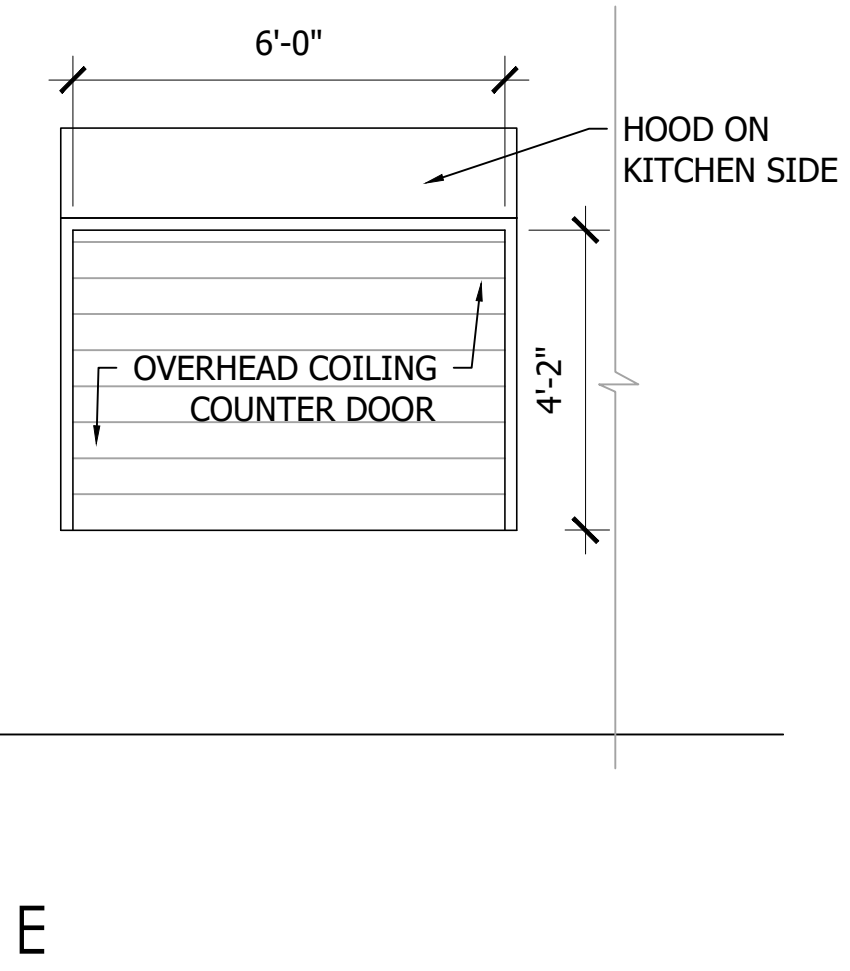
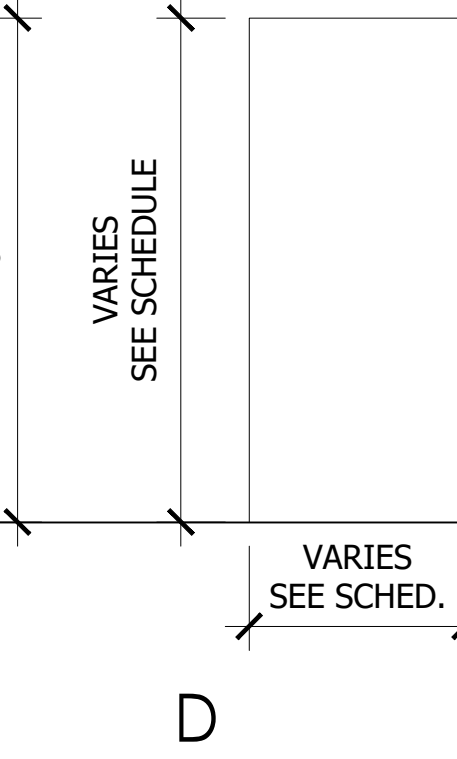
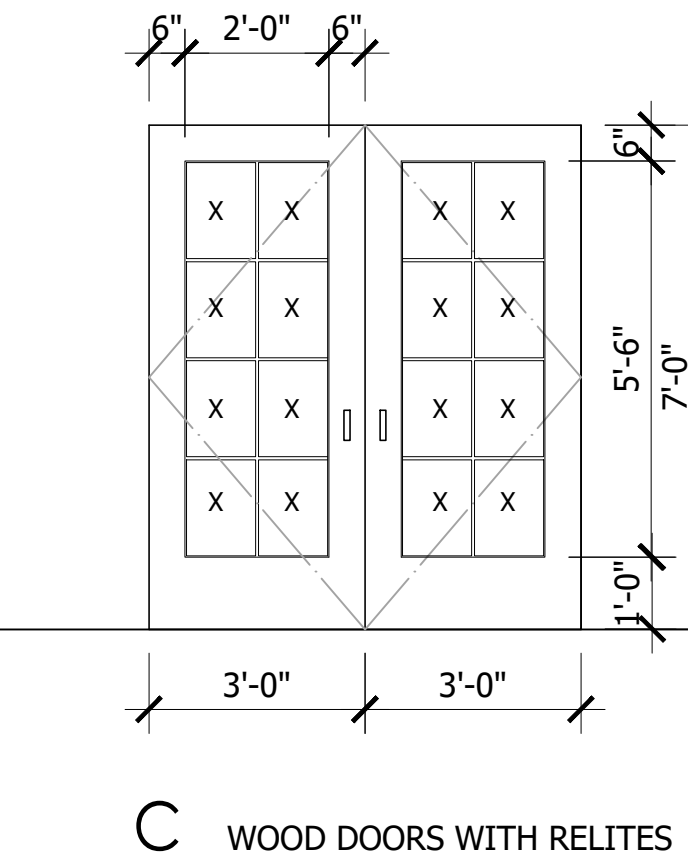
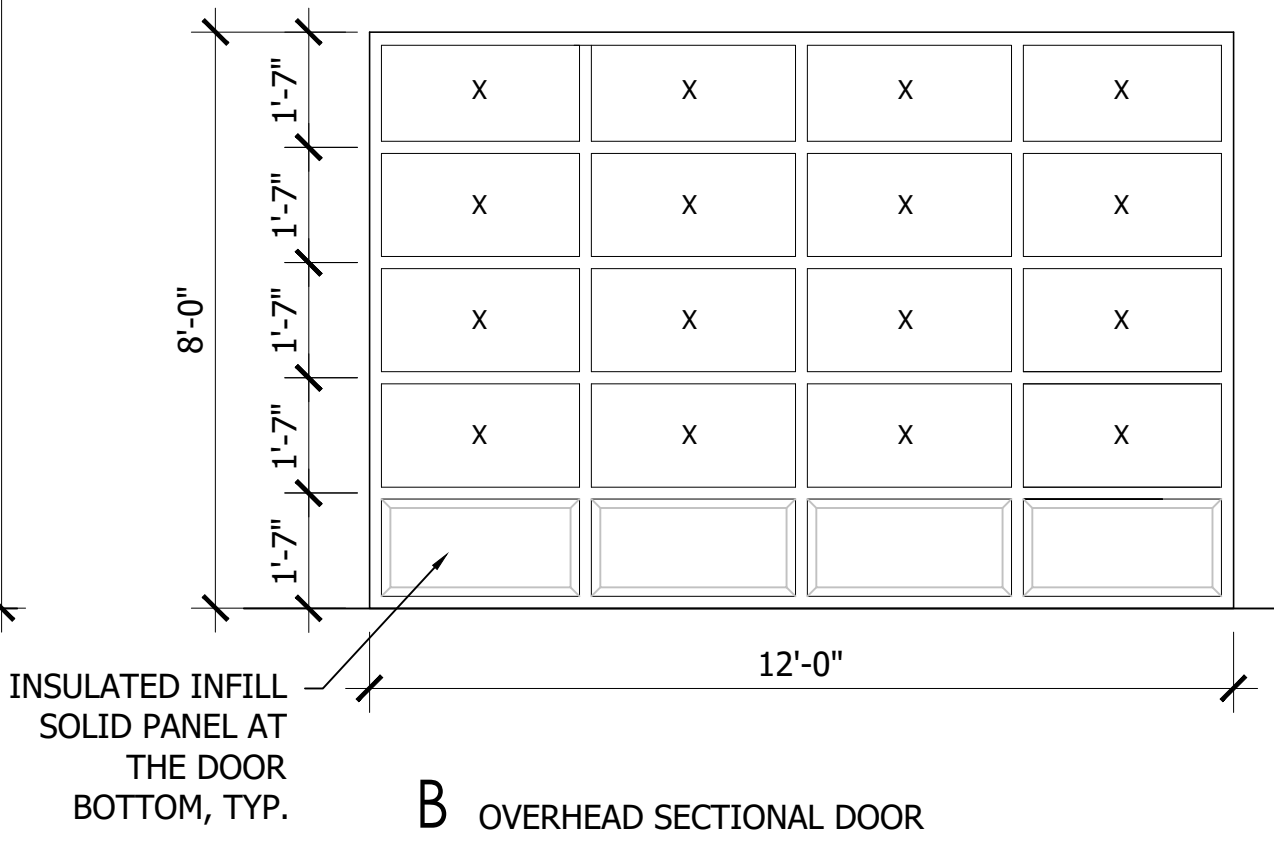
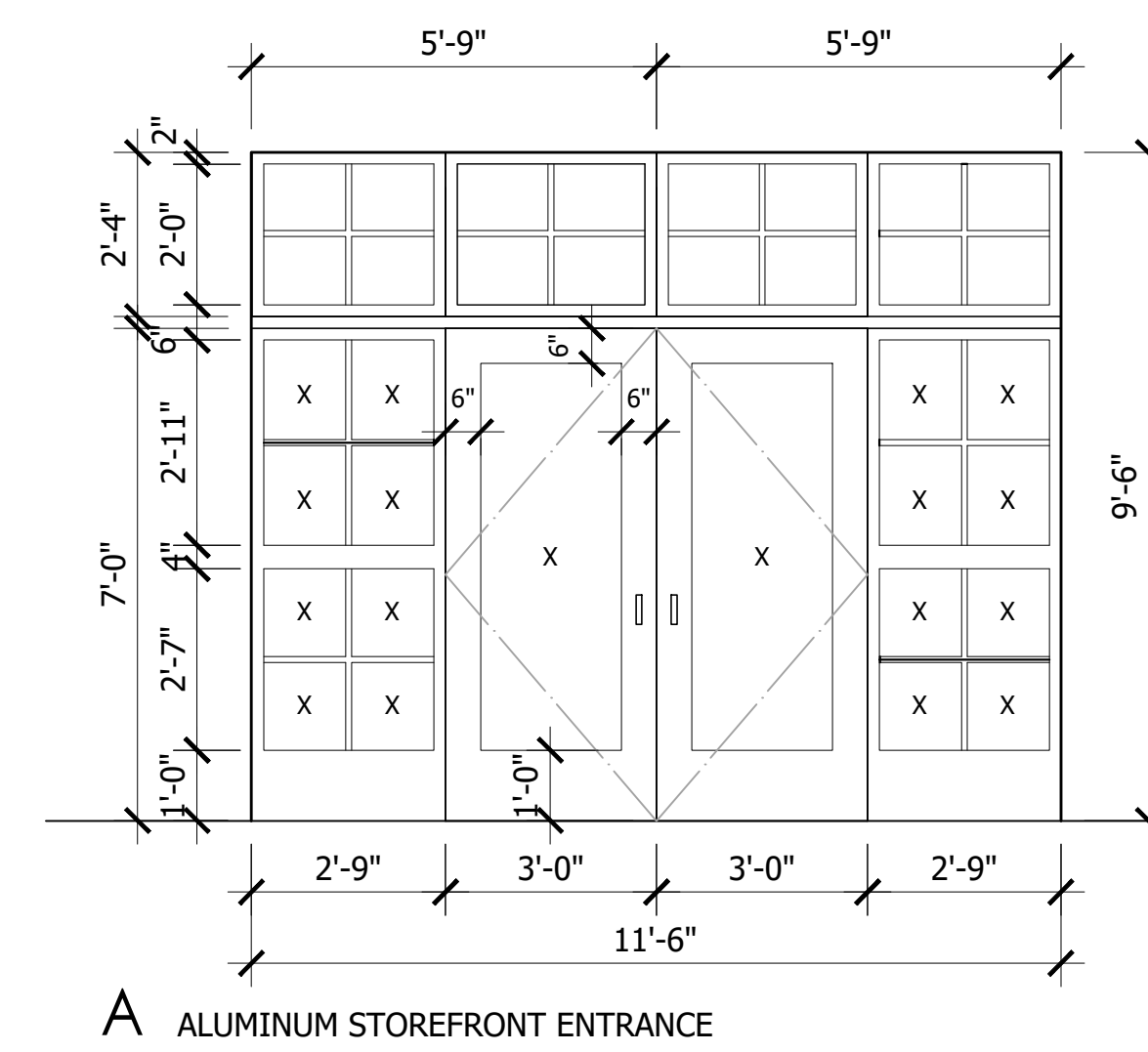
SOLAR HEAT GAIN COEFFICIENT (SHGC)

	EXPOSURES	SEW	N
PF < 0.2		0.38	0.51
0.2 ≤ PF < 0.5		0.46	0.56
PF ≥ 0.5		0.61	0.61

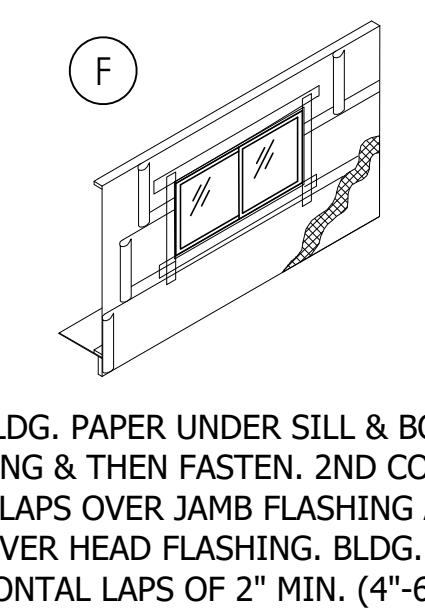
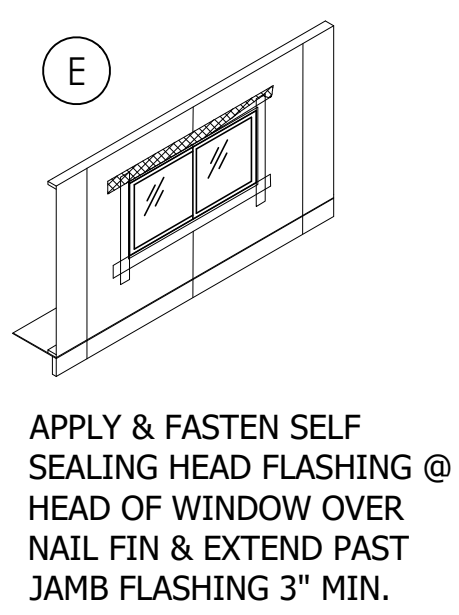
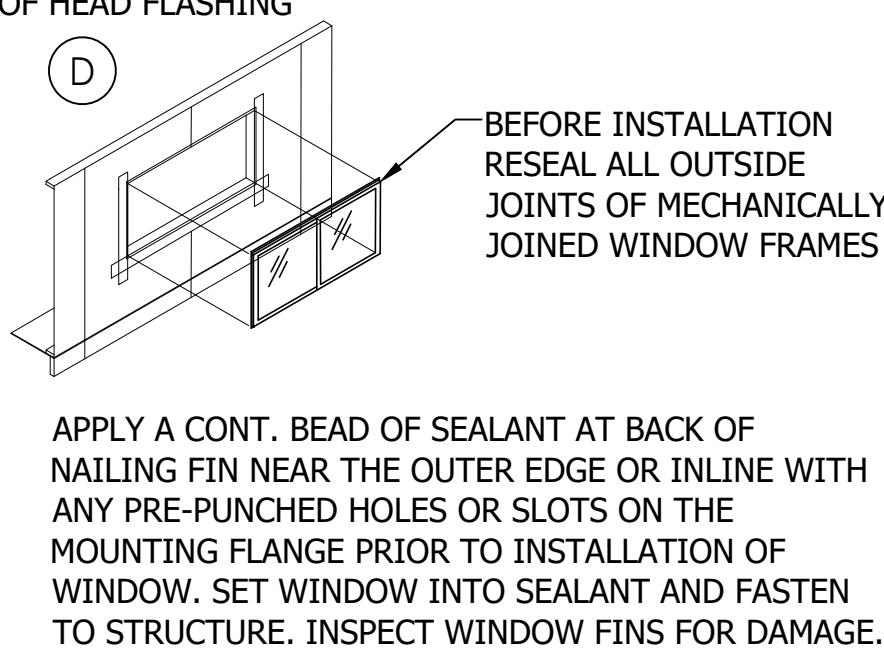
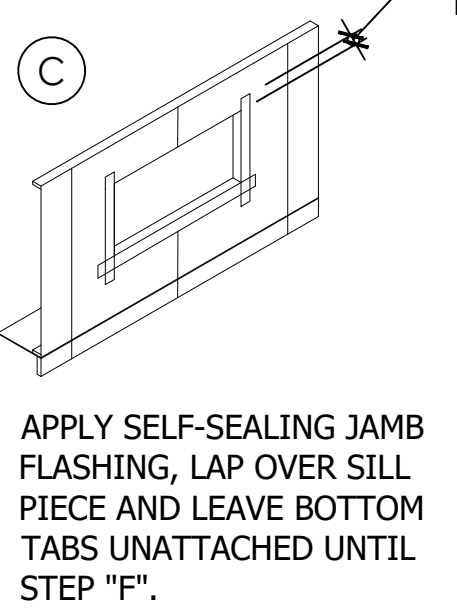
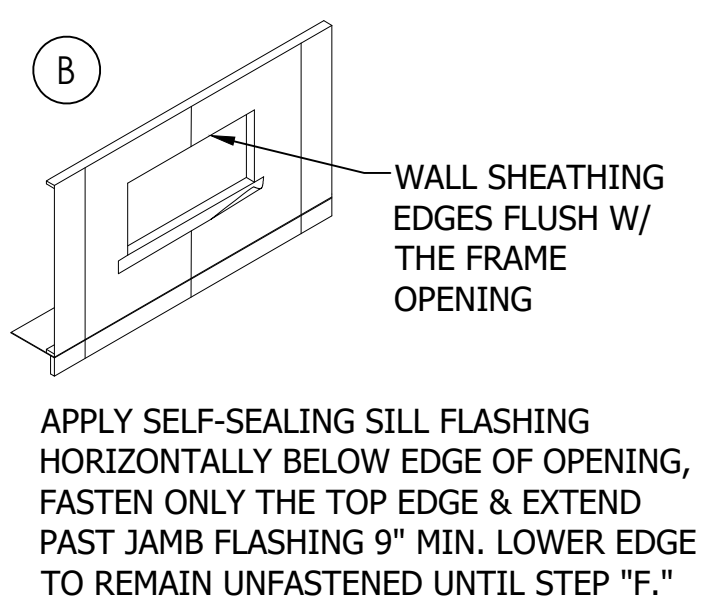
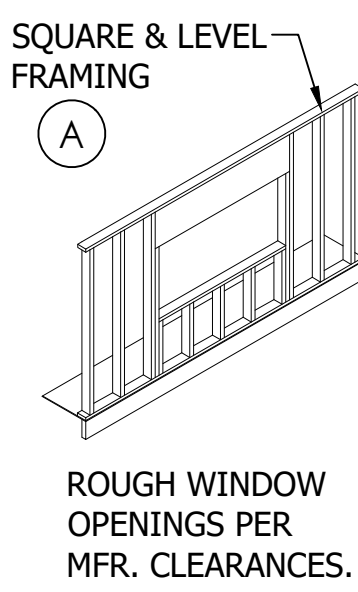
PF (PROJECTION FACTOR)



WINDOW TYPES "X" DENOTES TEMPERED GLASS (SAFETY GLASS)



DOOR TYPES "X" DENOTES TEMPERED GLASS (SAFETY GLASS)



- GENERAL NOTES:
- SILL, JAMB AND HEAD FLASHING DENOTED ON STEPS B, C & E TO BE 9-INCH WIDE (MINIMUM) PROTECTO WRAP BT25XL BUTYL HYBRID WINDOW & DOOR SEALING TAPE AND/OR APPROVED SIMILAR.
 - STEP D, FASTEN WINDOW NAIL FIN WITH STAINLESS STEEL SCREWS AT HEAD, JAMB AND SILL. NO CLOSER THAN 3-INCHES AND WITHIN 10-INCHES FROM CORNERS AND SPACED 16-INCHES ON CENTER (MAXIMUM) OR PER WINDOW MANUFACTURER'S SPECIFICATIONS. NO SS SCREWS SHALL BE BENT OVER THE NAILING FIN TO SECURE WINDOW.

A TYP. SIGNAGE MOUNTING DETAIL

B WALL MOUNTED SIGN DETAIL

1 DOOR SIGNAGE & MOUNTING DETAILS NOT TO SCALE

GENERAL NOTES:

- NEW SIGNS TO BE WHITE TEXT AND/OR SYMBOLS ON BLUE BACKGROUND.
- SIGN PICTOGRAM SIZE, LETTER SIZE & SPACING PER ICC A117.1-2009, SECTION 703

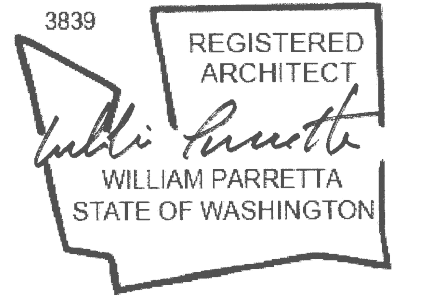
CAD NO.

DATE	APP.

REVISIONS

NO.

ACTION	BY	DATE
DESIGNED	BP	NOV. 2023
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CHECKED (FIELD)		
CHECKED (HOTOS)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE BUILDING

DOOR AND ROOM FINISH SCHEDULES

A5.0

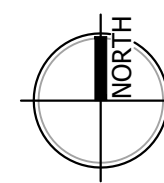
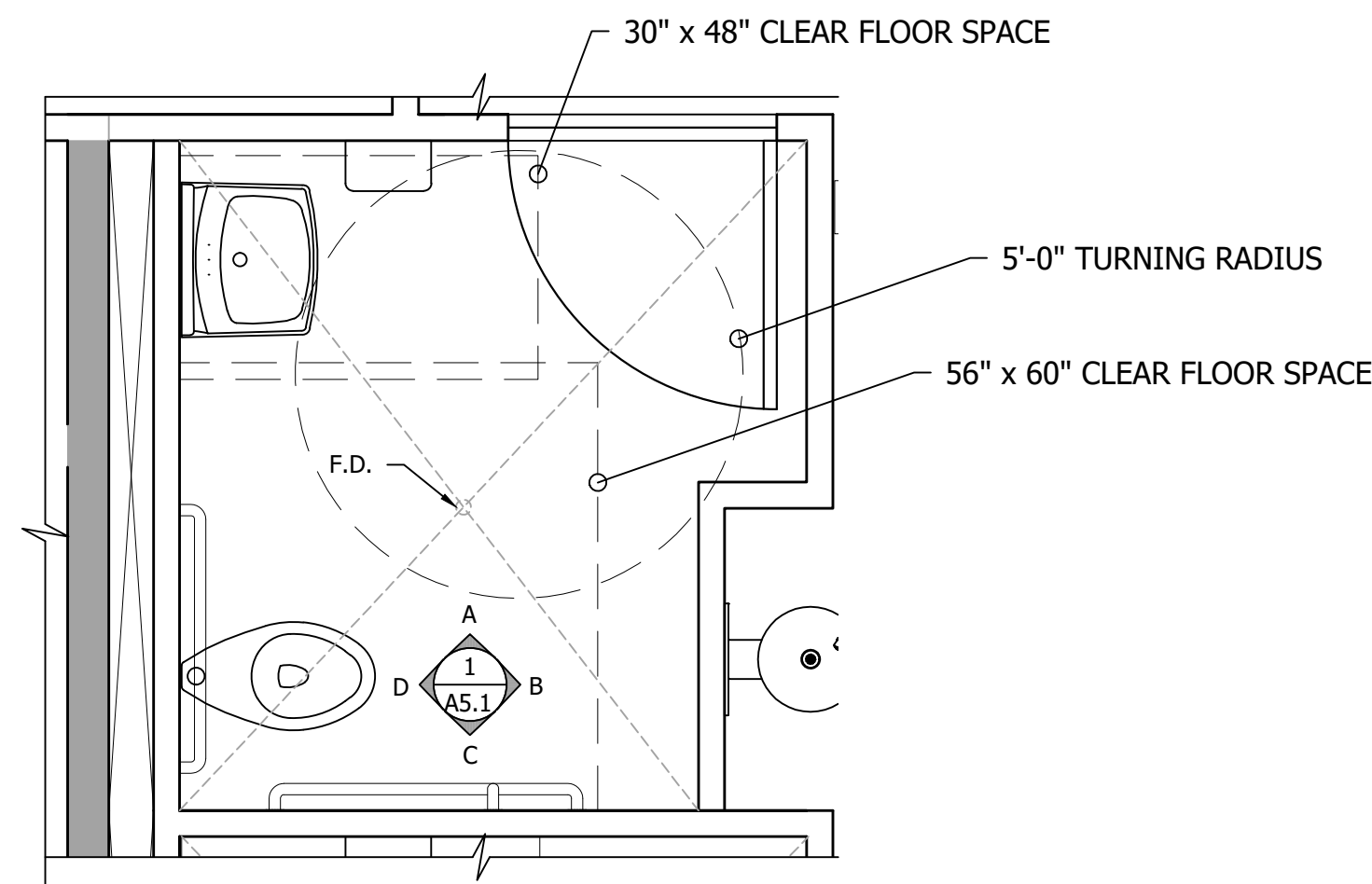
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 Architect of Record:
 WP Architecture
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 E: parretta@comcast.net

SHEET 14 OF 56

SCALE AS NOTED

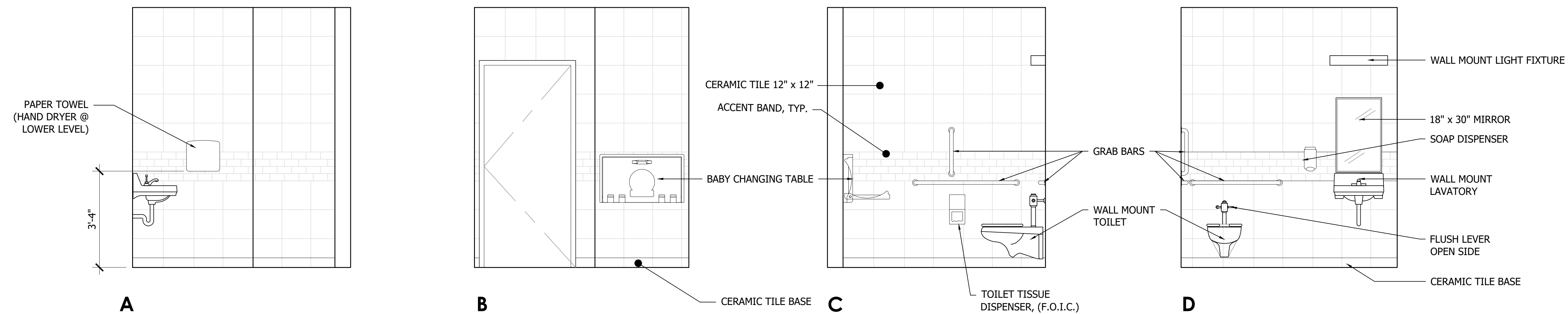
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CHECKED (HDOTS)		



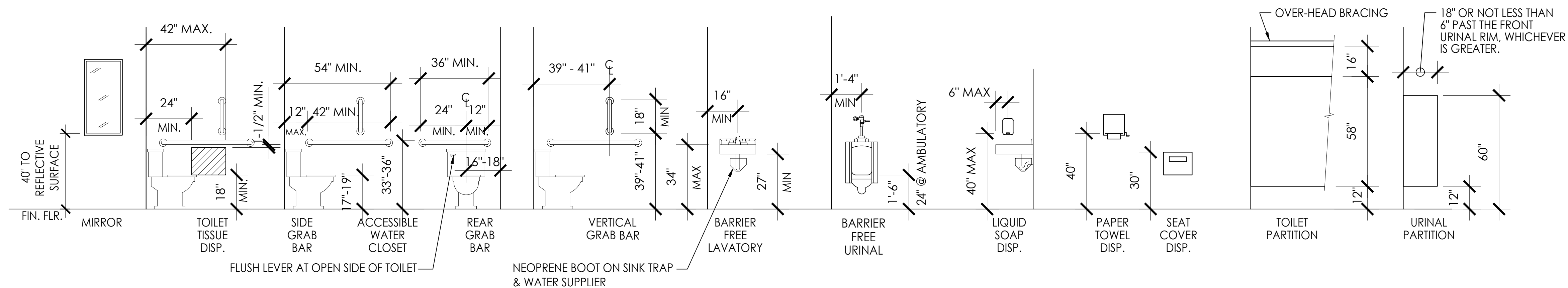
ENLARGED ADA TOILET FLOOR PLAN

22 x 34 - 1/2" = 1'-0"
11 x 17 - 1/4" = 1'-0"



1 ADA TOILET ELEVATIONS, TYP.

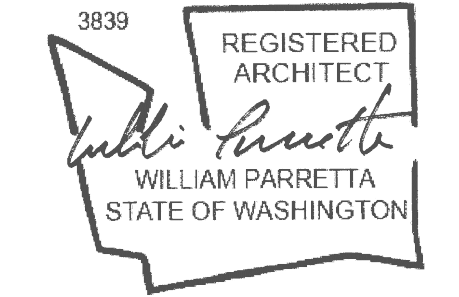
22 x 34 - 1/2" = 1'-0"
11 x 17 - 1/4" = 1'-0"



2 TOILET ACCESSORIES SCHEDULE AND MOUNTING HEIGHTS

22 x 34 - 3/8" = 1'-0"
11 x 17 - 3/16" = 1'-0"

NOTE: PROVIDE BLOCKING IN WALL FOR ALL WALL MTD. ACCESSORIES



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

DAY USE BUILDING

ENLARGED TOILET PLAN, ELEVATIONS AND TOILET ACCESSORIES SCHEDULE

A5.1

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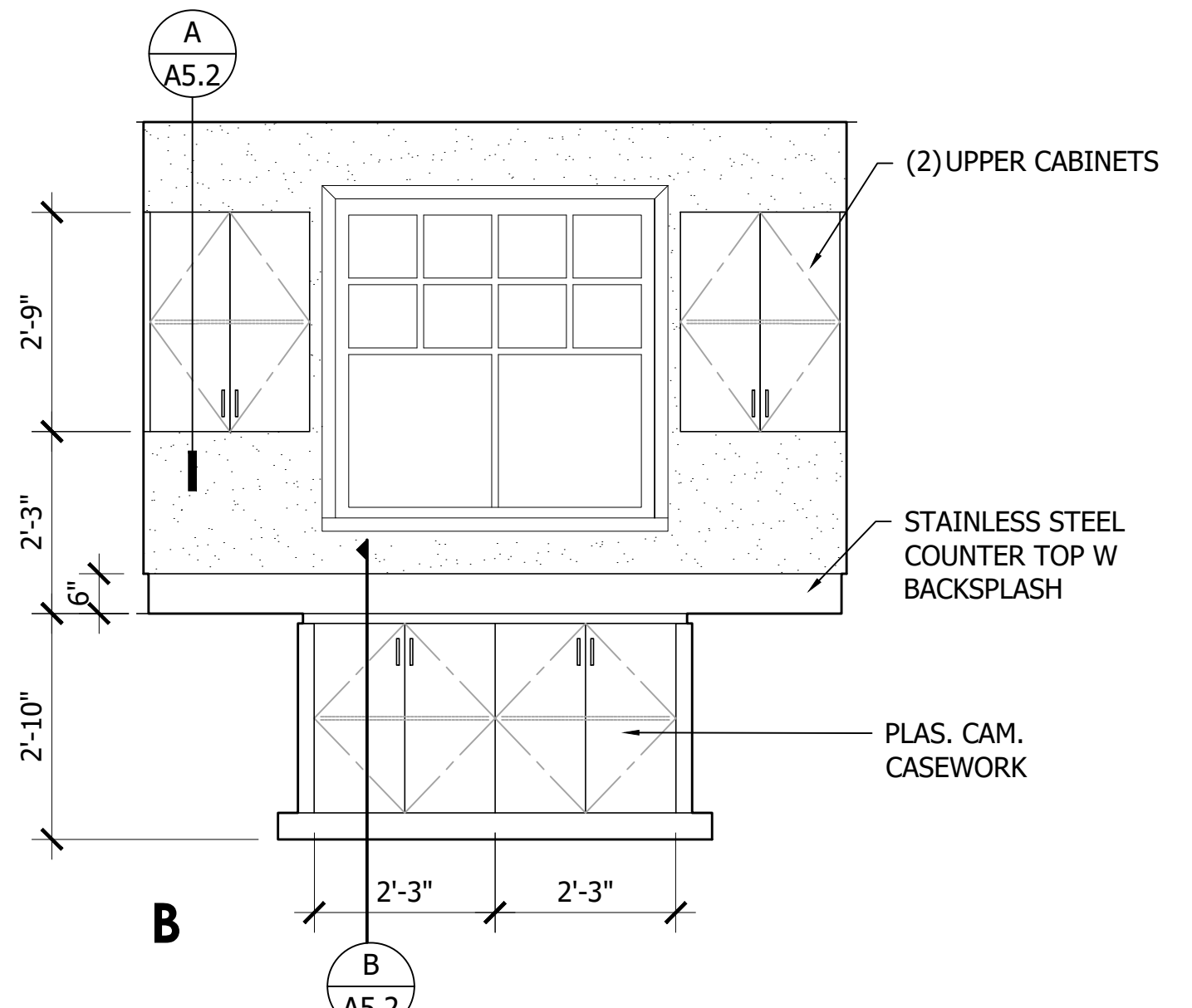
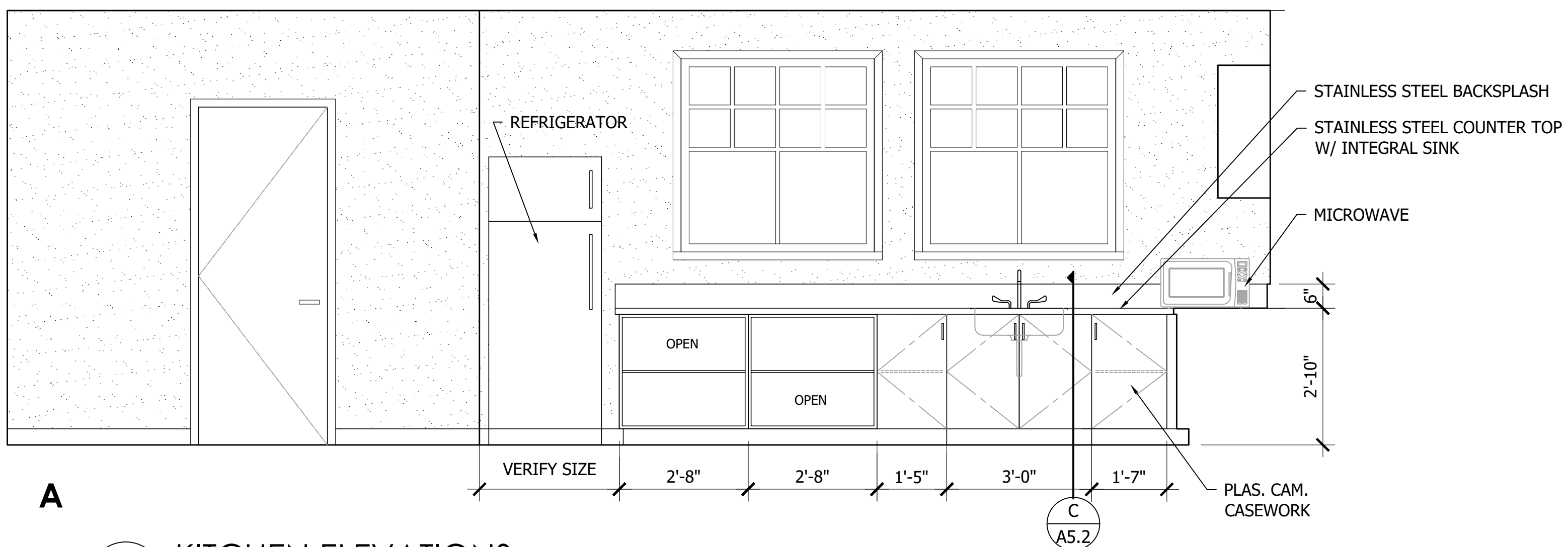
SHEET 15 OF 56

SCALE

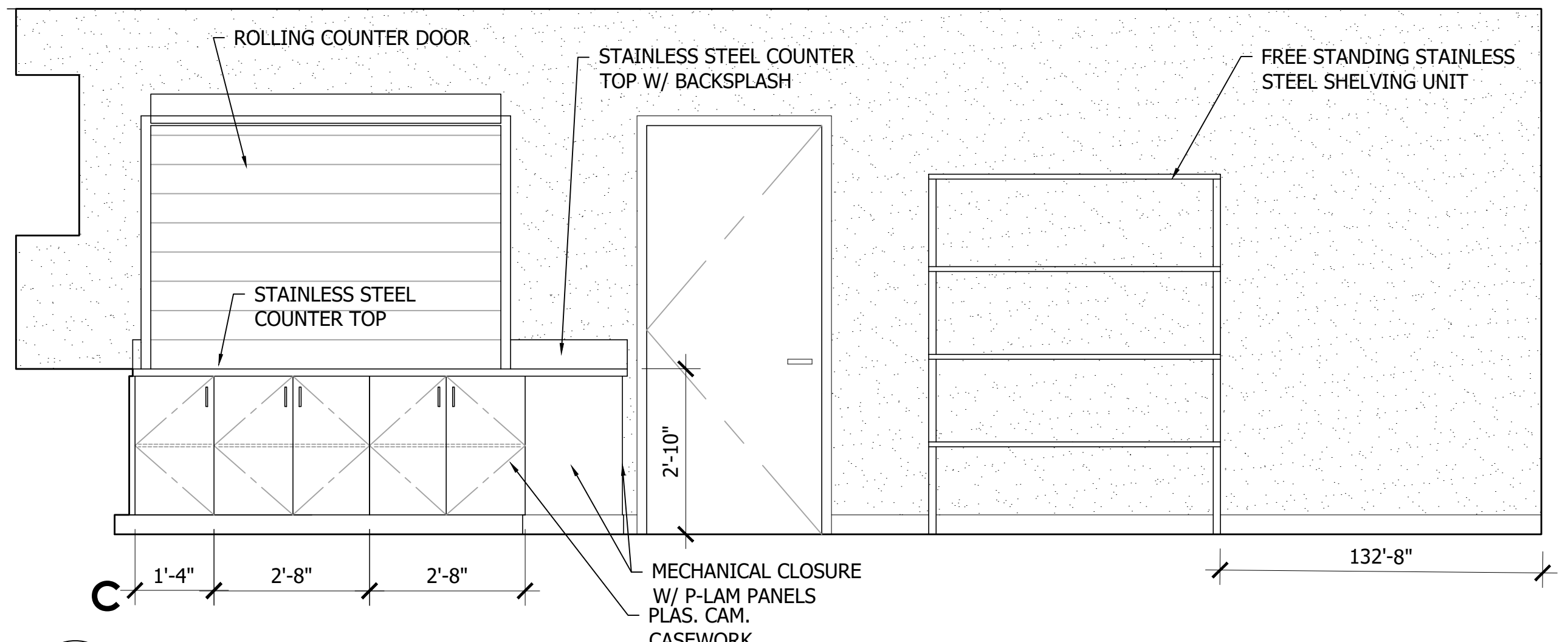
AS NOTED

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	INT. APP.
	REVISIONS
	NO.

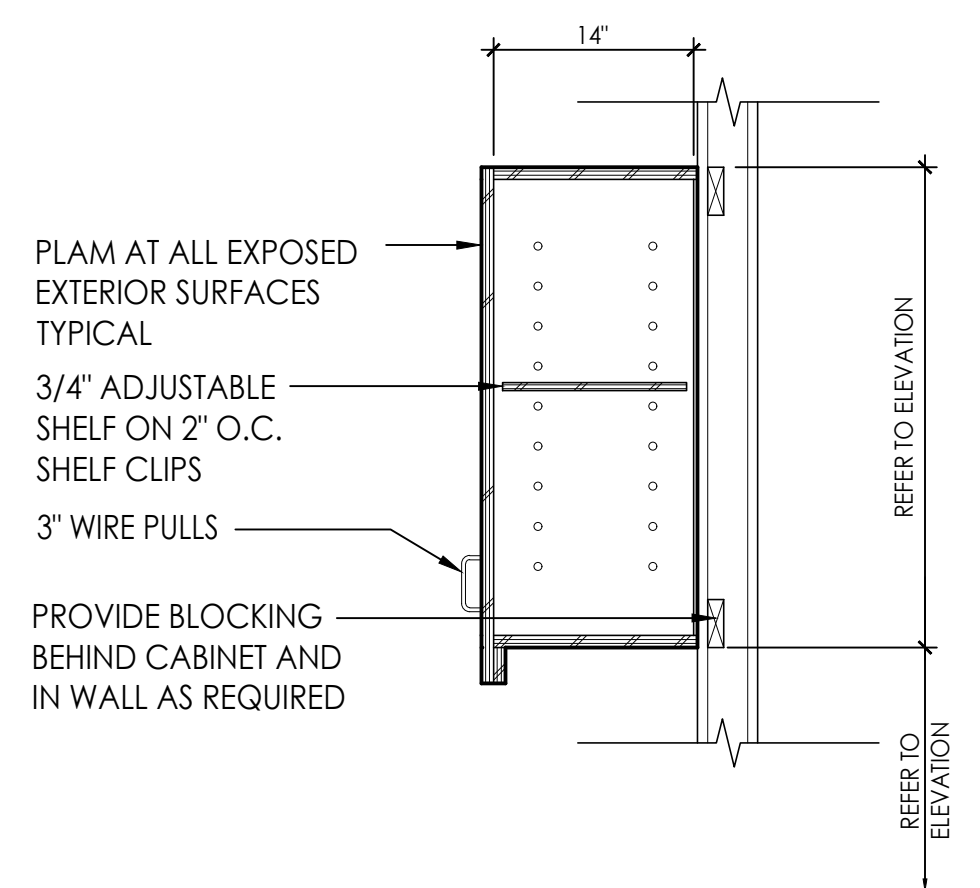
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DESIGNED	BP	NOV. 2023
DRAWN	NW	NOV. 2023
CHECKED (FIELD)		
CHECKED (H.DOTS.)		



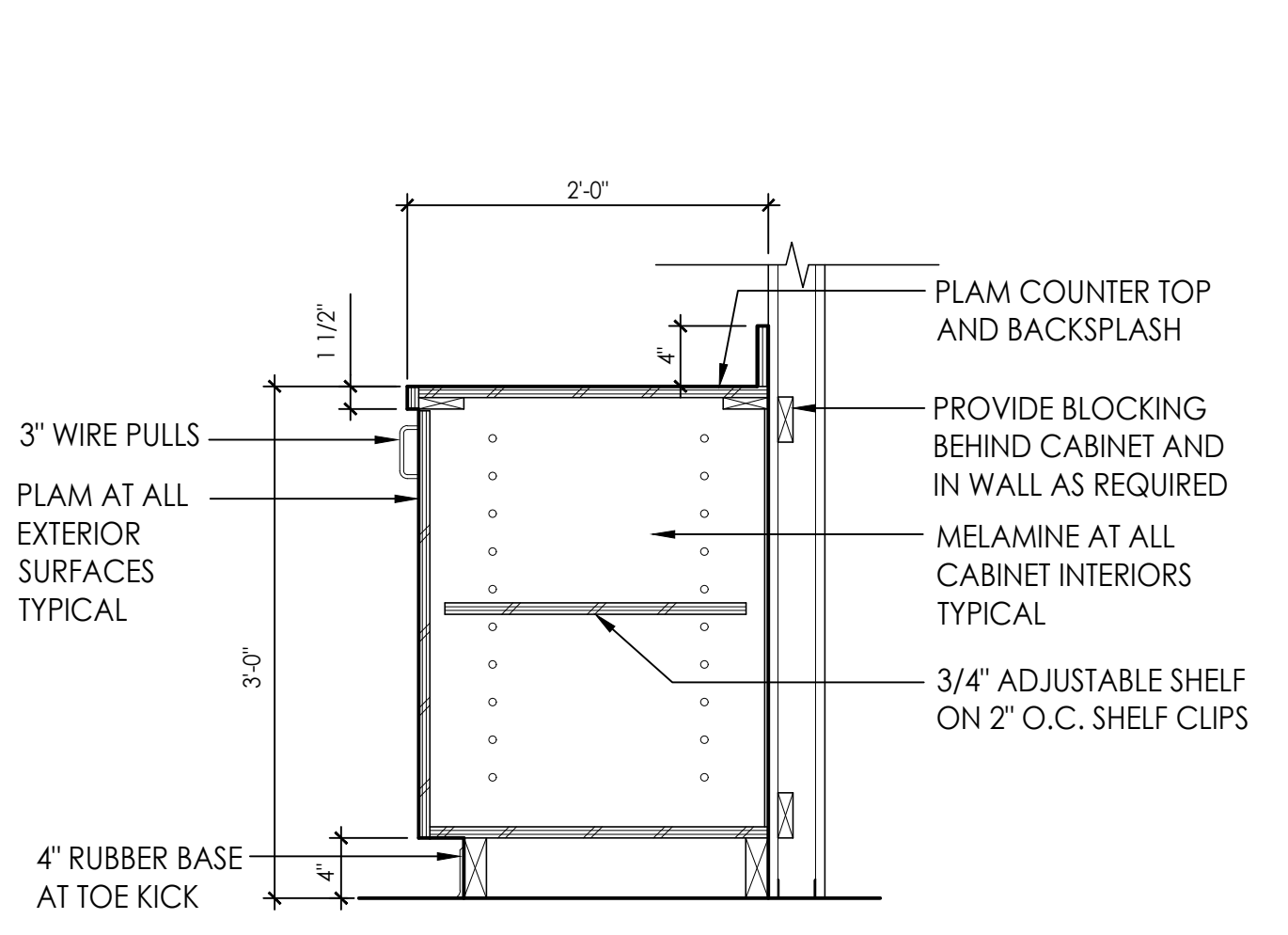
1 KITCHEN ELEVATIONS
 22 x 34 - 1/2" = 1'-0"
 11 x 17 - 1/4" = 1'-0"



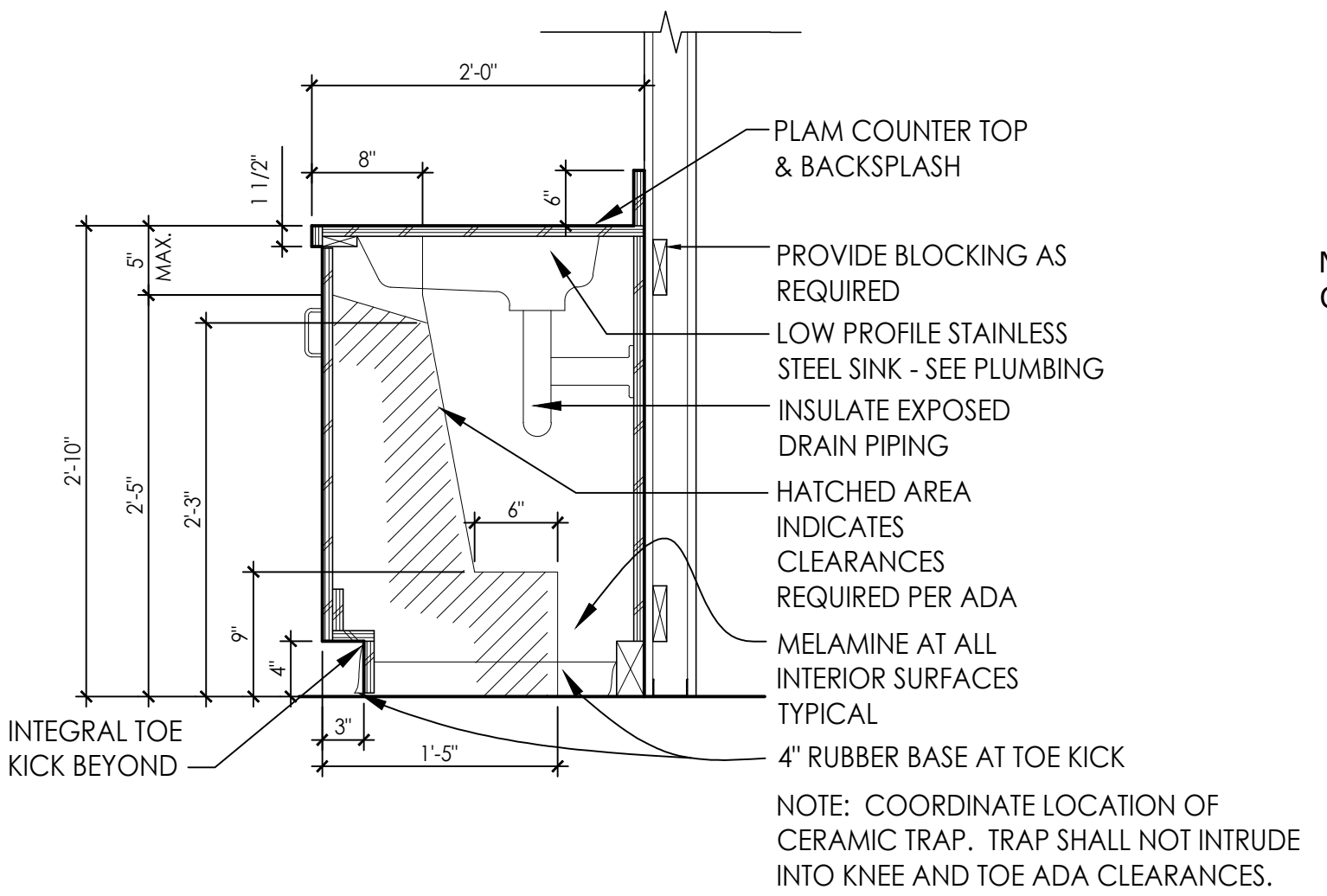
1 KITCHEN ELEVATIONS
 22 x 34 - 1/2" = 1'-0"
 11 x 17 - 1/4" = 1'-0"



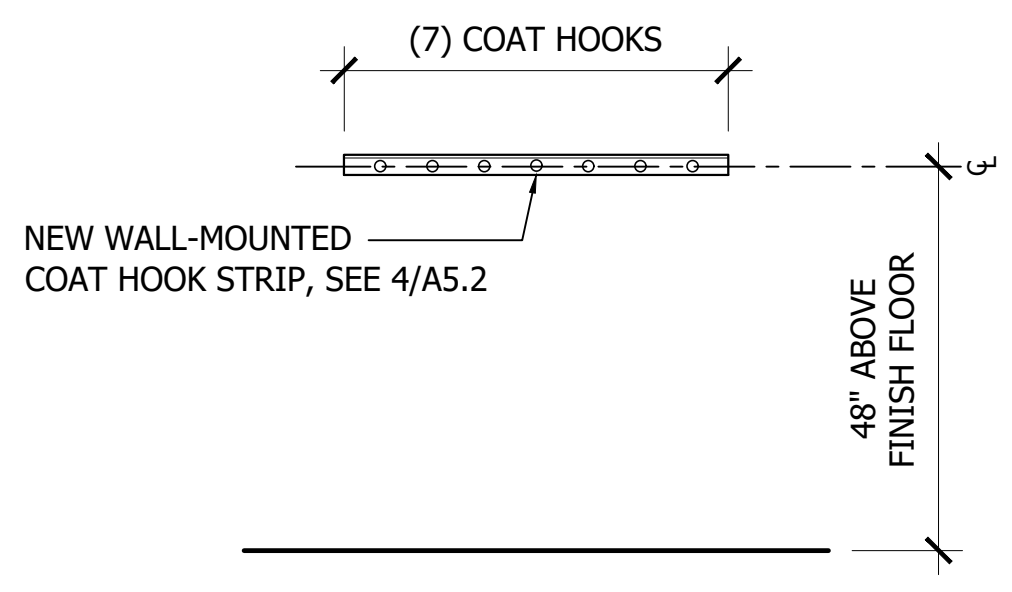
A CABINET SECTION DETAIL
 22 x 34 - 1" = 1'-0"
 11 x 17 - 1/2" = 1'-0"



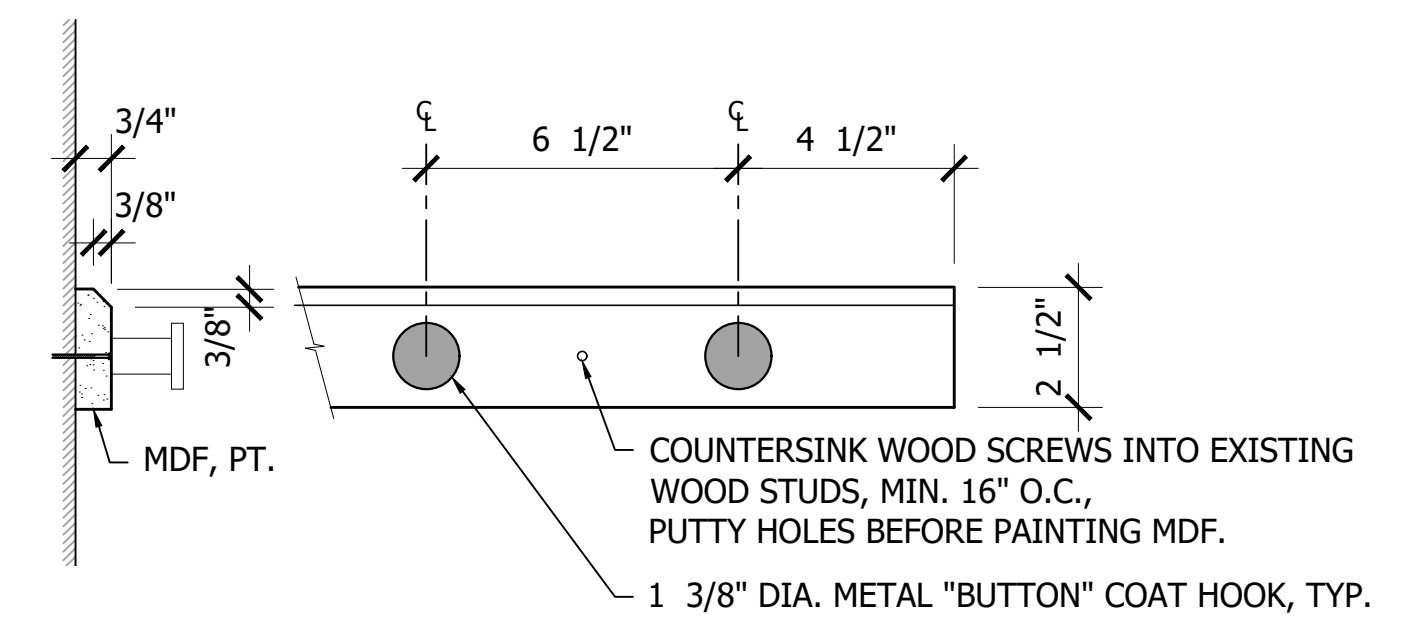
B CABINET SECTION DETAIL
 22 x 34 - 1" = 1'-0"
 11 x 17 - 1/2" = 1'-0"



C SINK CABINET DETAIL
 22 x 34 - 1" = 1'-0"
 11 x 17 - 1/2" = 1'-0"



3 COAT HOOK STRIP
 22 x 34 - 1/2" = 1'-0"
 11 x 17 - 1/4" = 1'-0"



4 TYP. COAT HOOK STRIP
 22 x 34 - 3" = 1'-0"
 11 x 17 - 1 1/2" = 1'-0"

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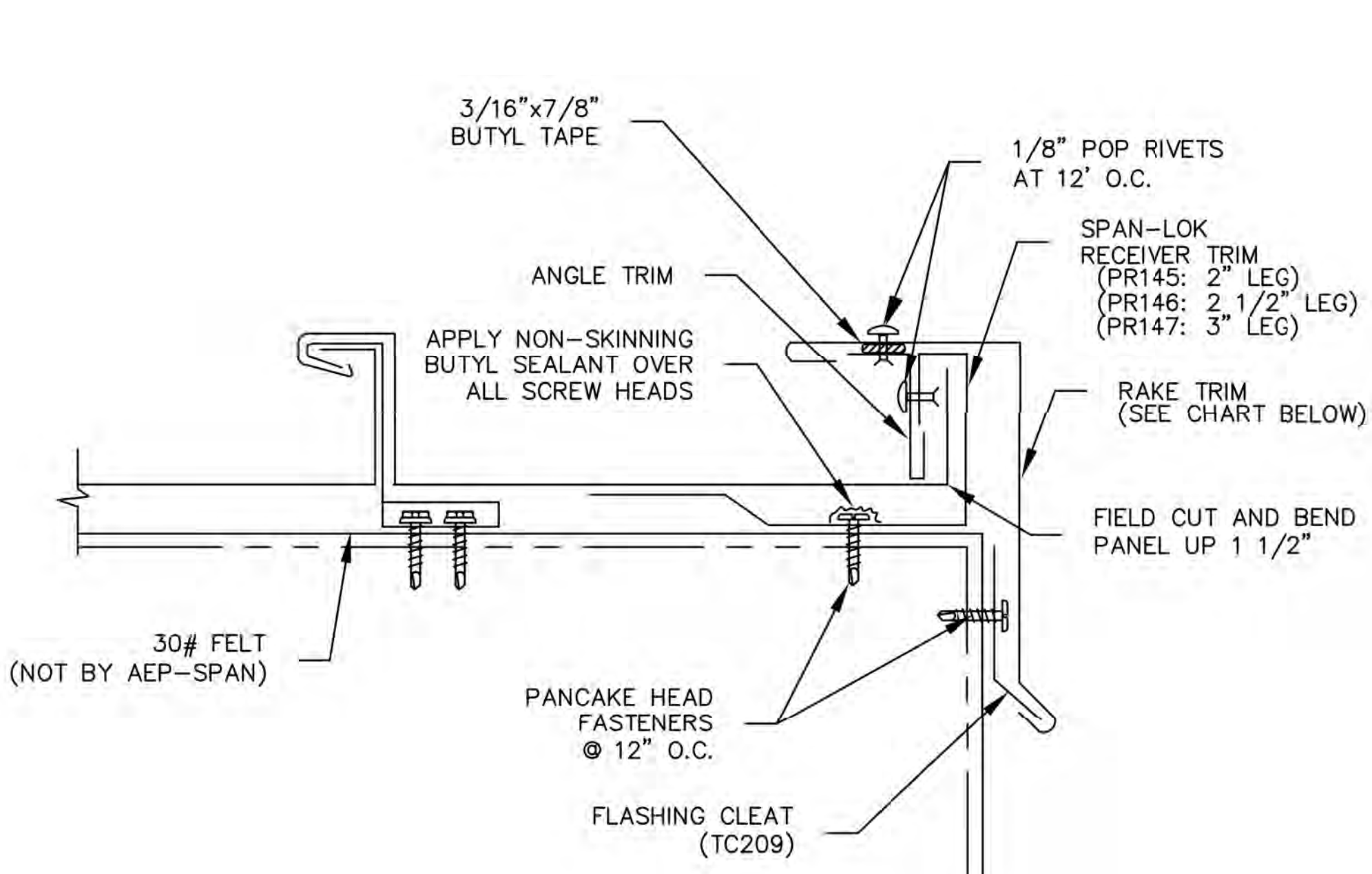
KOPACHUCK
 STATE PARK

DAY USE
 BUILDING

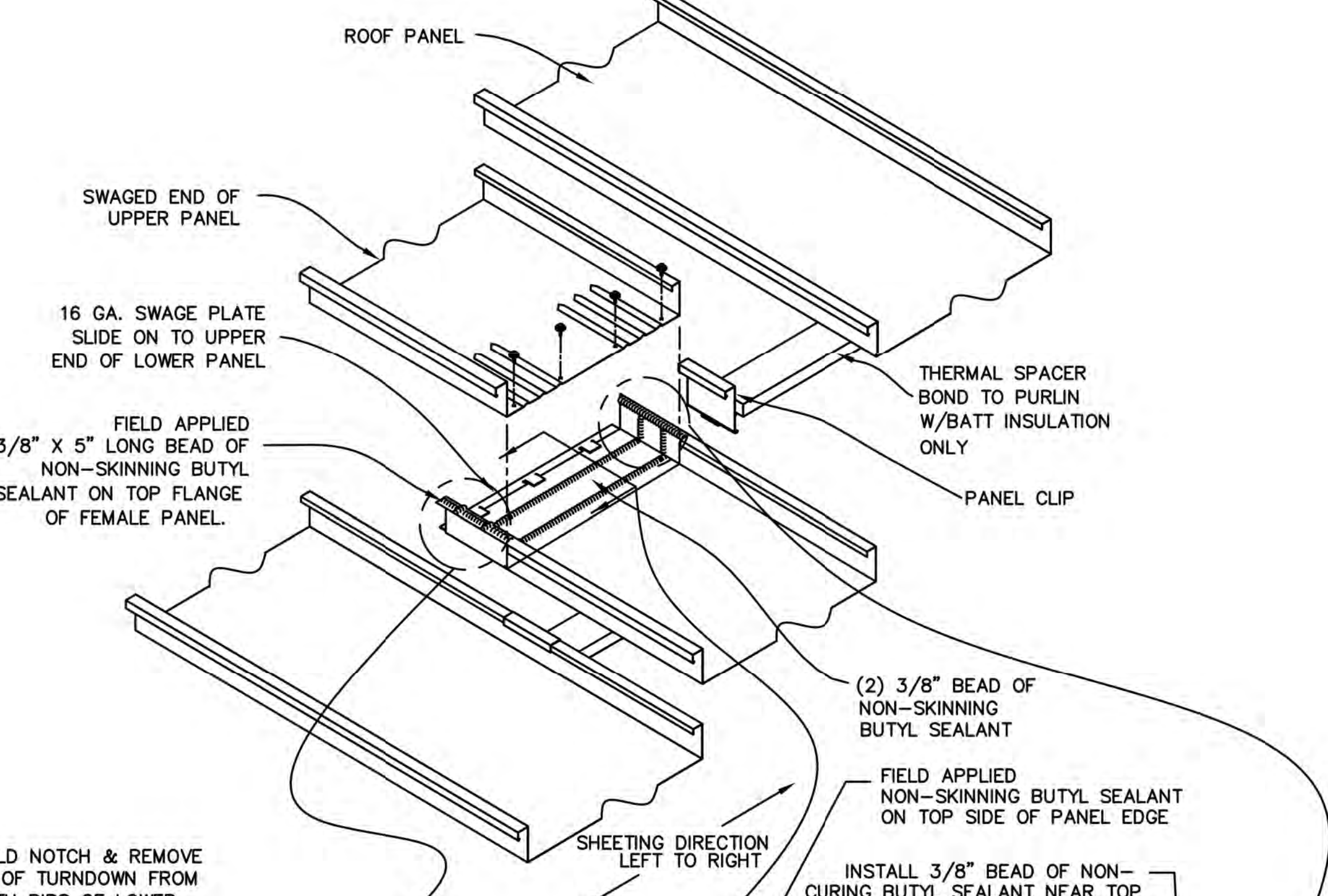
INTERIOR
 ELEVATIONS
 AND DETAILS

A5.2

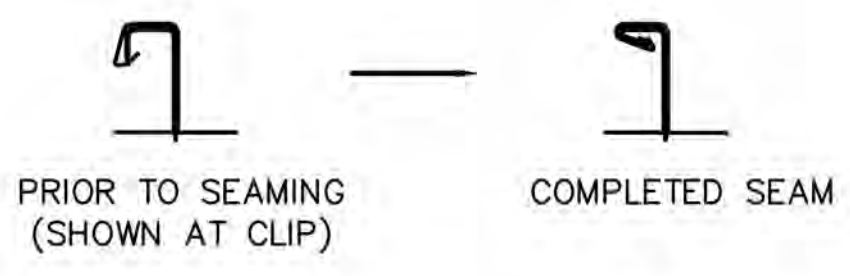
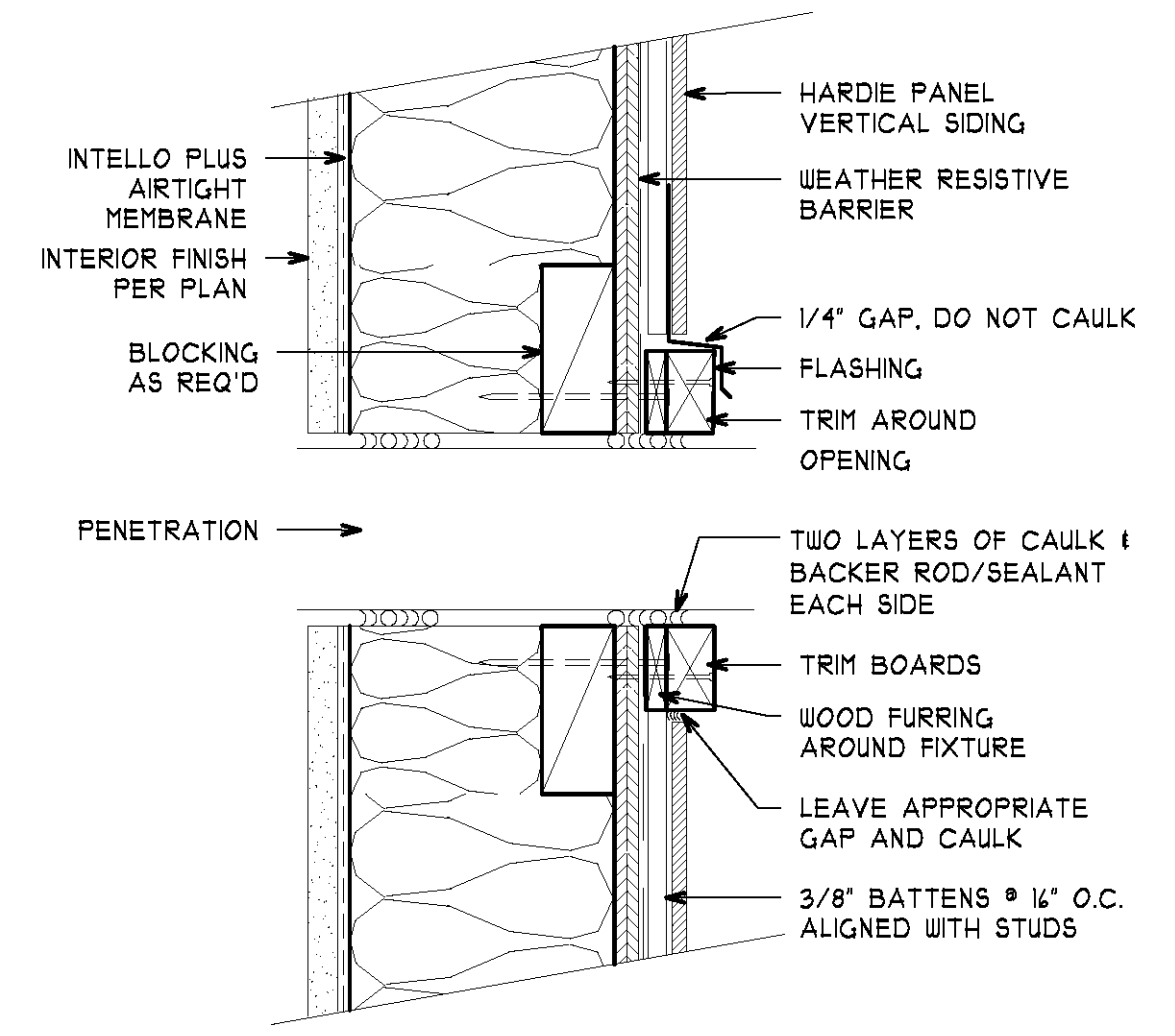
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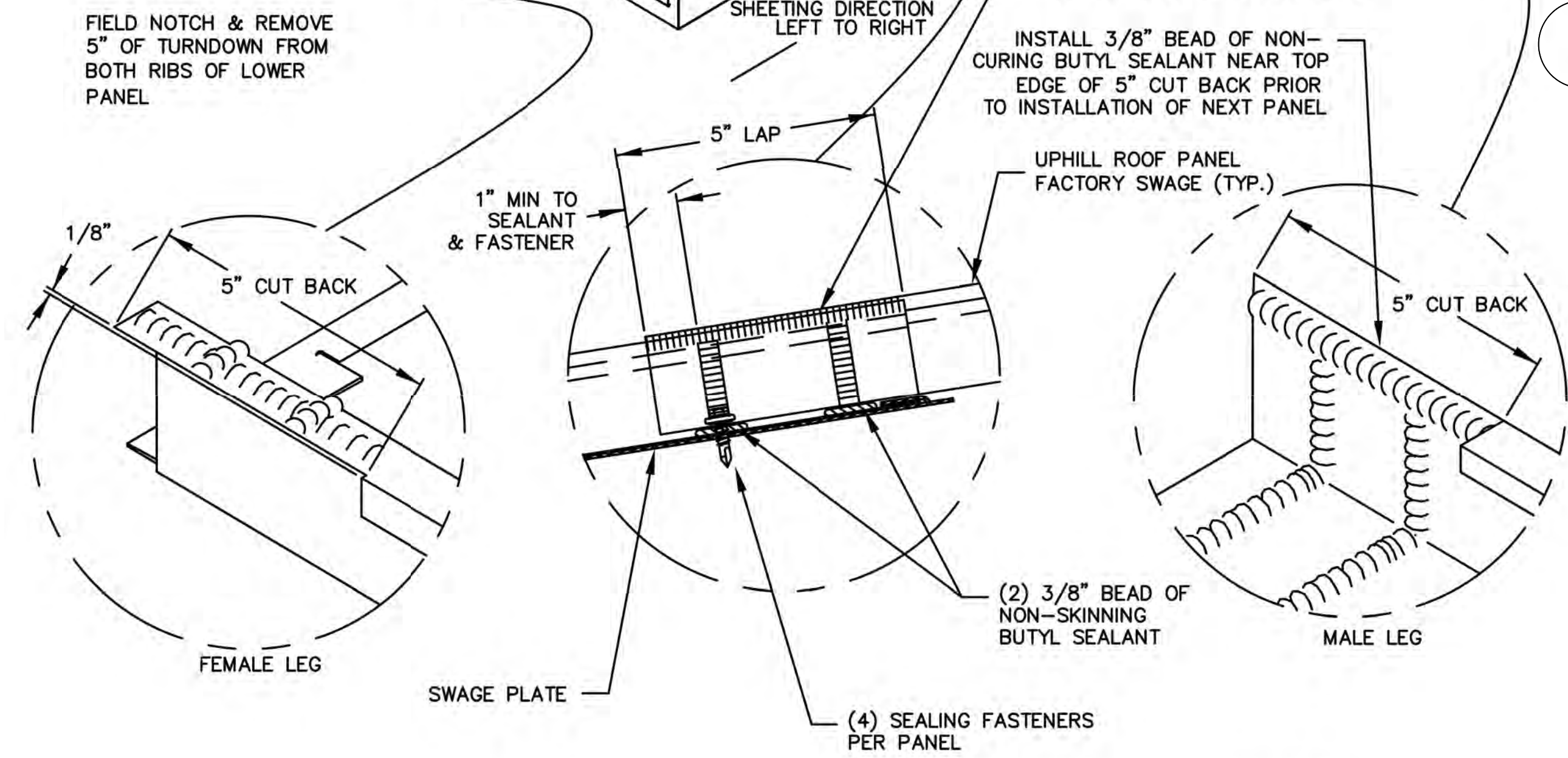
4 ENLARGED RAKE EDGE
NOT TO SCALE



1 HARDI-PANEL TYP. PENETRATION
22x34 3" = 1'-0"
11x17 1-1/2" = 1'-0"

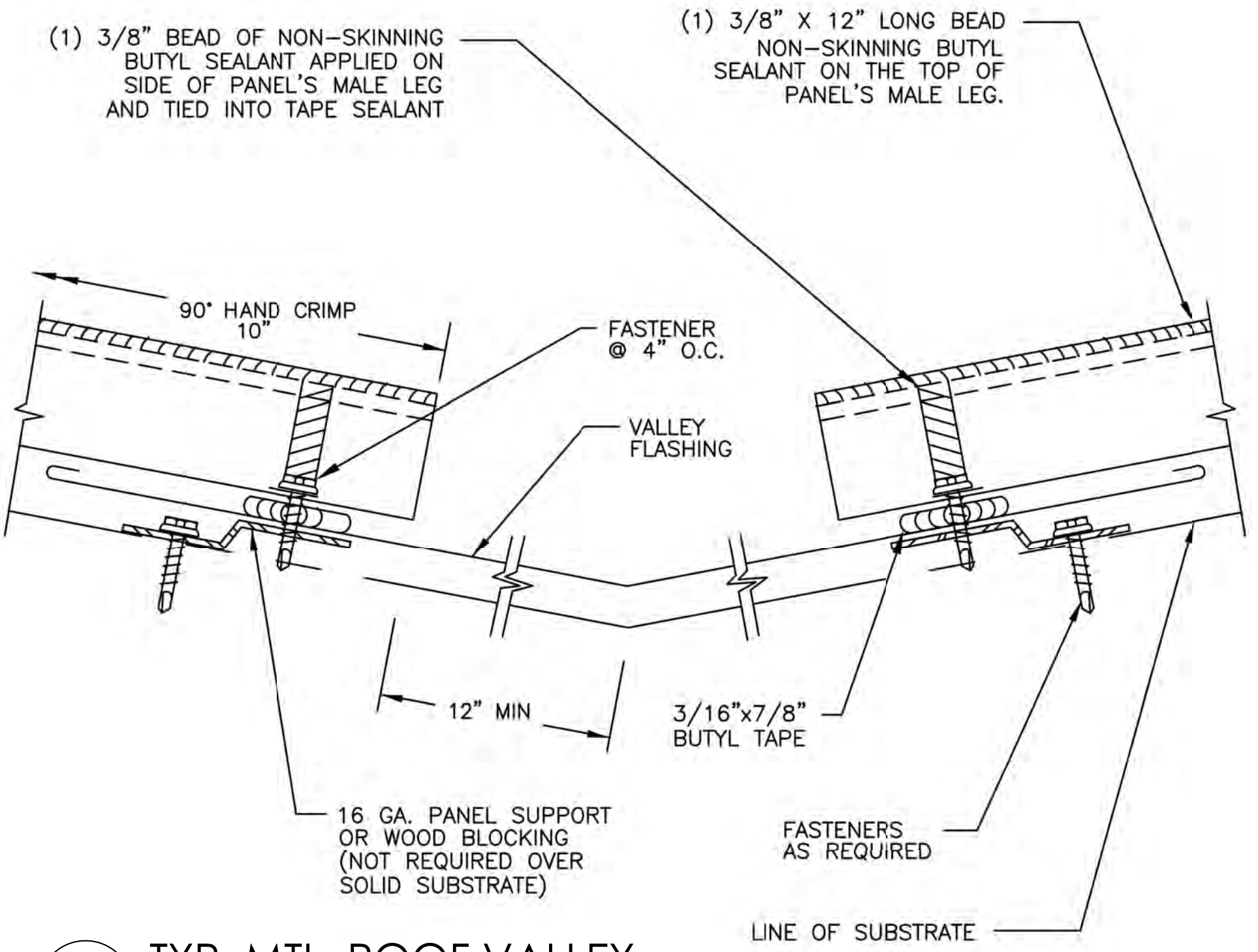


5 TYP. MTL. ROOF SEAM DTL.
NOT TO SCALE

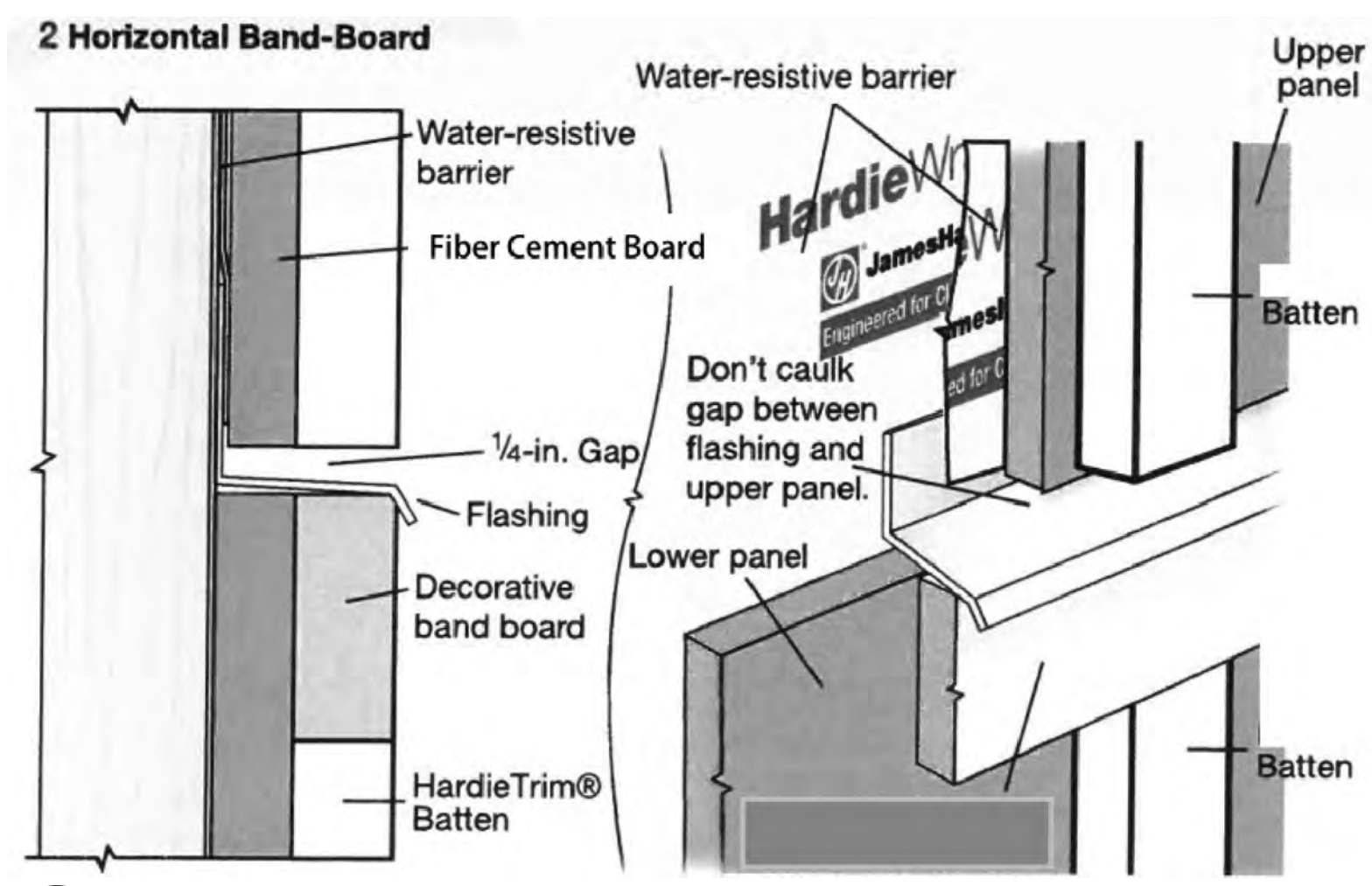


2 TYP. MTL. ROOF LAP DTL.
NOT TO SCALE

INSTALLATION NOTE
END LAP OF ADJACENT PANEL MUST BE STAGGERED AT LEAST ONE PURLIN SPACING OR A MIN. 24" TO PREVENT MATERIAL BUILDUP AT LAPS



6 TYP. MTL. ROOF VALLEY
NOT TO SCALE



3 ENLARGED SIDING DETAIL
NOT TO SCALE

CAD NO.		DATE
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		REVISIONS
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CHECKED (HDOTS)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK
DAY USE BUILDING
TYPICAL SIDING AND ROOF DETAILS

A6.0



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SHEET 17 OF 56

SCALE
BID SET
PARKS FILE#

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 2018 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	PARTITION LOAD	CONCENTRATED LOADS
ROOF	15 PSF	25 PSF		300#
OFFICE	40 PSF	50 PSF	+15 PSF	2,000#
ASSEMBLY	40 PSF	100 PSF		

(1) LIVE LOADS EXCEPT SNOW LOADS ARE REDUCED PER IBC SECTION 1607.10.

SNOW: (MINIMUM ROOF SNOW LOAD = 25 PSF)

P_g = 25 PSF = GROUND SNOW LOAD
 P_f = 0.7C_eC_t I_sP_g = FLAT ROOF SNOW LOAD
 P_s = C_sP_f = SLOPED ROOF SNOW LOAD
 I_s = 1.0 C_e = 1.0, C_t = 1.0, C_s = VARIES

LATERAL FORCES

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

WIND:

THE BUILDING MEETS THE CRITERIA TO USE THE "ENCLOSED, PARTIALLY ENCLOSED AND OPEN BUILDING OF ALL HEIGHTS PROCEDURE" PER ASCE 7-16.

- EXPOSURE CATEGORY = C
- BASIC WIND SPEED, (3 SEC. GUST), V_{ULT} = 97 MPH
- RISK CATEGORY PER TABLE 1.5-1 = II
- TOPOGRAPHIC FACTOR K_z = 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 3					
		ALL ZONES	1	2e	2n	2r	3e
10 SF	16.0	-33.7	-33.7	-53.8	-53.8	-62.7	-53.8
20 SF	16.0	-33.7	-33.7	-47.1	-47.1	-52.8	-47.1
50 SF	16.0	-29.0	-29.0	-38.3	-38.3	-39.7	-38.3
100 SF	16.0	-25.4	-25.4	-31.6	-31.6	-39.7	-31.6

WALL SURFACES 1				
EFFECTIVE WIND AREA	POSITIVE PRESSURE (PSF)		NEGATIVE PRESSURE (PSF)	
	ZONE 2			
	4	5	4	5
10 SF	23.7	23.7	-25.7	-31.7
20 SF	22.6	22.6	-24.6	-29.6
50 SF	21.2	21.2	-23.2	-26.7
100 SF	20.1	20.1	-22.1	-24.6
500 SF	17.7	17.7	-19.7	-19.7

ROOF OVERHANGS 1						
EFFECTIVE WIND AREA	NEGATIVE PRESSURE (PSF)					
	ZONE 3					
	1	2e	2n	2r	3e	3r
10 SF	-43.7	-43.7	-63.8	-63.8	-80.4	-75.8
20 SF	-43.7	-43.7	-59.7	-59.7	-67.2	-66.1
50 SF	-42.4	-42.4	-54.3	-54.3	-49.8	-53.2
100 SF	-41.4	-41.4	-50.2	-50.2	-49.8	-43.4
500 SF	-39.7	-39.7	-47.8	-47.8	-49.8	-37.7

- VALUES SHOWN IN TABLE ARE GROSS ULTIMATE WIND PRESSURES.
- WALL ZONES ARE AS DEFINED BY FIGURE 30.3-1 IN ASCE 7-16 IN LOW RISE BUILDINGS.
- ROOF ZONES ARE AS DEFINED BY FIGURES 30.3-2 THROUGH 30.3-7 IN ASCE 7-16 FOR LOW RISE BUILDINGS.

SEISMIC: (ASCE 7-16) V = C_sW

WHERE C_s = $\frac{S_{DS}}{(R/I_e)}$; WITH
 C_s MINIMUM = 0.044 S_{DS}I_E ≥ 0.01
 OR
 C_s MINIMUM = $\frac{0.5S}{R/I_e}$ FOR S₁ > 0.6g
 C_s MAXIMUM = $\frac{S_{D1}}{T(R/I_e)}$ FOR T ≤ T_L
 OR
 C_s MAXIMUM = $\frac{S_{D1}T_L}{T^2(R/I_e)}$ FOR T > T_L

SEISMIC IMPORTANCE FACTOR, I_e = 1.0
 RISK CATEGORY OF BUILDING PER IBC TABLE 1604.5 = II
 SPECTRAL RESPONSE ACCELERATIONS S_s = 1.483 S₁ = 0.521
 SITE CLASS PER TABLE 20.3-1 = D
 DESIGN SPECTRAL RESPONSE ACCELERATIONS S_{DS} = 0.989 & S_{D1} = 0.660
 SEISMIC DESIGN CATEGORY = D
 W = EFFECTIVE SEISMIC WEIGHT OF BUILDING = DAY USE 213K
 ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE PROCEDURE
 RESPONSE MODIFICATION FACTOR PER TABLE 12.2-1, R = 6.5
 C_s = 0.152
 DESIGN BASE SHEAR V = DAY USE 35.1K

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 (SOILS REPORT BY ASSOCIATED EARTH SCIENCES INCORPORATED DATED SEPTEMBER 30, 2019 AND ADDENDUM LETTER DATED MAY 5, 2021).

SOIL BEARING PRESSURE: 2500 PSF

ACTIVE PRESSURE - RESTRAINED: 50 PCF +14H SEISMIC SURCHARGE
 ACTIVE PRESSURE - UNRESTRAINED: 35 PCF +6H SEISMIC SURCHARGE
 PASSIVE RESISTANCE: 200 PCF (INCLUDES F.O.S. ≥ 1.5)
 COEFFICIENT OF FRICTION: .35 (INCLUDES F.O.S. ≥ 1.5)
 *1/3 INCREASE ALLOWED FOR SEISMIC OR WIND LOADING

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

FREE DRAINING BACKFILL MATERIAL FOR RETAINING & BASEMENT WALLS

A CLEAN, FREE DRAINING, WELL GRADED GRANULAR MATERIAL CONFORMING TO ASTM D2487 GW OR SW WHOSE MAXIMUM PARTICLE SIZE DOES NOT EXCEED 3/4" AND WHOSE FINES CONTENT (MATERIAL PASSING THE NO. 200 SIEVE) DOES NOT EXCEED 5%,

WITH A MAXIMUM DUST RATIO $\frac{\% \text{ PASSING U.S. NO. 200 SIEVE}}{\% \text{ PASSING U.S. NO. 40 SIEVE}} = 2/3 \text{ MAX.}$

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%.

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

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

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

WATER: SHALL BE CLEAN AND POTABLE.

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

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

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

ITEM	DESIGN F _c (PSI) (AT 28 DAYS U.N.O.)	MAX. W/C RATIO	MIN. FLYASH OR SLAG (PCY)	AGGREGATE GRADING ASTM AASHTO	NOTES
SLAB ON GRADE - EXPOSED TO WEATHER	5000	0.40	100	57 OR 67	1
SLABS ON GRADE - UNO	4000	0.45	100	57 OR 67	1
ARCHITECTURALLY EXPOSED SLABS ON GRADE	4000	0.45	100	57 OR 67	1, 2, 3
FOUNDATIONS - UNO	3000	0.50	--	57 OR 67	
STEM WALLS AND OTHER WALLS EXPOSED TO EARTH OR WEATHER	4500	0.45	100	57 OR 67	
STEM WALLS AND OTHER WALLS - UNO	4000	0.50	100	57 OR 67	
ALL OTHER CONCRETE	4000	0.50	--	57 OR 67	

STRUCTURAL DRAWING INDEX	
SHEET NUMBER	SHEET DESCRIPTION
S0.01	GENERAL NOTES
S0.02	GENERAL NOTES
S0.03	GENERAL NOTES
S0.04	GENERAL NOTES
S0.05	GENERAL NOTES
S2.01	FOUNDATION PLAN
S2.11	FLOOR FRAMING PLAN
S2.21	ROOF FRAMING PLAN
S3.01	FOUNDATION DETAILS
S3.02	FOUNDATION DETAILS
S3.03	FOUNDATION DETAILS
S4.01	FRAMING DETAILS
S4.02	FRAMING DETAILS
S4.03	FRAMING DETAILS
S4.04	FRAMING DETAILS
S4.05	ROOF FRAMING DETAILS
S4.06	ROOF FRAMING DETAILS
S4.07	FLOOR FRAMING DETAILS
S5.01	TRUSS ELEVATION AND DETAILS
S5.02	TRUSS ELEVATION AND DETAILS
S5.03	TRUSS ELEVATION AND DETAILS
Grand total: 21	

CAD NO.

DATE
APP.
INT.
REVISIONS
NO.

ACTION	BY	DATE
DESIGNED	JJP	NOV. 2023
DRAWN	TNM	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		



PROJECT ENGINEER



KOPACHUCK STATE PARK

DAY USE BUILDING

GENERAL NOTES

S0.01

SCALE

N/A

SHEET 18 of 56

BID SET

PARKS FILE#



CONCRETE MIX NOTES:

- FIBROUS CONCRETE REINFORCEMENT SHALL BE "FIBERMESH" MANUFACTURED BY PROPEX CONCRETE SYSTEMS OR PRE-APPROVED EQUAL AND SHALL CONFORM TO ASTM C1116 TYPE III 4.1.3, PERFORMANCE LEVEL 1, AND SHALL BE 100 PERCENT VIRGIN POLYPROPYLENE. FIBRILLATED FIBERS CONTAINING NO REPROCESSED OLEFIN MATERIALS AND SPECIFICALLY MANUFACTURED FOR USE AS CONCRETE SECONDARY REINFORCEMENT. DOSAGE SHALL FOLLOW MANUFACTURER'S RECOMMENDATION BUT NOT LESS THAN 1.5 LB/CU. YD.
- MAXIMUM WATER CONTENT 240 PCY.
- 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, HOSES 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.

FORMED SURFACES:

FORMWORK CLASS OF SURFACE PER ACI 347 TABLE 3.1	
ITEM	CLASS OF FINISH
ALL SURFACES EXPOSED TO PUBLIC VIEW, U.N.O.	A
ALL SURFACES RECEIVING A COURSE TEXTURED COATING SUCH AS PLASTER OR STUCCO, UNLESS NOTED OTHERWISE	B
ALL OTHER SURFACES, UNLESS NOTED OTHERWISE	C

COLD WEATHER PLACEMENT:

- 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."
- NO CONCRETE SHALL BE PLACED ON FROZEN OR PARTIALLY FROZEN GROUND. THAWING THE GROUND WITH HEATERS IS PERMISSIBLE.
- CONCRETE MIX TEMPERATURES SHALL BE AS SHOWN BELOW. HEATING OF WATER AND/OR AGGREGATES MAY BE REQUIRED TO ATTAIN THESE TEMPERATURES.
- 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.
- 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. 0° TO 30° F. BELOW 0° F.	60° 65° 70°	55° 60° 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°

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 0.2 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:

- LIMITING CONCRETE TEMPERATURE TO 100°F AT TIME OF PLACEMENT.
- APPLICATION OF AN EVAPORATION RETARDER.
- USE OF FOG SPRAY.
- REDUCTION OF POUR SIZE.
- 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 5 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:

- 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.
- BONDING AGENT: WHERE BONDING AGENT IS SPECIFICALLY CALLED OUT ON THE STRUCTURAL DRAWINGS USE "WELD CRETE" BY LARSON PRODUCTS CORPORATION OR PRE-APPROVED EQUAL. FOLLOW ALL MANUFACTURERS RECOMMENDATIONS.

EMBEDDED ITEMS

- NO ALUMINUM ITEMS SHALL BE EMBEDDED IN ANY CONCRETE.
- ALL EMBED PLATES SHALL BE SECURELY FASTENED IN PLACE.
- ALL EMBEDDED STEEL ITEMS EXPOSED TO EARTH SHALL BE GALVANIZED.
- ALL EMBEDDED STEEL ITEMS EXPOSED TO WEATHER SHALL BE PAINTED UNLESS NOTED AS GALVANIZED. SEE DRAWINGS AND SPECIFICATIONS FOR PAINT, PRIMER, AND GALVANIZING REQUIREMENTS.

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
ALL OTHER SLABS	1, (3 OR 4 OR 5)
FORMED SURFACES EXCLUDING FOUNDATIONS	2
ALL OTHER CONCRETE	NONE

CONCRETE CURING NOTES:

- 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.
- APPLY A LIQUID MEMBRANE FORMING CURING COMPOUND, CONFORMING TO ASTM C309 TYPE 1 CLASS B SPECIFICATIONS, PER MANUFACTURER'S RECOMMENDATIONS TO ALL FORMED SURFACES IMMEDIATELY AFTER FINAL FORM REMOVAL. NOT REQUIRED IF FORMWORK REMAINS IN PLACE FOR MORE THAN 7 DAYS.
- PROVIDE PRE-APPROVED CONTINUOUS WET CURE METHOD FOR A MINIMUM OF 14 DAYS.
- 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.
- 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-C821 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.

WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A185. LAP ONE FULL MESH ON SIDES AND ENDS BUT NOT LESS THAN 8 INCHES. WELDED WIRE REINFORCING SHALL BE SUPPORTED TO WITHSTAND CONCRETE PLACEMENT. PULLING OF MESH INTO PLACE AFTER PLACEMENT IS NOT ALLOWED.

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"
#9	7'-6"	5'-10"	5'-10"	4'-6"	1'-9"
#10	8'-6"	6'-6"	6'-6"	5'-0"	2'-0"
#11	9'-5"	7'-3"	7'-3"	5'-7"	2'-3"

SPLICE TABLE NOTES:

- "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"

STRUCTURAL STEEL

DETAILING, FABRICATION AND ERECTION

ALL WORKMANSHIP SHALL CONFORM TO THE AISC MANUAL OF STEEL CONSTRUCTION, 14TH EDITION, THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS JUNE 22, 2010, THE AISC CODE OF STANDARD PRACTICE, APRIL 14, 2010 AND THE AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS, JUNE 22, 2010.

STEEL MEMBERS ARE EQUALLY SPACED BETWEEN COLUMNS AND/OR DIMENSION POINTS UNLESS NOTED OTHERWISE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDES AND JOINT PREPARATIONS THAT INCLUDE BUT ARE NOT LIMITED TO, ERECTION ANGLES, LIFT HOLES, AND OTHER AIDES, WELDING PROCEDURES, REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, WELD EXTENSION TABS, COPES, SURFACE ROUGHNESS VALUES AND TAPERS OF UNEQUAL PARTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLIANCE WITH ALL CURRENT OSHA REQUIREMENTS.

HOLES, COPES OR OTHER CUTS OR MODIFICATIONS OF THE STRUCTURAL STEEL MEMBERS SHALL NOT BE MADE IN THE FIELD WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.

MATERIAL PROPERTIES

OTHER SHAPES AND PLATES: ASTM A36 (Fy = 36 KSI) TYP. U.N.O.; ASTM A572 (Fy = 50 KSI) WHERE INDICATED

HOLLOW STRUCTURAL SECTIONS: RECTANGULAR & SQUARE - ASTM A500 GRADE B (Fy = 46 KSI) ROUND - ASTM A500 GRADE B (Fy = 42 KSI)

MACHINE BOLTS (M.B.): ASTM A307, GRADE A

ANCHOR BOLTS (A.B.): ASTM F1554, GRADE 55, UNLESS OTHERWISE NOTED, ASTM F1554, GRADE 105 WHERE INDICATED.

CAD NO.

	DATE
	APP.
	INT.
	REVISIONS
	NO.

ACTION	BY	DATE
DESIGNED	JJP	NOV. 2023
DRAWN	TNM	NOV. 2023
CHECKED (FIELD)		
CHECKED (HQ/T.S.)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE BUILDING

GENERAL NOTES

S0.02

SCALE

N/A



SHEET 19 of 56

BID SET PARKS FILE#

C:_Revit Models\190116 Kopachuck St Park - Day Use v2018 (Central)_DanH+PCS.rvt 11/10/2023 5:58:30 PM

WELDING

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

REINFORCING STEEL: WELD IN ACCORDANCE WITH "REINFORCING STEEL WELDING CODE" AWS D1.4. WELD ONLY WITH SPECIFIC APPROVAL OF THE STRUCTURAL ENGINEER. IN NO CASE SHALL A WELD BE MADE WITHIN 6 BAR DIAMETERS OF A "COLD BEND".

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.

WELD TABS (ALSO KNOWN AS WELD "EXTENSION" TABS OR "RUN OFF" TABS) SHALL BE USED. AFTER THE WELD HAS BEEN COMPLETED THE WELD TABS SHALL BE REMOVED AND THE WELD END GROUND TO A SMOOTH CONTOUR. WELD "DAMS" OR "END DAMS" SHALL NOT BE USED.

THE PROCESS CONSUMABLES FOR ALL WELD FILLER METAL INCLUDING TACK WELDS, ROOT PASS AND SUBSEQUENT PASSES DEPOSITED IN A JOINT SHALL BE COMPATIBLE.

ALL WELD FILLER METAL AND WELD PROCESS SHALL PROVIDE THE TENSILE STRENGTH CHARPY V-NOTCH RATINGS AS FOLLOWS:

GRAVITY FRAME

WELD TYPE	FILLER METAL TENSILE STRENGTH	CHARPY V-NOTCH (CVN) RATING
FILLET	70 KSI	----
PARTIAL PENETRATION	70 KSI	----
COMPLETE PENETRATION	70 KSI	20 FT-LBS @ -20 DEG F

WELDED CONNECTIONS INSPECTION:

- ALL WELDING SHALL BE CHECKED BY VISUAL MEANS AND BY OTHER METHODS DEEMED NECESSARY BY THE WELDING INSPECTOR.

ALL WELDS FOUND TO BE DEFECTIVE SHALL BE REPAIRED AND REINSPECTED BY THE SAME METHODS ORIGINALLY USED, AND THIS REPAIR AND REINSPECTION SHALL BE PAID FOR BY THE CONTRACTOR

GENERAL REQUIREMENTS

BOLTED CONNECTIONS INSPECTION: CONNECTIONS MADE WITH BEARING TYPE BOLTS SHALL BE INSPECTED PER SECTION 9.1 OF RCSC SPECIFICATION.

ADHESIVE ANCHOR RODS: ASTM F1554, GRADE 36 UNLESS NOTED OTHERWISE.

FINISH: STRUCTURAL STEEL SHALL BE PRIMER PAINTED, UNLESS NOTED OTHERWISE, AND SHALL BE CLEAN OF LOOSE RUST, LOOSE MILL SCALE, OIL, GREASE AND OTHER FOREIGN SUBSTANCES AND SHALL MEET THE REQUIREMENTS OF SSPC-SP1. WHERE STRUCTURAL STEEL IS NOTED TO BE PAINTED, ALL AREAS COMPRISING THE FAYING SURFACES OF BOLTED CONNECTIONS MADE WITH SLIP-CRITICAL TYPE BOLTS (A325SC OR A490SC) SHALL COMPLY WITH THE REQUIREMENTS OF THE RCSC SPECIFICATION. WHERE STRUCTURAL STEEL IS NOTED TO BE GALVANIZED, IT SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123, A384, AND A385. ALL SURFACES WITHIN TWO INCHES OF ANY FIELD WELD LOCATION SHALL BE FREE OF MATERIALS THAT WOULD PREVENT PROPER WELDING OR PRODUCE OBJECTIONABLE FUMES. FIELD TOUCH-UP OF PRIMED, PAINTED, AND GALVANIZED SURFACES SHALL BE PERFORMED TO REPAIR COATING ABRASIONS, AS WELL AS TO PROTECT ALL AREAS AT CONNECTIONS.

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 CATEGORY 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=1.8X10⁶ PSI) AND DF COMBINATION 2 FOR COLUMNS.

TRUSSES SHALL HAVE A BALANCED LAY-UP FOR CHORDS AND COMBINATION 2 FOR WEBS.

MEMBERS INDICATED IN STRUCTURAL DRAWINGS AS "PPT" SHALL BE PRESERVATIVE PRESSURE TREATED COMBINATION 24F-V5 SOUTHERN PINE (SP) (Fb=2400 PSI, Fv=300 PSI, E=1.7X10⁶ PSI) AND SP COMBINATION 2 FOR COLUMNS.

PREMIUM APPEARANCE GRADE WHERE EXPOSED TO VIEW; INDUSTRIAL APPEARANCE WHERE NOT EXPOSED TO VIEW. ALL MEMBERS TO HAVE EXTERIOR GLUE AND HAVE AN APPROVED GRADE STAMP. CAMBER AS SHOWN ON STRUCTURAL DRAWINGS.

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)

- 6x BEAMS AND HEADERS. "DOUG FIR-LARCH" NO. 1 (Fb=1350 PSI, Fv=170 PSI)
- 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)
- 6x POSTS AND COLUMNS. "DOUG FIR-LARCH" NO. 1 (Fc=1000 PSI)
- 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).
- 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)
- 2x & 3x T&G DECKING: "DOUG FIR-LARCH" COMMERCIAL (Fb=1450 PSI, E=1700 KSI)
- 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).
- 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.

MINIMUM DESIGN VALUES:

- 2x SCL: Fb = 1700 PSI, Fv = 285 PSI, E = 1300 KSI
- 1-3/4" SCL: Fb = 2600 PSI, Fv = 285 PSI, E = 1800 KSI
- 3-1/2" SCL: Fb = 2900 PSI, Fv = 285 PSI, E = 2000 KSI
- 5-1/4" SCL: Fb = 2900 PSI, Fv = 285 PSI, E = 2000 KSI
- 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)	

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

LAG SCREWS: SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1. LAG SCREWS SHALL BE OF A DIAMETER INDICATED ON DRAWINGS WITH A MINIMUM OF 8x DIA. EMBEDMENT IN SUPPORTING MEMBER UNLESS NOTED OTHERWISE. CLEARANCE HOLE FOR THE SHANK SHALL BE THE SAME DIAMETER AS THE SHANK AND THE SAME DEPTH OF PENETRATION AS THE UNTHREADED PORTION OF THE SHANK. THE LEAD HOLE FOR THE THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 60 TO 75 PERCENT OF THE SHANK DIAMETER AND A LENGTH EQUAL TO AT LEAST THE LENGTH OF THE THREADED PORTION. THE THREADED PORTION OF THE SCREW SHALL BE INSERTED IN ITS LEAD HOLE BY TURNING WITH A WRENCH. SOAP OR OTHER LUBRICANT SHALL BE USED ON THE SCREWS OR IN THE LEAD HOLE TO FACILITATE INSERTION AND PREVENT DAMAGE TO THE SCREW. LAG SCREWS SHALL NOT BE DRIVEN WITH A HAMMER. 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 STRUCTURAL 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 STRUCTURAL 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.

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ACTION	BY	DATE
DESIGNED	JJP	NOV. 2023
DRAWN	TNM	NOV. 2023
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CHECKED (HQDTS.)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

DAY USE BUILDING

GENERAL NOTES

S0.03

SCALE

N/A



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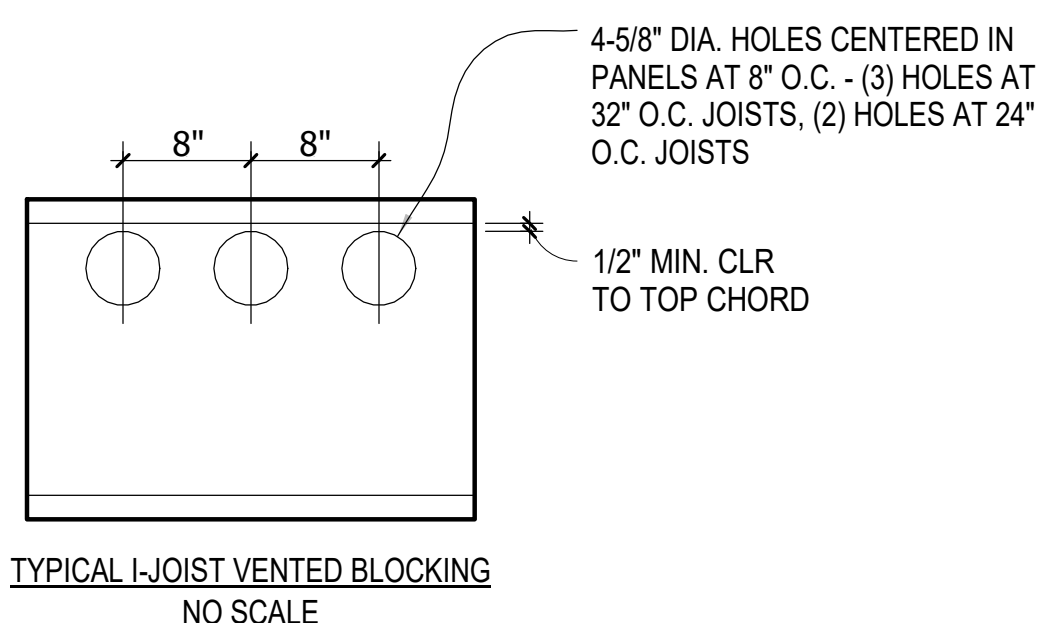
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TRUSS DESIGN CALCULATIONS SHALL BE PROVIDED FOR STANDARD LOADING ALONG WITH DESIGN CHECKS FOR SPECIAL LOADING CONDITIONS WHICH INCLUDE FREE BODY DIAGRAMS, LOADING BREAK DOWN, DESCRIPTION OF LOADS (I.E. MECH UNIT, SUSPENDED WALL, ETC.) AND THE RATIONALE 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 STRUCTURAL ENGINEER LICENSED IN THE STATE OF PROJECT. THE ENTIRE 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. 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. TOP CHORD AT STRAP CONNECTIONS TO CONCRETE OR MASONRY WALLS SHALL BE COMPOSED OF A STRUCTURAL COMPOSITE LUMBER MEMBER APPROVED BY A CURRENT EVALUATION REPORT FOR SUCH A USE OR AT CONTRACTORS OPTION, STRAP NAIL HOLES SHALL BE PRE-DRILLED IN CHORD. PROVIDE SHOP AND INSTALLATION DRAWINGS AND CALCULATIONS PRODUCED UNDER THE SUPERVISION OF AND BEARING THE STAMP OF A STRUCTURAL 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.



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. STRUCTURAL STEEL	X	
4. MISCELLANEOUS STEEL	X	X
5. GLU-LAMINATED MEMBERS	X	X
6. STRUCTURAL COMPOSITE LUMBER	X	X
7. WOOD I-JOISTS	X	X
8. METAL-PLATE-CONNECTED WOOD TRUSSES	X	X
9. CONDUIT EMBEDDED IN CONCRETE	X	X
10. 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 I-JOISTS	<PE>
2. METAL-PLATE-CONNECTED WOOD TRUSSES	<PE>
3. FALL RESTRAINTS	<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:

STATEMENT OF SPECIAL INSPECTIONS:

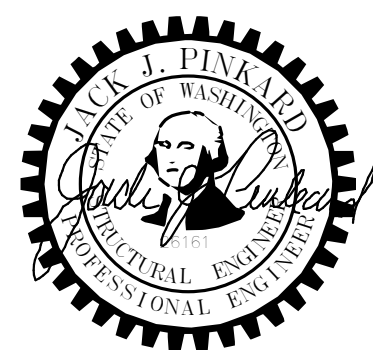
SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED PER THE REQUIREMENTS OF IBC SECTION 1704 AND 1705 AND AS NOTED HEREIN.

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		
STEEL CONSTRUCTION	MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS		X		AISC 360 CHAPTER N5
	MATERIAL VERIFICATION OF STRUCTURAL STEEL		X	MANUFACTURER TO PROVIDE CERTIFIED MILL TEST REPORTS	AISC 360 CHAPTER N5 AISC 341 CHAPTER J6
	A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360		X		
	B. MANUFACTURER'S CERTIFIED MILL TEST REPORTS		X		
	MATERIAL VERIFICATION OF WELD FILLER MATERIALS		X	MANUFACTURER TO PROVIDE CERTIFICATE OF COMPLIANCE	AISC 360 CHAPTER N5
	A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATIONS LISTED IN GENERAL NOTES		X		
	B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE		X		
INSPECTION OF WELDING		X		SPECIAL INSPECTIONS IN THIS SECTION ARE WAIVED WHERE FABRICATION IS PERFORMED ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED IN ACCORDANCE WITH IBC SECTION 1704.2.5	AISC 360 CHAPTER N5 AISC 341 CHAPTER J6 AWS D1.1
A. COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS	X				
B. MULTI-PASS FILLET WELDS	X				
C. SINGLE-PASS FILLET WELDS > 5/16"	X				
D. PLUG AND SLOT WELDS	X				
E. SINGLE-PASS FILLET WELDS ≤ 5/16"		X			
F. FIELD-INSTALLED WELDED STUDS		X			
G. WELDING OF STAIRS AND RAILING SYSTEMS		X			
INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS			X		
CONCRETE	REINFORCING STEEL AND PLACEMENT		X	SPECIAL INSPECTIONS NOT REQUIRED FOR THE FOLLOWING CONDITIONS:	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	NON-STRUCTURAL SLAB ON GRADE	ACI 318: 17.8.2 AISC 360 SECTION N7
	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 ACI 318: 26.4, 26.12 IBC 1908.10
	MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X		ACI 318: 26.5.3 TO 26.5.5 IBC 1908.9
	VERIFICATION OF IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS		X		ACI 318: 26.11.2
	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		X		ACI 318: 26.11.1.2(b)
	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 AWS D1.4 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
	SUSPENDED CEILINGS	ANCHORAGE AND SEISMIC BRACING		X	
CLADDING, AND NON-BEARING WALLS	ERECTION AND FASTENING		X	NOT REQUIRED FOR STRUCTURES ≤ 30 FT OR CLADDING OR VENEER ≤ 5 PSF OR INTERIOR NON-BEARING WALLS ≤ 15 PSF	IBC 1705.12.5

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ACTION	BY	DATE
DESIGNED	JJP	NOV. 2023
DRAWN	TNM	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE BUILDING

GENERAL NOTES

S0.04

SCALE

N/A



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BID SET

PARKS FILE#

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
CL	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 ø	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.SHT'G	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.S.	FACE OF STUD	T.O.F.	TOP OF FOOTING
FRM'G	FRAMING	T.O.S.	TOP OF STEEL
F.R.T.	FIRE RETARDANT TREATED	TRT'D	TREATED
F.S.	FAR SIDE	TYP.	TYPICAL
FTG	FOOTING	U.N.O.	UNLESS NOTED OTHERWISE
GA.	GAGE/GAUGE	U.T.	ULTRASONIC TESTED
GALV.	GALVANIZED	VERT.	VERTICAL
GL.	GLULAM	W/	WITH
GR.	GRADE	W.P.	WORK POINT
GWB	GYPSON WALL BOARD	WT	WEIGHT
HDR	HEADER	W.W.R.	WELDED WIRE REINFORCING

CAD NO.

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		REVISIONS
		NO.

ACTION	BY	DATE
DESIGNED	JJP	NOV. 2023
DRAWN	TNM	NOV. 2023
CHECKED (FIELD)		
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PROJECT ENGINEER

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION



KOPACHUCK
STATE PARK

DAY USE
BUILDING

GENERAL NOTES

S0.05

SCALE

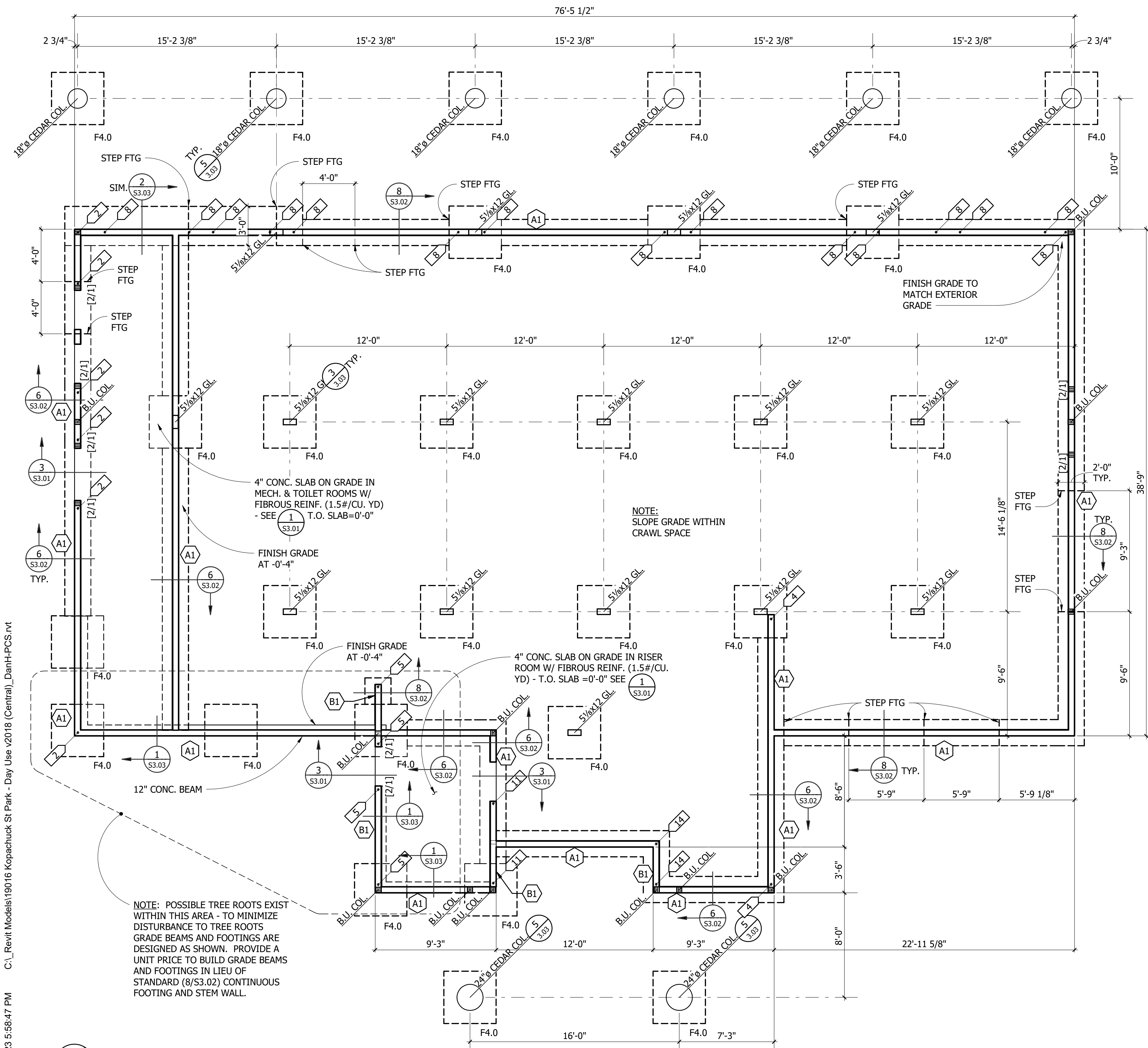
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SHEET 22 of 56

BID SET

PARKS FILE#



FOUNDATION NOTES

- COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. FINISH FLOOR = 0'-0" ABOVE FINISH FLOOR UNLESS NOTED OTHERWISE.
- INDICATES WOOD STUD WALL. WOOD STUDS SHOULD ALIGN WITH TRUSS LAYOUT AND BE SPACED @ 16" ON CENTER MAXIMUM UNLESS NOTED OTHERWISE. PROVIDE 15/32" WOOD SHEATHING AT ALL EXTERIOR WALLS NAILED WITH 8d @ 6" ON CENTER AT ALL PANEL EDGES (PROVIDE 2x BLOCKING AT UNSUPPORTED PANEL EDGES) AND 8d @ 12" ON CENTER AT INTERMEDIATE FRAMING TYPICAL UNLESS NOTED OTHERWISE.
- INDICATES CONCRETE WALL FOOTING 1'-6" UNLESS NOTED OTHERWISE. SEE S3.01 AND S3.02 FOR TYPICAL FOOTING DETAILS.
- "F_" INDICATES CONCRETE SPREAD FOOTING. SEE 7/S3.02 FOR SCHEDULE.
- INDICATES WOOD STUD BUILT-UP COLUMN. SEE 4/S4.01 FOR TYPICAL DETAIL.
- [] INDICATES SPECIAL BUILT-UP WOOD STUD COLUMN REQUIREMENTS UNDER HEADER. FOR TYPICAL FRAMING REQUIREMENTS AT OPENING IN STRUCTURAL WALLS SEE S4.01 FOR TYPICAL DETAIL.
- INDICATES SPECIAL WOOD STUD WALL TYPE. SEE 3/S4.01 FOR SCHEDULE.
- INDICATES HOLDOWN. SEE 1/S4.03 FOR SCHEDULE.
- FOR TYPICAL CONCRETE SLAB-ON-GRADE DETAILS SEE S3.01 AND S3.02.
- FOR TYPICAL PLACEMENT OF STEM WALL REINFORCEMENT, STEPS IN FOOTING AND FOUNDATION CONSTRUCTION JOINTS SEE DETAILS 3/S3.02, 1/S3.02 AND 5/S3.02.
- FOR TYPICAL EXCAVATION LIMITATIONS IN THE PROXIMITY OF FOUNDATIONS SEE DETAIL 2/S3.02.
- FOR TYPICAL VERTICAL PIPE PENETRATIONS IN STEM WALLS SEE 5/S4.02.
- NON-STRUCTURAL STUD WALLS ARE NOT SHOWN OR SHOWN SCREENED. FOR LOCATION SEE ARCHITECTURAL DRAWINGS. FOR BRACING AT TOPS OF WALLS SEE S4.04.

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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

DAY USE BUILDING

FOUNDATION PLAN

S2.01

SCALE

AS NOTED



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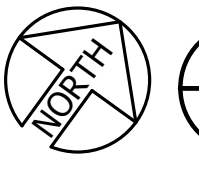
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C:_Revit Models\190116 Kopachuck St Park - Day Use v2018 (Central)_DanH+PCS.rvt

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FOUNDATION PLAN
S2.01 1/4" = 1'-0"



NOTE: SLOPE GRADE WITHIN CRAWL SPACE

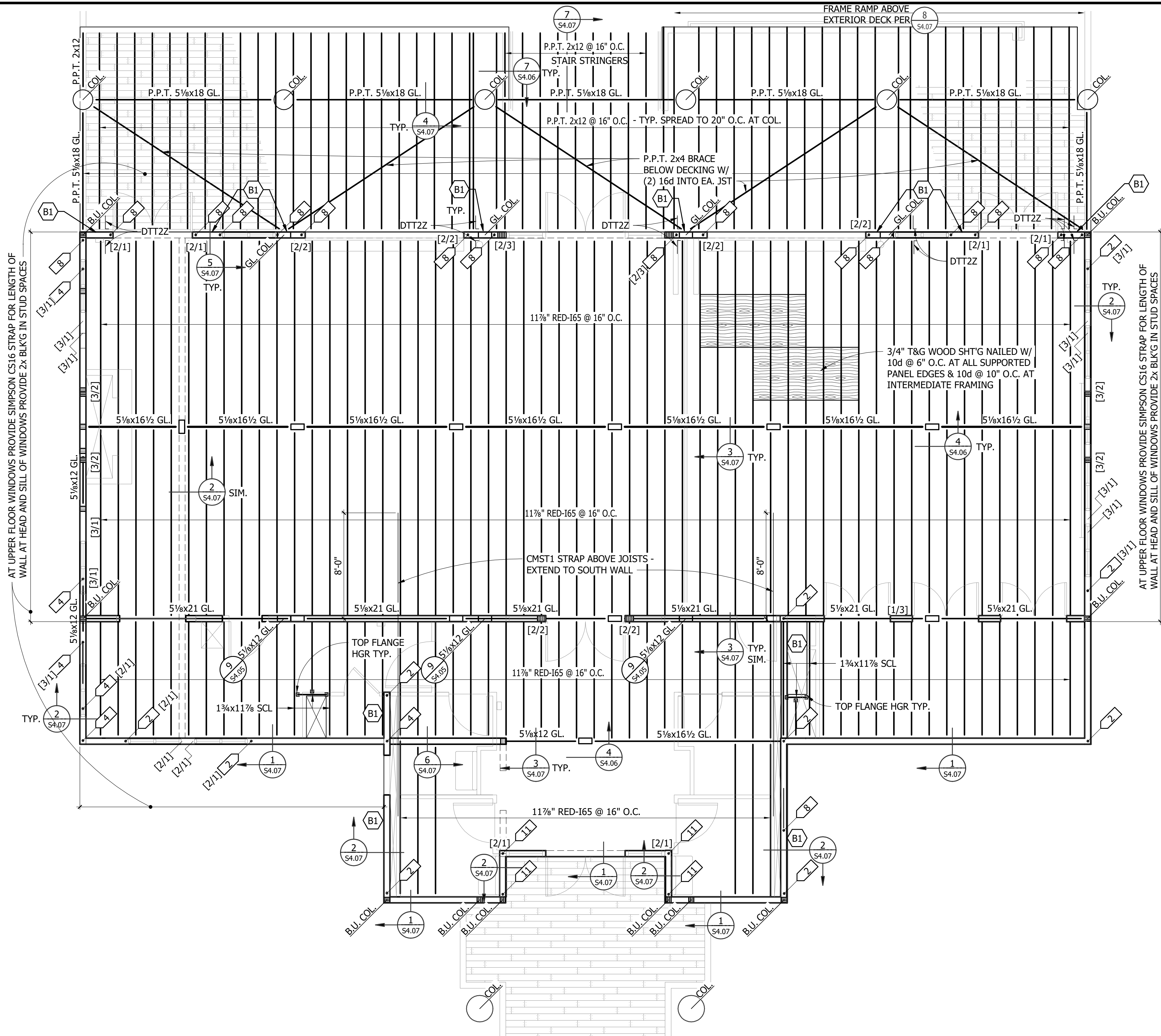
4" CONC. SLAB ON GRADE IN MECH. & TOILET ROOMS W/ FIBROUS REINF. (1.5#/CU. YD) - SEE 1/S3.01 T.O. SLAB=0'-0"

4" CONC. SLAB ON GRADE IN RISER ROOM W/ FIBROUS REINF. (1.5#/CU. YD) - T.O. SLAB =0'-0" SEE 1/S3.01

NOTE: POSSIBLE TREE ROOTS EXIST WITHIN THIS AREA - TO MINIMIZE DISTURBANCE TO TREE ROOTS GRADE BEAMS AND FOOTINGS ARE DESIGNED AS SHOWN. PROVIDE A UNIT PRICE TO BUILD GRADE BEAMS AND FOOTINGS IN LIEU OF STANDARD (8/S3.02) CONTINUOUS FOOTING AND STEM WALL.



1 FLOOR FRAMING PLAN
S2.11 1/4" = 1'-0"



FLOOR FRAMING NOTES

- COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. FINISH FLOOR = 0'-0" ABOVE FINISH FLOOR UNLESS NOTED OTHERWISE.
- INDICATES WOOD STUD WALL. WOOD STUDS SHOULD ALIGN WITH TRUSS LAYOUT AND BE SPACED @ 16" ON CENTER MAXIMUM UNLESS NOTED OTHERWISE. PROVIDE 15/32" WOOD SHEATHING AT ALL EXTERIOR WALLS NAILED WITH 8d @ 6" ON CENTER AT ALL PANEL EDGES (PROVIDE 2x BLOCKING AT UNSUPPORTED PANEL EDGES) AND 8d @ 12" ON CENTER AT INTERMEDIATE FRAMING TYPICAL UNLESS NOTED OTHERWISE.
- INDICATES WALL EXTENDING TO FLOOR STRUCTURE.
- INDICATES TYPICAL HEADER IN WALL BELOW. SEE 1/S4.01.
- INDICATES WOOD STUD BUILT-UP COLUMN. SEE 4/S4.01 FOR TYPICAL DETAIL.
- INDICATES SPECIAL BUILT-UP WOOD STUD COLUMN REQUIREMENTS UNDER HEADER. FOR TYPICAL FRAMING REQUIREMENTS AT OPENING IN STRUCTURAL WALLS SEE S4.01 FOR TYPICAL DETAIL.
- INDICATES SPECIAL WOOD STUD WALL TYPE. SEE 3/S4.01 FOR SCHEDULE.
- INDICATES HOLDOWN. SEE 1/S4.03 FOR SCHEDULE.
- PROVIDE 3/4" TONGUE & GROOVE WOOD SHEATHING OVER ENTIRE FLOOR STRUCTURE. NAIL WOOD FLOOR SHEATHING WITH 8d @ 6" ON CENTER AT ALL SUPPORTED PANEL EDGES AND 8d @ 10" ON CENTER AT INTERMEDIATE FRAMING. TYPICAL UNLESS NOTED OTHERWISE.
- FOR SUPPORT OF MISCELLANEOUS MECHANICAL EQUIPMENT AND PIPES FROM FLOOR STRUCTURE SEE S4.04.
- NON-STRUCTURAL STUD WALLS ARE NOT SHOWN OR SHOWN SCREENED. FOR LOCATION SEE ARCHITECTURAL DRAWINGS. FOR BRACING AT TOPS OF WALLS SEE S4.04.

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KOPACHUCK STATE PARK

DAY USE BUILDING

FLOOR FRAMING PLAN

S2.11

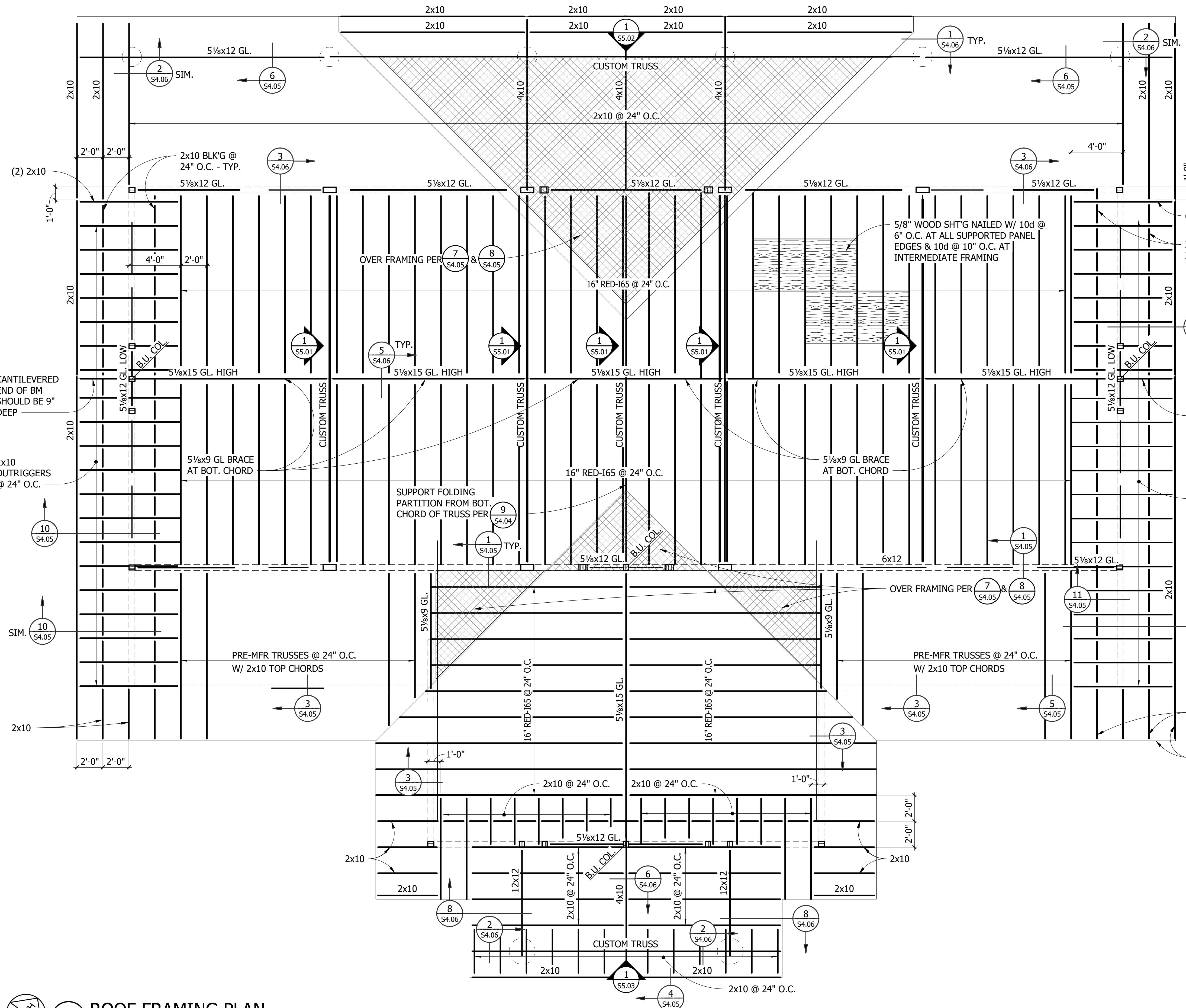
SCALE AS NOTED

SHEET 24 of 56



BID SET PARKS FILE#



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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/S4.01.
- 4. PROVIDE 5/8" WOOD SHEATHING WITH PLYCLIPS 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. FOR SUPPORT OF MISCELLANEOUS MECHANICAL EQUIPMENT AND PIPES FROM ROOF STRUCTURE SEE S4.04.
- 6. FOR SUPPORT OF FOLDING PARTITIONS SEE 9/S4.04.

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KOPACHUCK STATE PARK

DAY USE BUILDING

ROOF FRAMING PLAN

S2.21

SCALE: AS NOTED

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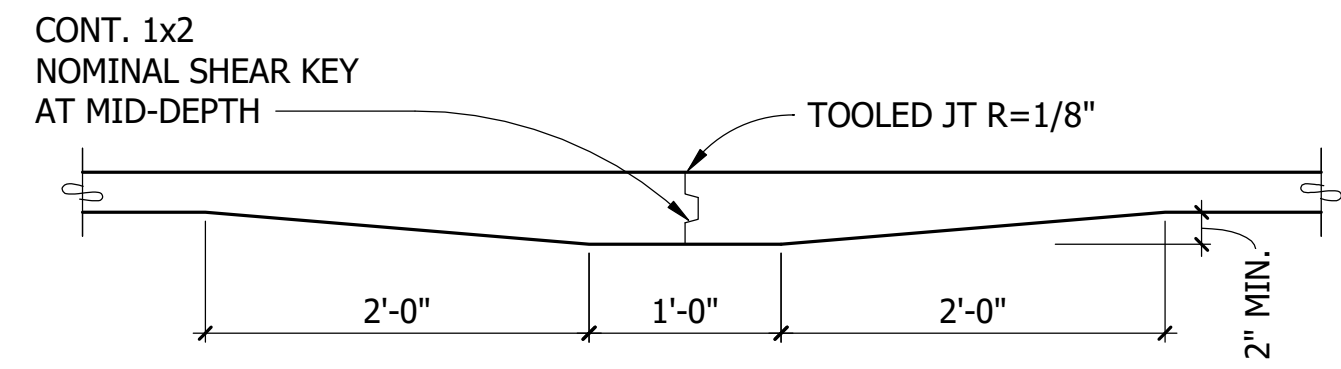
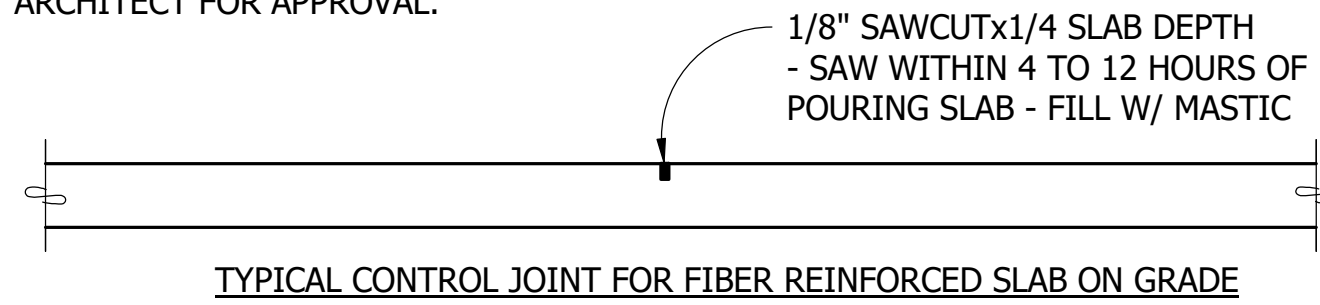
BID SET

PARKS FILE#

ROOF FRAMING PLAN
 1/S2.21 1/4" = 1'-0"

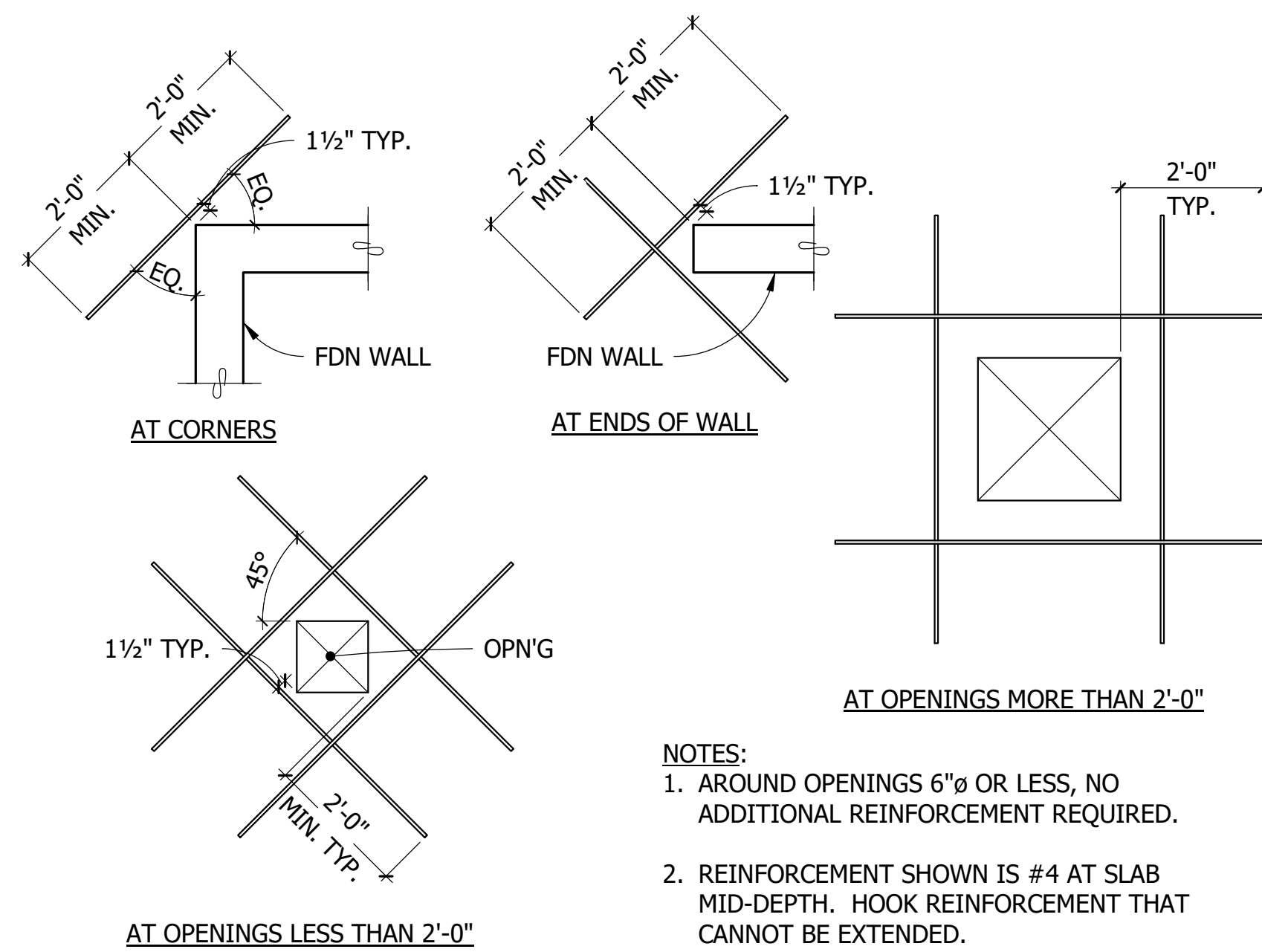


NOTE:
LOCATE JOINT'S AT NON-BEARING WALLS
WHERE POSSIBLE - SUBMIT PATTERN TO
ARCHITECT FOR APPROVAL.



TYPICAL CONSTRUCTION JOINT FOR FIBER REINFORCED SLAB ON GRADE

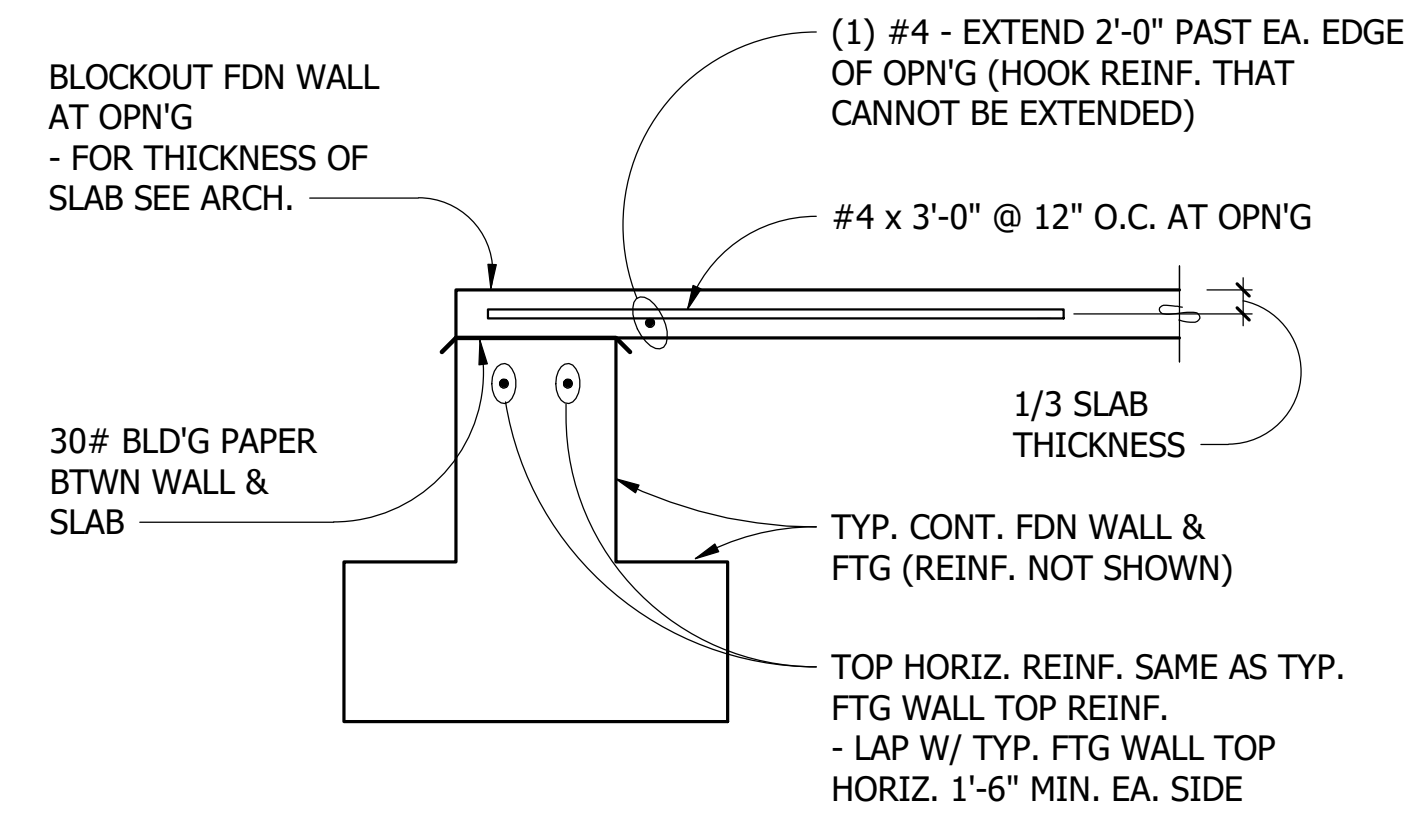
1 SECTION
S3.01 NO SCALE



- 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

4 SECTION
S3.01 NO SCALE



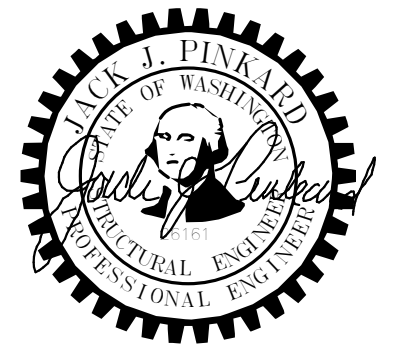
TYPICAL FIBER REINFORCED SLAB AT EXTERIOR OPENING

3 SECTION
S3.01 NO SCALE

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PROJECT ENGINEER

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KOPACHUCK
STATE PARK

DAY USE
BUILDING

FOUNDATION DETAILS

S3.01

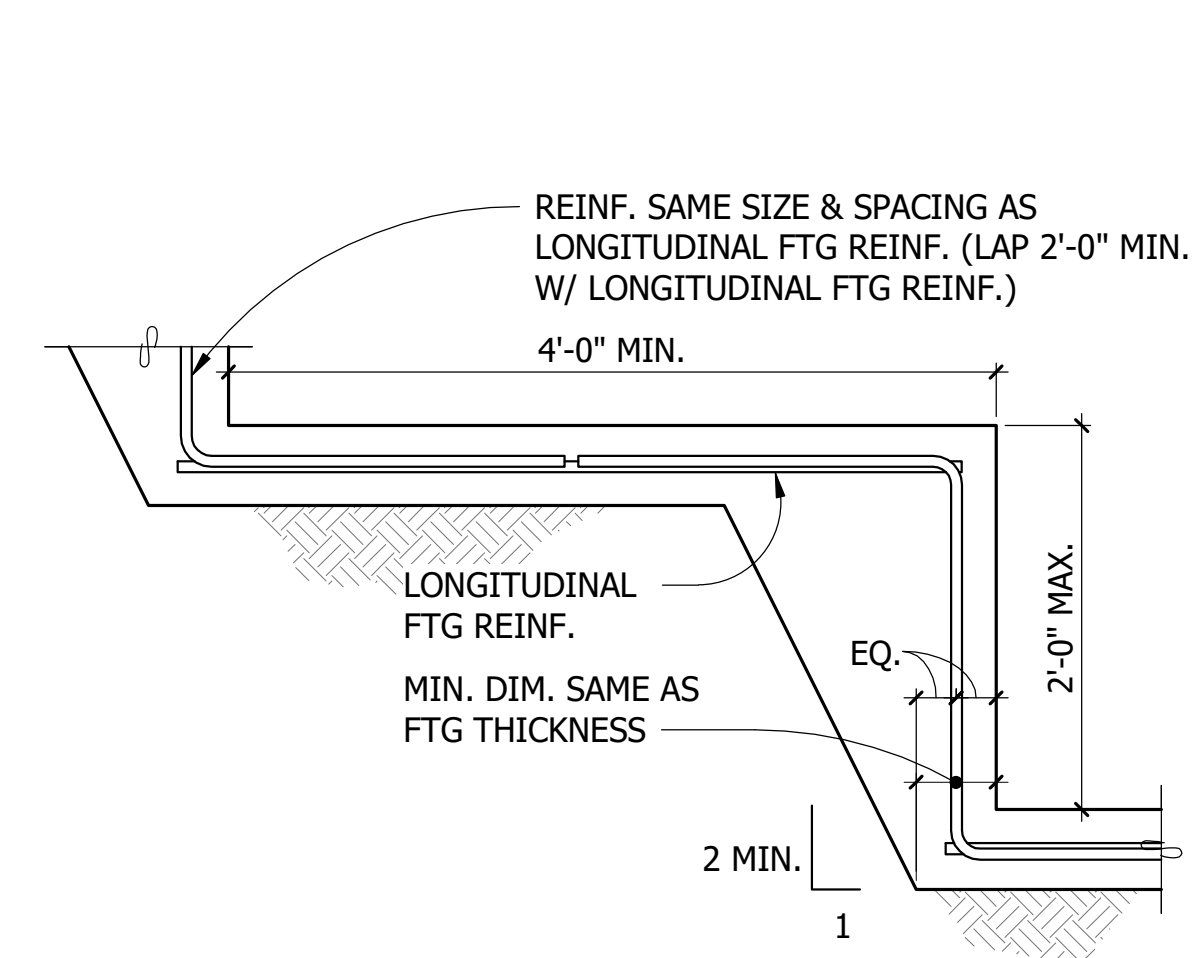
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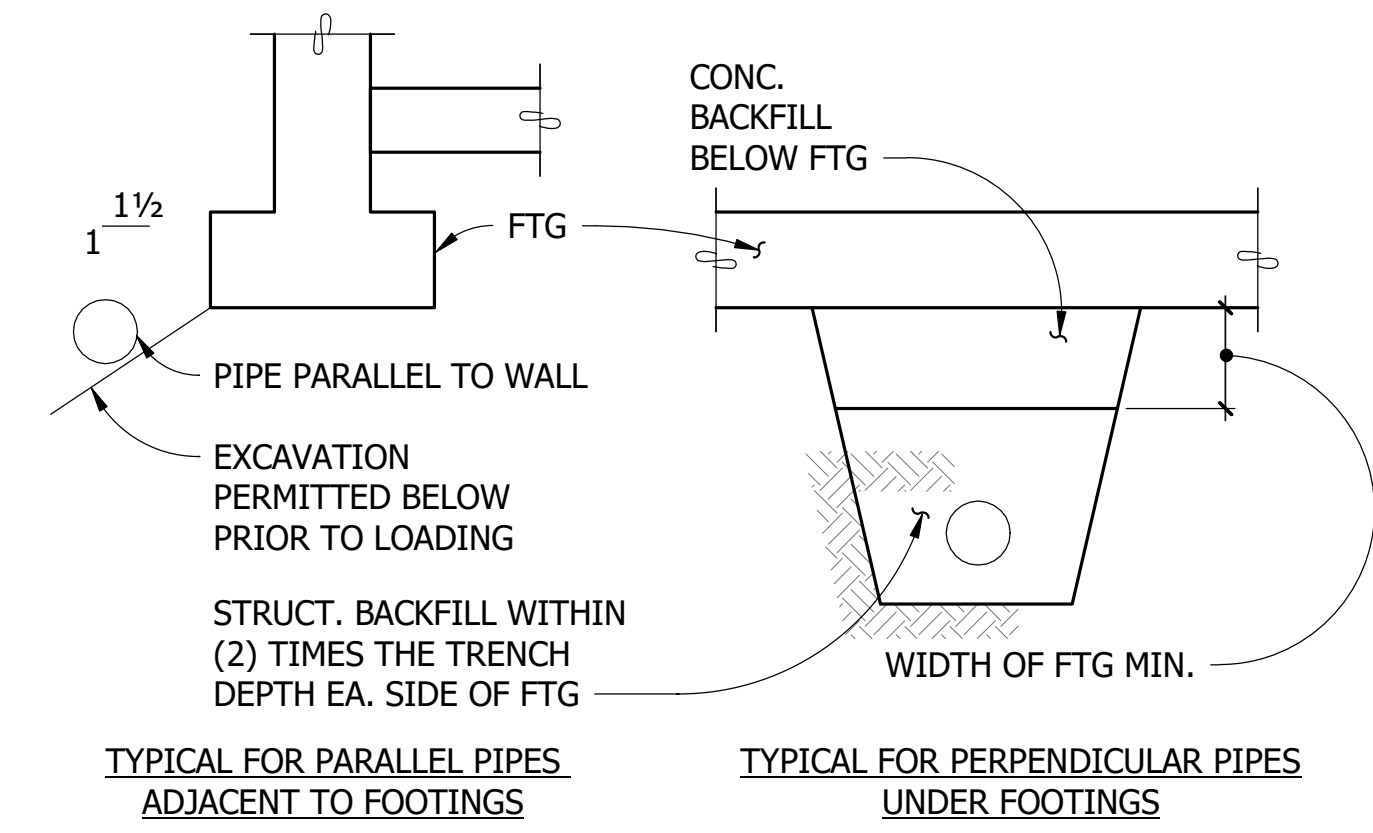


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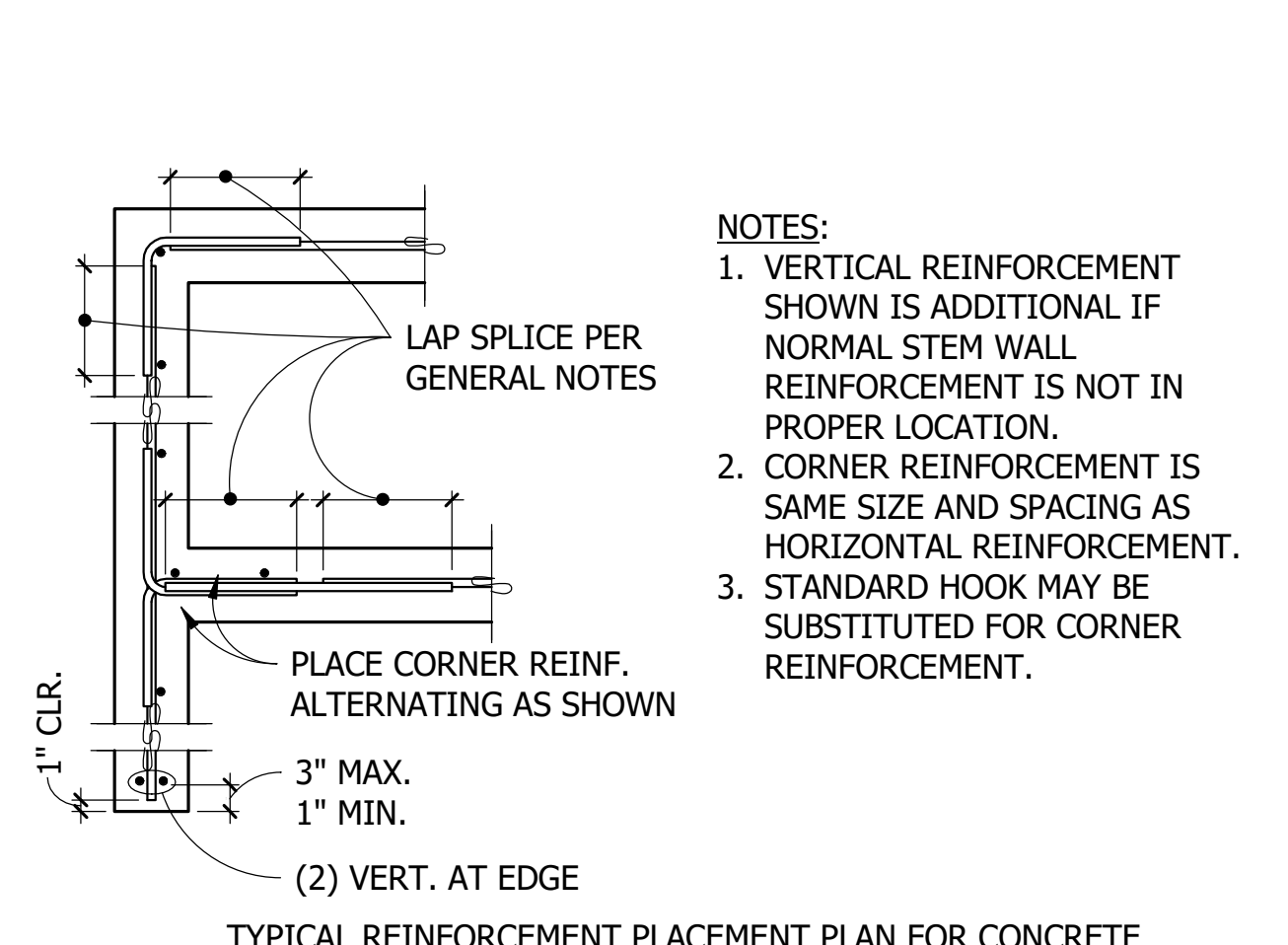
1 SECTION
S3.02 NO SCALE



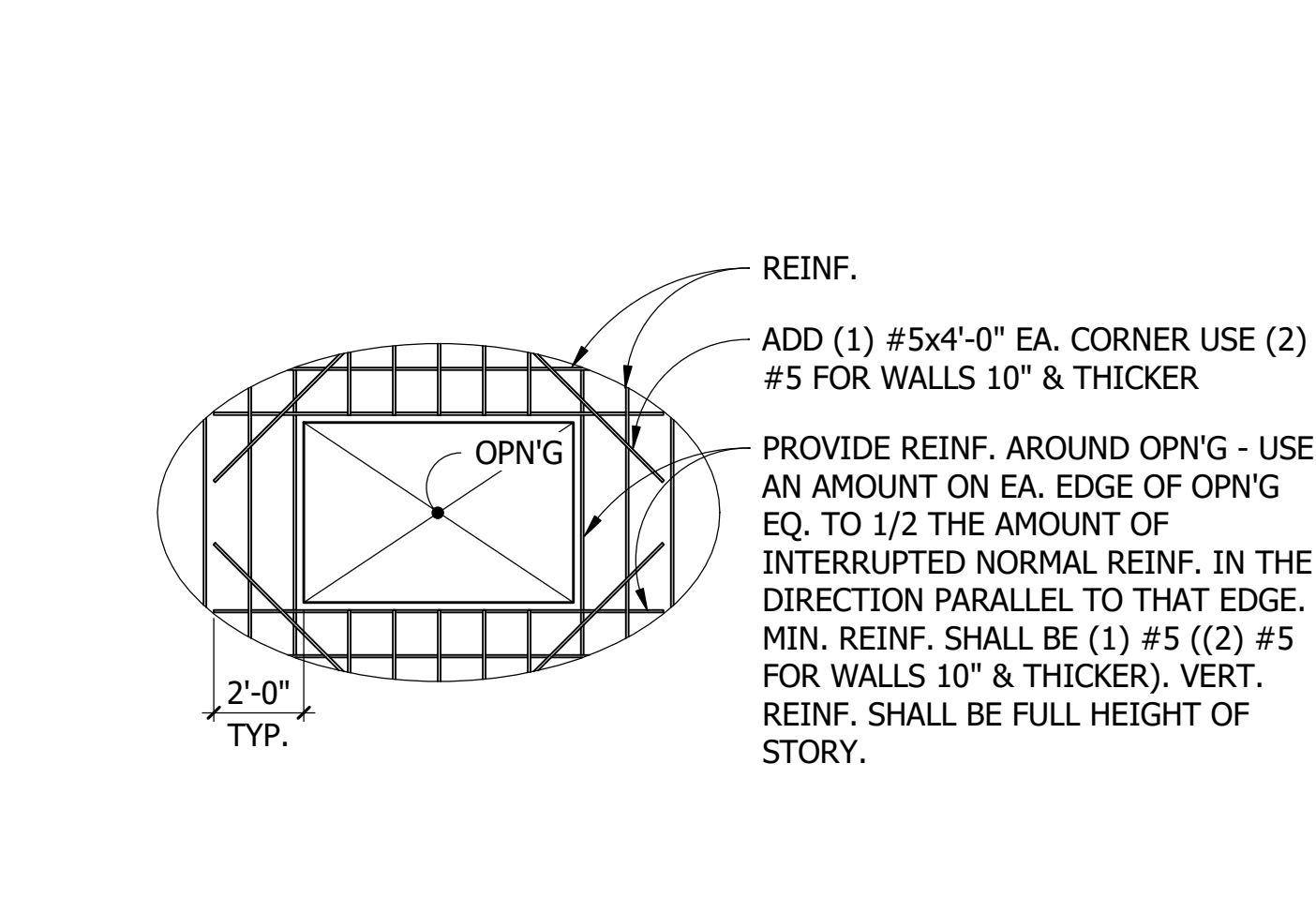
2 SECTION
S3.02 NO SCALE

NOTES:

- FOUNDATIONS SHALL NOT BE LOADED PRIOR TO COMPLETING STRUCTURAL BACKFILL UNDER AND NEAR FOOTINGS.
- CONCRETE BACKFILL SHALL BE USED UNDER FOOTINGS WHERE 95% COMPACTION CANNOT BE ACCOMPLISHED.
- ALL STRUCTURAL BACKFILL NOTED SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY PER ASTM.
- A PIPE SLEEVE SHALL BE PROVIDED FOR SHALLOW PIPES CAST IN CONCRETE.
- PIPES SHALL NOT BE PLACED IN THE FOOTING WITHOUT SPECIFIC APPROVAL FROM THE ENGINEER.
- FOR VARIATIONS CONTACT ENGINEER.

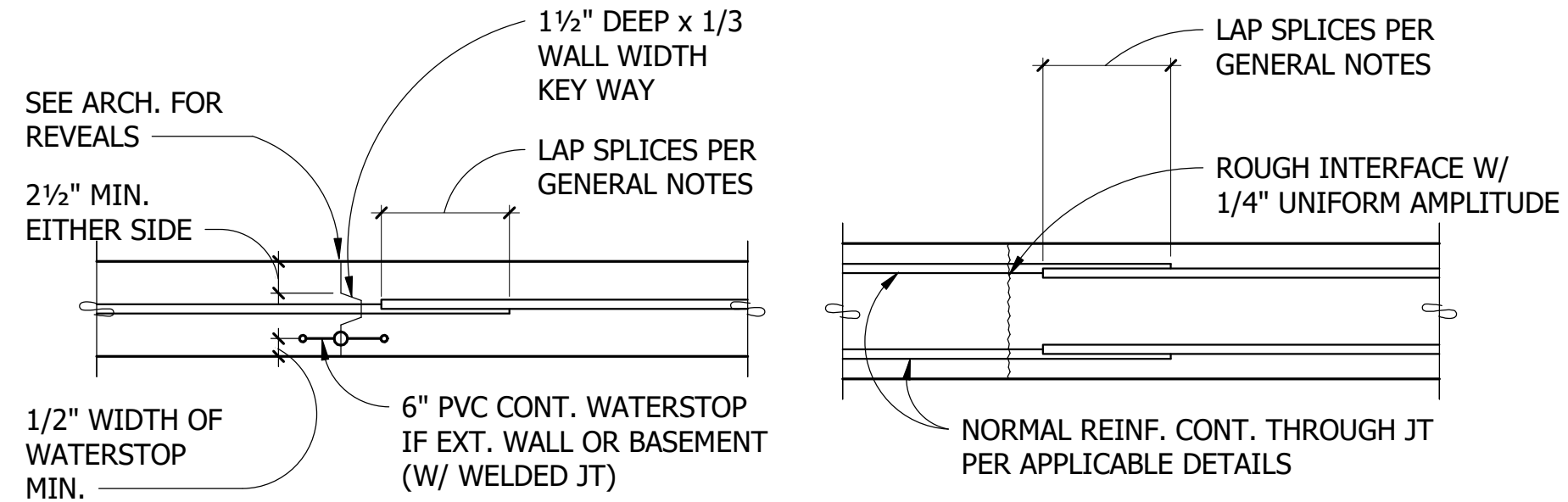


3 SECTION
S3.02 NO SCALE

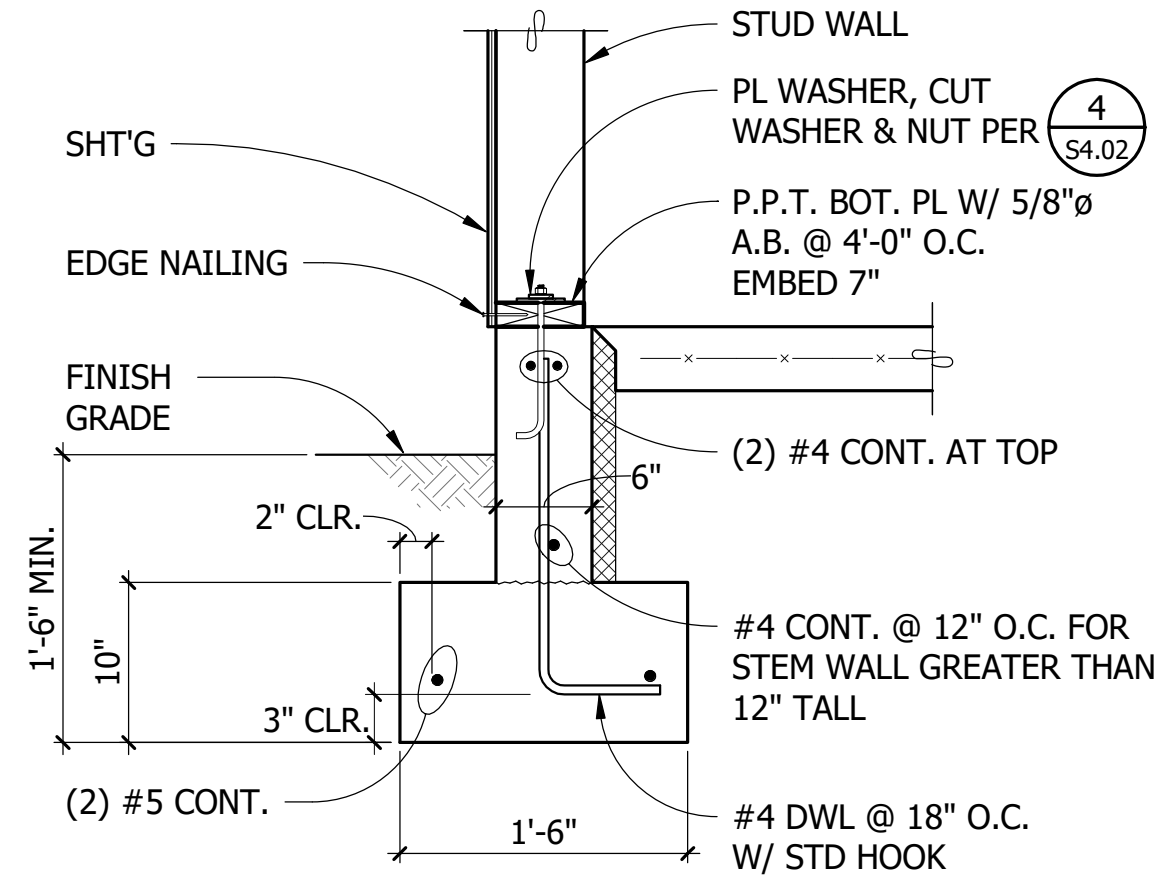


4 SECTION
S3.02 NO SCALE

NOTE: OBTAIN APPROVAL OF ENGINEER FOR LOCATION OF ANY CONSTRUCTION JOINT



5 SECTION
S3.02 NO SCALE



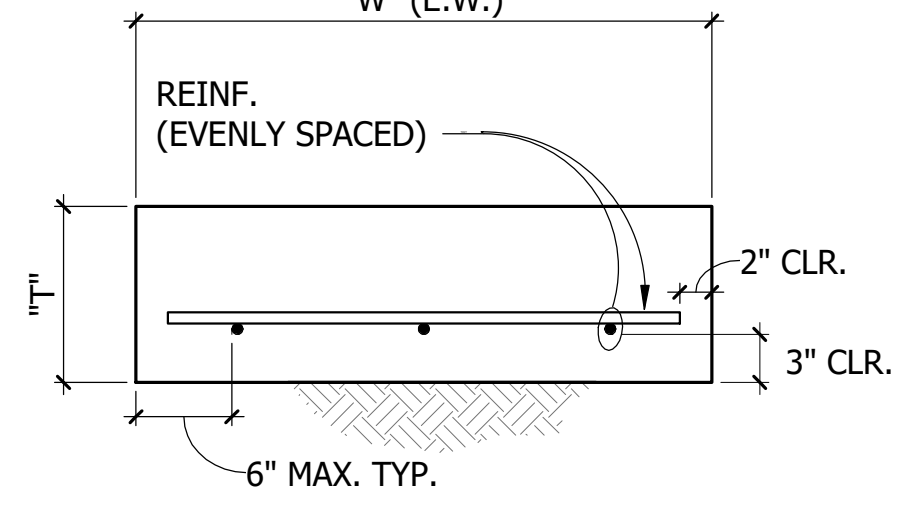
6 SECTION
S3.02 NO SCALE

MARK	DIMENSIONS		REINFORCEMENT EACH WAY
	"W"	"T"	
F4.0	4'-0"	11"	(5) #4

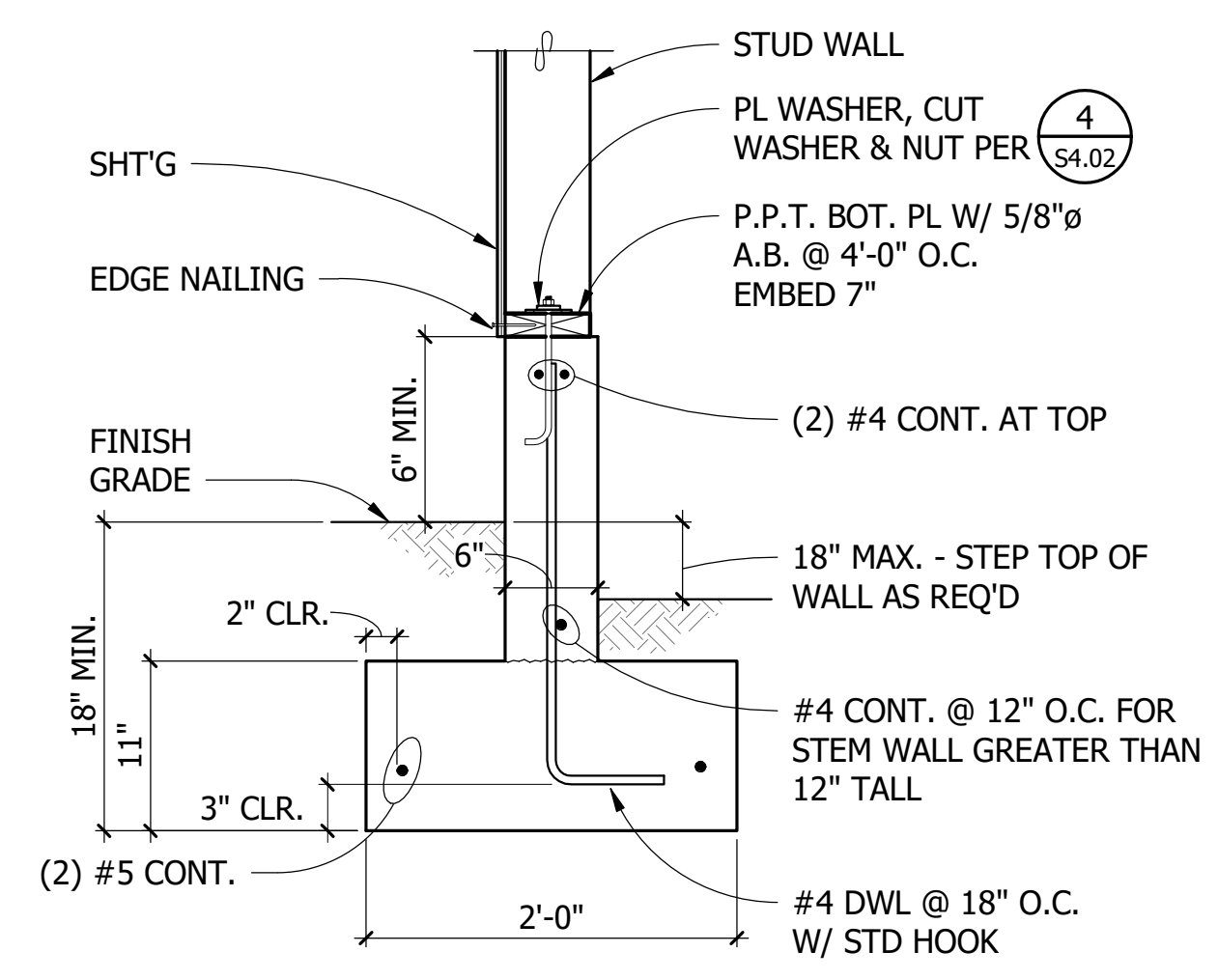
7 SECTION
S3.02 NO SCALE

NOTES:

- CENTER ALL FOOTINGS ON COLUMN ABOVE EXCEPT AS SHOWN OTHERWISE.
- FOOTINGS SHALL BEAR ON UNDISTURBED OR COMPACTED MATERIAL PER GENERAL NOTES. DESIGN BEARING PRESSURE IS 2500 POUNDS PER SQUARE FOOT.



SECTION

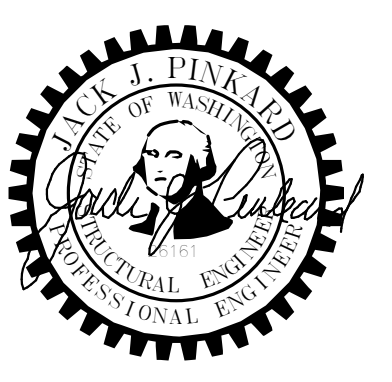


8 SECTION
S3.02 NO SCALE

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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

DAY USE BUILDING

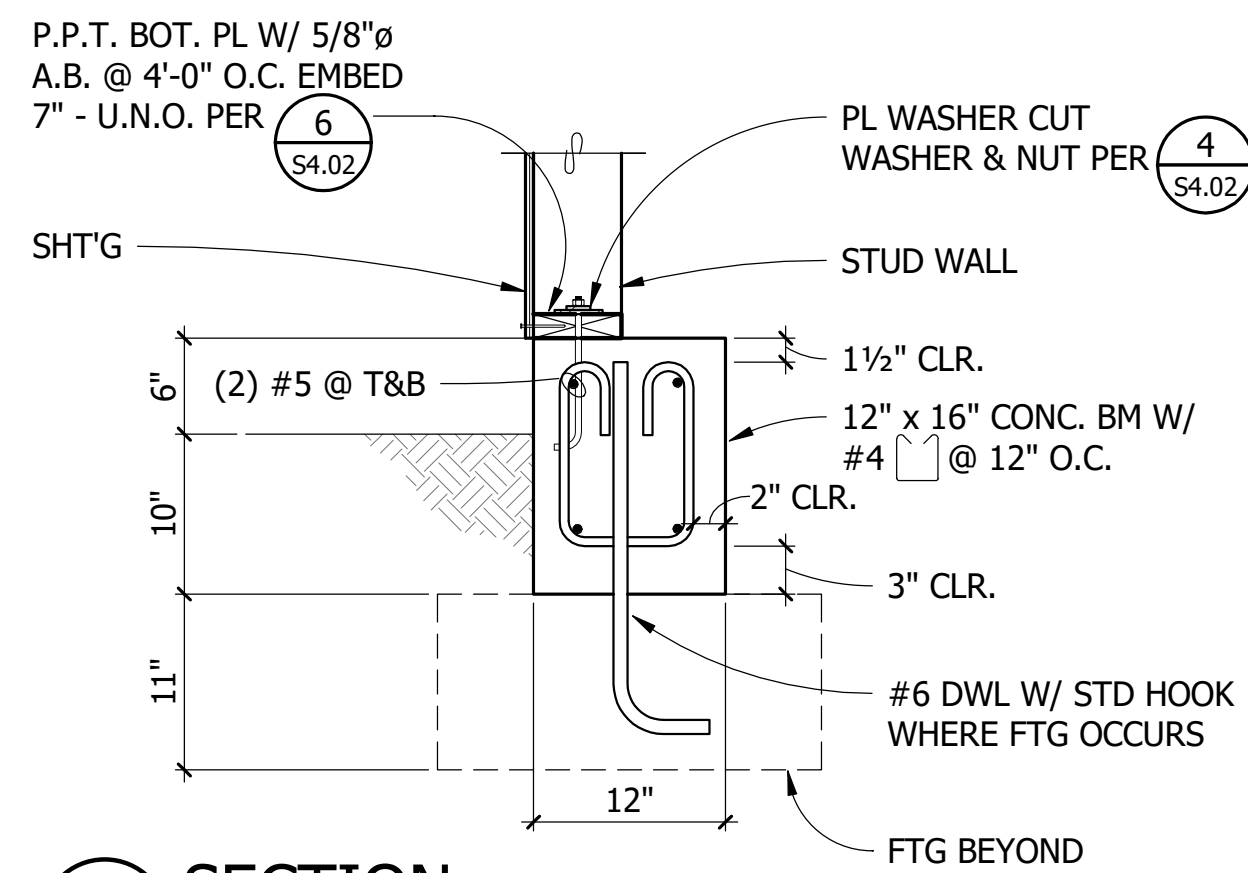
FOUNDATION DETAILS

S3.02

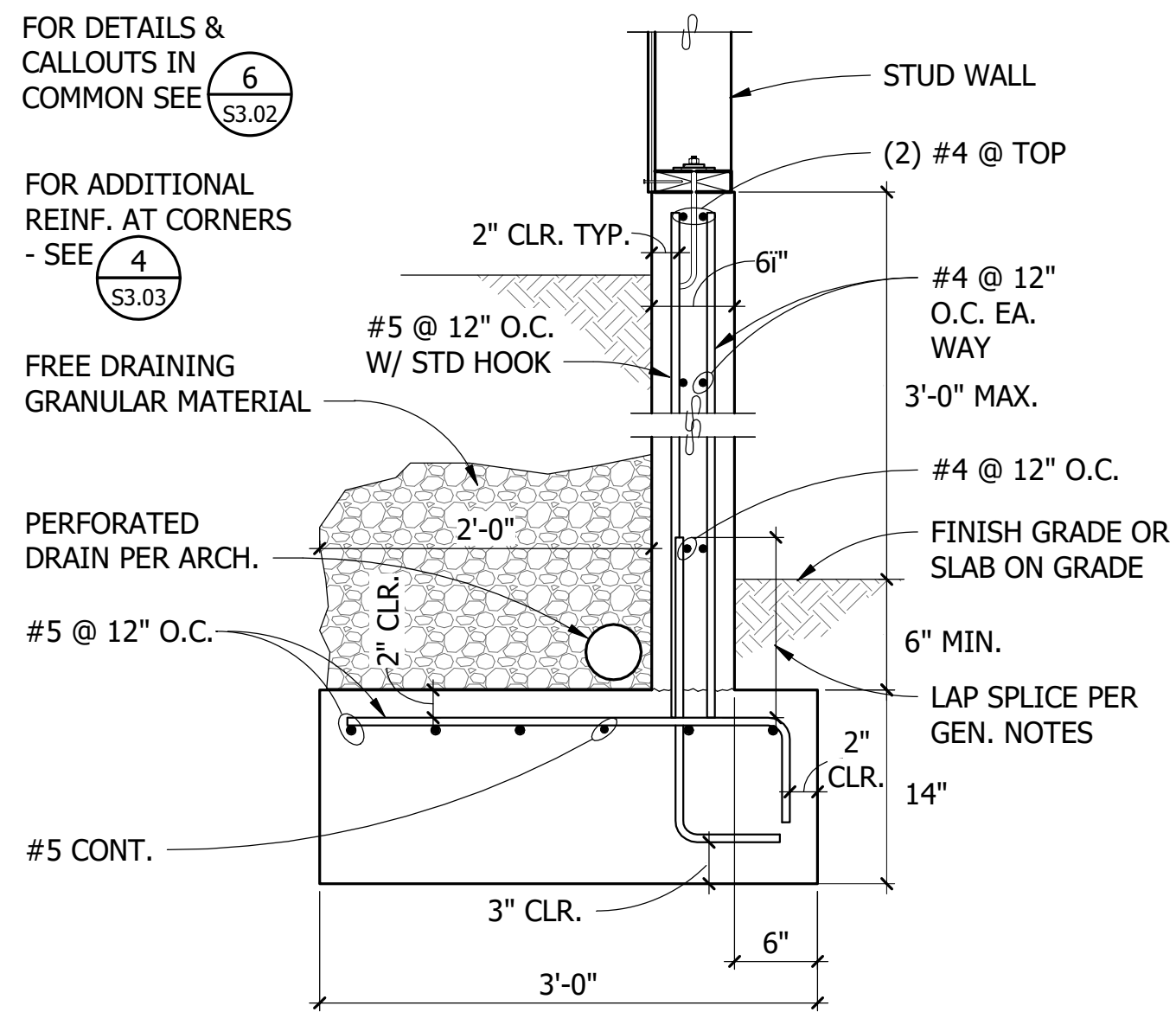
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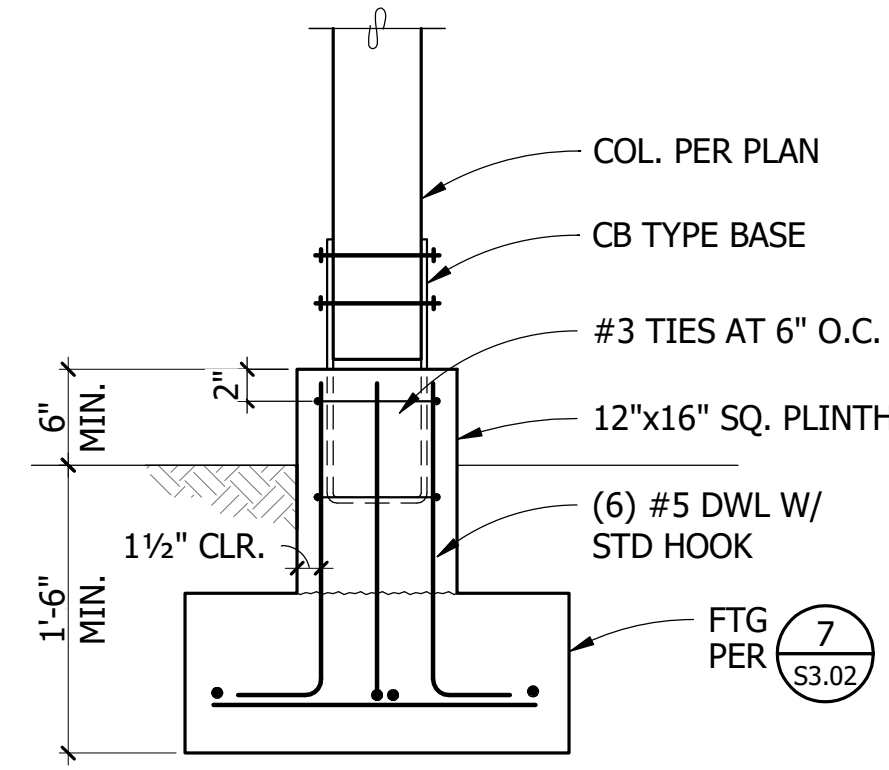
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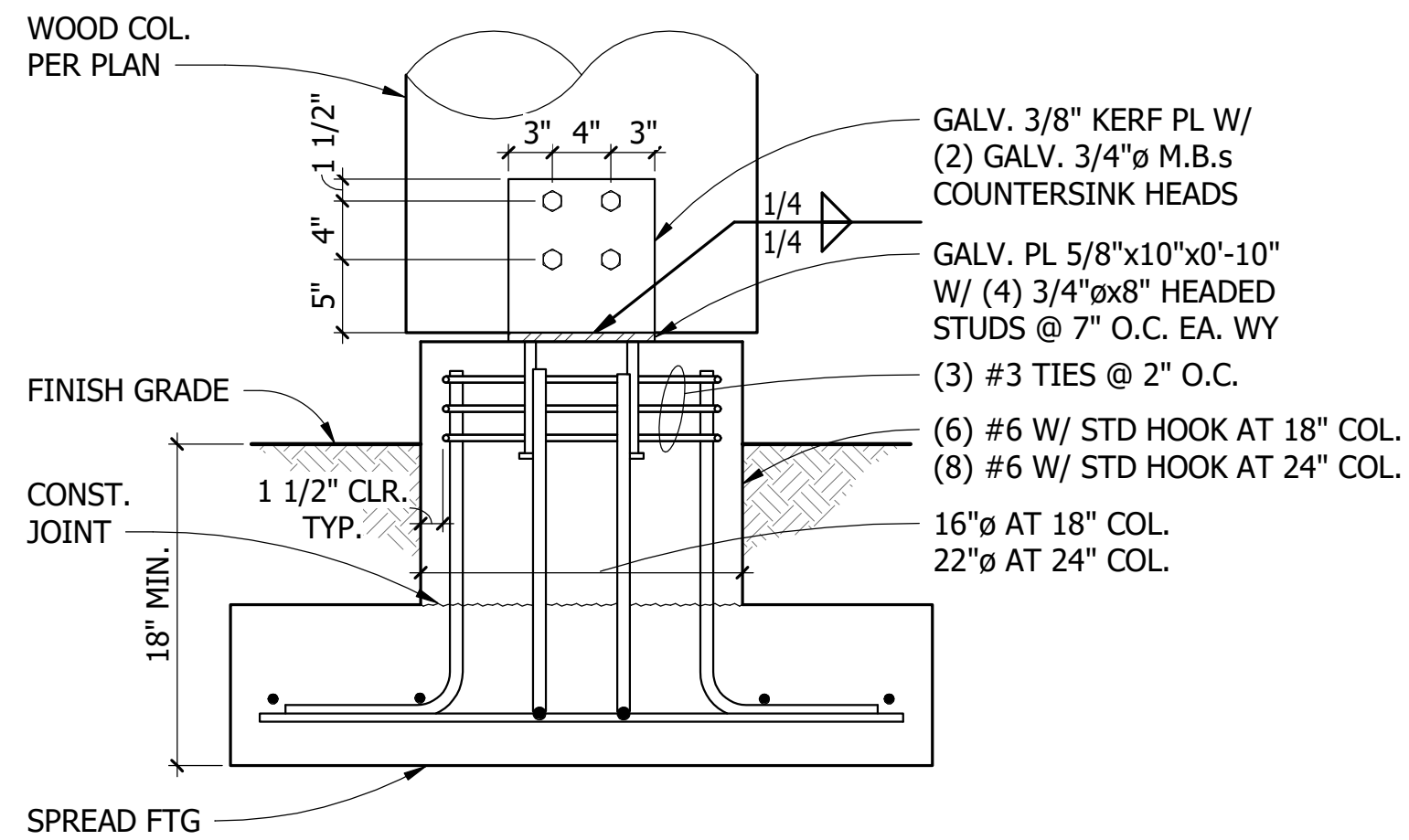
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S3.03 NO SCALE



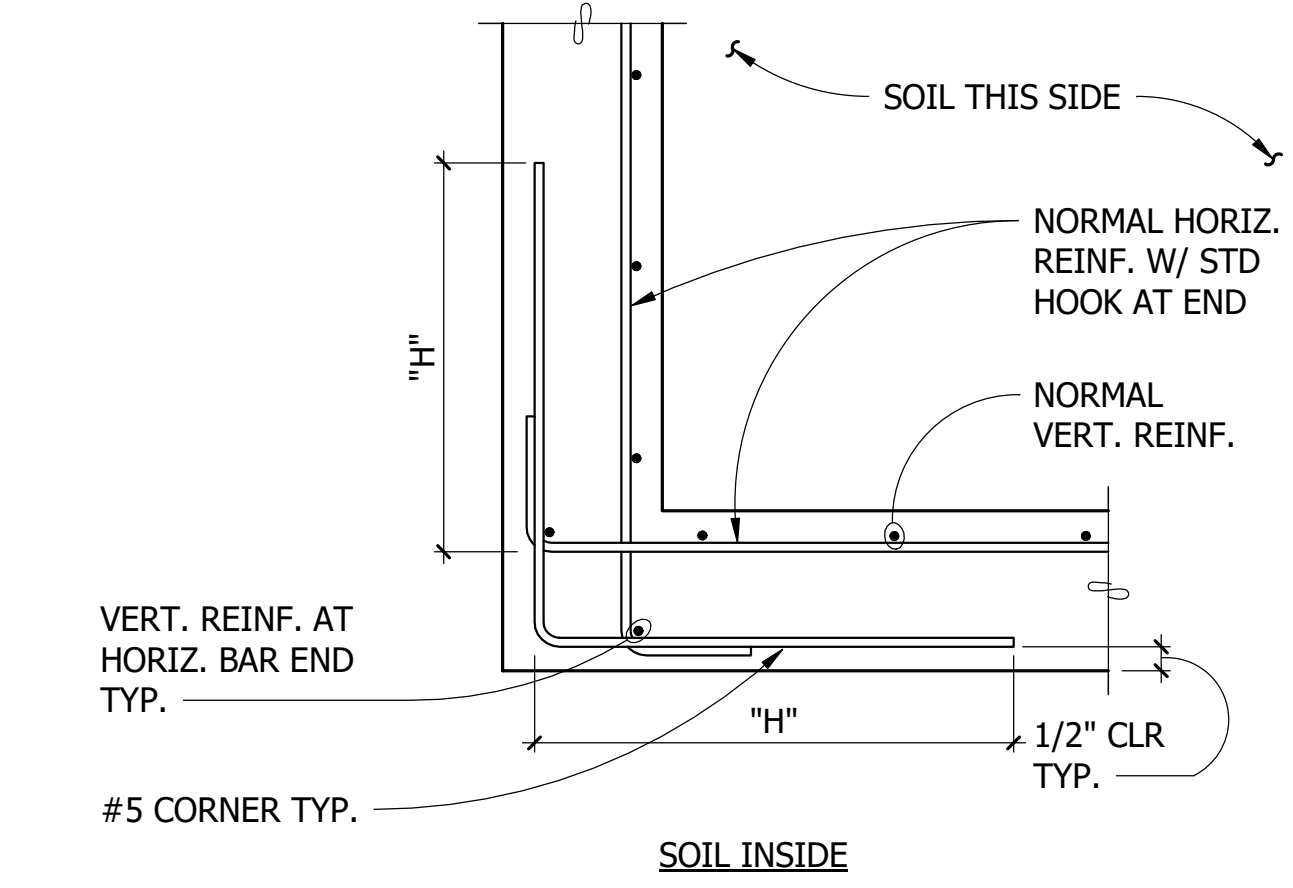
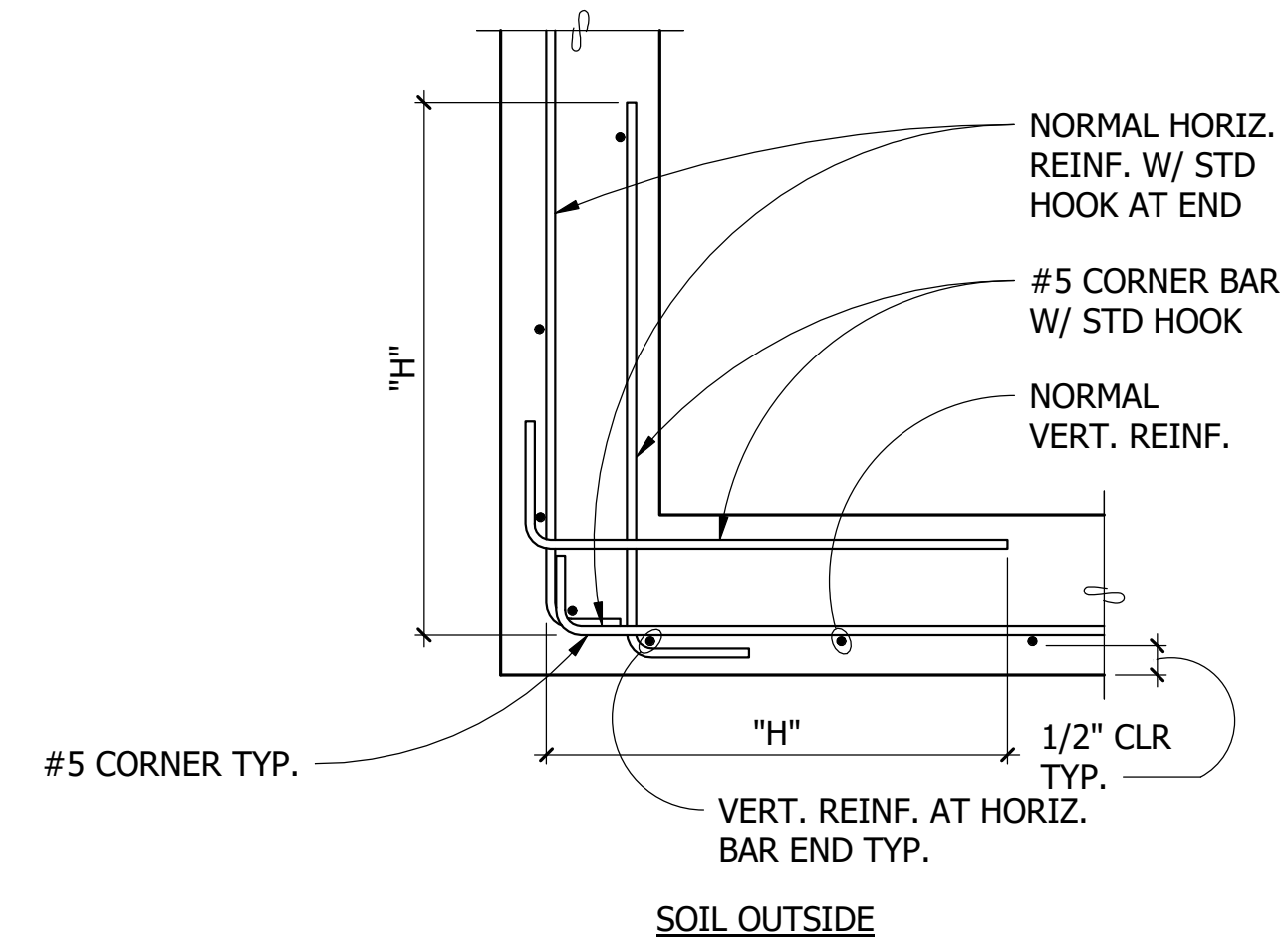
2 SECTION
S3.03 NO SCALE



3 SECTION
S3.03 NO SCALE



5 SECTION
S3.03 NO SCALE



4 SECTION
S3.03 NO SCALE

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KOPACHUCK STATE PARK

DAY USE BUILDING

FOUNDATION DETAILS

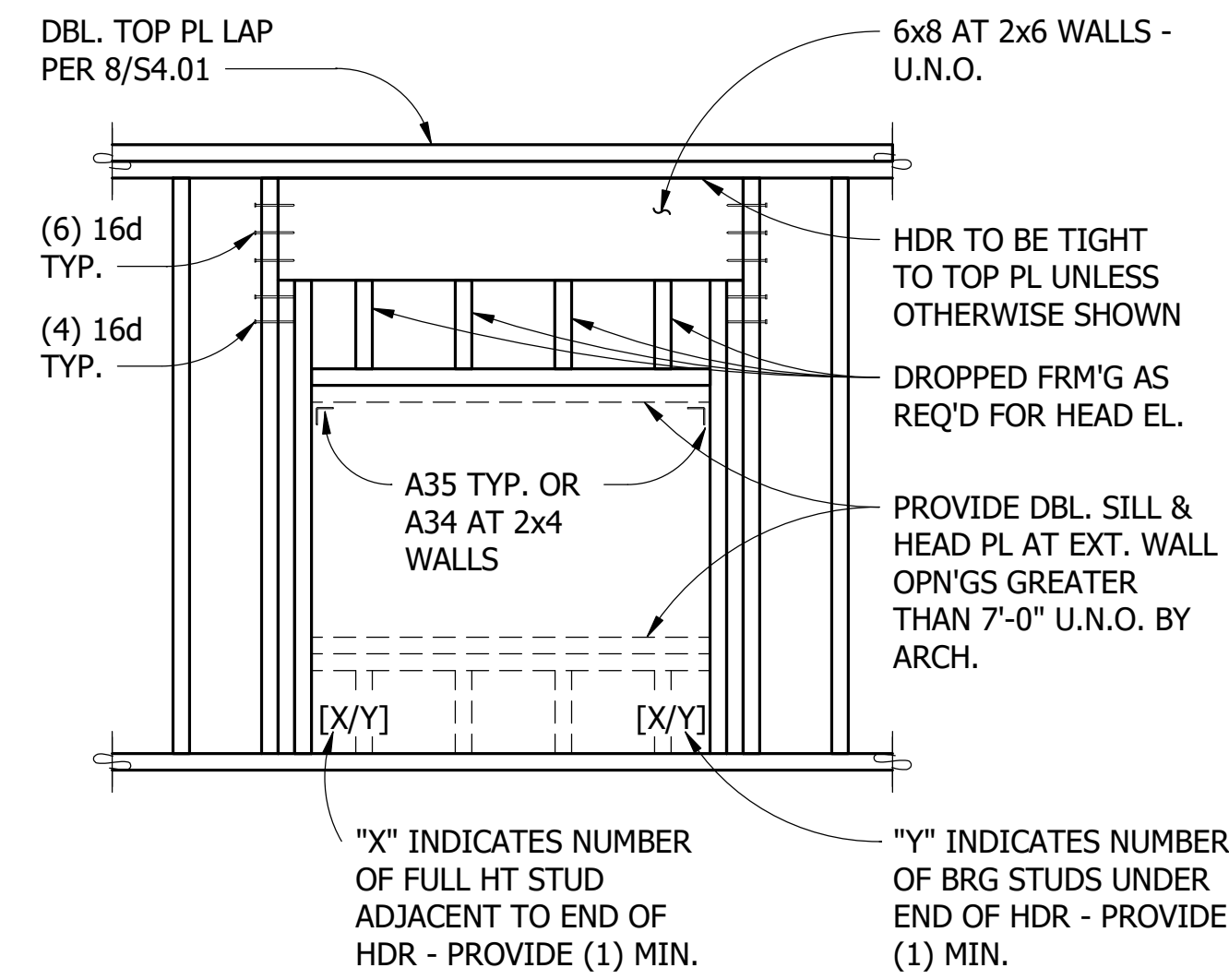
S3.03

SCALE AS NOTED



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BID SET PARKS FILE#



TYPICAL STUD WALL CONSTRUCTION AT HEADER

1 SECTION
S4.01 NO SCALE

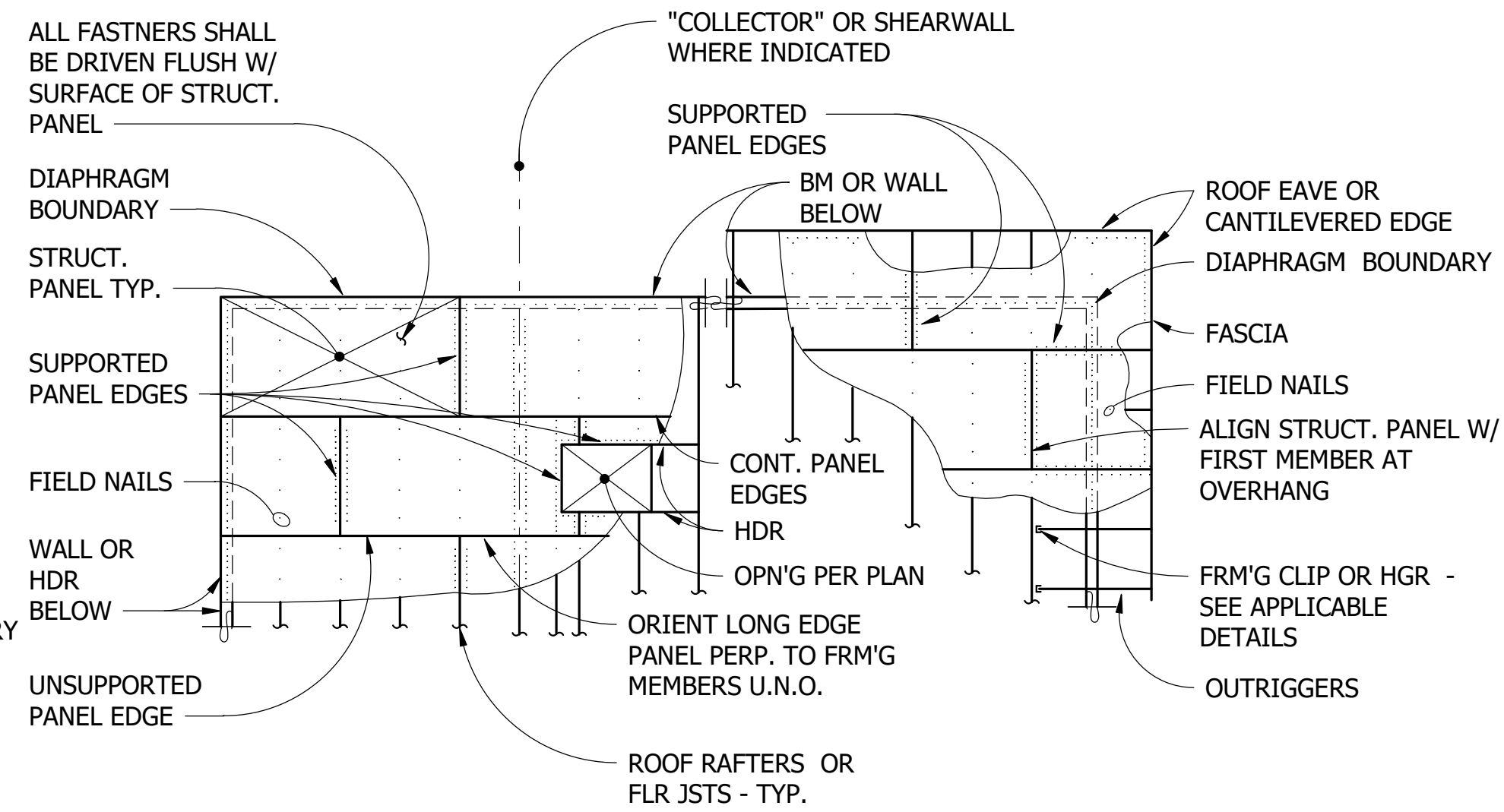
DIAPHRAGM NAILING SCHEDULE			
DIAPHRAGM TYPE	LOCATION	NAILS	SPACING
FLOOR DIAPHRAGM 23/32" TONGUE AND GROOVE SHEATHING UNBLOCKED UNLESS NOTED OTHERWISE	DIAPHRAGM BOUNDARY	10d	6" O.C.
	FIELD NAILS	10d	12" O.C.
ROOF DIAPHRAGM 19/32" SHEATHING UNBLOCKED UNLESS NOTED OTHERWISE	DIAPHRAGM BOUNDARY	10d	6" O.C.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

NOTES:

- PROVIDE (2) ROWS OF SPECIFIED DIAPHRAGM BOUNDARY NAILING OVER INTERIOR SHEAR WALLS AND THE FULL LENGTH OF "COLLECTORS" WHERE INDICATED.
- 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

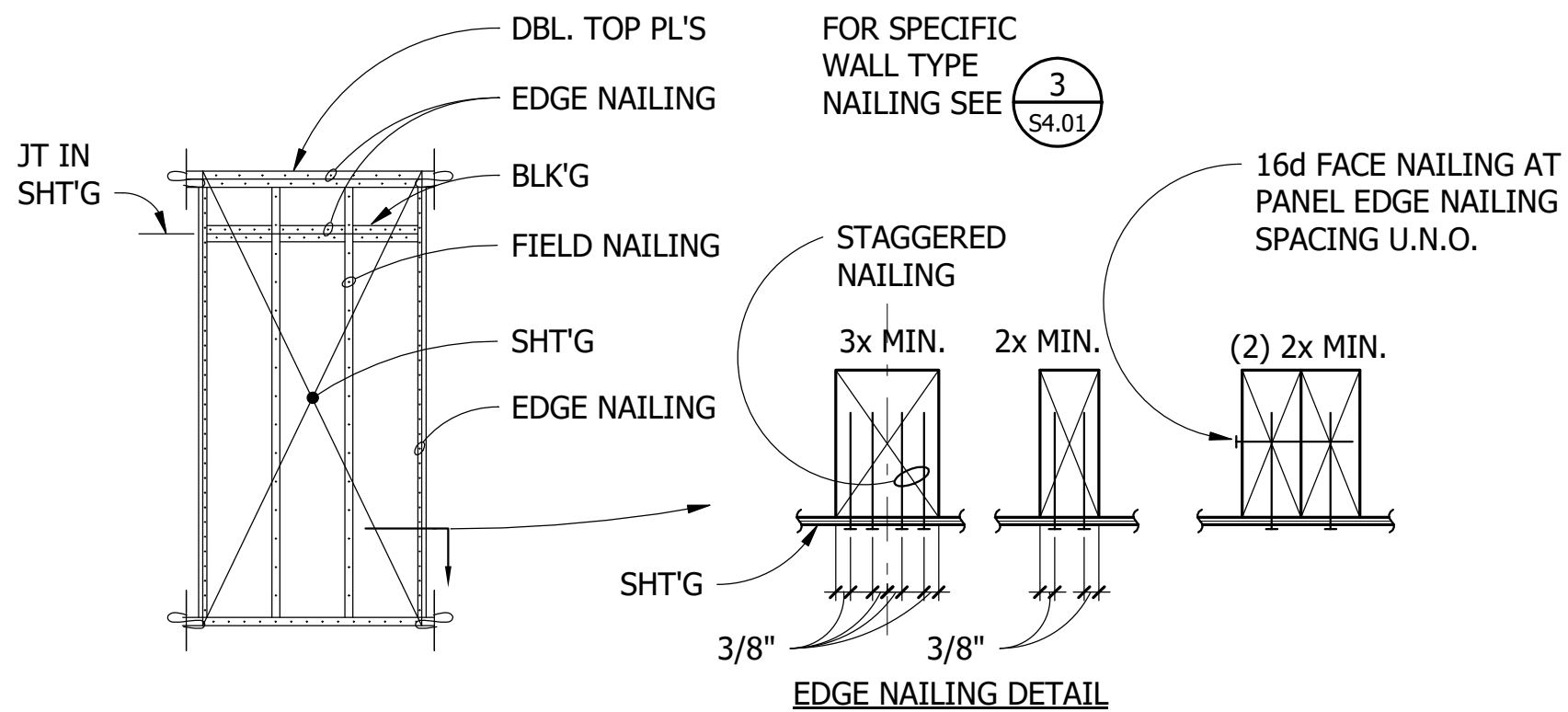
2 SCHEDULE
S4.01 NO SCALE



ALL FASTENERS SHALL BE DRIVEN FLUSH W/ SURFACE OF STRUCT. PANEL

TYPICAL BUILT-UP COLUMN AT BEAM PERPENDICULAR TO WALL

4 DETAIL
S4.01 NO SCALE



NOTES:

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

TYPICAL SHEARWALL NAILING

5 SCHEDULE
S4.01 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	3"	3x	12"	2x	SDS @ 8" O.C.	32"	A35 @ 24" O.C.
C	15/32"	(2)	10d	4"	3x	12"	2x	SDS @ 6" O.C.	16"	A35 @ 24" O.C.

TABLE 2 - STUD REQUIREMENTS		
MARK	STUD SIZE AND SPACING	NUMBER STUDS REQUIRED AT MEMBER BEARING
1	2x6 @ 16" O.C.	(1)
2	2x6 @ 12" O.C.	(1)

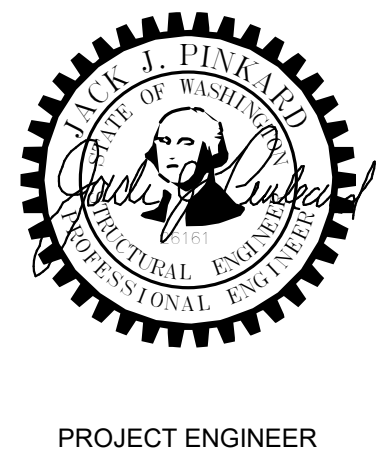
- NOTES:**
- xx INDICATES SPECIAL STRUCTURAL WALL MARK. ALL WALLS SHOWN ON STRUCTURAL DRAWINGS ARE 2x6 AT 16" ON CENTER UNLESS DESIGNATED SPECIAL. STUD LAYOUT SHALL MATCH FRAMING MEMBER LAYOUT ABOVE WHERE APPLICABLE. ALL EXTERIOR WALLS SHALL HAVE 15/32" WOOD SHEATHING AND BE NAILED WITH 10d AT 6" ON CENTER AT EDGES AND 12" ON CENTER IN FIELD UNLESS DESIGNATED SPECIAL.
 - 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.
 - WHERE BEAMS OR HEADERS FRAME INTO WALLS AND A COLUMN IS NOT CALLED OUT, PROVIDE BUILT-UP COLUMNS PER 1/S4.01 FOR BEAM PERPENDICULAR TO WALL.
 - [X,Y] INDICATES BUILT-UP STUD COLUMNS AT HEADERS IN WALLS - SEE 4/S4.01 FOR BEAM PARALLEL TO WALL.
 - PROVIDE 3x OR DOUBLE 2x MEMBERS FACE NAILED PER 5/S4.01 AT ALL ABUTTING PANEL EDGES WHERE INDICATED.
 - 3x BOTTOM PLATE WHERE INDICATED.
 - 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.

3 SCHEDULE
S4.01 NO SCALE

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KOPACHUCK STATE PARK

DAY USE BUILDING

FRAMING DETAILS

S4.01

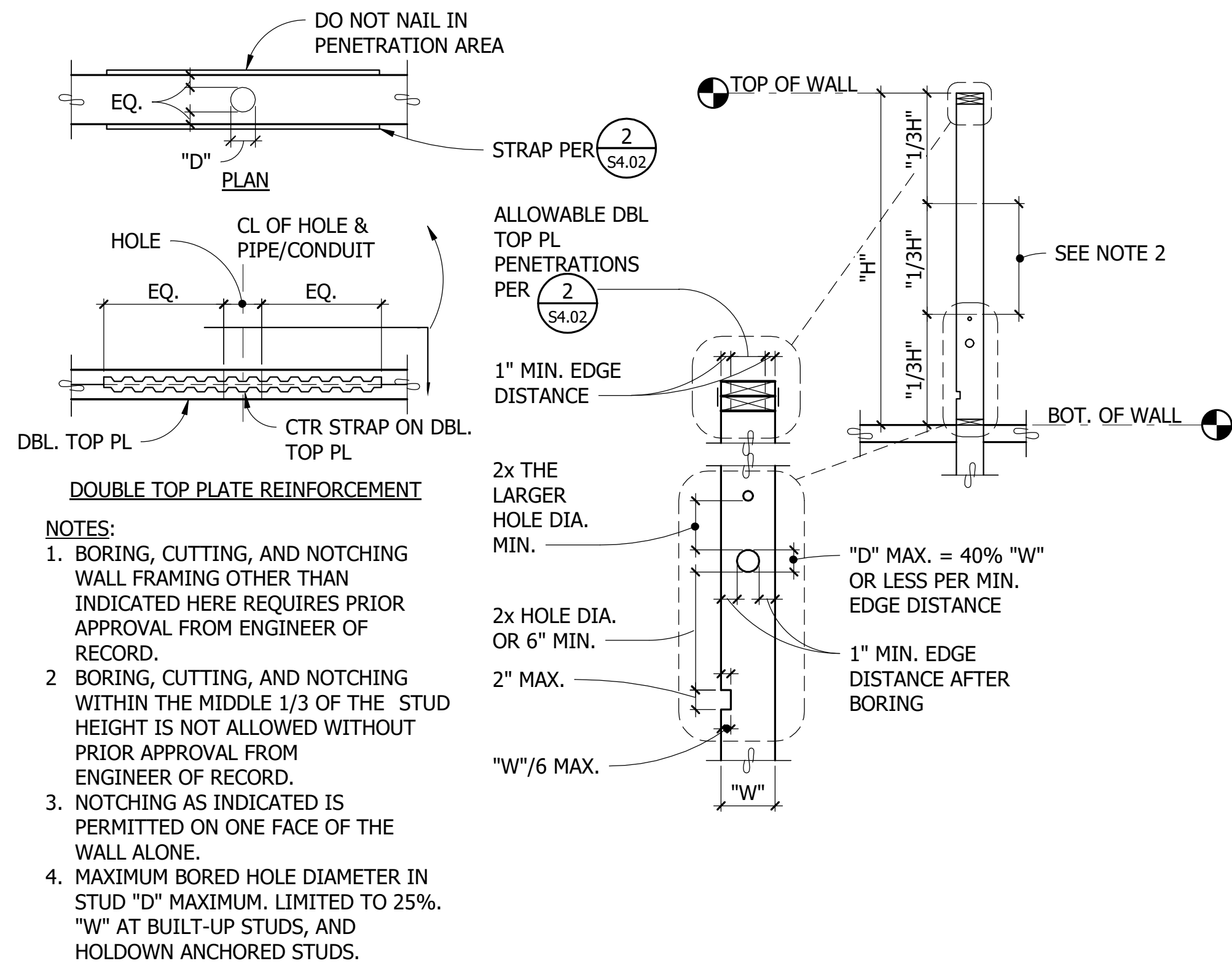
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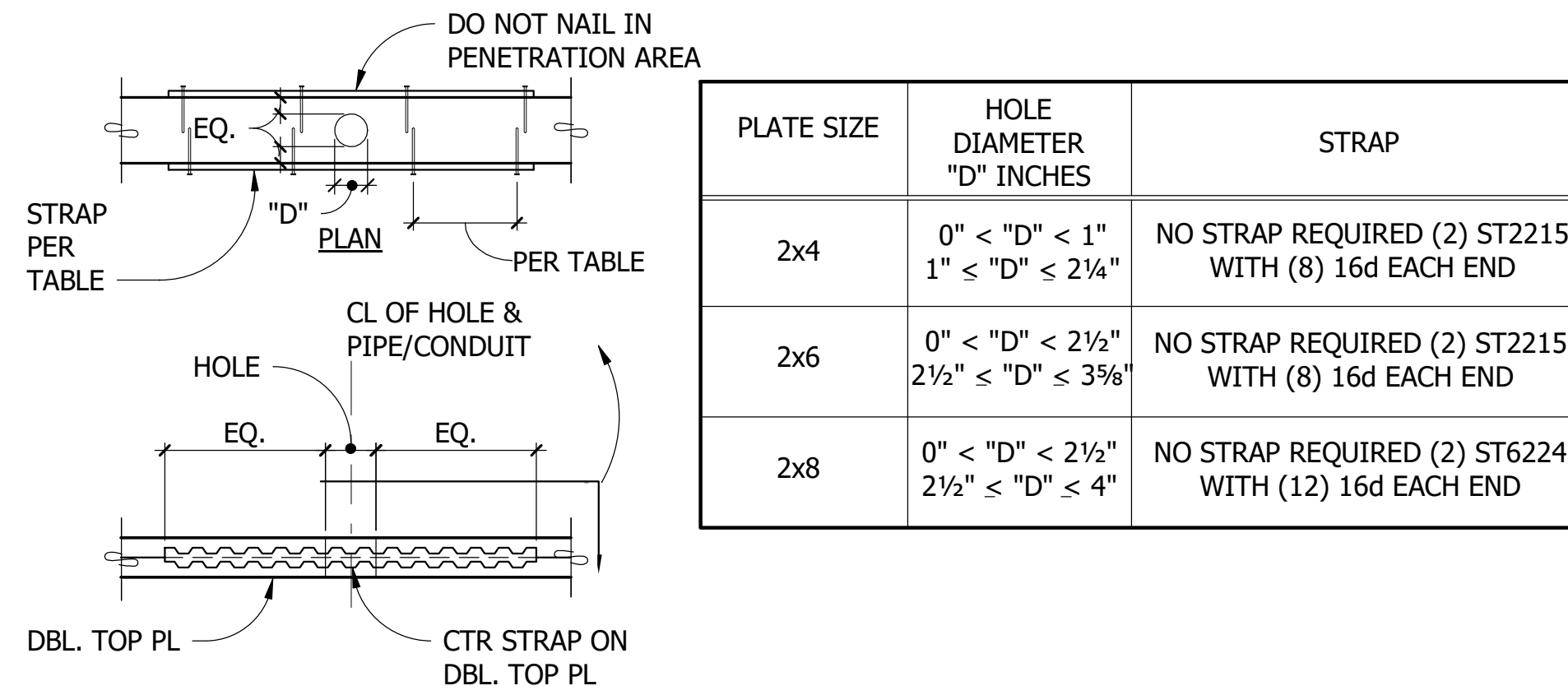
SHEET 29 of 56

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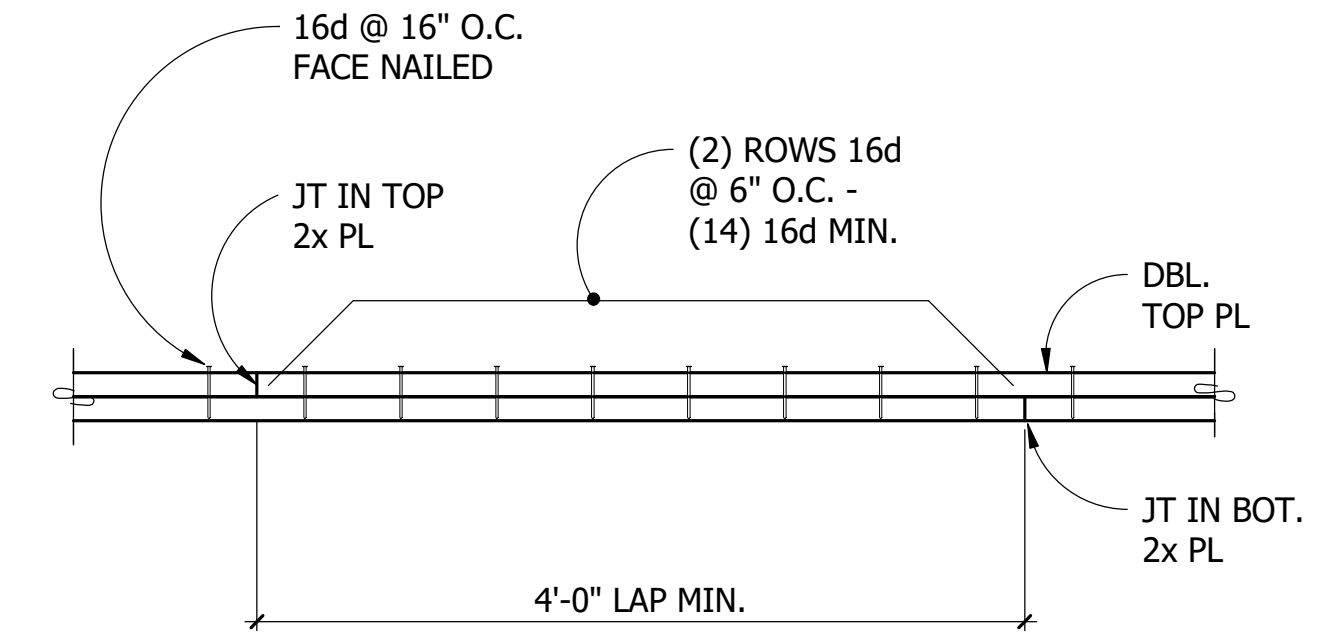
ALLOWABLE LOAD BEARING/SHEARWALL STUD BORING, CUTTING, AND NOTCHING

1 DETAIL
S4.02 NO SCALE

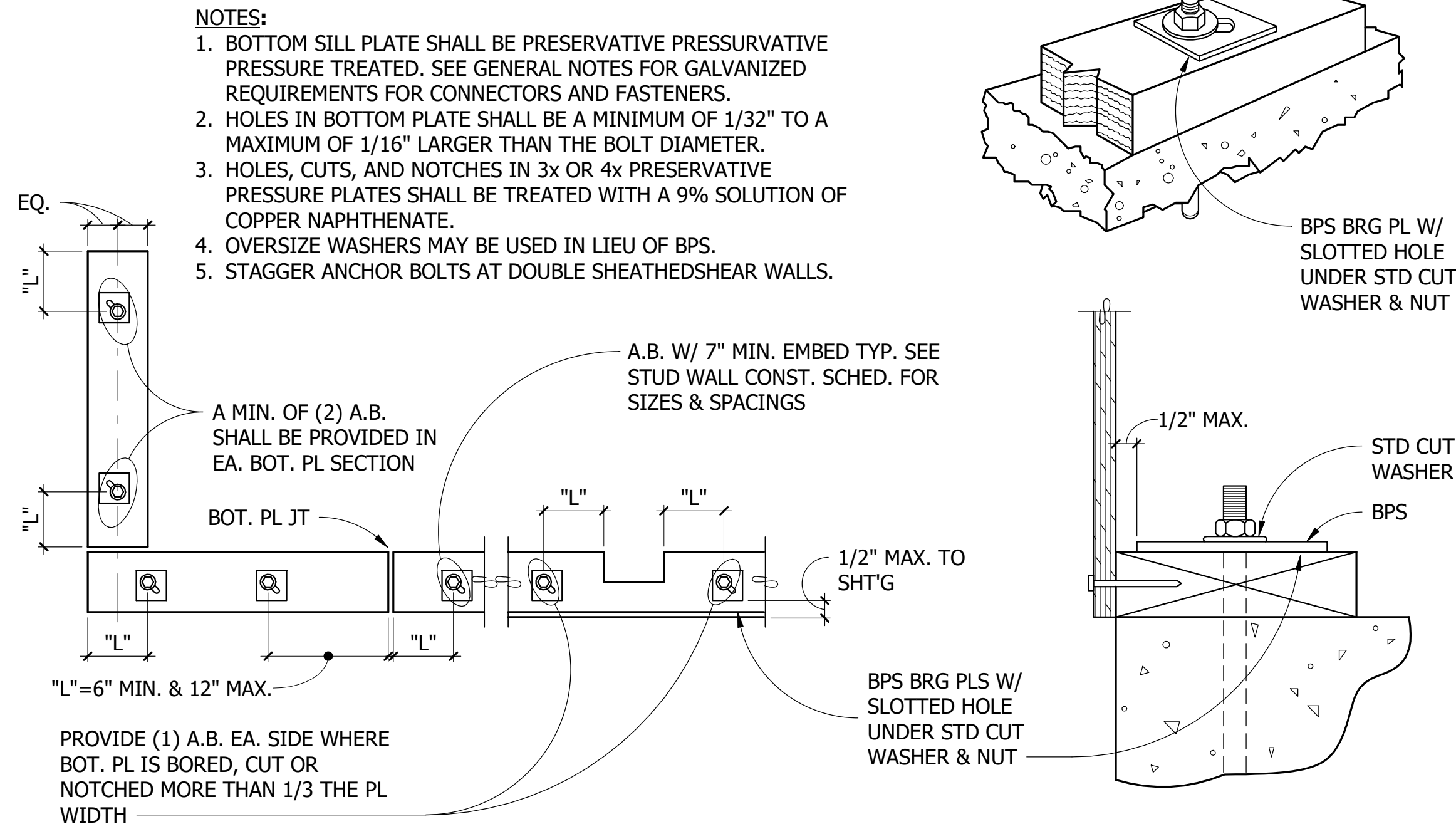


TYPICAL REINFORCING AT WALL DOUBLE TOP PLATE PENETRATIONS

2 DETAIL
S4.02 NO SCALE

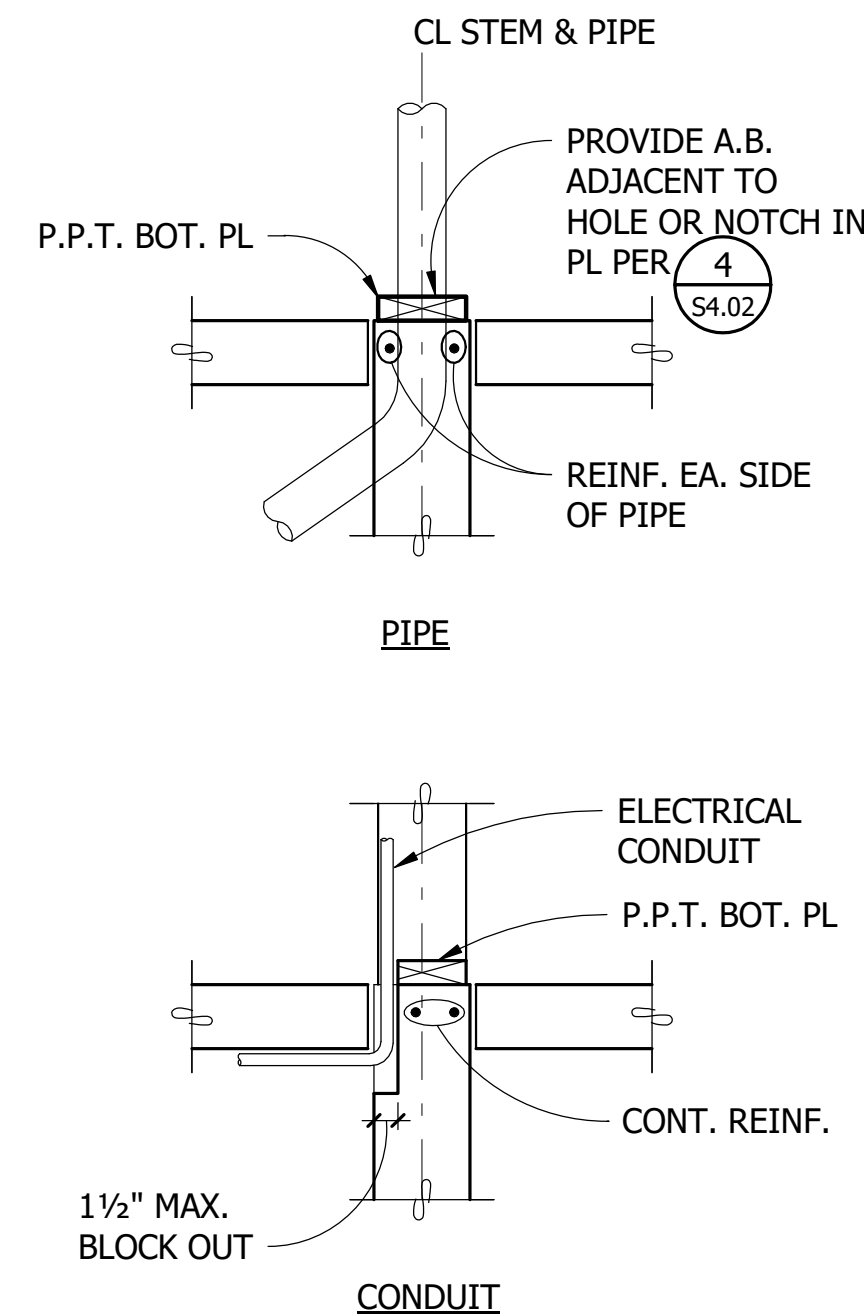


3 SECTION
S4.02 NO SCALE



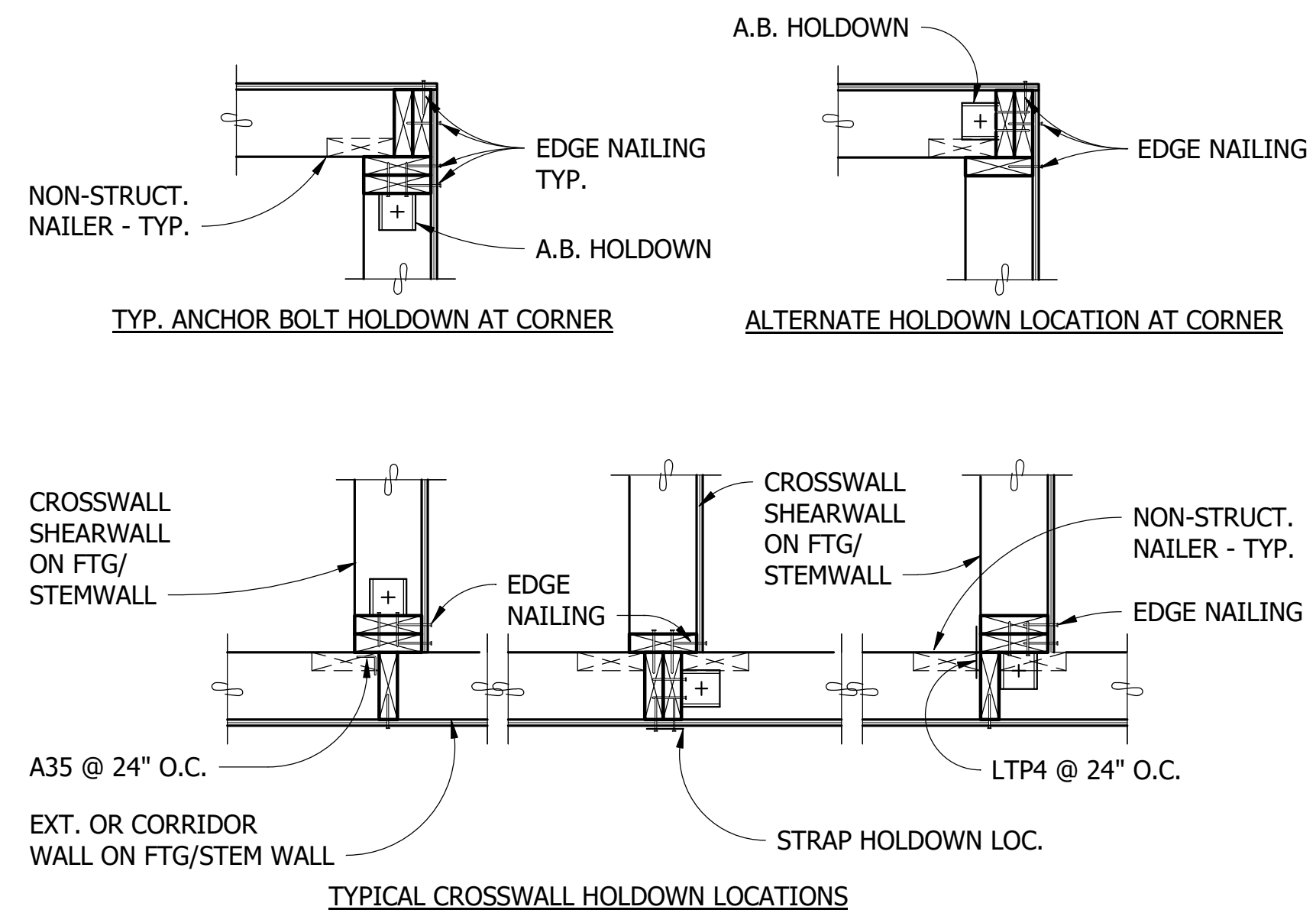
TYPICAL BOTTOM PLATE ANCHORAGE

4 DETAIL
S4.02 NO SCALE



TYPICAL VERTICAL PENETRATIONS IN STEM WALL

5 DETAIL
S4.02 NO SCALE



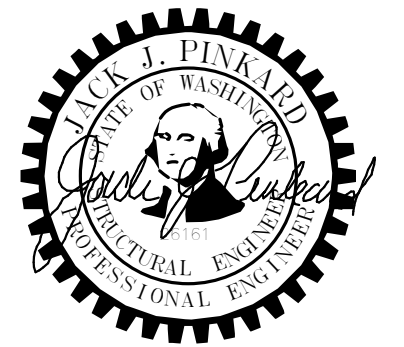
TYPICAL CROSSWALL HOLDDOWN LOCATIONS

6 PLAN DETAIL
S4.02 NO SCALE

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	JJP	NOV. 2023
DRAWN	TNM	NOV. 2023
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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE BUILDING

FRAMING DETAILS

S4.02

SCALE

AS NOTED



SHEET 30 of 56

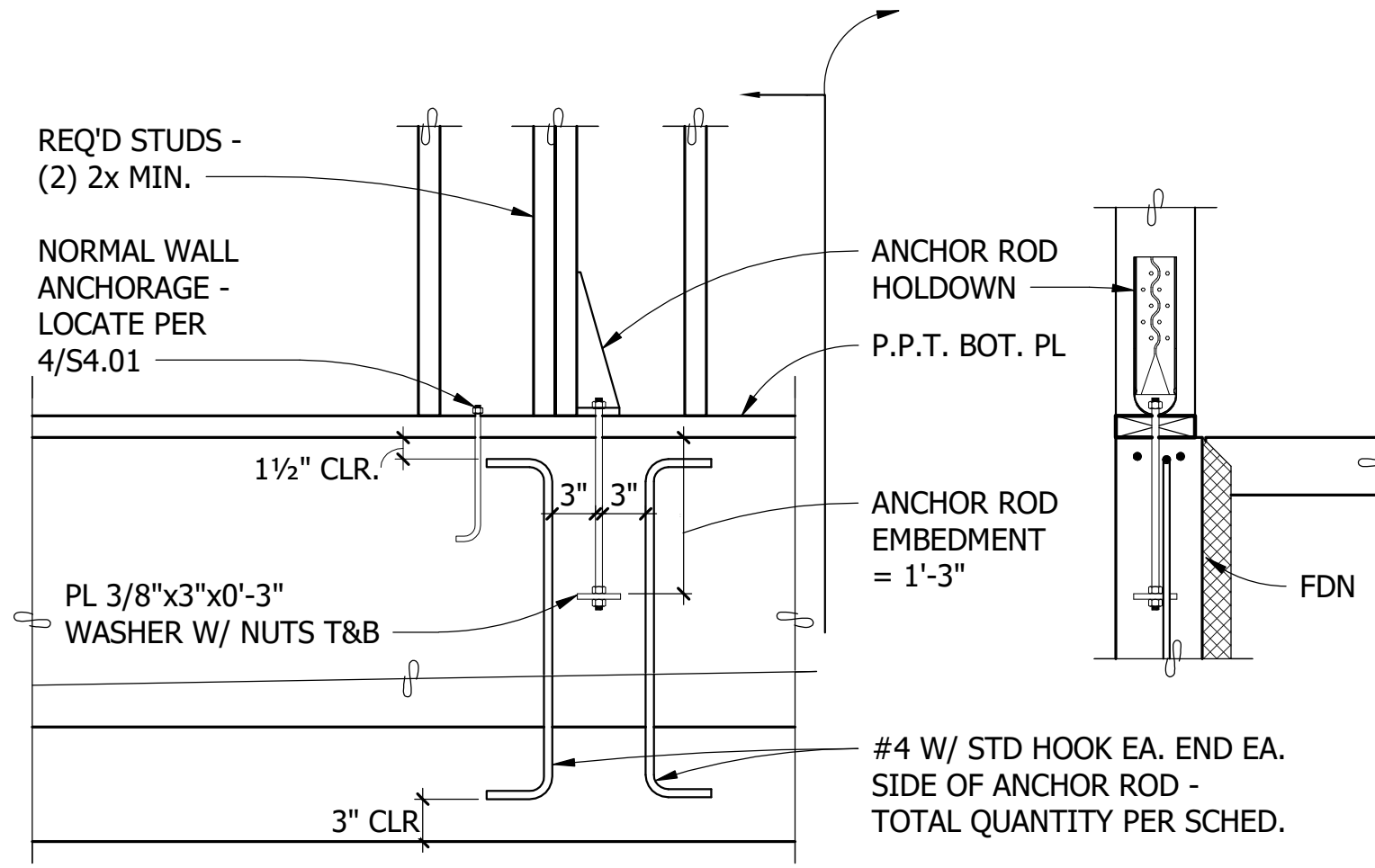
BID SET

PARKS FILE#

HOLDOWN SCHEDULE					
MARK	HOLDOWN ²	ANCHOR ROD ³		REQUIRED STUDS	REFERENCED DETAILS
		DIAMETER	REINFORCEMENT ⁴		
2	HDU2	5/8"	(2) #4	(2) 2x	2/S4.03 & 4/S4.03
4	HDU4	5/8"	(2) #4	(2) 2x	2/S4.03 & 4/S4.03
5	HDU5	5/8"	(2) #4	(2) 2x	2/S4.03 & 4/S4.03
8	HDU8	7/8"	(2) #4	(2) 2x	2/S4.03 & 4/S4.03
11	HDU11	1"	(2) #4	4x	2/S4.03 & 4/S4.03
14	HDU14	1"	(2) #4	4x	2/S4.03 & 4/S4.03

NOTES:

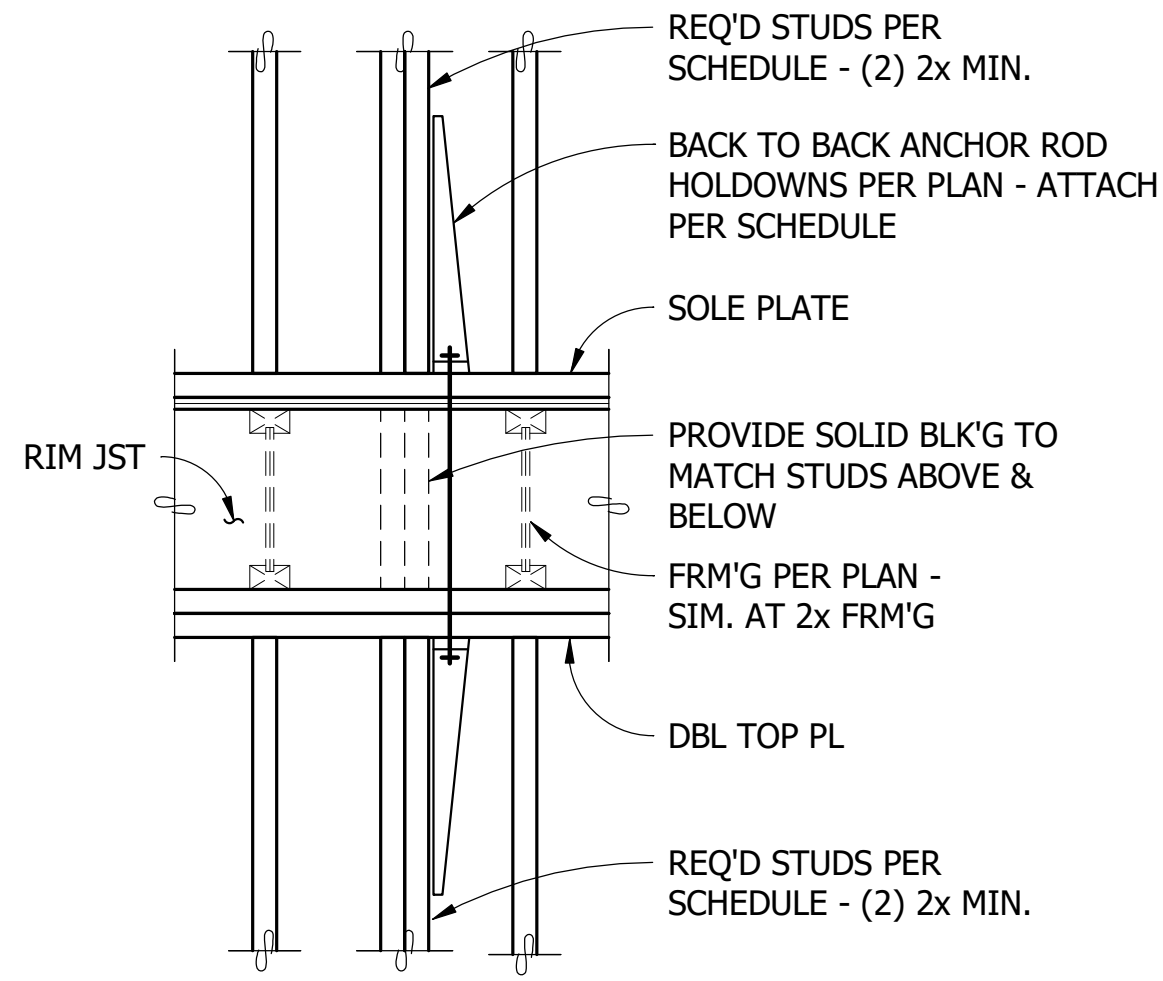
1. ALL HOLDDOWNS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE BACK TO BACK ANCHOR ROD HOLDDOWNS ACROSS FLOOR LINE PER 4/S4.03 AND 5/S4.03.
3. ALL-THREAD ROD ASTM A36 WITH 3"x3"x3/8" PLATE WITH DOUBLE NUTS AT FOUNDATION.
4. EMBEDMENT MAY REQUIRE STEPPING DOWN FOOTING PER 1/S3.02 TO ACHIEVE REQUIRED EMBEDMENT.



TYPICAL FOUNDATION ANCHOR ROD HOLDDOWN

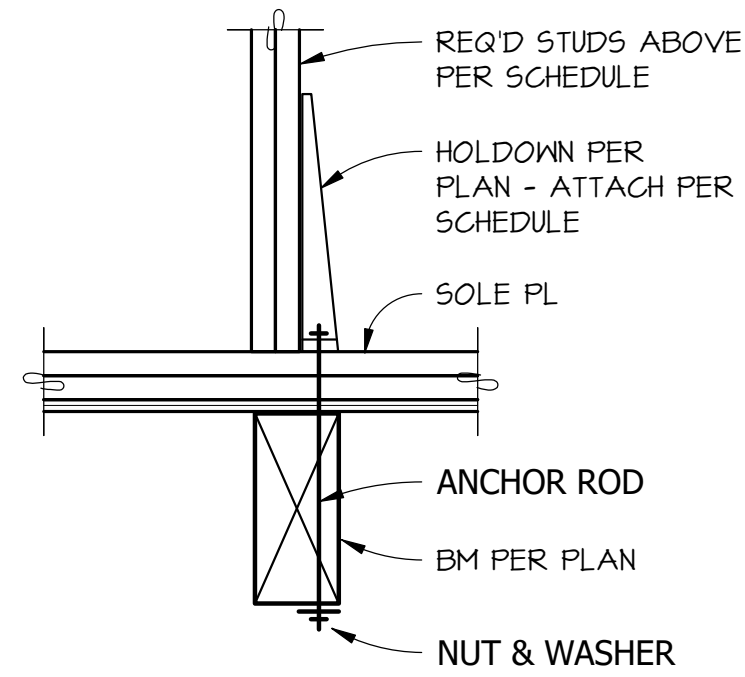
2
S4.03 NO SCALE

1
S4.03 NO SCALE



TYPICAL FLOOR TO FLOOR ANCHOR ROD HOLDDOWN

4
S4.03 NO SCALE

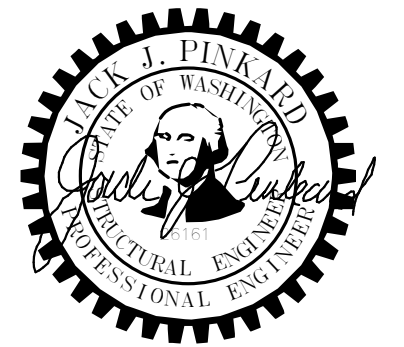


5
S4.03 NO SCALE

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

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KOPACHUCK STATE PARK

DAY USE BUILDING

FRAMING DETAILS

S4.03

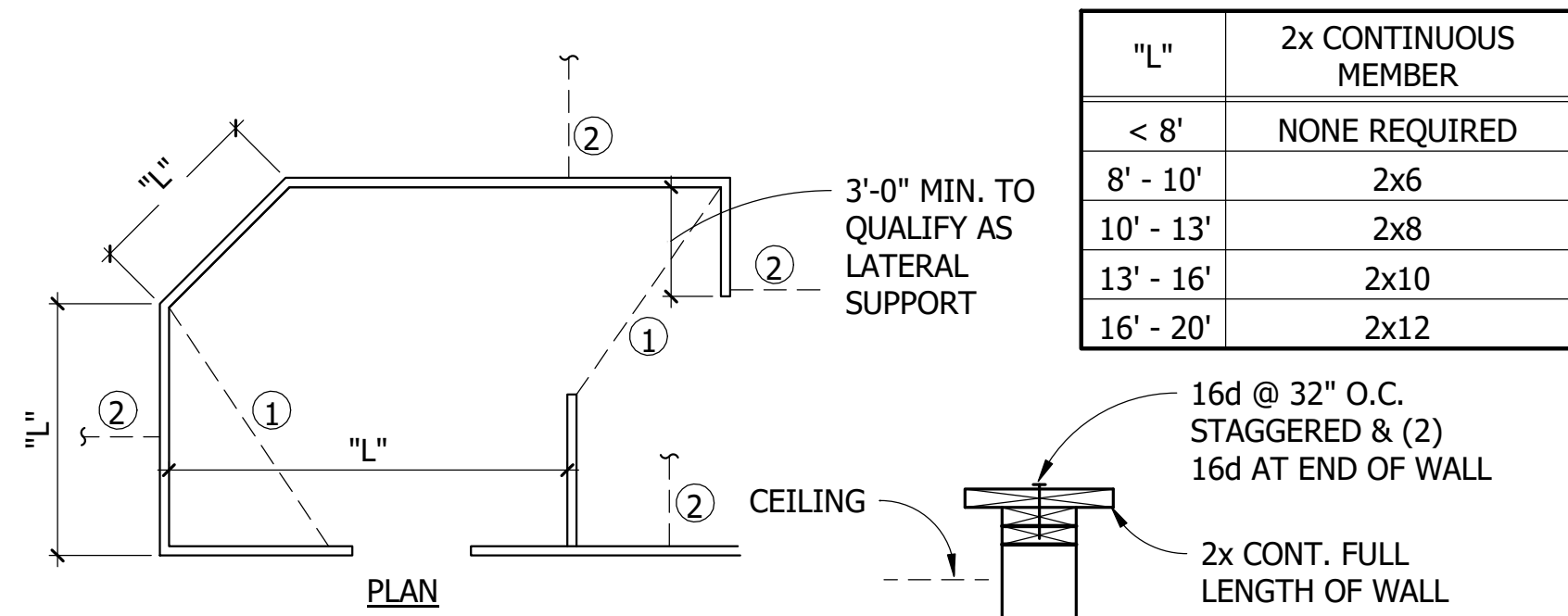
SCALE

AS NOTED



SHEET 31 of 56

BID SET PARKS FILE#



NOTES:

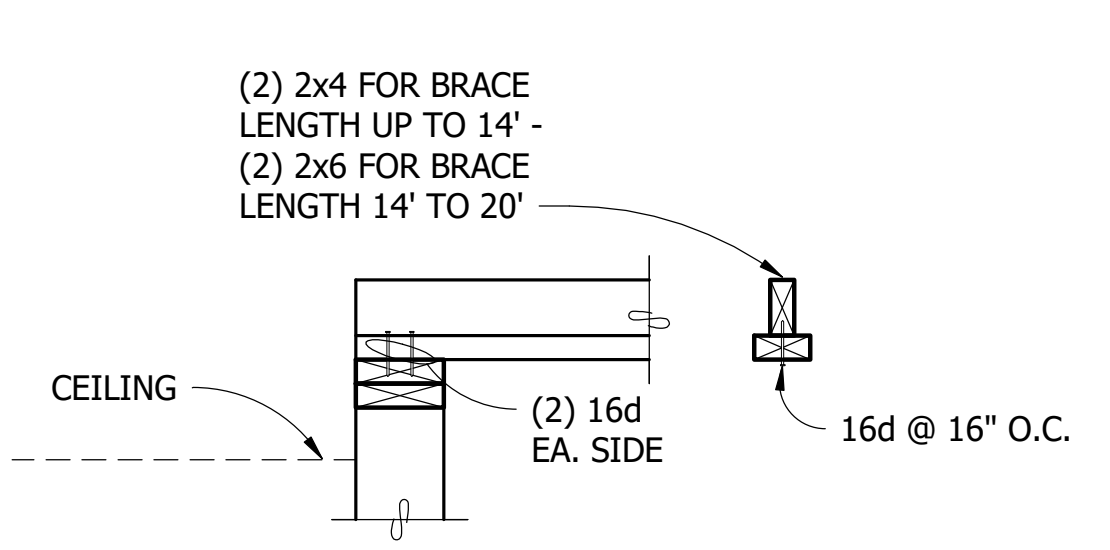
- THIS PLAN IS AN EXAMPLE ONLY IT DOES NOT REPRESENT A SPECIFIC WALL.
- "L" INDICATES UNBRACED LENGTH OF WALLS.
- AT CONTRACTORS OPTION IN LIEU OF EXTRA TOP PLATE.

① INDICATES HORIZONTAL BRACE EXTENDING TO ADJACENT CORNER SEE 2/S4.04.

② INDICATES BRACE UP TO ROOF STRUCTURE SEE 3/S4.04.

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

1 **DETAIL**
S4.04 NO SCALE

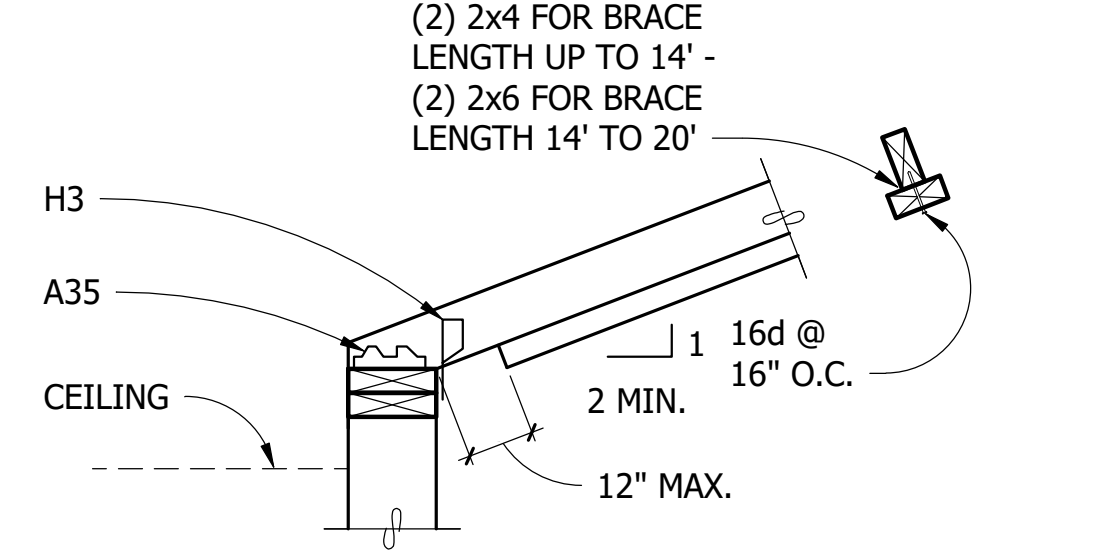


NOTES:

- MAXIMUM SPACING OF BRACES = 10'-0".
- BRACES NOT REQUIRED WITHIN 8'-0" OF OTHER LATERAL WALL SUPPORT, CORNERS AND INTERSECTIONS.

TYPICAL TOP OF WALL BRACE (HORIZONTAL)

2 **SECTION**
S4.04 NO SCALE

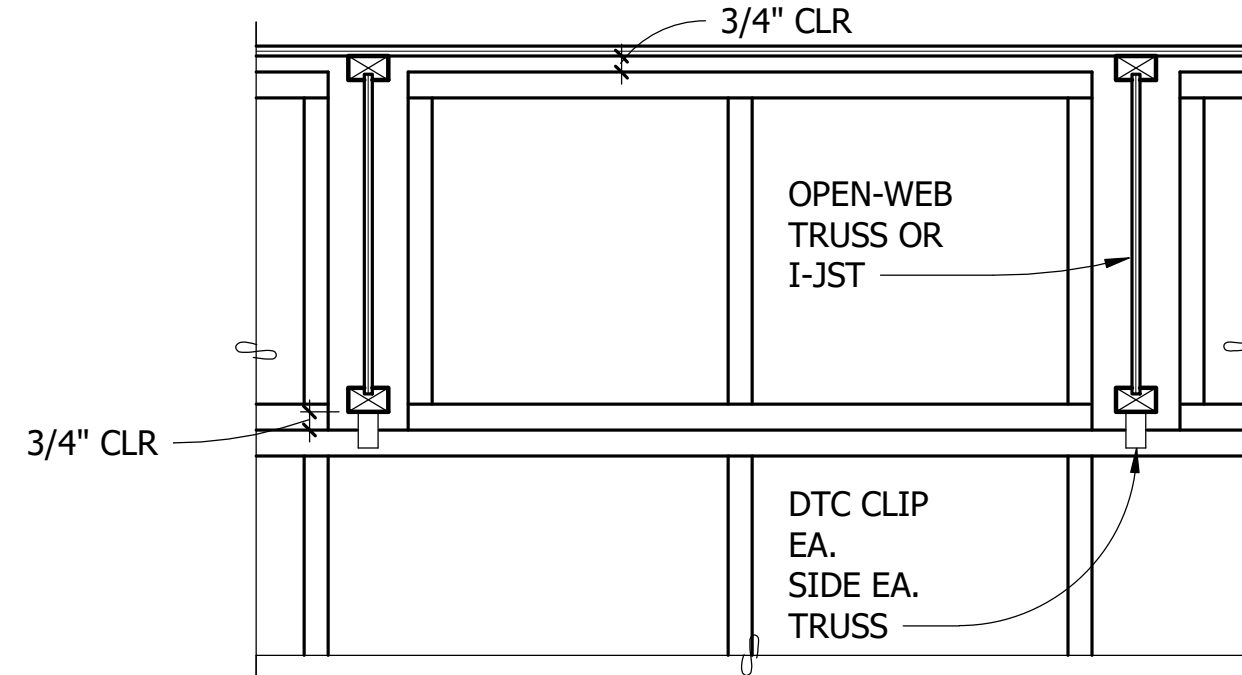


NOTES:

- MAXIMUM SPACING OF BRACES = 10'-0".
- BRACES NOT REQUIRED WITHIN 8'-0" OF OTHER LATERAL WALL SUPPORT, CORNERS AND INTERSECTIONS.

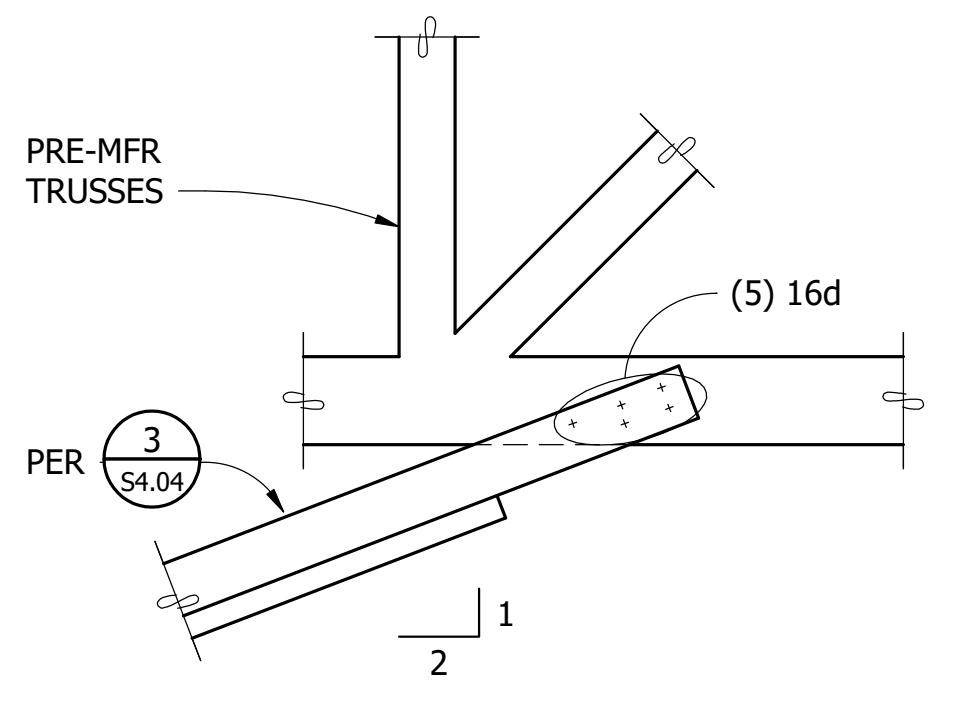
TYPICAL TOP OF WALL BRACE UP TO STRUCTURE

3 **SECTION**
S4.04 NO SCALE



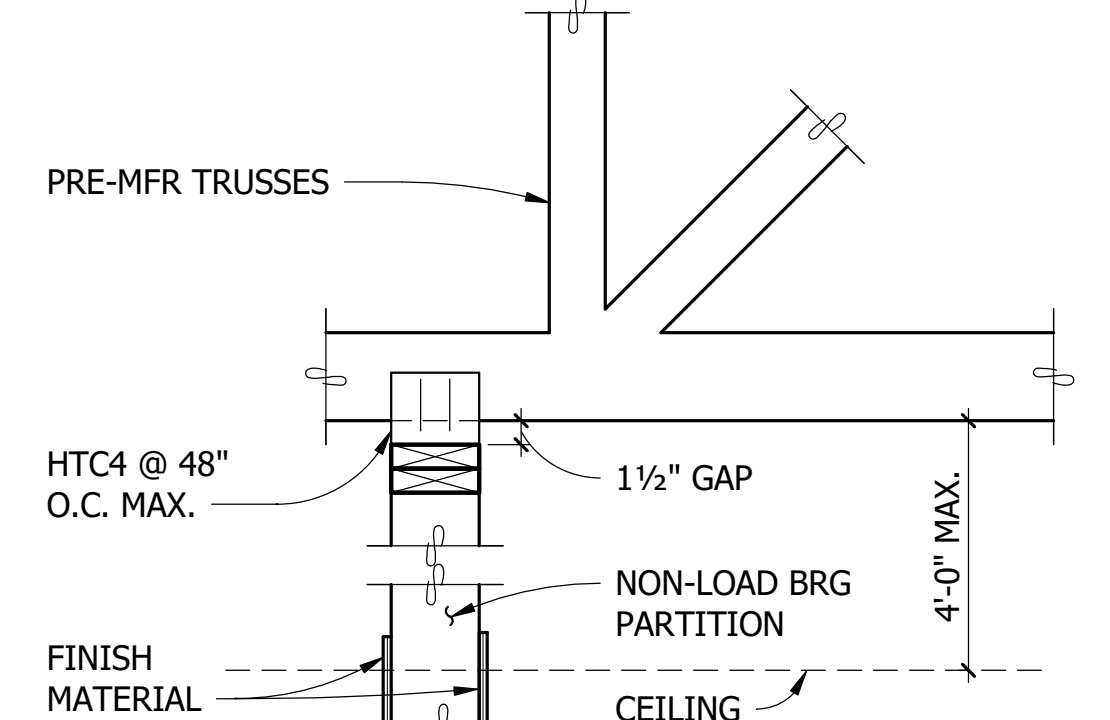
TYPICAL CONNECTION AT TOP OF NON-BEARING WALL EXTENDING TO ROOF STRUCTURE PERPENDICULAR TO JOISTS

4 **SECTION**
S4.04 NO SCALE



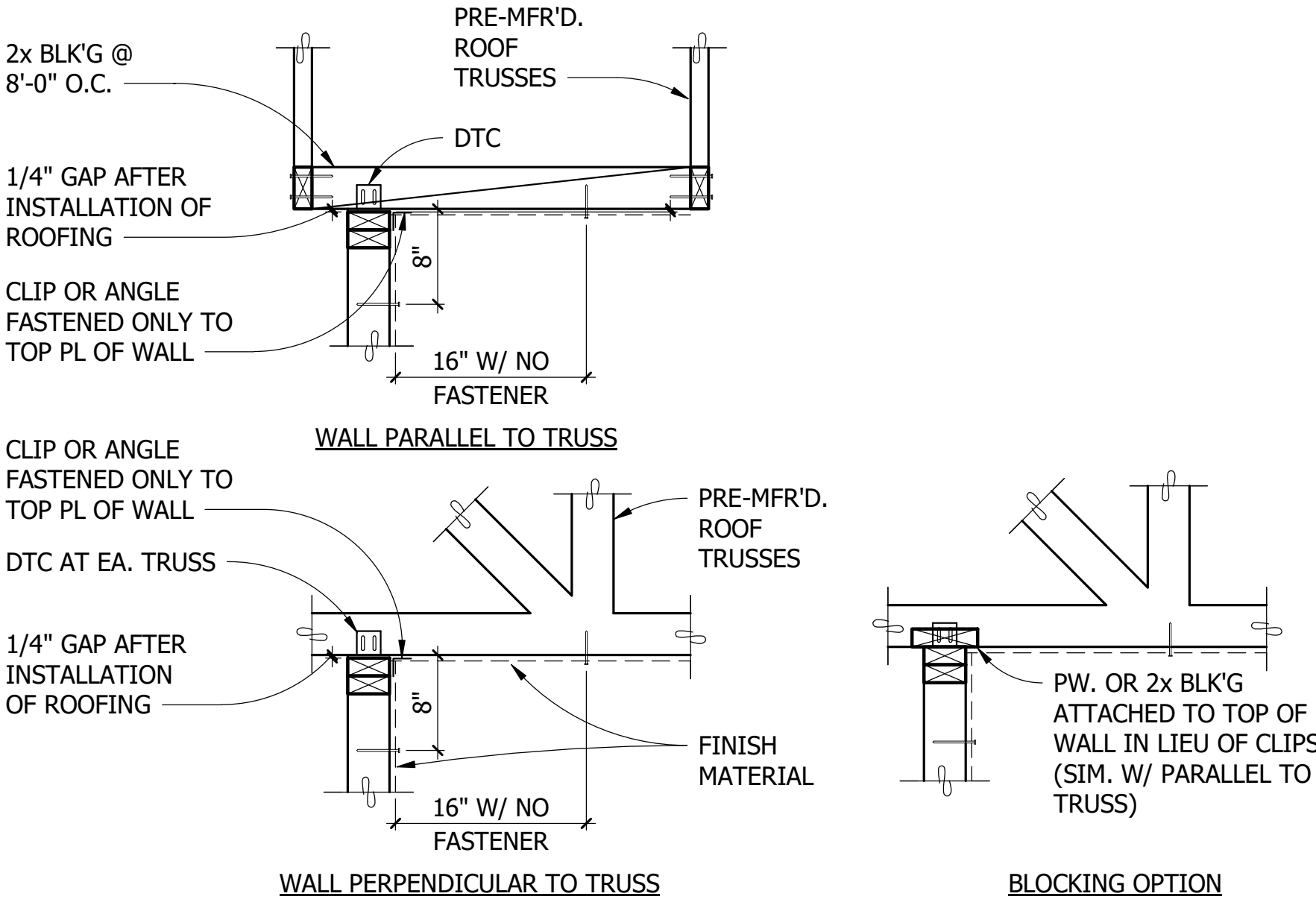
TYPICAL BRACE CONNECTION PARALLEL TO TRUSS

5 **SECTION**
S4.04 NO SCALE



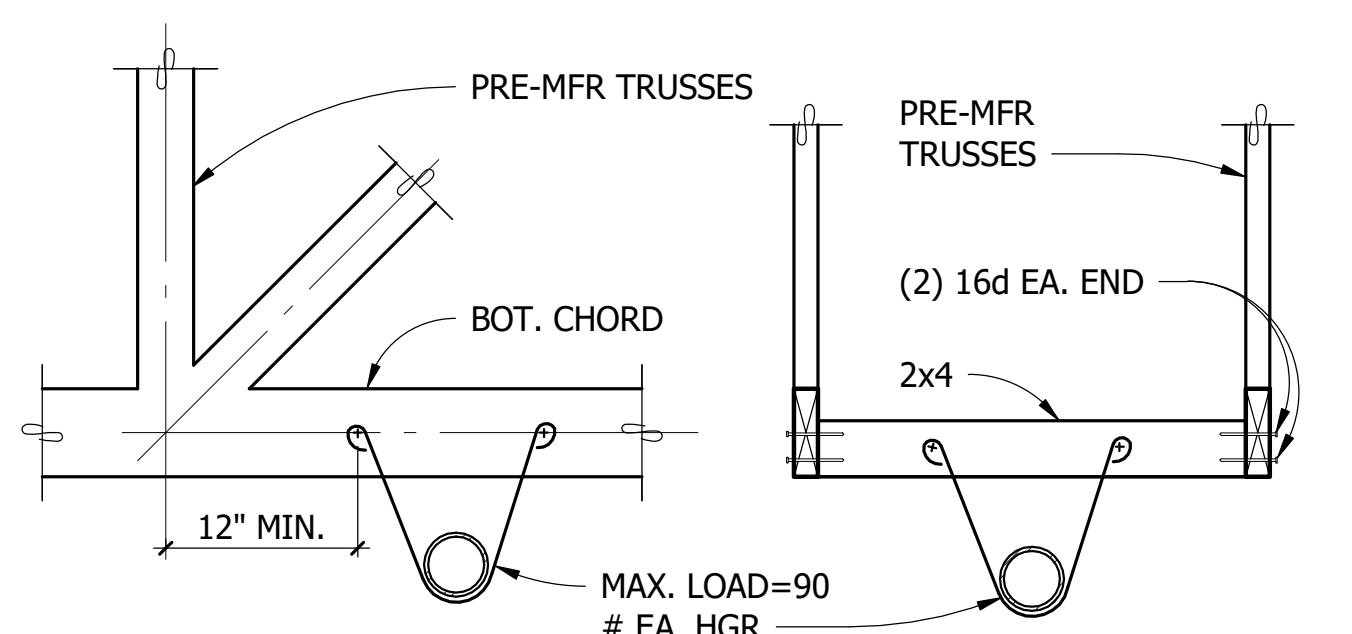
TYPICAL AT TRUSSES PERPENDICULAR TO WALL

6 **SECTION**
S4.04 NO SCALE



TYPICAL WALL PARALLEL/PERPENDICULAR TO TRUSS

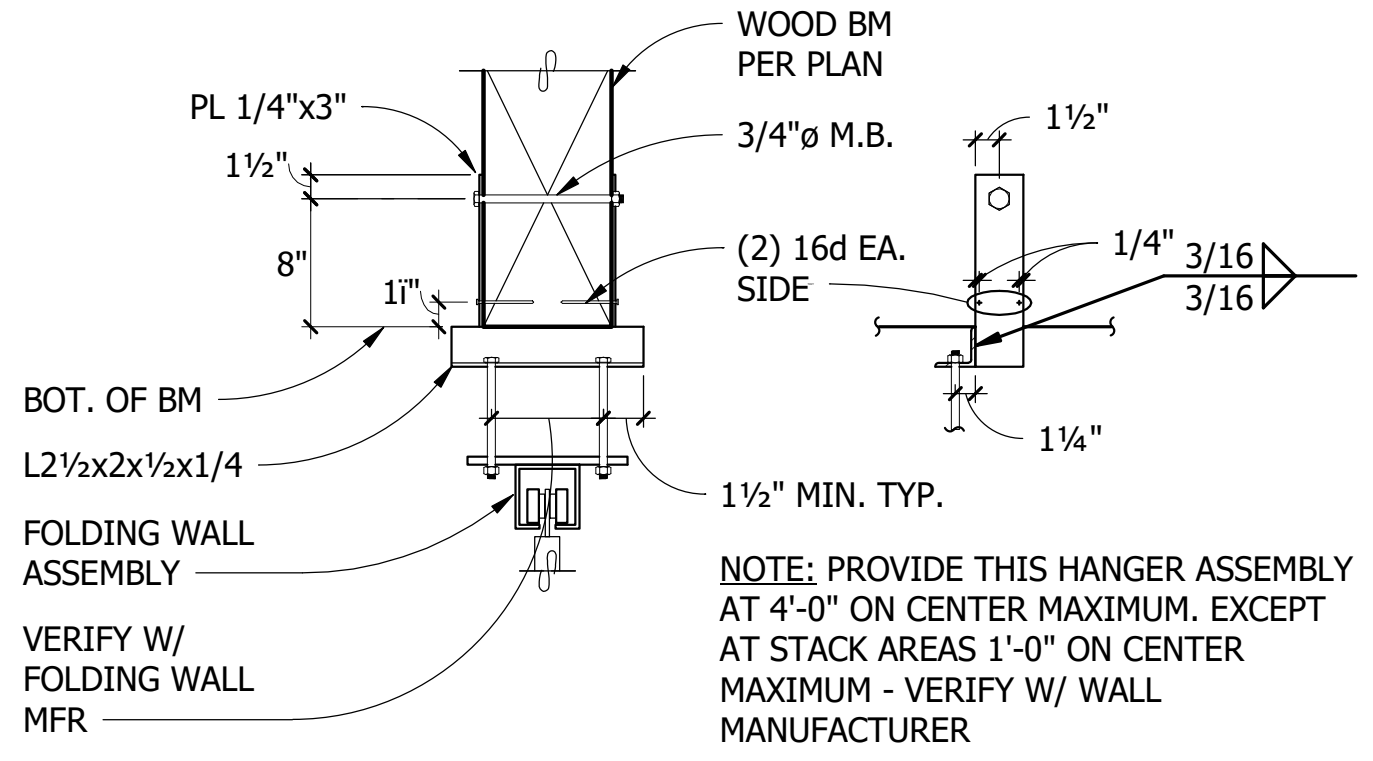
7 **SECTION**
S4.04 NO SCALE



NOTES: FOR LINES GREATER THAN 3"Ø, HANG FROM GLULAM BEAMS OR STUD WALL OR SUPPORT OFF WALLS WHEN SPECIFICALLY APPROVED BY STRUCTURAL ENGINEER.

TYPICAL SPRINKLER LINE ATTACHMENT FOR LINES 3"Ø OR SMALLER

8 **SECTION**
S4.04 NO SCALE



NOTE: PROVIDE THIS HANGER ASSEMBLY AT 4'-0" ON CENTER MAXIMUM. EXCEPT AT STACK AREAS 1'-0" ON CENTER MAXIMUM - VERIFY W/ WALL MANUFACTURER

TYPICAL FOLDING WALL SUPPORT AT WOOD BEAM

9 **SECTION**
S4.04 NO SCALE

CAD NO.		
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	APP.	
	INT.	
	REVISIONS	
		NO.

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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE BUILDING

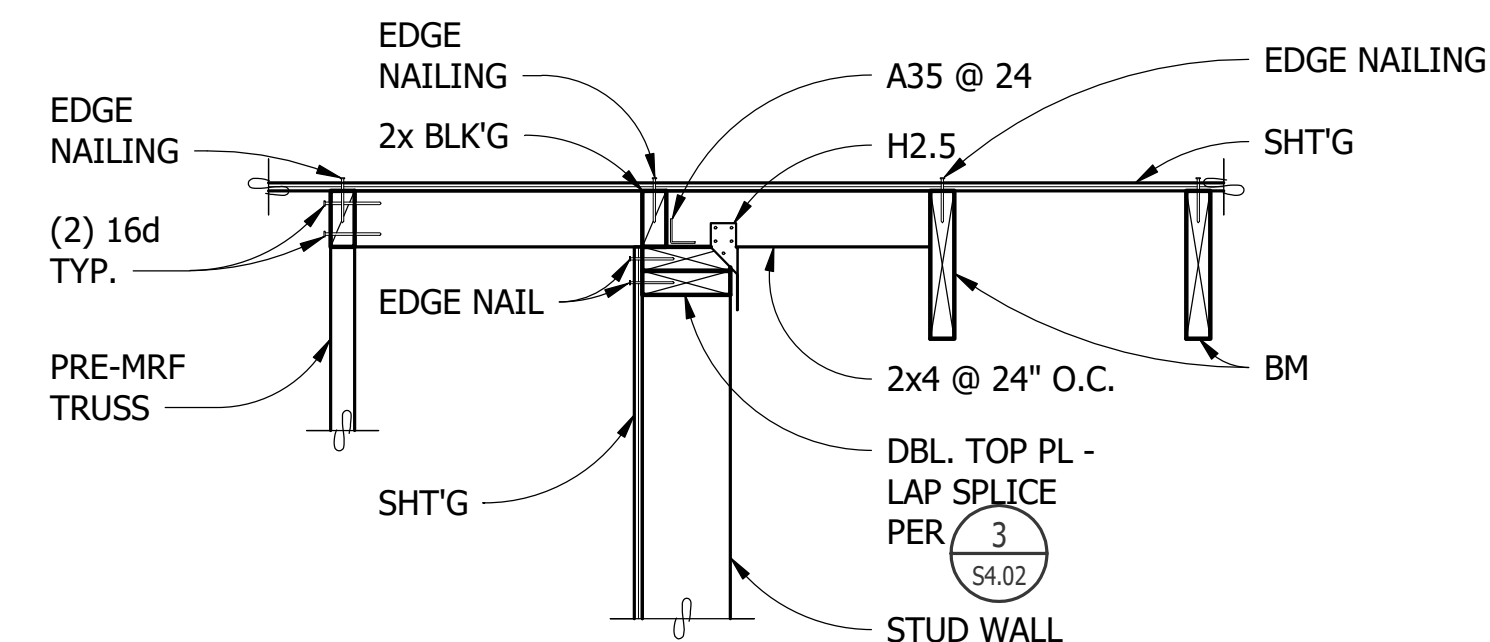
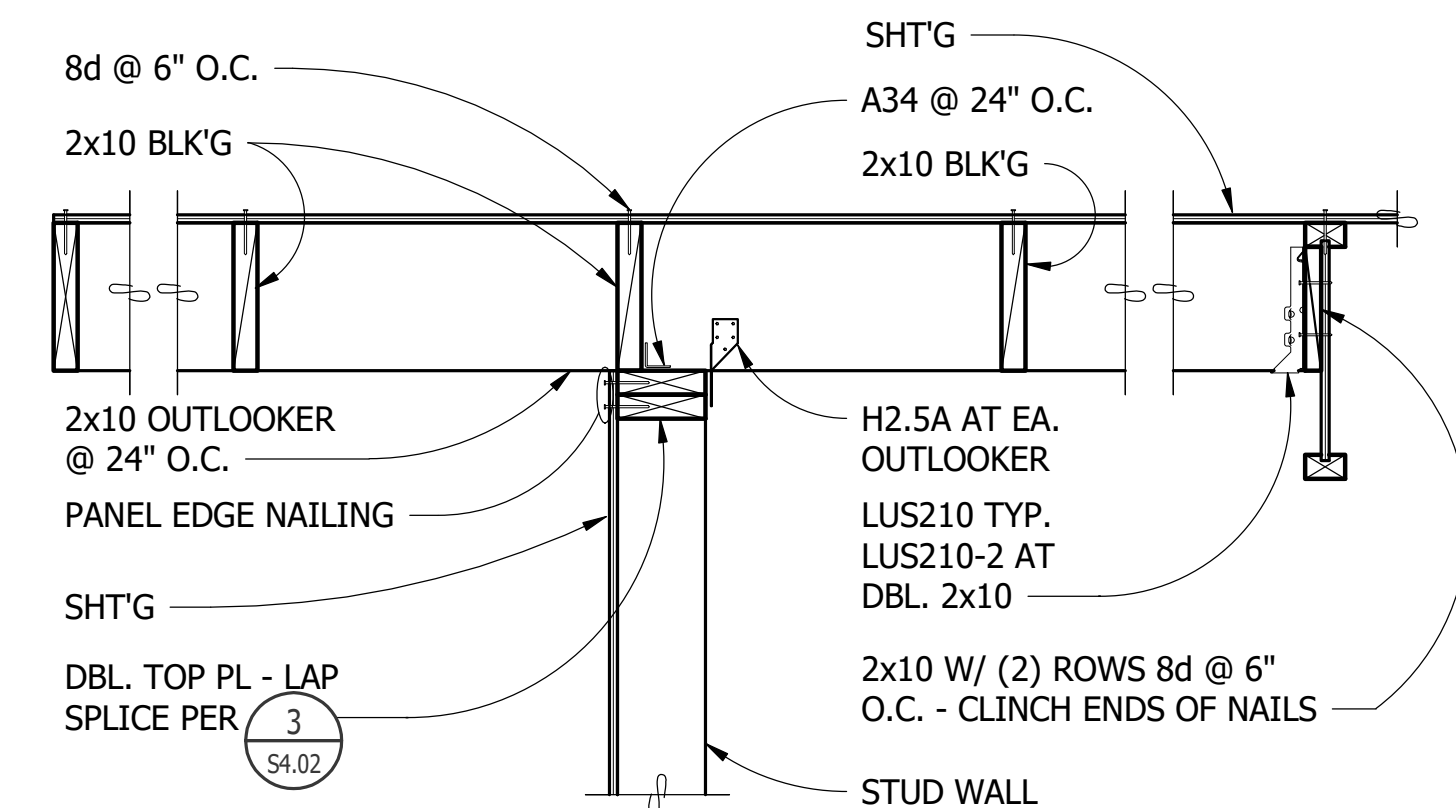
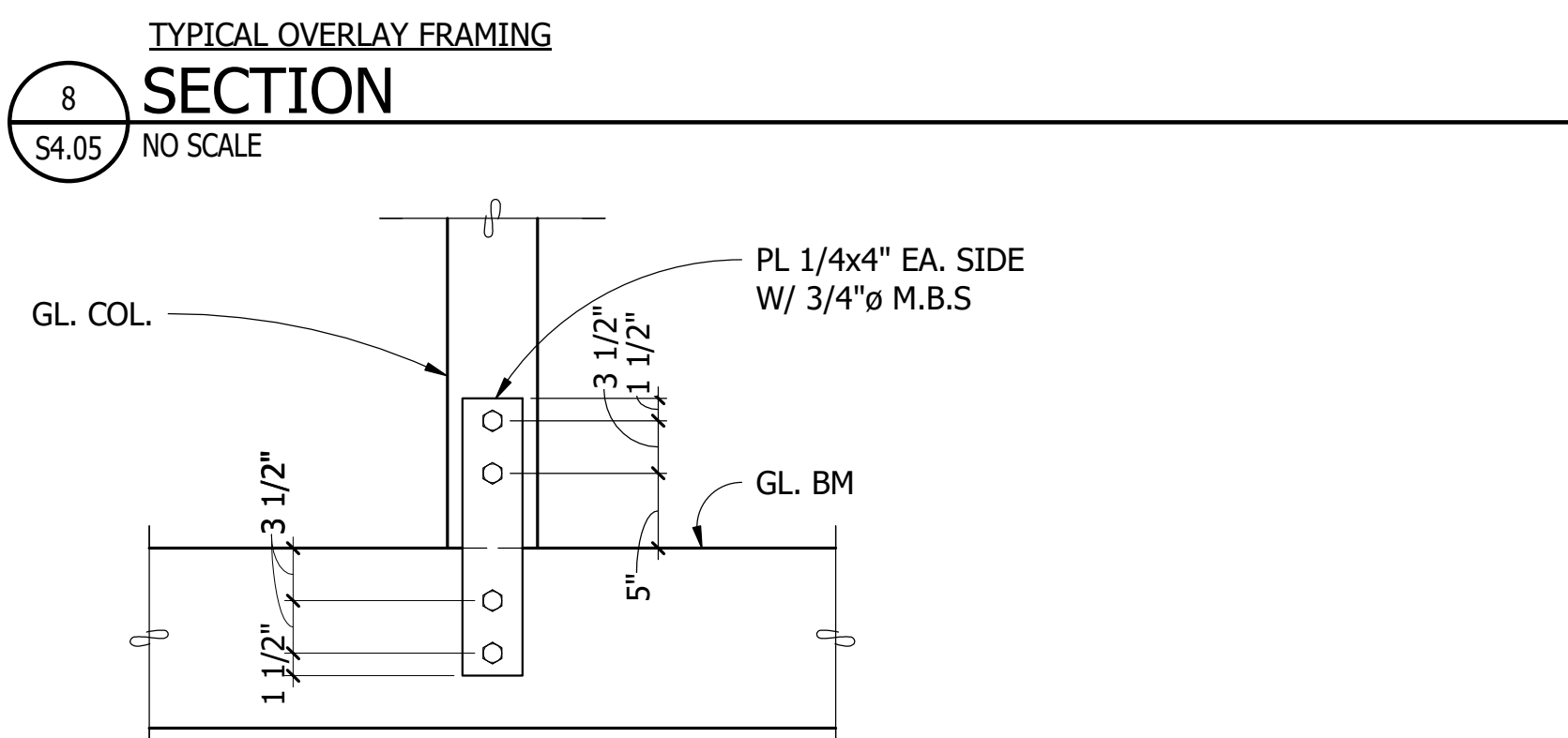
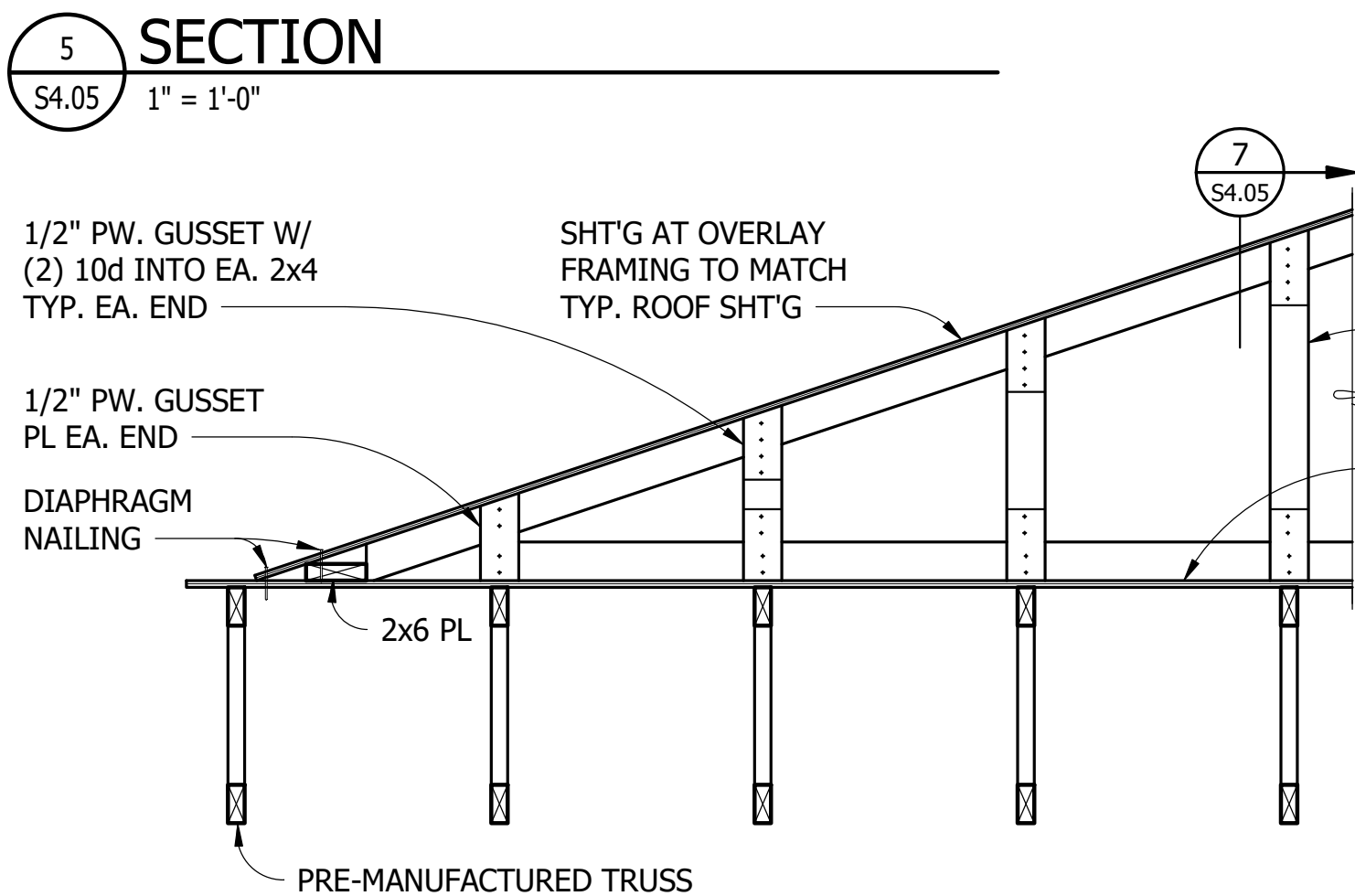
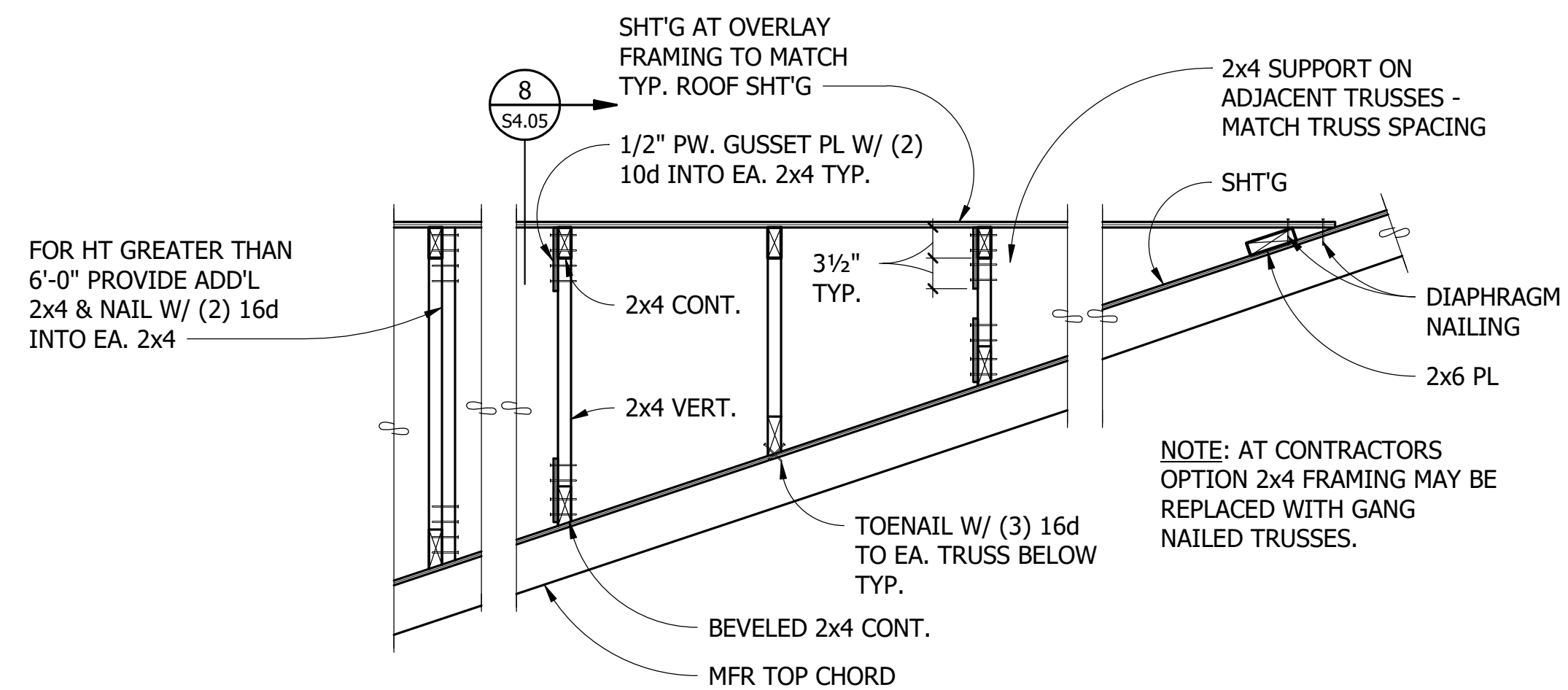
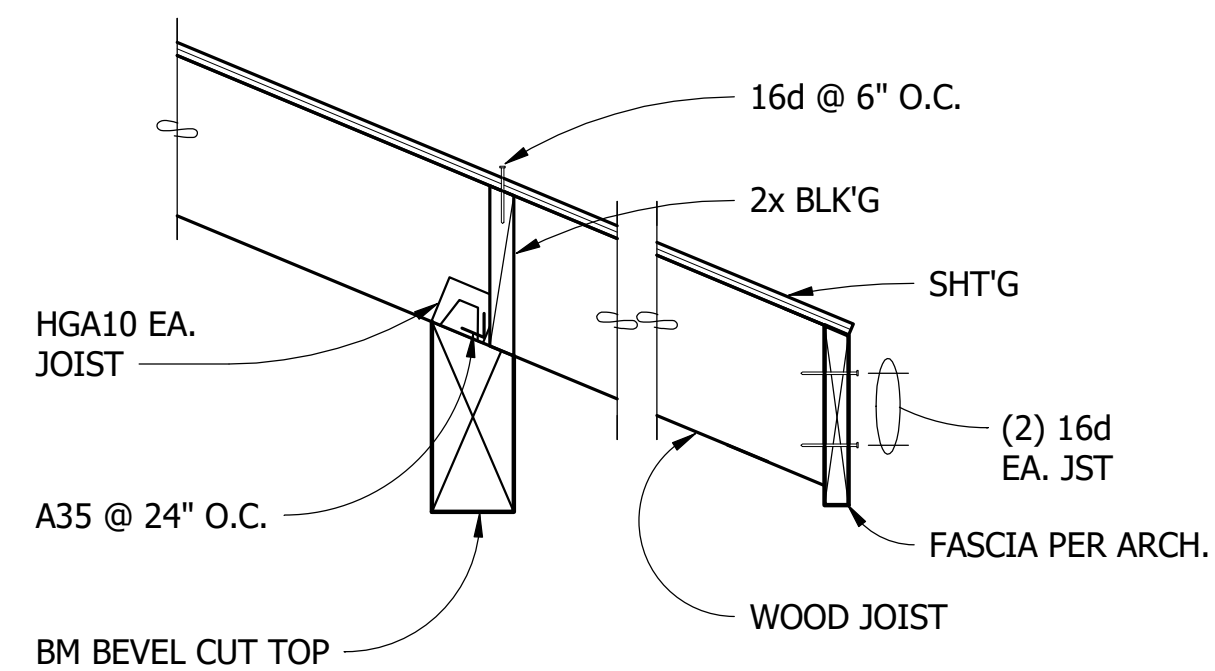
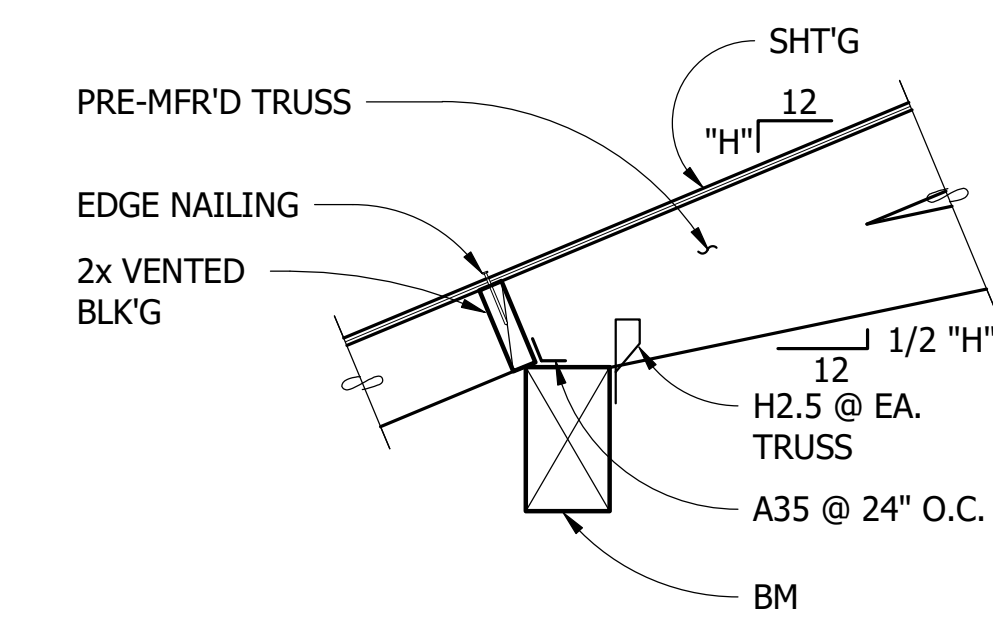
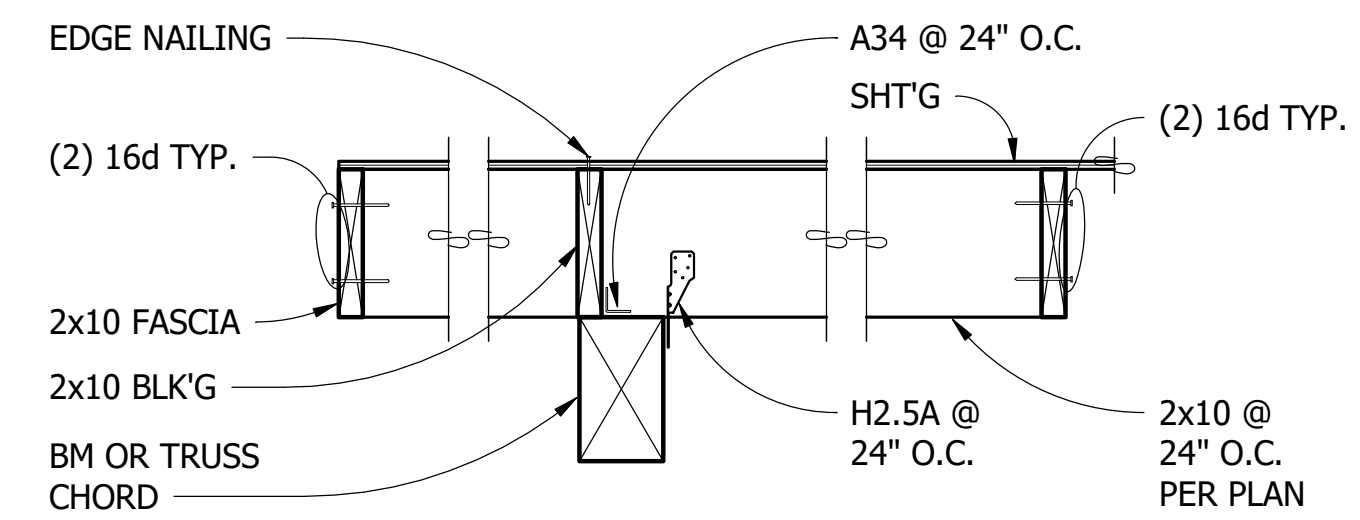
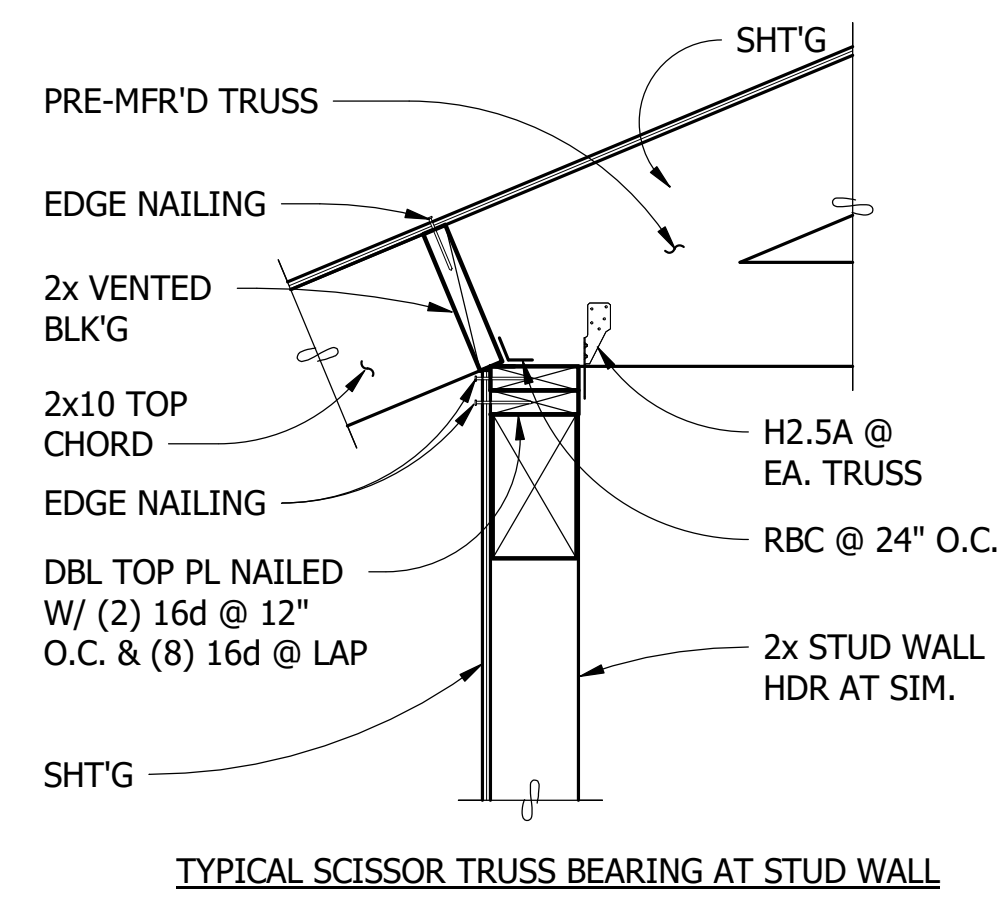
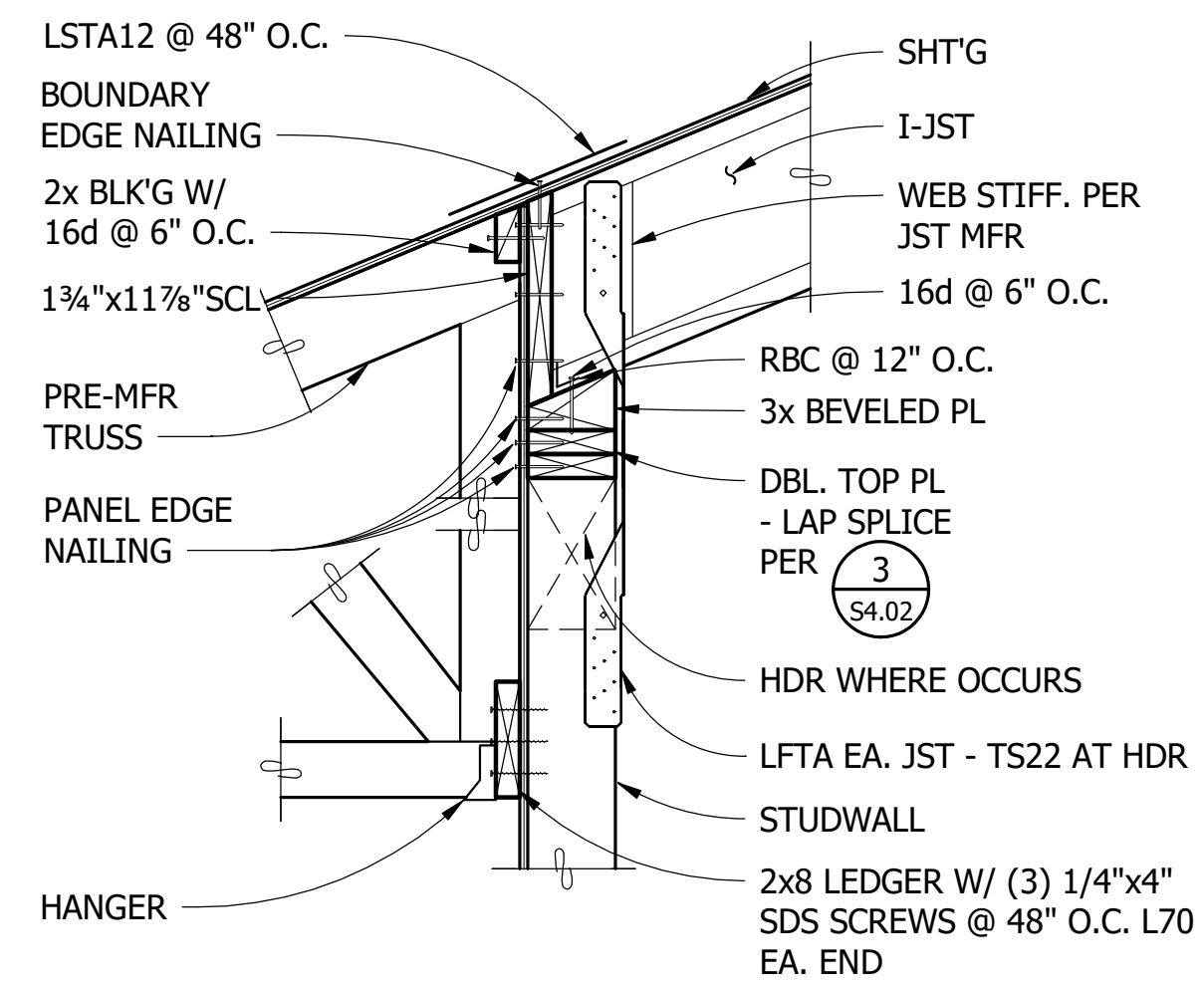
FRAMING DETAILS

S4.04



SCALE AS NOTED

C:_Revit Models\190116 Kopachuck St. Park - Day Use v2018 (Central)_DanH+PCS.rvt 11/10/2023 5:59:27 PM



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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE BUILDING

ROOF FRAMING DETAILS

S4.05

SCALE

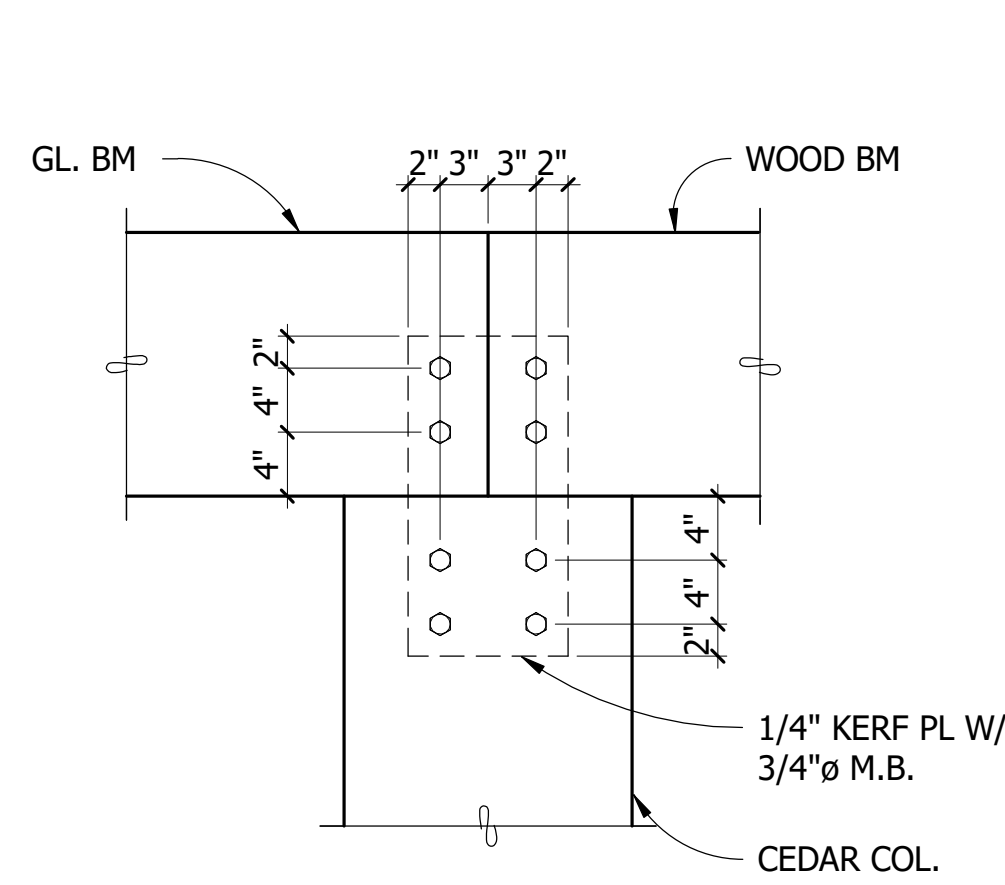
AS NOTED



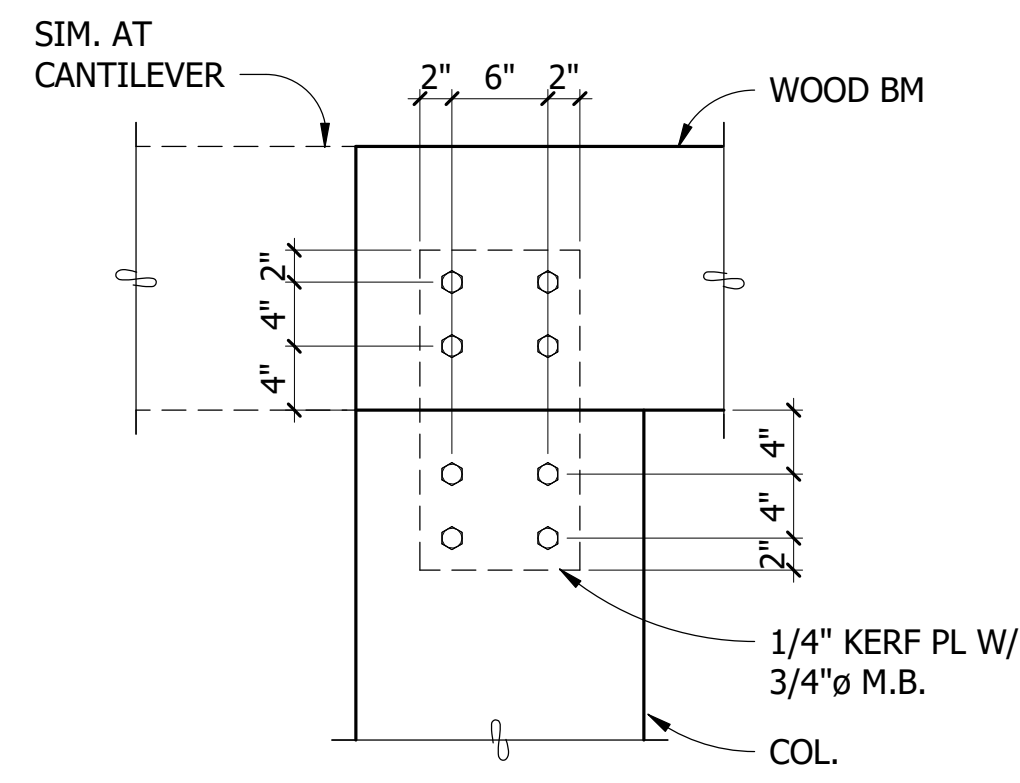
SHEET 33 of 56

BID SET

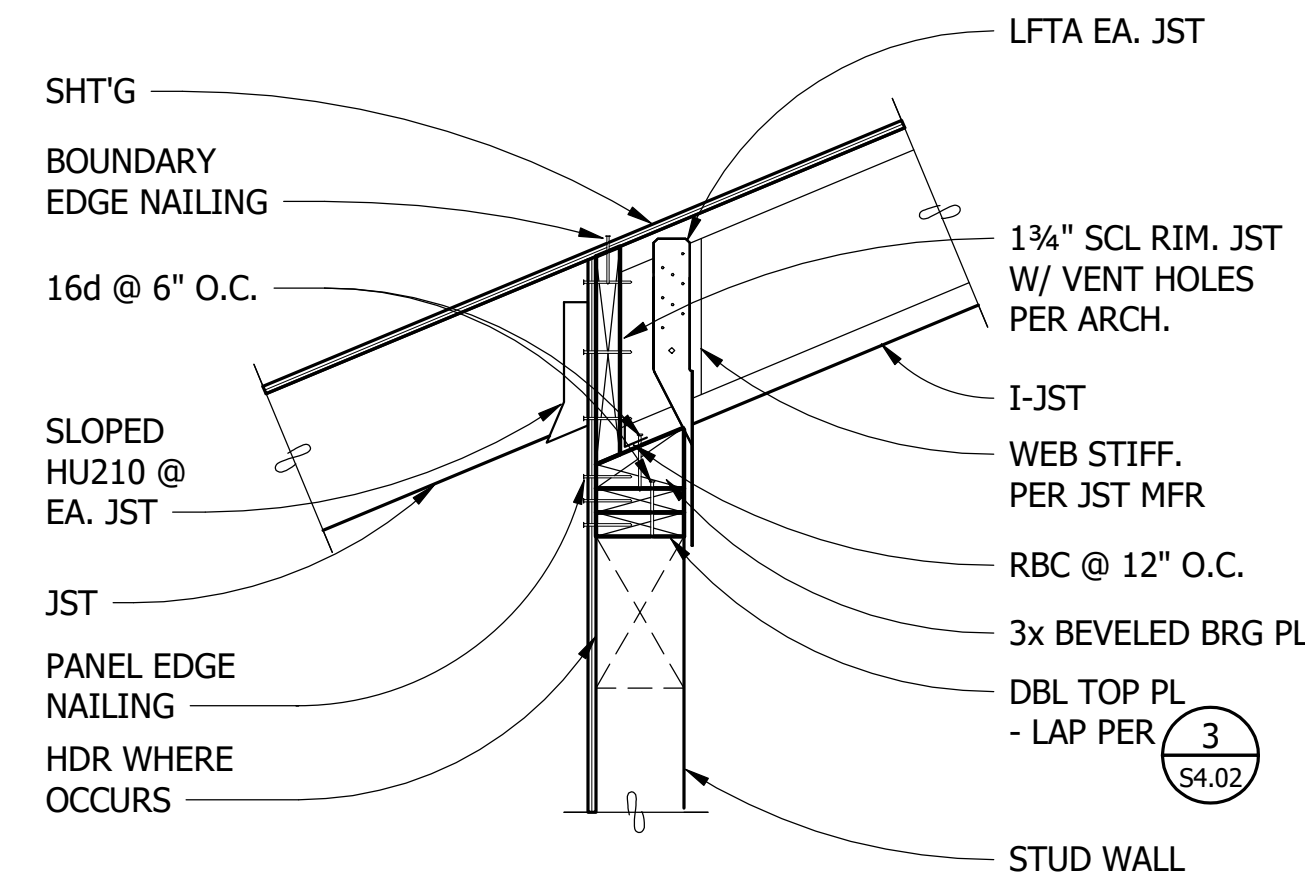
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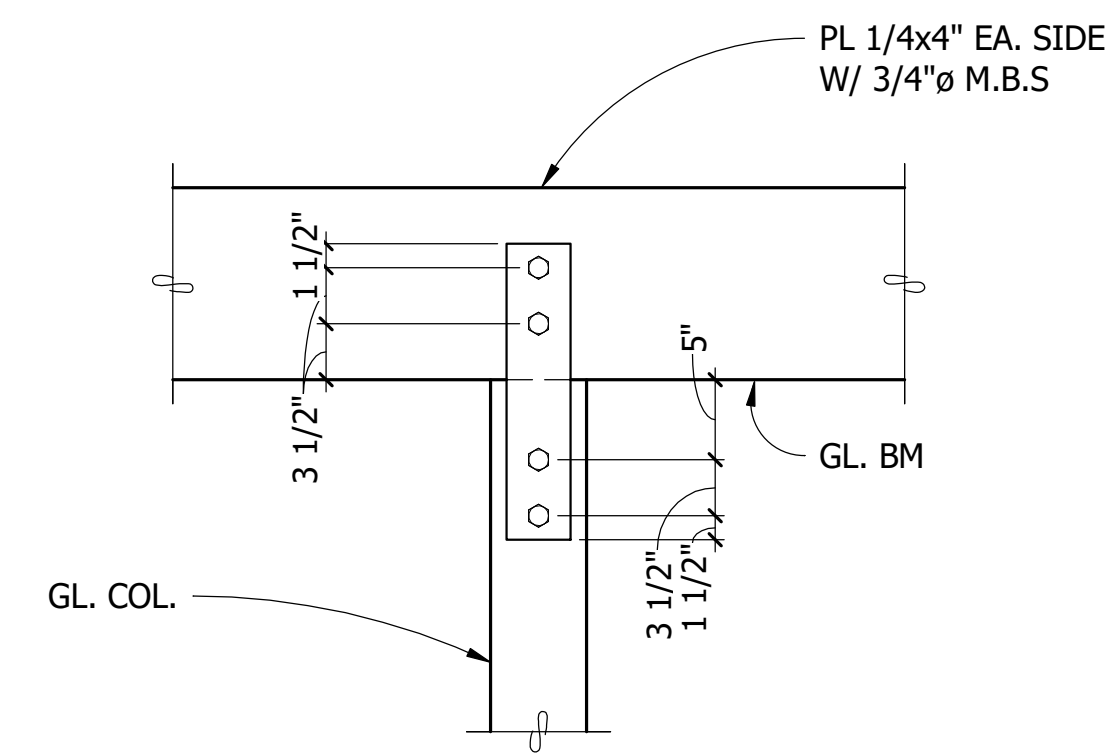
1 SECTION
S4.06 1" = 1'-0"



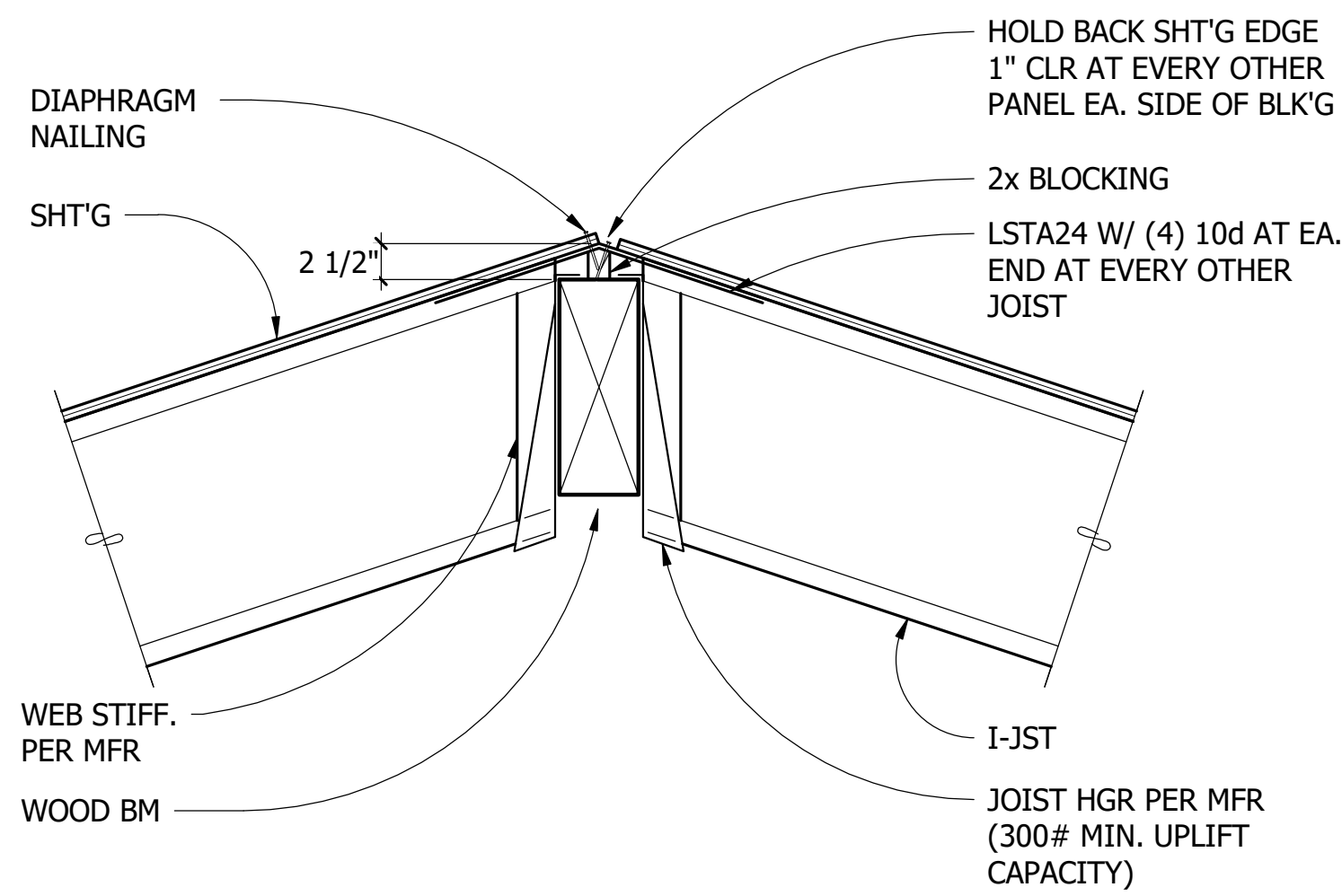
2 SECTION
S4.06 1" = 1'-0"



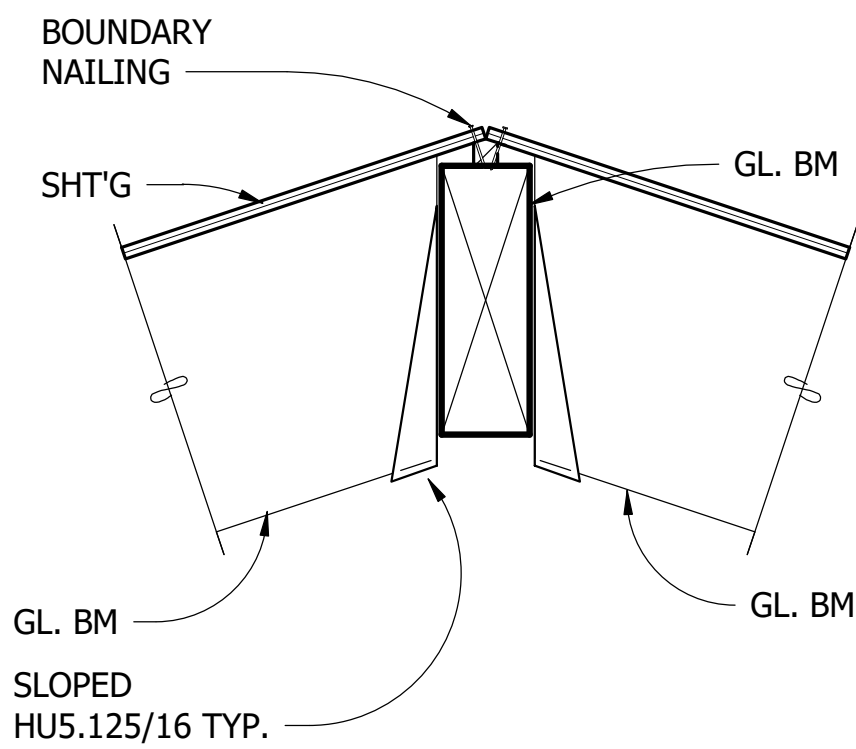
3 SECTION
S4.06 NO SCALE



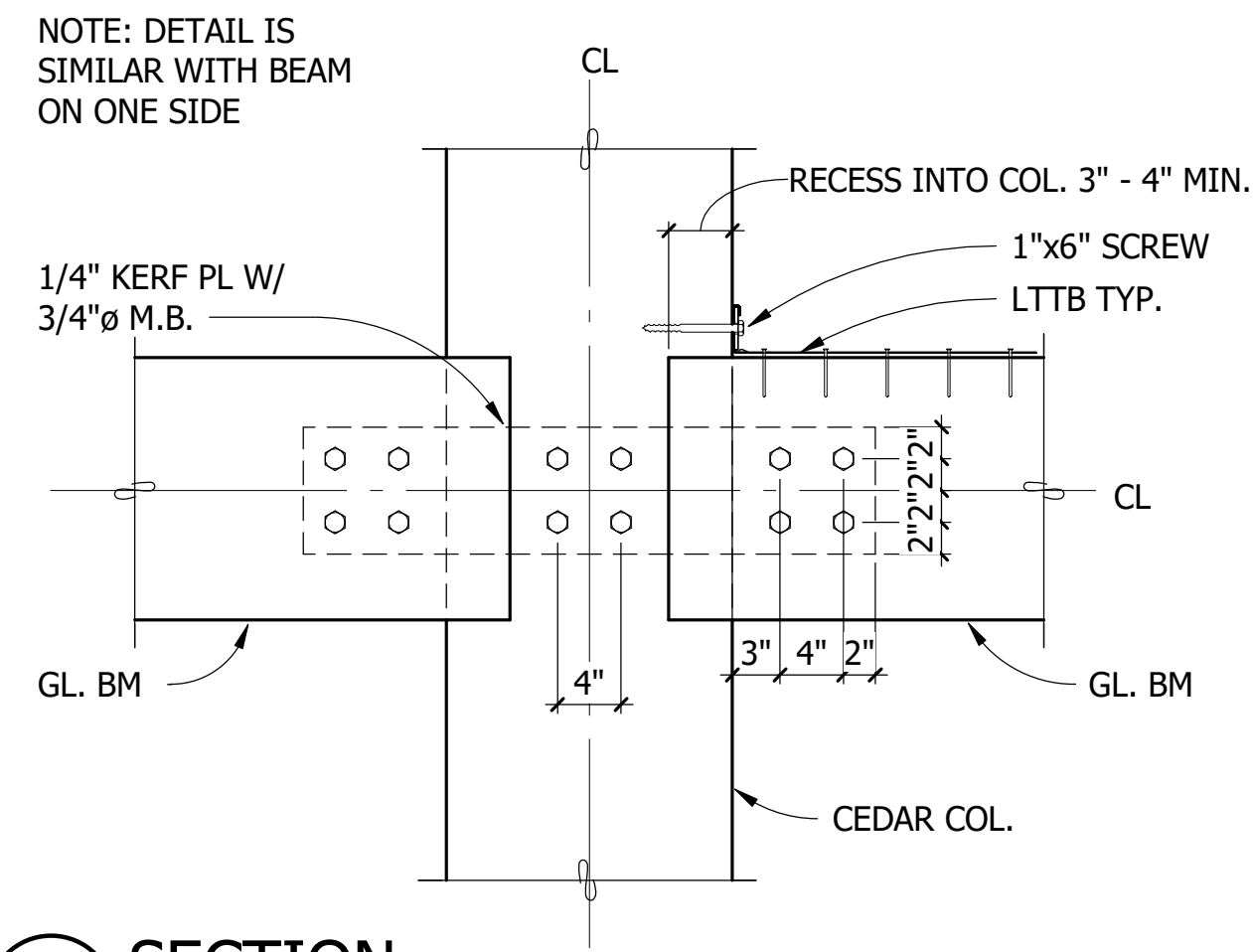
4 SECTION
S4.06 1" = 1'-0"



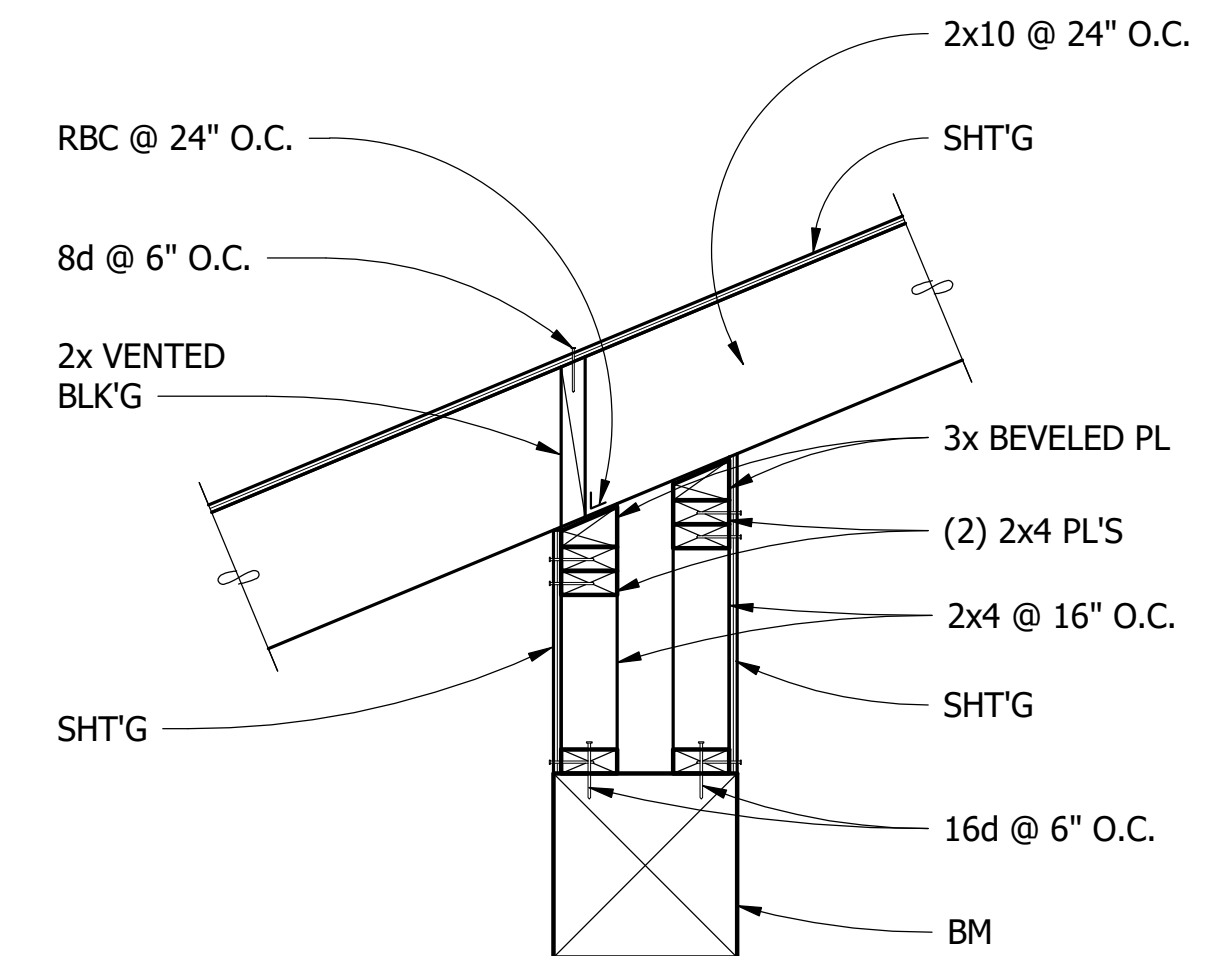
5 SECTION
S4.06 NO SCALE



6 SECTION
S4.06 NO SCALE



7 SECTION
S4.06 1" = 1'-0"



8 SECTION
S4.06 1" = 1'-0"

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		REVISIONS
		NO.

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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

DAY USE BUILDING

ROOF FRAMING DETAILS

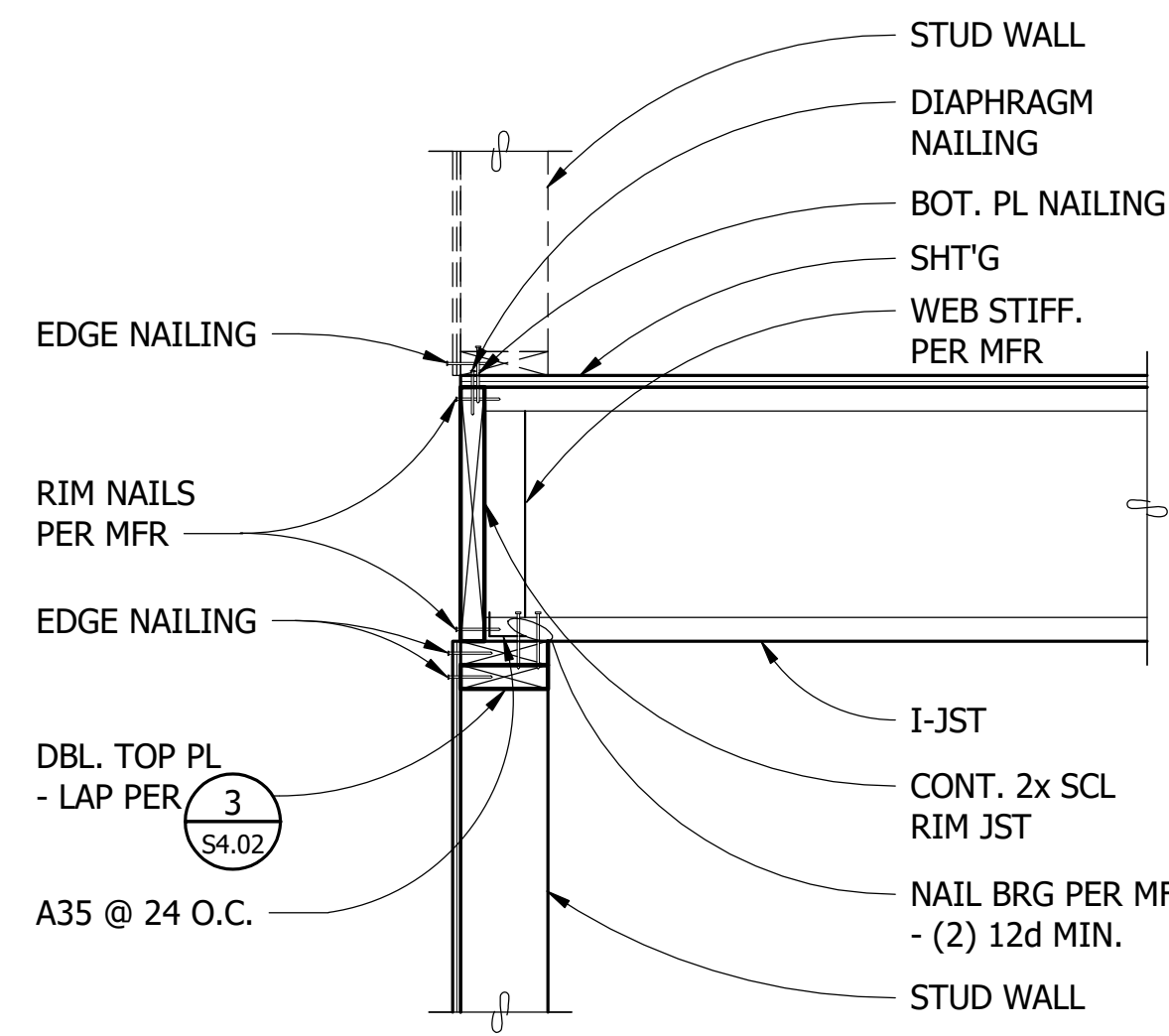
S4.06



SHEET 34 of 56

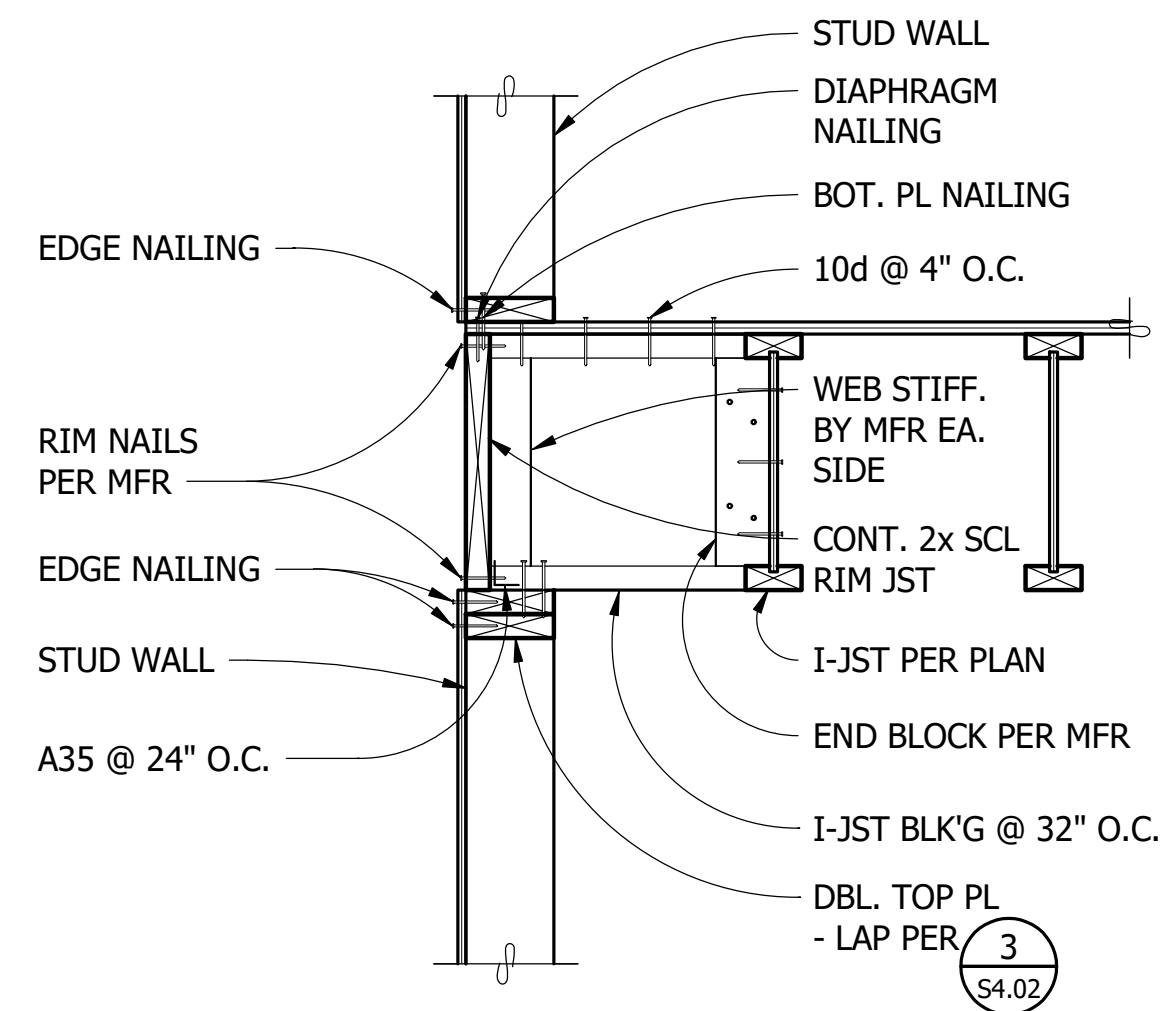
SCALE	AS NOTED
BID SET	PARKS FILE#

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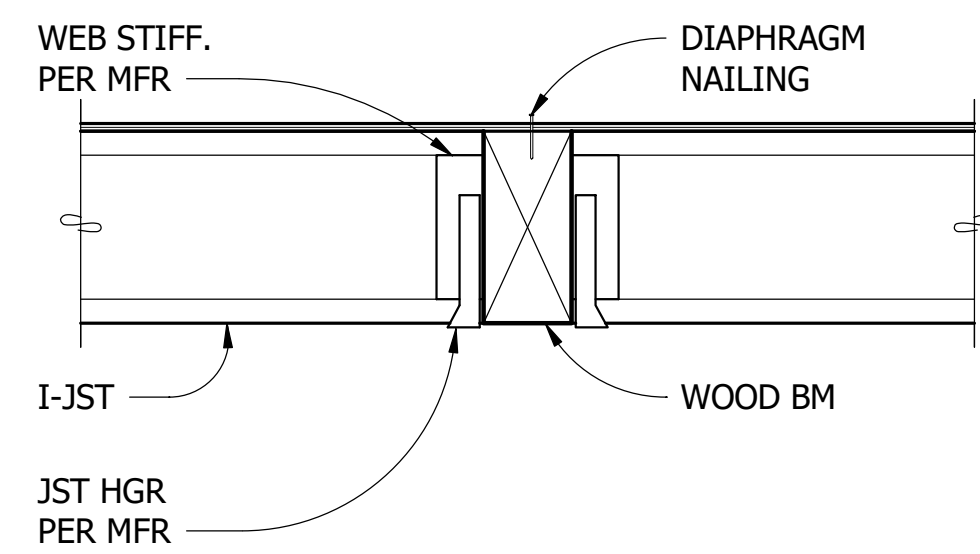
TYPICAL I-JOIST BEARING AT EXTERIOR WALL

1 SECTION
S4.07 NO SCALE



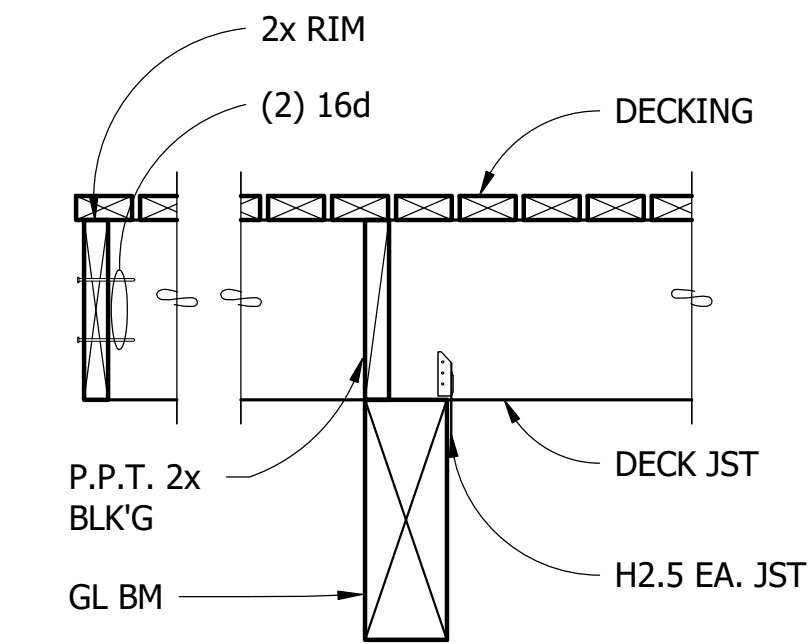
TYPICAL I-JOIST BLOCKING PARALLEL TO EXTERIOR WALL

2 SECTION
S4.07 NO SCALE



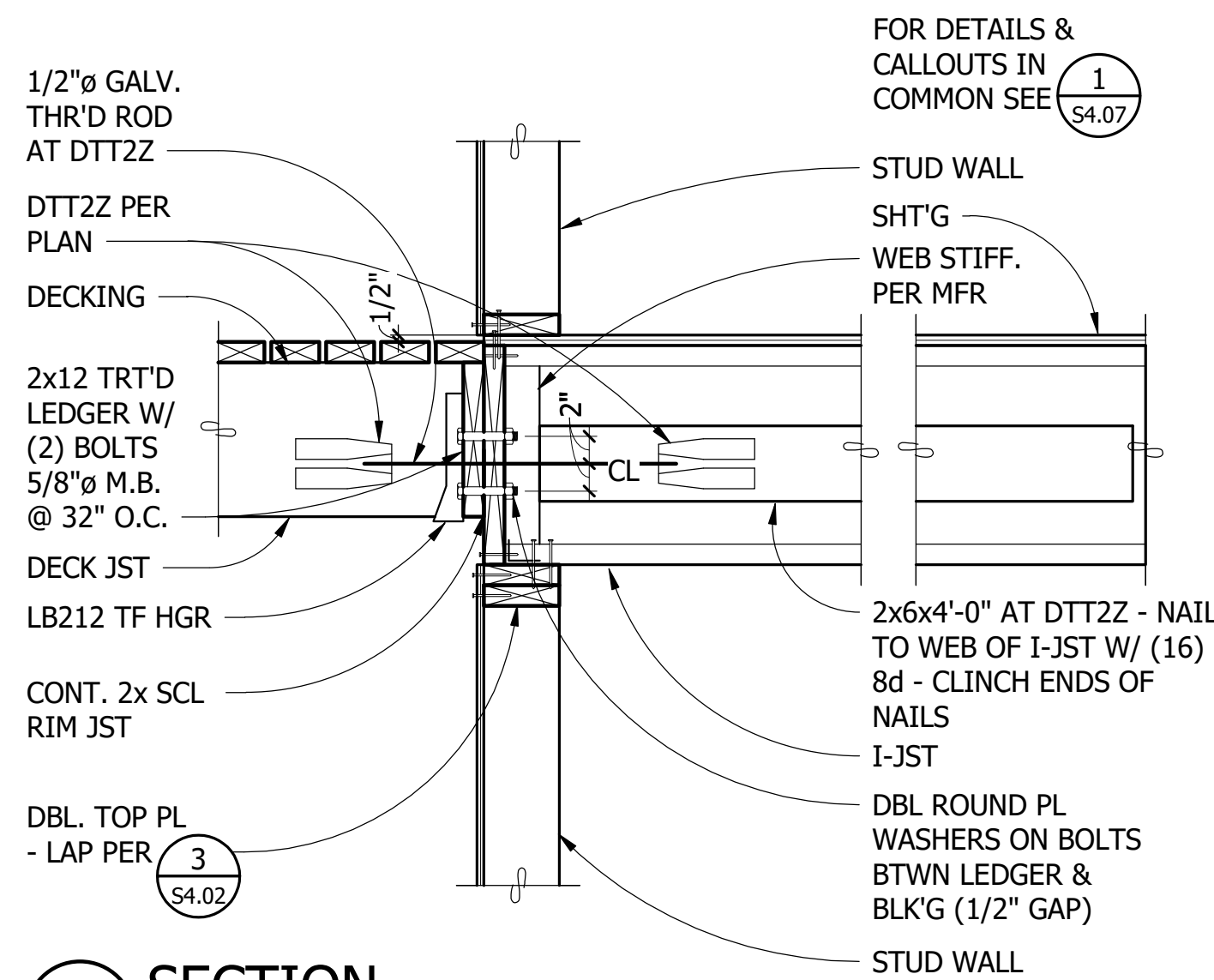
TYPICAL I-JOIST BEARING AT BEAM (EACH SIDE)

3 SECTION
S4.07 NO SCALE



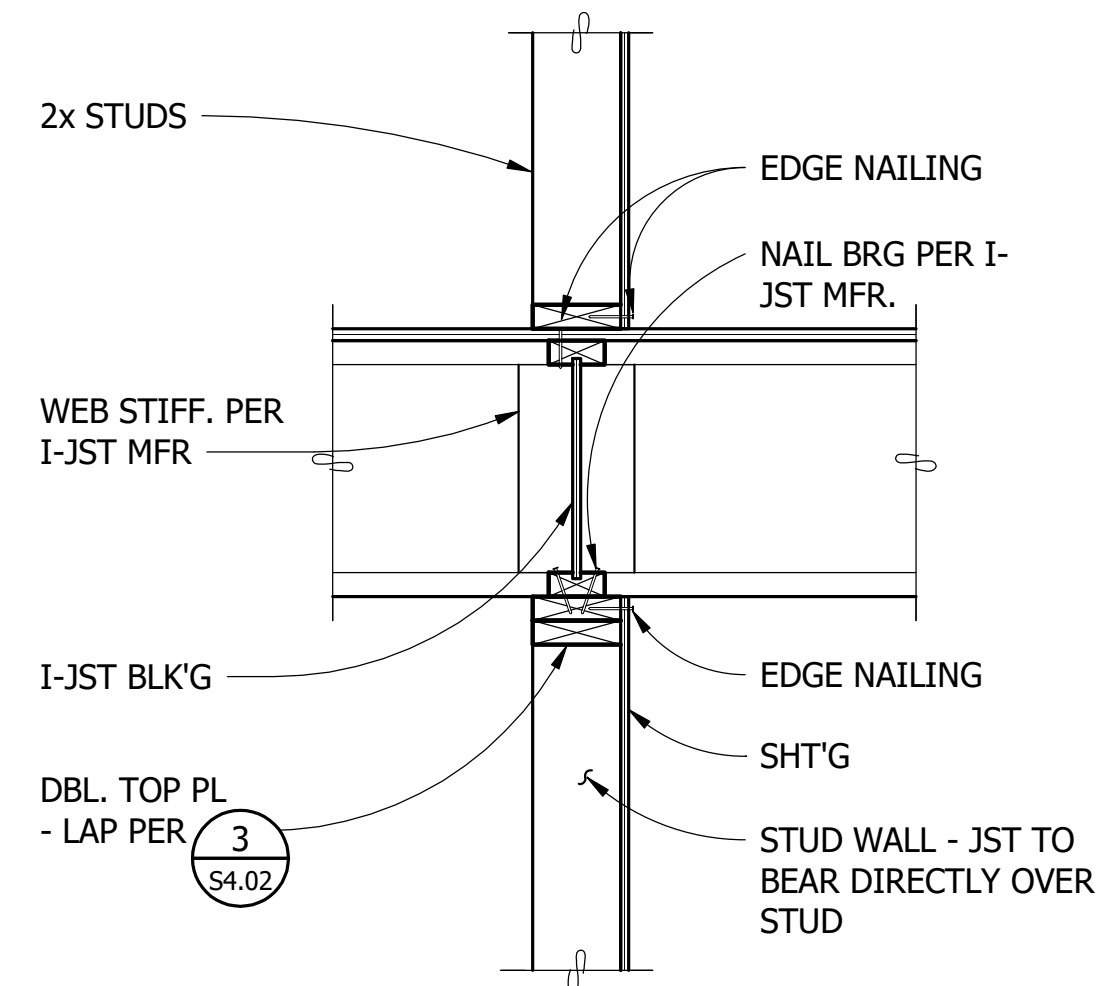
EXTERIOR DECK SUPPORT

4 SECTION
S4.07 NO SCALE



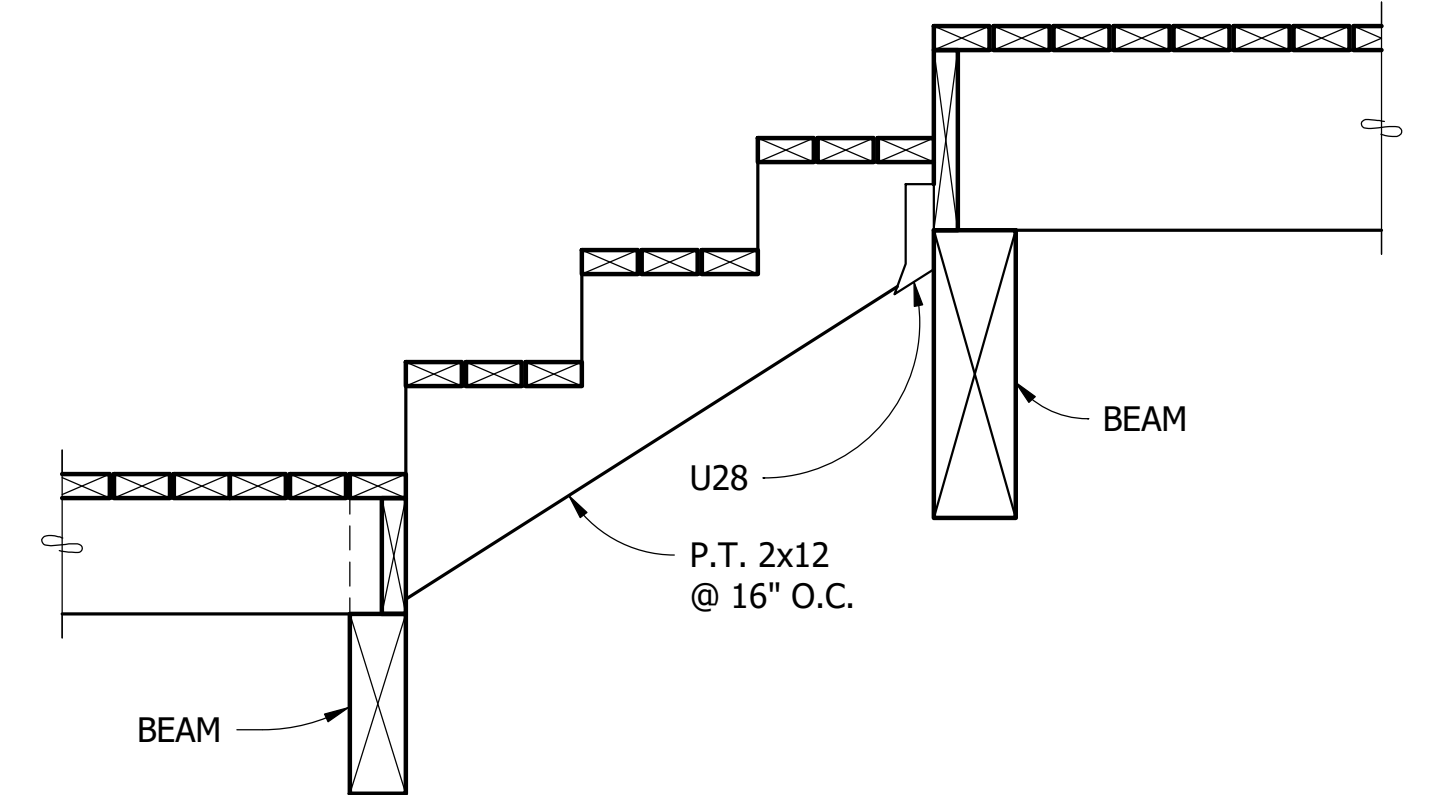
TYPICAL AT RAMP

5 SECTION
S4.07 1" = 1'-0"



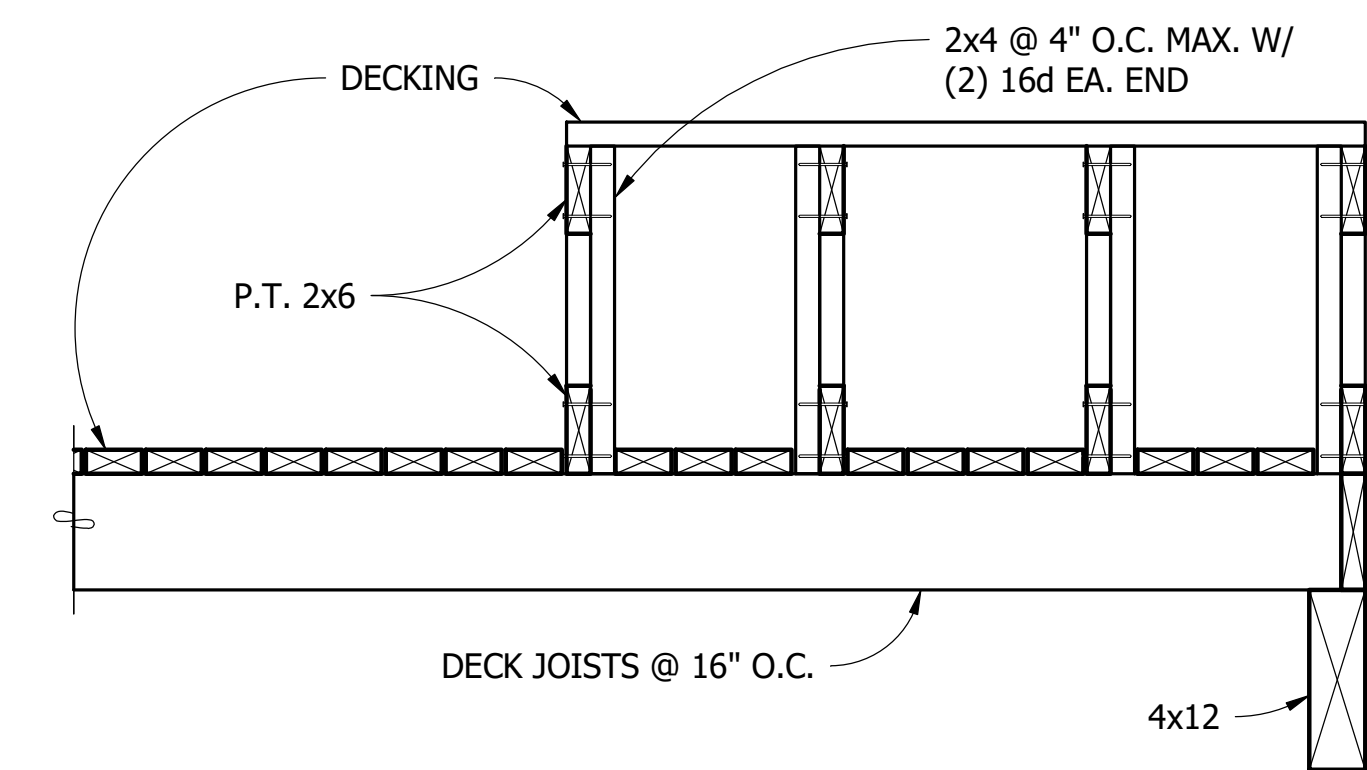
TYPICAL I-JOIST AT BEARING STUD WALL

6 SECTION
S4.07 1" = 1'-0"



TYPICAL AT RAMP

7 SECTION
S4.07 1" = 1'-0"



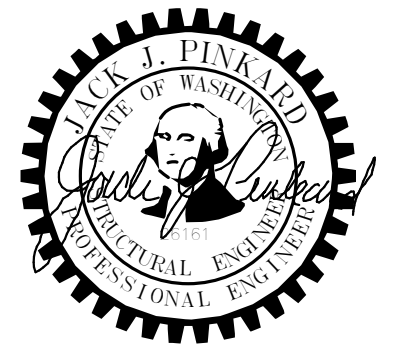
TYPICAL AT RAMP

8 DETAIL
S4.07 1" = 1'-0"

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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE BUILDING

FLOOR FRAMING DETAILS

S4.07

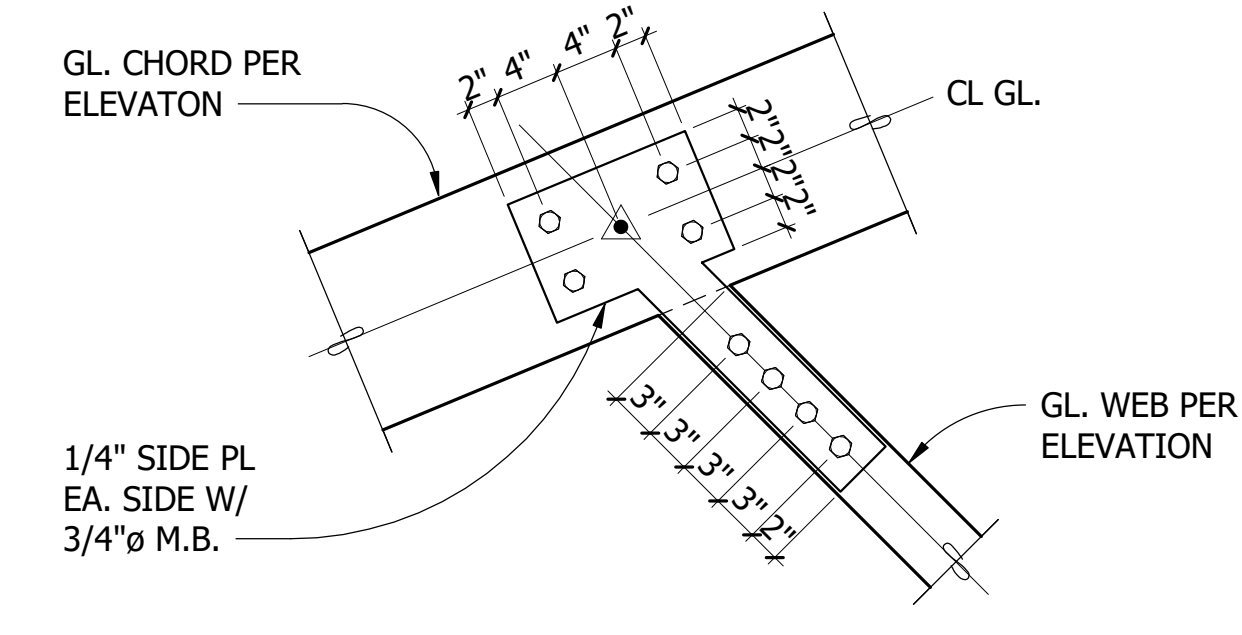
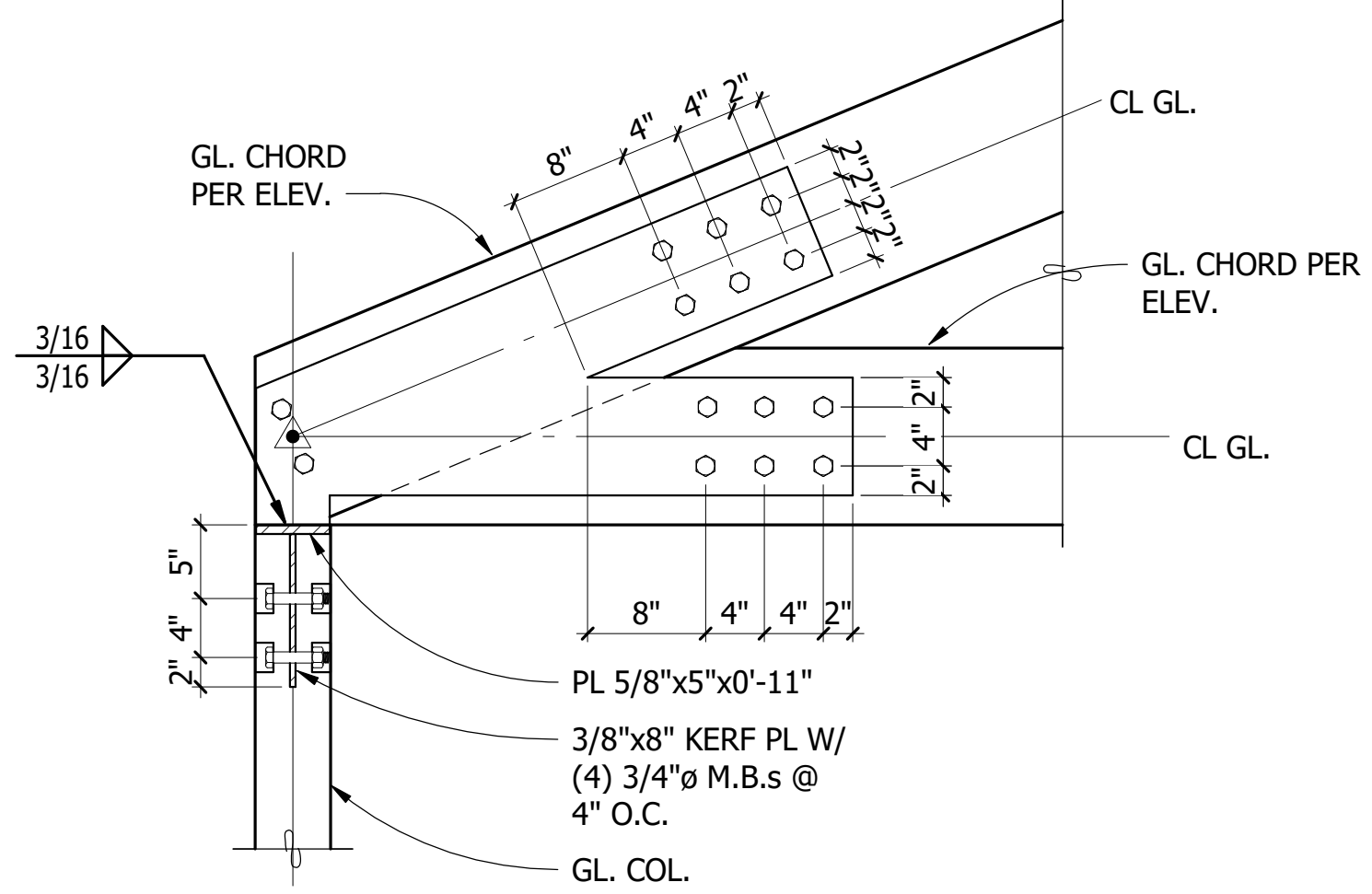
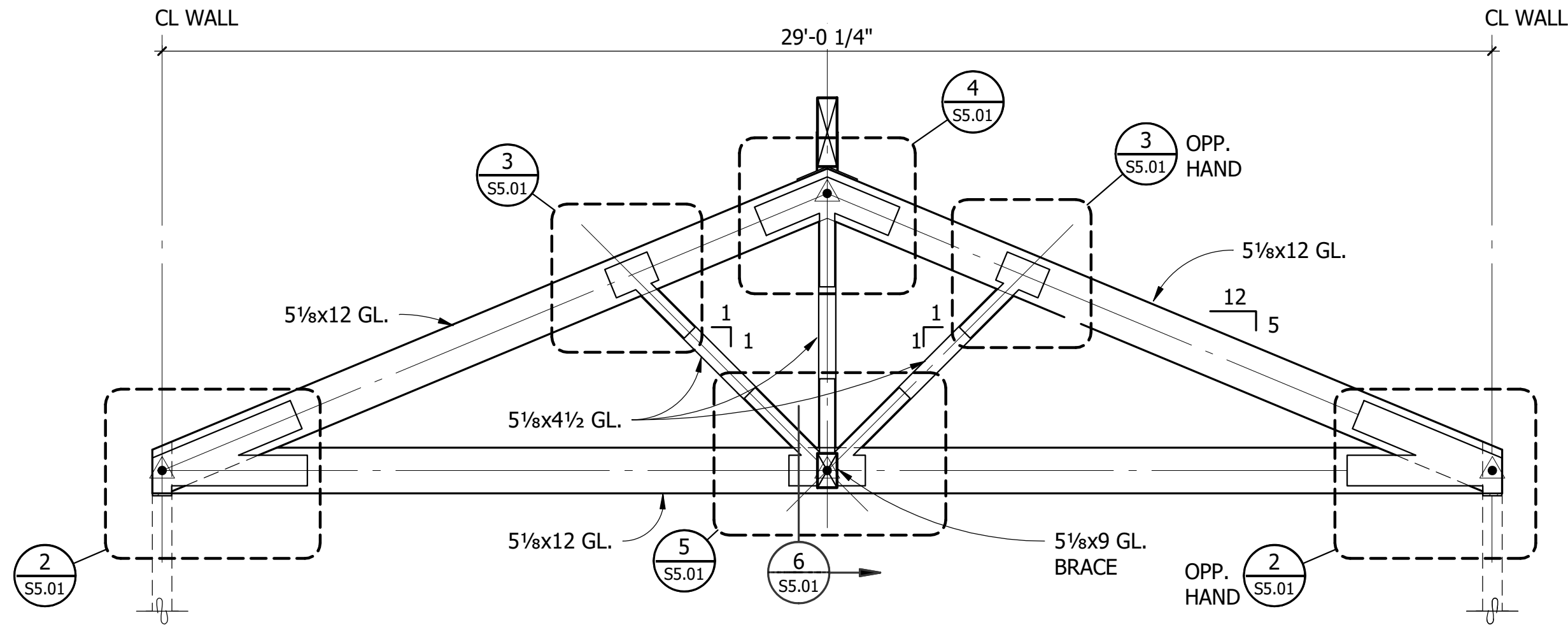


SCALE

AS NOTED

SHEET 35 of 56

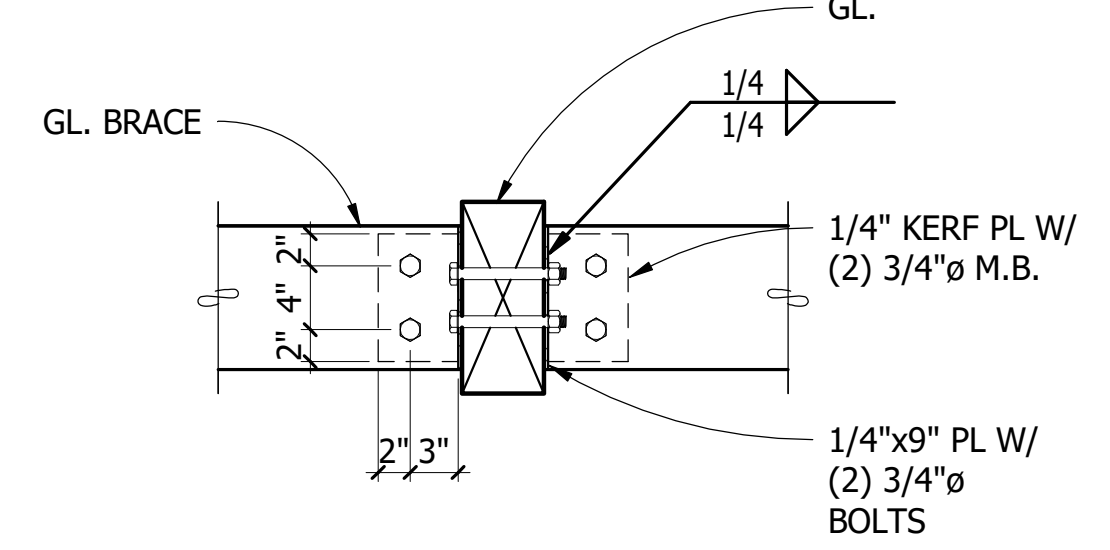
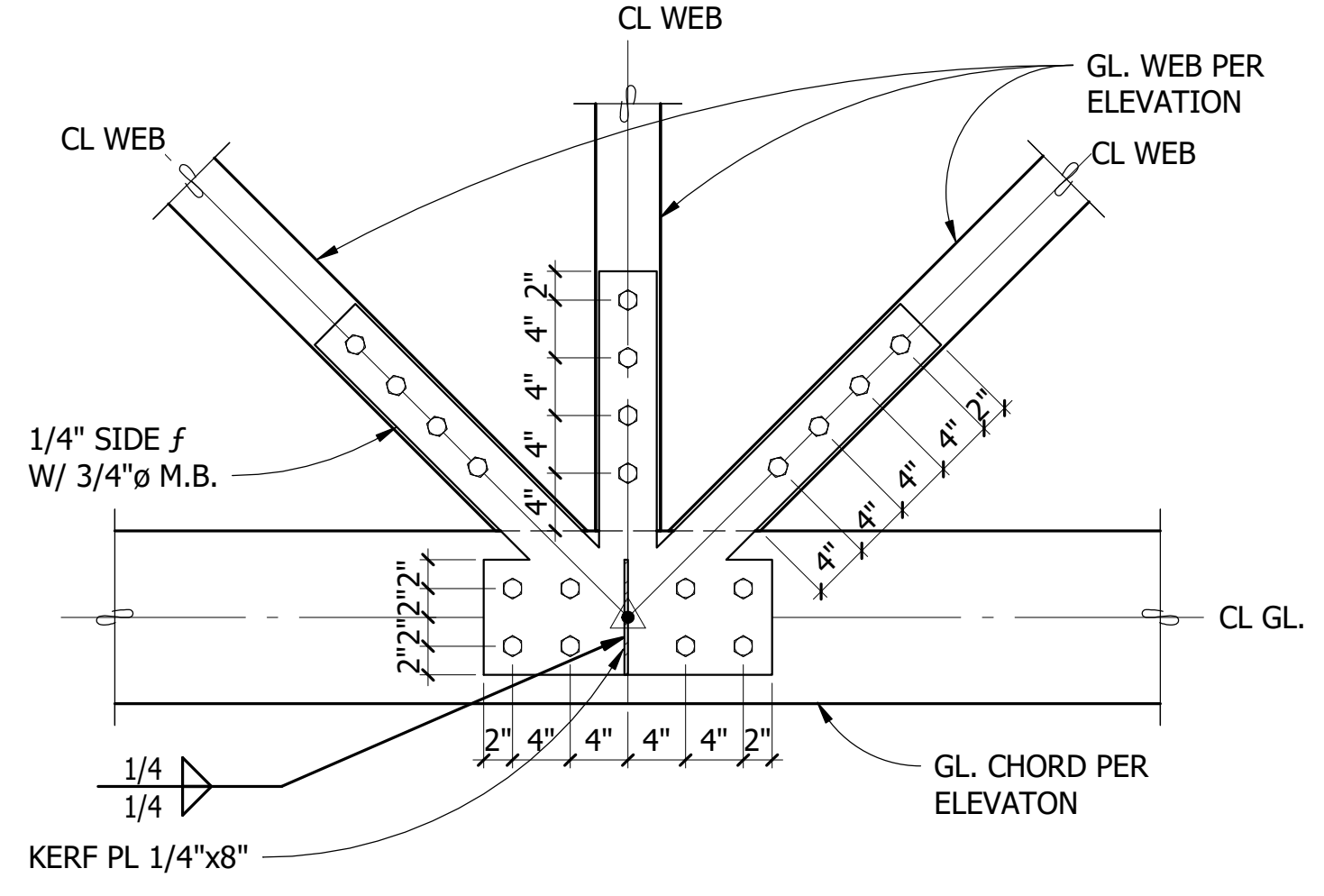
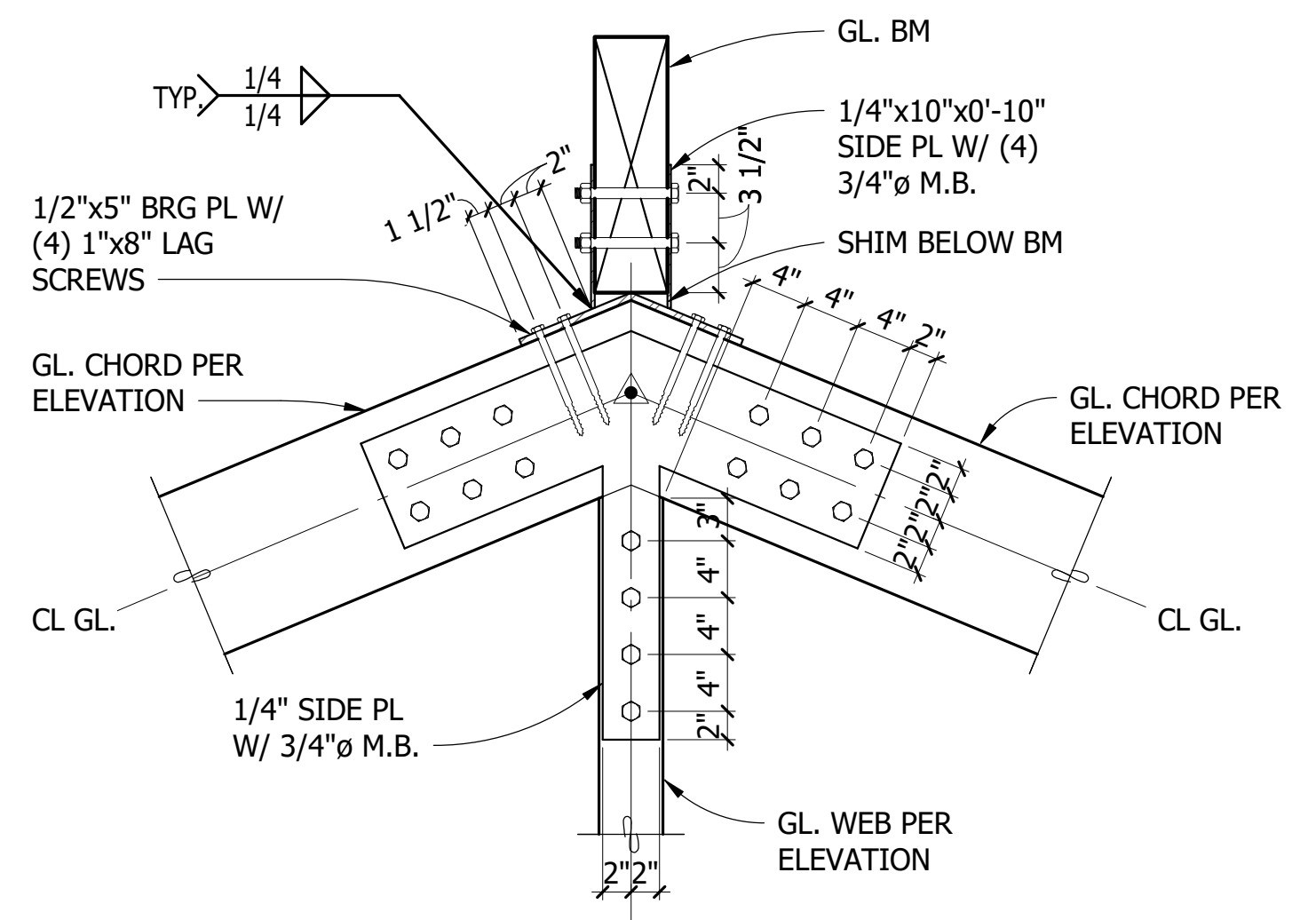
BID SET PARKS FILE#



1 ELEVATION
S5.01 3/8" = 1'-0"

2 DETAIL
S5.01 1" = 1'-0"

3 DETAIL
S5.01 1" = 1'-0"



4 DETAIL
S5.01 1" = 1'-0"

5 DETAIL
S5.01 1" = 1'-0"

6 DETAIL
S5.01 1" = 1'-0"

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WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

DAY USE BUILDING

TRUSS ELEVATION AND DETAILS

S5.01

SCALE

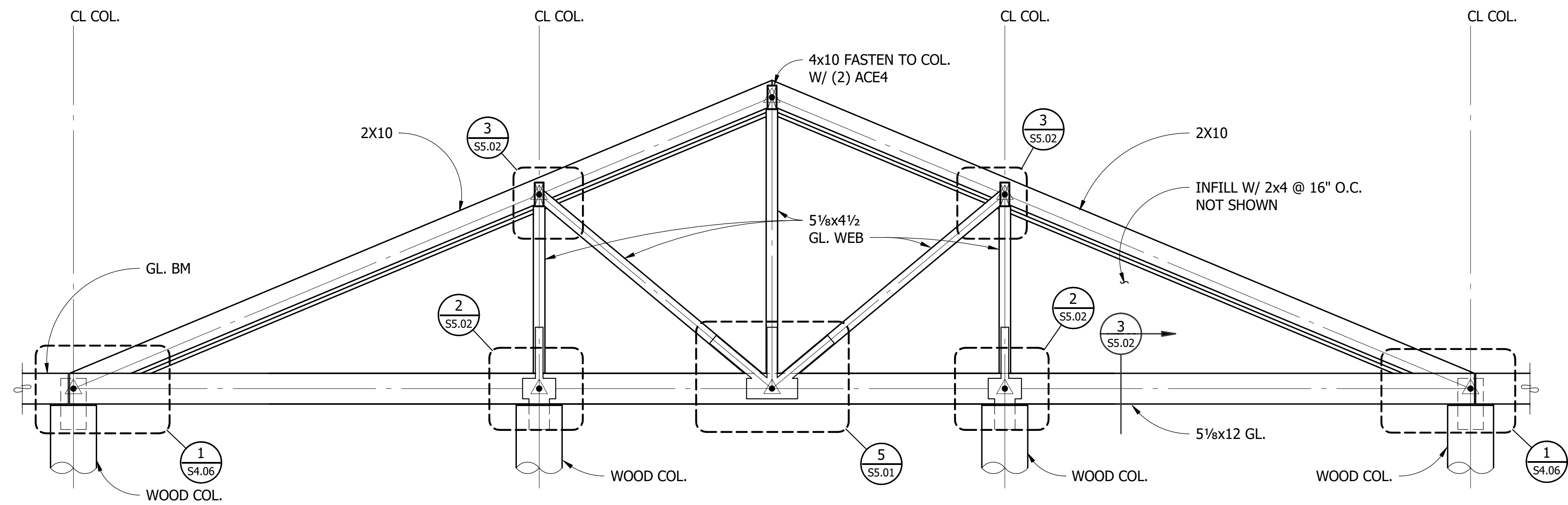
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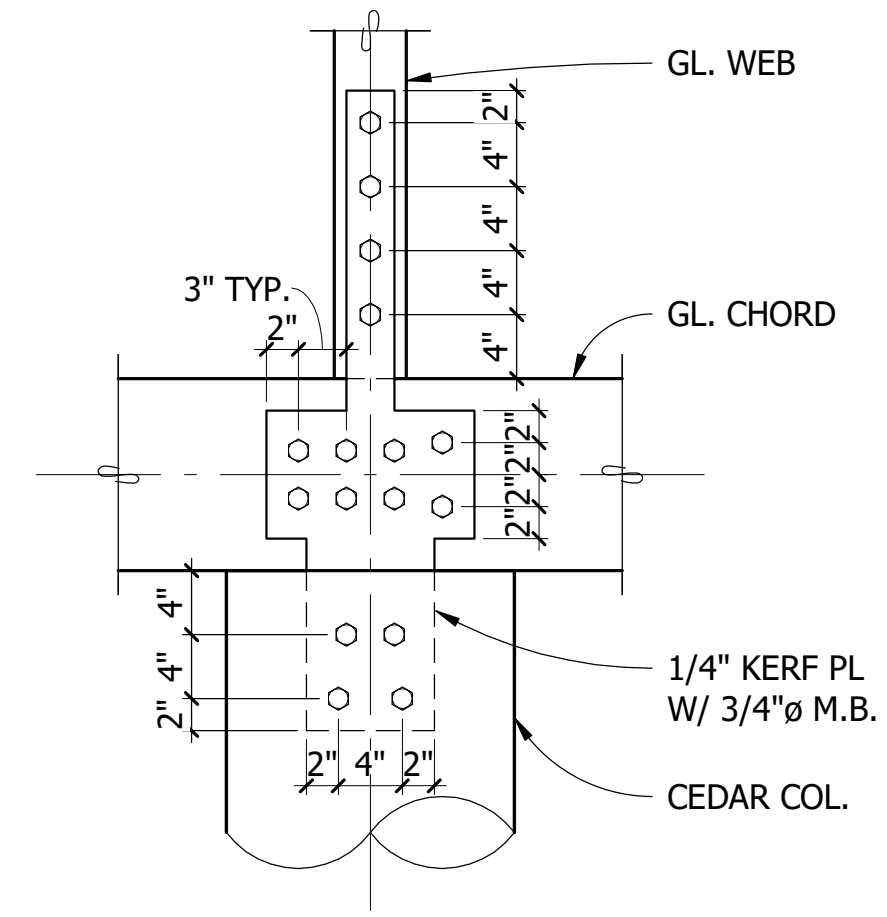
SHEET 36 of 56

BID SET

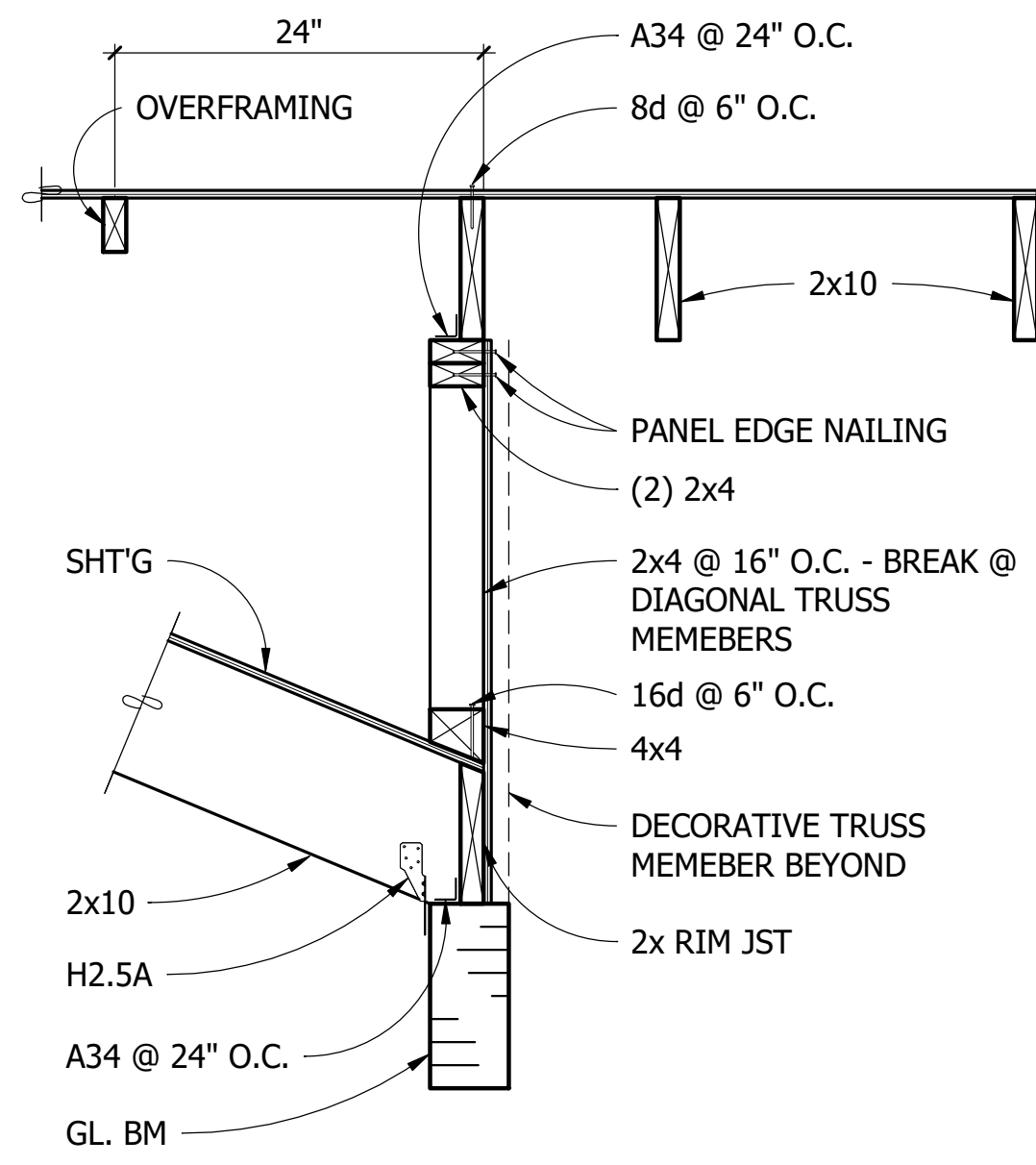
PARKS FILE#



1 SECTION
S5.02 3/8" = 1'-0"



2 SECTION
S5.02 1" = 1'-0"



3 SECTION
S5.02 1" = 1'-0"

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KOPACHUCK STATE PARK

DAY USE BUILDING

TRUSS ELEVATION AND DETAILS

S5.02

SCALE

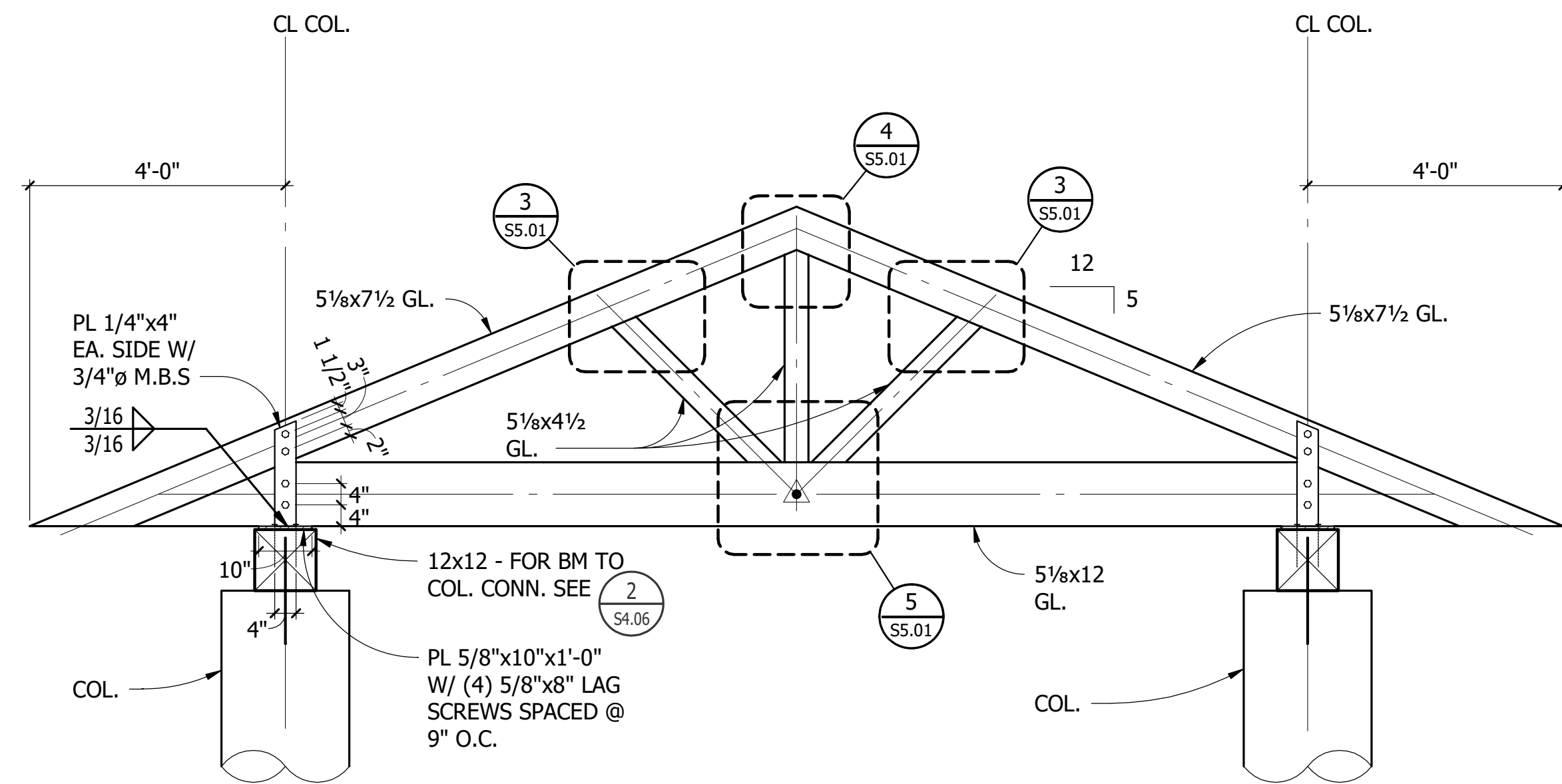
AS NOTED



SHEET 37 of 56

BID SET

PARKS FILE#



1 TRUSS ELEVATION
 S5.03 1/2" = 1'-0"

CAD NO.

DATE

APP.

INT.

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**KOPACHUCK
 STATE PARK**

**DAY USE
 BUILDING**

**TRUSS ELEVATION
 AND DETAILS**

S5.03



SCALE

AS NOTED

ENERGY CODE REQUIREMENTS

- A. HVAC EQUIPMENT SHALL MEET THE MINIMUM EFFICIENCIES (EER) LISTED IN THE WASHINGTON STATE ENERGY CODE TABLES C403.2.3.
- B. HEAT PUMP AND AIR CONDITIONER CONTROLS TO INCLUDE 7 DAY PROGRAMMING CAPABILITY, 5' DEADBAND, OPTIMUM START AND STOP CONTROL, UNOCCUPIED SETBACK, PART LOAD COOLING, AND 45°F OUTDOOR AIR LOCKOUT. CONTROLS SHALL NOT ALLOW SIMULTANEOUS HEATING AND COOLING.
- C. DAMPER LOCATIONS, LEAKAGE RATE, CONTROL TYPE, AND MAX CLEARANCE TO COMPLY WITH SECTION C403.2.4.3 OF THE W.S.E.C.
- D. OUTDOOR AIR SUPPLY DAMPERS SHALL BE CLOSED DURING UNOCCUPIED EQUIPMENT OPERATION UNLESS UNIT IS IN ECONOMIZER MODE.
- E. INSULATE ALL DUCTS IN CONDITIONED SPACE TO R-3.3. INSULATE DUCTS IN UNCONDITIONED SPACE TO R-8. INSULATE OUTSIDE AIR DUCTS WITH R-21.
- F. ALL DUCTWORK SHOWN SHALL BE CONSTRUCTED TO 1" PRESSURE CLASSIFICATION PER SMACNA.
- G. ALL DUCT WORK SHALL BE SEALED. SEAL ALL TRANSVERSE JOINTS AND LONGITUDINAL SEAMS AS REQUIRED BY 603.90 OF THE INTERNATIONAL MECHANICAL CODE.
- H. PROVIDE ENERGY EFFICIENT MOTORS ON THE HVAC EQUIPMENT AS REQUIRED IN WASHINGTON STATE ENERGY CODE PARAGRAPH C403.2.14. MOTORS LESS THAN 1HP SHALL HAVE A MINIMUM EFFICIENCY OF 70%.
- I. ALL FANS SHALL HAVE A FAN EFFICIENCY GRADE (FEG) OF 67 OR HIGHER PER C403.2.11.3 OF THE W.S.E.C.
- J. TEST AND BALANCE EACH HVAC SYSTEM. ADJUST REGISTERS AND DAMPERS FOR AIR FLOW INDICATED ON DRAWINGS. ADJUST FAN SPEED FOR TOTAL AIR FLOW.
- K. PROVIDE COMMISSIONING OF ALL MECHANICAL SYSTEMS AS REQUIRED BY WASHINGTON STATE ENERGY CODE PARAGRAPH C408. PROVIDE THE COMMISSIONING COMPLIANCE CHECKLIST TO THE BUILDING OFFICIAL ON SUBSTANTIAL COMPLETION OF THE BUILDING.
- L. PROVIDE RECORD DRAWING, OWNERS MANUALS, BALANCING REPORT AND COMMISSIONING REPORT TO OWNER AT COMPLETION OF PROJECT. SEE C103.6 OF THE W.S.E.C.
- M. PROVIDE SYSTEMS OPERATIONS TRAINING TO THE BUILDING OWNER PER WSEC PARAGRAPH C103.6.4.
- N. PROVIDE OCCUPANCY SENSORS FOR CONTROL OF OUTDOOR AIR IN MEETING 107 AND MEETING 108 TO TURN OFF ASSOCIATED HRV WHEN SPACE IS NOT OCCUPIED PER C403.7.2 OF THE WSEC.

HVAC LEGEND

SYMBOL	DESCRIPTION	ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
— C —	CONDENSATE LINE	AAV	AUTOMATIC AIR VENT	MAX	MAXIMUM
—RG—	REFRIGERANT GAS	AFF	ABOVE FINISHED FLOOR	MBH	THOUSAND BTUH
—RL—	REFRIGERANT LIQUID	APPROX	APPROXIMATELY	MCA	MINIMUM CIRCUIT AMPS
	DUCT (FIRST FIGURE, SIDE SHOWN)	ARCH	ARCHITECTURAL	MECH	MECHANICAL
	LINED DUCT - DIM. FOR NET FREE AREA EOL = END OF LINING	AUTO	AUTOMATIC	MFR	MANUFACTURER
	RISE: R OR DROP: D ARROW IN DIRECTION OF FLOW	BLDG	BUILDING	MIN	MINIMUM
	DUCT SECTION (SUPPLY)	B.O.D	BOTTOM OF DUCT	NO	NORMALLY OPEN
	DUCT SECTION (EXHAUST OR RETURN)	BTU	BRITISH THERMAL UNIT	NO.	NUMBER
	ROUND DUCT	BTUH	BRITISH THERMAL UNIT/HOUR	NTS	NOT TO SCALE
	VOLUME DAMPER (MANUAL)	CAP	CAPACITY	OA	OUTSIDE AIR
	MOTORIZED DAMPER	CFM	CUBIC FEET PER MINUTE	OBD	OPPOSED BLADE DAMPER
	FLEXIBLE CONNECTION	CLG	CEILING	PD	PRESSURE DROP
	FIRE DAMPER	COMP	COMPRESSOR	PH	PHASE
	COMBINATION FIRE/SMOKE DAMPER	CONN	CONNECTION	P.O.C.	POINT OF CONNECTION
	FLEXIBLE DUCT	CONT	CONTINUE, CONTINUATION	RA	RETURN AIR
	TURNING VANES	COP	COEFFICIENT OF PERFORMANCE	REF	REFERENCE
	THERMOSTAT G = WITH GUARD, A = AVERAGED WITH OTHER	DB	DRY BULB	REQ'D	REQUIRED
	SWITCH	DEG F°	DEGREE FAHRENHEIT	RLA	RATED LOAD AMPS
	TIME CLOCK BYPASS	DIA, Ø	DIAMETER	RM	ROOM
	INTERVAL TIMER	DL	DOOR LOUVER	RPM	REVOLUTIONS PER MINUTE
	THERMAL WELL	DN	DOWN	SA	SUPPLY AIR
	PRESSURE TEMPERATURE TEST PORT "PETE'S PLUG"	DWG	DRAWING	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
	DETAIL IDENTIFICATION NUMBER SHEET ON WHICH DETAIL IS SHOWN	(E)	EXISTING	S.O.	SCREENED OPENING
	SECTION IDENTIFICATION LETTER SHEET ON WHICH SECTION IS SHOWN	EA	EACH	TD	TRANSFER DUCT
	CEILING FAN CONTROLLER	EAT	ENTERING AIR TEMPERATURE	TEMP	TEMPERATURE
		EDB	ENTERING DRY BULB	TG	TRANSFER GRILLE
		EER	ENERGY EFFICIENCY RATING	TYP	TYPICAL
		EFF	EFFICIENCY	U.C.	UNDERCUT DOOR
		ELEC	ELECTRICAL, ELECTRIC	UNO	UNLESS NOTED OTHERWISE
		EOL	END OF LINING	V	VOLTS, VOLTAGE
		ESP	EXTERNAL STATIC PRESSURE	VTR	VENT THROUGH ROOF
		EWB	ENTERING WET BULB	W	WATT
		EXH	EXHAUST	W/	WITH
		EXIST	EXISTING	WB	WET BULB
		FL	FLOOR	WCO	WALL CLEAN OUT
		FLA	FULL LOAD AMPS		
		FLEX	FLEXIBLE		
		FPM	FEET PER MINUTE		
		FV	FACE VELOCITY		
		GAL	GALLON		
		GALV.	GALVANIZED		
		HP	HORSE POWER		
		I.E.	INVERT ELEVATION		
		IN	INCH		
		INTEGR.	INTEGRAL		
		KW	KILOWATT		
		LAT	LEAVING AIR TEMPERATURE		
		LDB	LEAVING DRY BULB		
		LWB	LEAVING WET BULB		
		LWT	LEAVING WATER TEMPERATURE		

HVAC GENERAL NOTES

- UNSIZE DUCTS SHALL MATCH THE SIZE OF THE LARGEST ADJACENT DUCT THAT IS SIZED. WHERE THE ADJACENT DUCT SIZE IS NOT SHOWN, PROVIDE THE FOLLOWING SIZED DUCTS (OR EQUIVALENT RECTANGULAR).
- WHERE DUCT SIZES ARE NOT SHOWN, SIZE DUCTS FOR A MAXIMUM VELOCITY OF 500 FT/MIN.
- VERIFY LOCATIONS OF ITEMS WITH ARCHITECTURAL PLANS PRIOR TO BEGINNING WORK. NOTIFY ARCHITECT/OWNER OF DISCREPANCIES.
- CONTRACTOR SHALL CAREFULLY COORDINATE WORK W/ ALL OTHER TRADES, ESPECIALLY IN CEILING SPACES WHERE SPACE IS TIGHT.
- ALL DUCTWORK SHOWN IS SCHEMATIC, CONTRACTOR SHALL PROVIDE ALL OFFSETS/ELBOWS AS REQ'D TO ALLOW ROUTING AROUND STRUCTURE, ELECTRICAL, & OTHER INTERFERENCES.
- ALL DUCT WALL PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE PROVIDED WITH CLOSURE COLLARS AND BE TIGHTLY SEALED TO PREVENT THE TRANSMISSION OF NOISE.
- SHIFT AIR INLETS/OUTLETS FROM LOCATIONS SHOWN AS REQ'D TO AVOID CONFLICTS W/STRUCTURE & OTHER ITEMS. SUCH SHIFTS SHALL MAINTAIN SYMMETRY OF AIR TERMINALS & SHALL HAVE PRIOR APPROVAL OF ARCHITECT/ENGINEER.
- PROVIDE MANUAL VOLUME DAMPERS IN ALL BRANCH DUCTS AND SPLITS IN MAIN DUCTS AND WHERE REQ'D BY BALANCERS.
- PROVIDE PRIMARY CONDENSATE DRAINS FOR AIR CONDITIONING COIL IN ACCORDANCE WITH IMC REQUIREMENTS & AS SHOWN ON PLANS.

ELECTRIC WALL HEATER SCHEDULE

SYMBOL	SPECIFIED MFR. AND MODEL NO.	TYPE	SIZE (LxH)	ELECTRICAL		REMARKS
				WATTS	V/PH	
EWH-1	KING W2410-W	WALL HEATER	10x14	1000	240/1	-
EWH-2	KING W1210-W	WALL HEATER	10x14	500	120/1	-
EWH-3	KING W1210-W	WALL HEATER	10x14	500	120/1	-
EWH-4	KING W1210-W	WALL HEATER	10x14	500	120/1	-
EWH-5	KING W2410-W	WALL HEATER	10x14	1000	240/1	-

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PROJECT ENGINEER

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION

KOPACHUCK
STATE PARK

DAY USE
BUILDING

MECHANICAL
LEGEND &
NOTES

M0.1

SCALE

AS NOTED

BID SET

PARKS FILE#

AIR TERMINAL SCHEDULE			
SYMBOL	TYPE	SPECIFIED MFR. & MODEL NO.	DESCRIPTION
CD	CEILING DIFFUSER	TITUS TDC	LOUVER FACE, SQUARE NECK W/ EQUALIZING GRID
DSG	DUCT SUPPLY GRILLE	TITUS S300FL	HORIZONTAL BLADES 3/4" O.C.
WRG	WALL RETURN GRILLE	TITUS 33FL	ALUMINUM CONSTRUCTION HORIZONTAL BLADES 3/4" O.C.

AIR INLET & OUTLET SCHEDULE NOTES:

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

VRF HEAT PUMP SCHEDULE - INDOOR UNIT														
SYMBOL	SPECIFIED MFR. & MODEL NO.	RELATED OUTDOOR UNIT	AREA SERVED	COOLING CAP.		HEATING CAP.		FAN		ELECTRICAL		WEIGHT LBS.	TYPE	REMARKS
				MBH	SEER	MBH	COP	CFM	ESP	MCA	VOLTS/PH			
IHP-1	MITSUBISHI PKFY-P18	HP-1	MEETING 108	18.0	①	20.0	①	438	-	0.38	208/230/1	29	WALL MTD	-
IHP-2	MITSUBISHI PKFY-P18	HP-1	MEETING 108	18.0	①	20.0	①	438	-	0.38	208/230/1	29	WALL MTD	-
IHP-3	MITSUBISHI PKFY-P24	HP-1	MEETING 108	24.0	①	27.0	①	710	-	0.63	208/230/1	46	WALL MTD	-
IHP-4	MITSUBISHI PKFY-P18	HP-2	MEETING 107	18.0	①	20.0	①	438	-	0.38	208/230/1	29	WALL MTD	-
IHP-5	MITSUBISHI PKFY-P18	HP-2	MEETING 107	18.0	①	20.0	①	438	-	0.38	208/230/1	29	WALL MTD	-
IHP-6	MITSUBISHI PKFY-P24	HP-2	MEETING 107	24.0	①	27.0	①	710	-	0.63	208/230/1	46	WALL MTD	-
IHP-7	MITSUBISHI PKFY-P18	HP-3	VESTIBULE 100	18.0	①	20.0	①	438	-	0.38	208/230/1	29	WALL MTD	-
IHP-8	MITSUBISHI PKFY-P12	HP-3	KITCHEN 101	12.0	①	13.5	①	297	-	0.38	208/230/1	29	WALL MTD	-

NOTES:

COOLING CAPACITY IS ARI RATING: AT 80°F DB; 67°F WB INDOOR COIL EAT AND 95°F OUTDOOR COIL EAT. ① SEE OUTDOOR UNIT FOR EFFICIENCY

HEATING CAPACITY IS ARI HI-TEMP RATING: AT 70°F DB INDOOR COIL EAT AND 47°F DB; 43°WB OUTDOOR COIL EAT.

VRF HEAT PUMP SCHEDULE - OUTDOOR UNIT											
SYMBOL	SPECIFIED MFR. & MODEL NO.	AREA SERVED	COOLING CAP/HEATING CAP.				ELECTRICAL		WEIGHT LBS.	REMARKS	
			MBH	EER	MBH	COP	MCA	VOLTS/PH			
HP-1	MITSUBISHI PUMY-P60	MEETING 108	60.0	13.3	66.0	4.1	36	208/230/1	302	①②③	
HP-2	MITSUBISHI PUMY-P60	MEETING 107	60.0	13.3	66.0	4.1	36	208/230/1	302	①②③	
HP-3	MITSUBISHI PUMY-P36	VESTIBULE 100	36.0	15.0	42.0	4.0	29	208/230/1	271	①②③	

NOTES:

COOLING CAPACITY IS ARI RATING: AT 80°F DB; 67°F WB INDOOR COIL EAT AND 95°F OUTDOOR COIL EAT. ① WITH ANTI CORROSION COATING

HEATING CAPACITY IS ARI HI-TEMP RATING: AT 70°F DB INDOOR COIL EAT AND 47°F DB; 43°WB OUTDOOR COIL EAT. ② WITH WIND BAFFLE, UNIT CAPABLE OF OPERATING IN HEATING MODE DOWN TO -13 F

③ WITH DEFROST HEATER

EXHAUST FAN SCHEDULE													
SYMBOL	SPECIFIED MFR. AND MODEL NO.	TYPE	AREA SERVED	CFM	ESP	RPM	ELECTRICAL		DRIVE	CONTROL	REMARKS		
							AMP	V/PH					
EF-1	NUTONE QTXEN080	CEILING EXHAUSTER	TOILET 001	80	0.1	-	23.3W	115/1	DIRECT	SWITCH	①		
EF-2	NUTONE QTXEN080	CEILING EXHAUSTER	TOILET 002	80	0.1	-	23.3W	115/1	DIRECT	SWITCH	①		
EF-3	NUTONE QTXEN080	CEILING EXHAUSTER	TOILET 102	80	0.1	-	23.3W	115/1	DIRECT	SWITCH	①		
EF-4	NUTONE QTXEN080	CEILING EXHAUSTER	TOILET 104	80	0.1	-	23.3W	115/1	DIRECT	SWITCH	①		
EF-5	NUTONE QTXEN080	CEILING EXHAUSTER	JANITOR 105	80	0.1	-	23.3W	115/1	DIRECT	TIMER	①		
EF-6	NUTONE QTXEN080	CEILING EXHAUSTER	TOILET 103	80	0.1	-	23.3W	115/1	DIRECT	SWITCH	①		
EF-7	NUTONE QTXEN150	CEILING EXHAUSTER	KITCHEN 101	150	0.1	-	51.3W	115/1	DIRECT	SWITCH	①		

ACCESSORIES:

① W/ INTEGRAL BACK DRAFT DAMPER

ENERGY RECOVERY VENTILATOR SCHEDULE														
SYMBOL	MANUFACTURER AND MODEL NO.	AREA SERVED	TYPE	SUPPLY FAN		EXHAUST FAN		ENTHALPY RECOVERY EFFECTIVENESS	FILTERS		APPROX. UNIT WEIGHT	UNITS CONNECTION		REMARKS
				CFM	ESP	CFM	ESP		TYPE	EFF.		MCA	V/PH	
ERV-1	MITSUBISHI LGH-F470	MEETING 108 VESTIBULE 100	CROSSFLOW	470	0.60	470	0.60	51%	1" PLEAT	MERV 16	110	5.1	230/1	①
ERV-2	MITSUBISHI LGH-F470	MEETING 107	CROSSFLOW	370	0.60	370	0.60	51%	1" PLEAT	MERV 16	110	5.1	230/1	①

① PROVIDE W/ OPTIONAL HIGH EFFICIENCY FILTERS

CEILING FANS											
SYMBOL	SPECIFIED MFR. AND MODEL NO.	TYPE	AREA SERVED	CFM	RPM	ELECTRICAL		DRIVE	CONTROL	WEIGHT	REMARKS
						AMP	V/PH				
CF-1	BIG ASS FANS ESSENCE 8FT	8 AIR FOIL	MEETING 108	-	158	10	120/1	DIRECT	①	90	②③
CF-2	BIG ASS FANS ESSENCE 8FT	8 AIR FOIL	MEETING 107	-	158	10	120/1	DIRECT	①	90	②③

ACCESSORIES: ① VARIABLE SPEED WIRED WALL CONTROLLER ② UPGRADED COLOR SELECTED BY ARCHITECT ③ PROVIDE W/ MOUNTING BRACKET, 24" EXTENSION TUBE, SAFETY CABLE, AND ACCESSORIES FOR MOUNTING TO BOTTOM OF TRUSS.

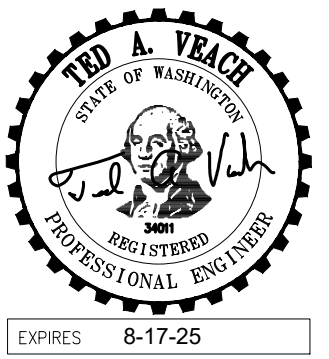
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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

DAY USE BUILDING

MECHANICAL SCHEDULES

M0.2

SCALE: **AS NOTED**

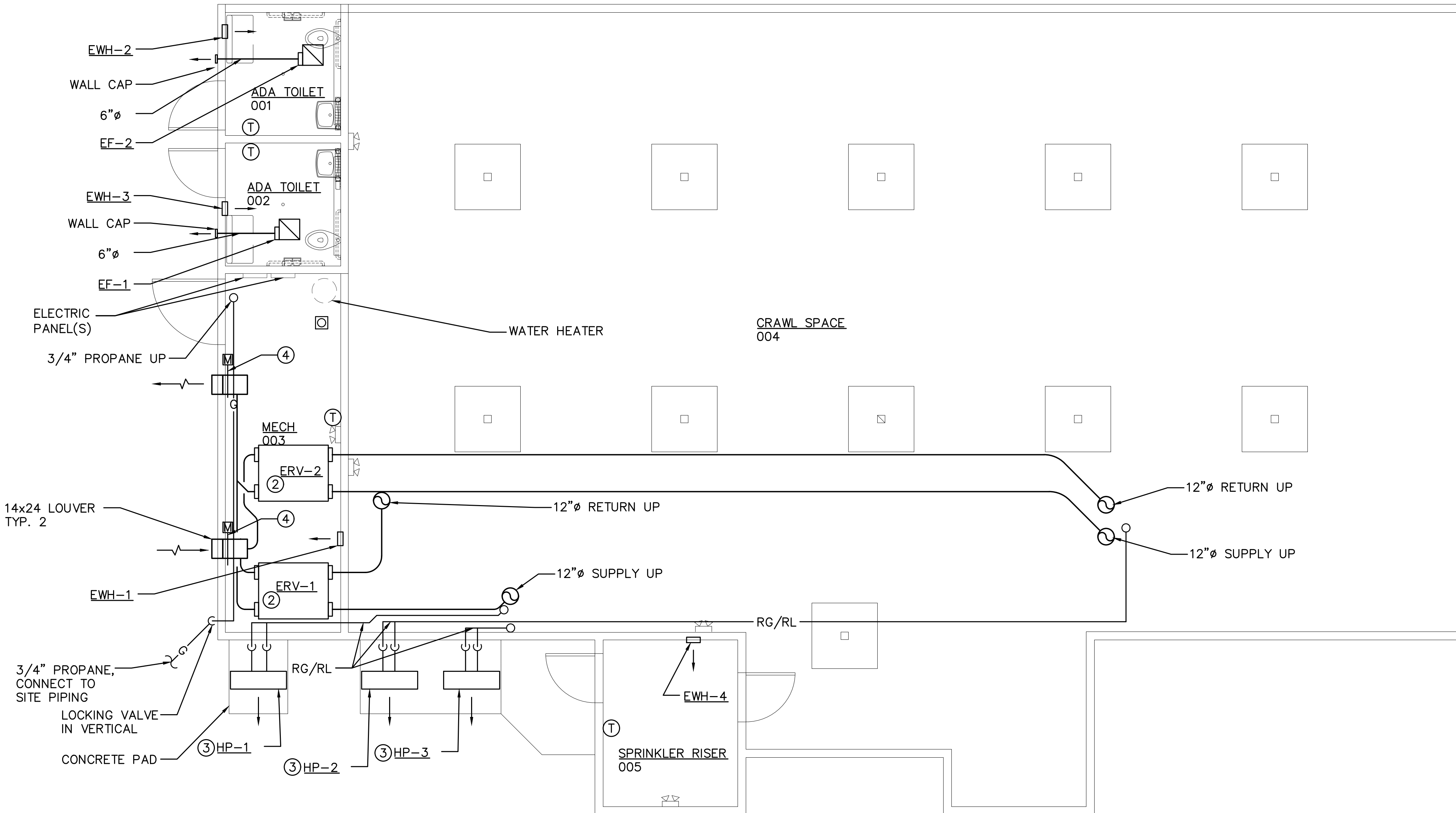
PARKS FILE#

KEYED NOTES:

- ① SEE DETAIL 3/M2.0.
- ② SEE DETAIL 8/M2.0 FOR ERV INSTALLATION.
- ③ SEE OUTDOOR HEAT PUMP INSTALLATION DETAIL 2/M2.0.
- ④ LOW LEAKAGE MOTORIZED DAMPER TO CLOSE WHEN ERV-1 AND ERV-2 ARE OFF.

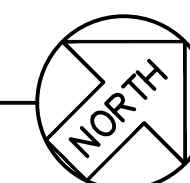
DRAWING NOTES:

- 1. CONTRACTOR SHALL COORDINATE DUCT INSTALLATION AND OFFSET DUCTS AROUND BUILDING FEATURES, INCLUDING LIGHTS, PLUMBING, CONDUIT, FIRE SPRINKLER PIPING, AND OTHERS.
- 2. PROVIDE 45° CHAMFERED DUCT TAPS FOR ALL RECTANGULAR BRANCH DUCTS. PROVIDE 45° CONICAL TAPS FOR ALL ROUND BRANCH DUCTS.
- 3. SEE DUCT HANGERS DETAIL 1/M2.0.
- 4. PROVIDE FLEXIBLE DUCT CONNECTIONS AT ALL DUCT CONNECTIONS TO FANS AND HVAC UNITS.
- 5. CONTRACTOR SHALL INVESTIGATE ALL EXISTING CONDITIONS AND REPORT ALL VARIATIONS FROM PLANS TO ENGINEER.
- 6. AIR BALANCING CONTRACTOR SHALL VERIFY SUPPLY AIR FLOW, RETURN AIR FLOW, AND OUTSIDE AIR QUANTITIES FOR EACH NEW HVAC UNIT. ADJUST DAMPER POSITIONS AND FAN SPEED TO ACHIEVE AIR FLOWS LISTED ON SCHEDULES.



LOWER LEVEL HVAC PLAN - DAY USE BLDG

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



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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

DAY USE BUILDING

LOWER FLOOR HVAC PLAN

M1.0

SCALE AS NOTED

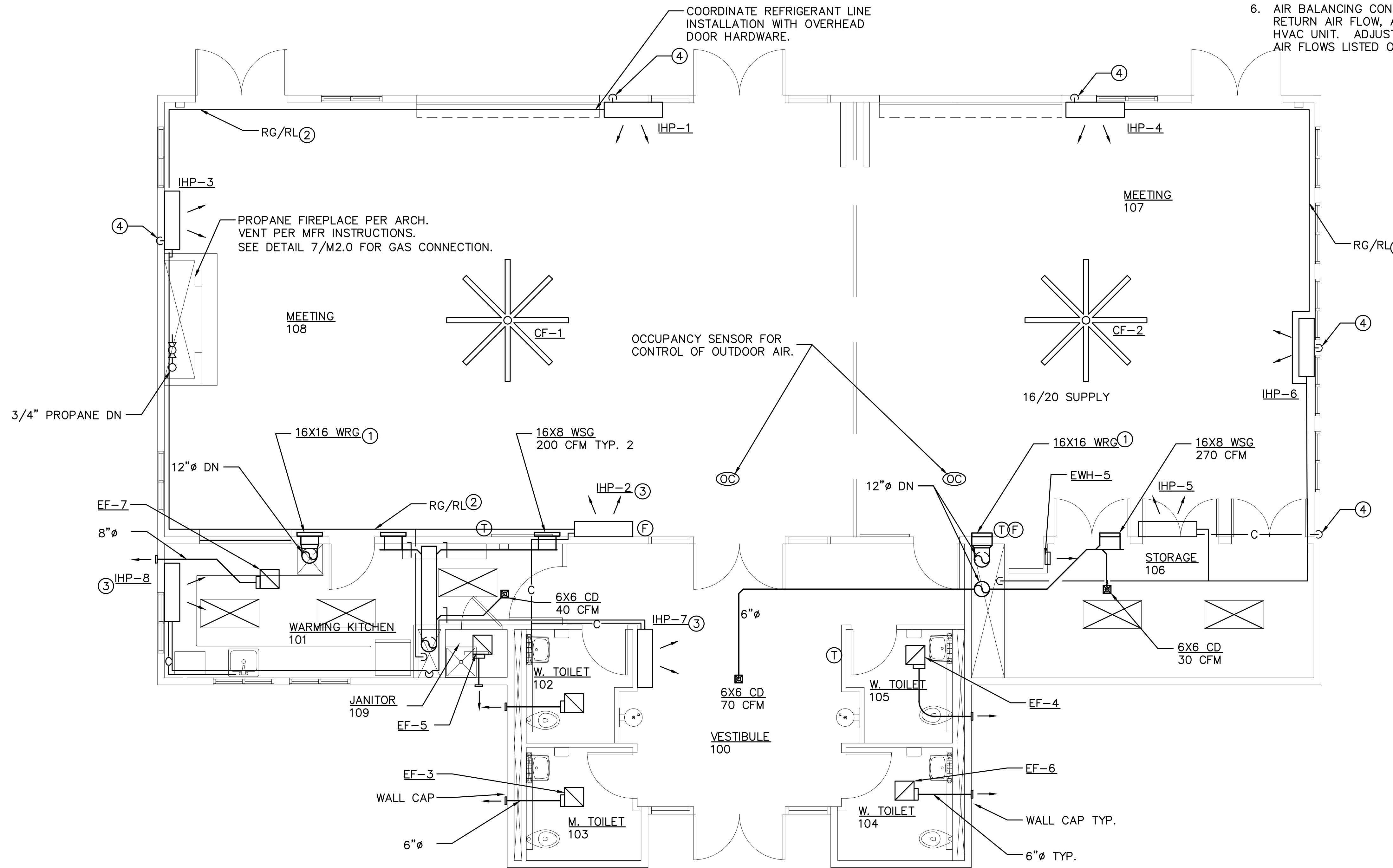
PARKS FILE#

KEYED NOTES:

- ① MOUNT 12" ABOVE FLOOR.
- ② RG AND RL PIPING SHOWS AS ONE LINE FOR CLARITY. ROUTE ABOVE BOTTOM OF OPEN TRUSSES.
- ③ ROUTE CONDENSATE DRAIN TO SINK TAILPIECE, SEE DETAIL 5/M2.0.
- ④ ROUTE CONDENSATE DRAIN DOWN INSIDE WALL TO SPLASH BLOCK AT GROUND LEVEL.

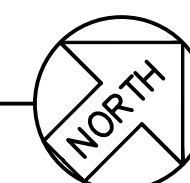
DRAWING NOTES:

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- 2. PROVIDE 45° CHAMFERED DUCT TAPS FOR ALL RECTANGULAR BRANCH DUCTS. PROVIDE 45° CONICAL TAPS FOR ALL ROUND BRANCH DUCTS.
- 3. SEE DUCT HANGERS DETAIL 1/M2.0.
- 4. PROVIDE FLEXIBLE DUCT CONNECTIONS AT ALL DUCT CONNECTIONS TO FANS AND HVAC UNITS.
- 5. CONTRACTOR SHALL INVESTIGATE ALL EXISTING CONDITIONS AND REPORT ALL VARIATIONS FROM PLANS TO ENGINEER.
- 6. AIR BALANCING CONTRACTOR SHALL VERIFY SUPPLY AIR FLOW, RETURN AIR FLOW, AND OUTSIDE AIR QUANTITIES FOR EACH NEW HVAC UNIT. ADJUST DAMPER POSITIONS AND FAN SPEED TO ACHIEVE AIR FLOWS LISTED ON SCHEDULES.



UPPER LEVEL HVAC PLAN - DAY USE BLDG

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



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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

DAY USE BUILDING

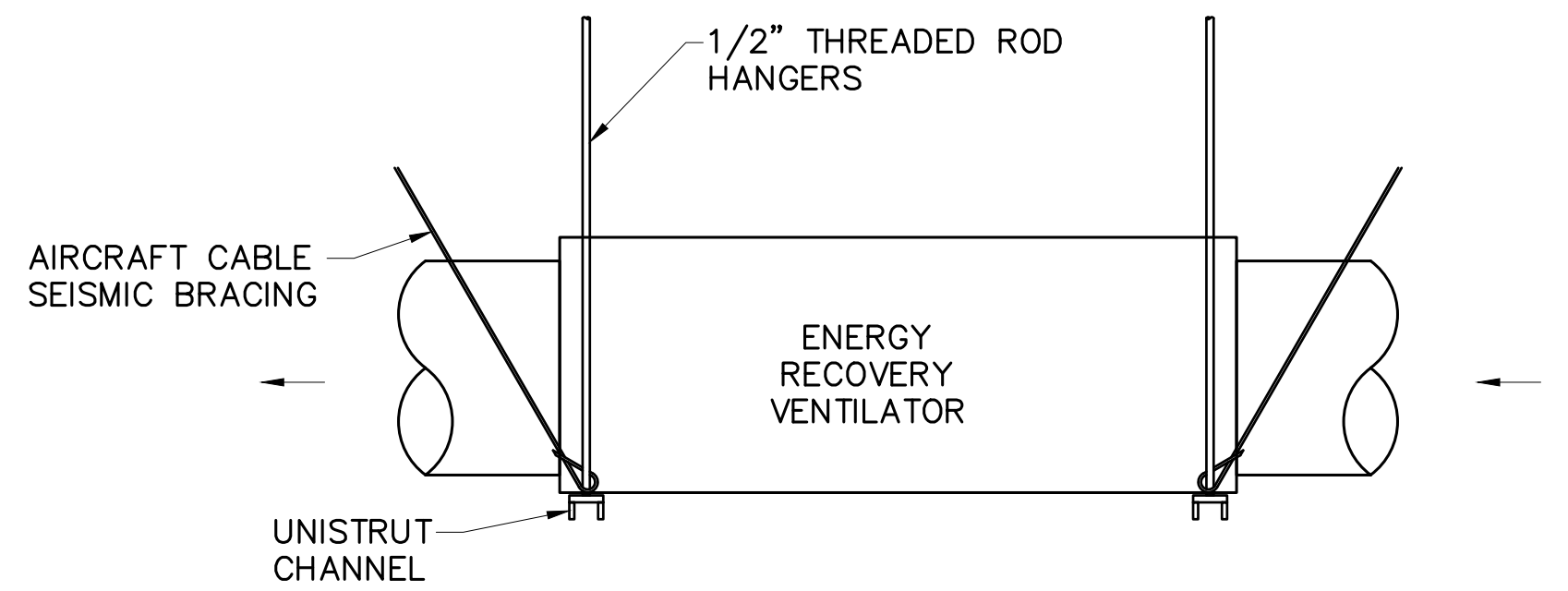
MAIN FLOOR HVAC PLAN

M1.1

SCALE

AS NOTED

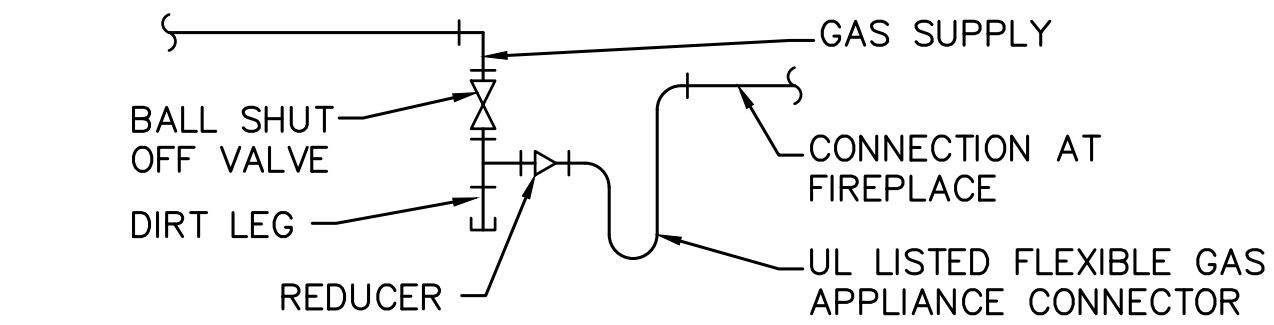
PARKS FILE#



ERV INSTALLATION DETAIL

NTS

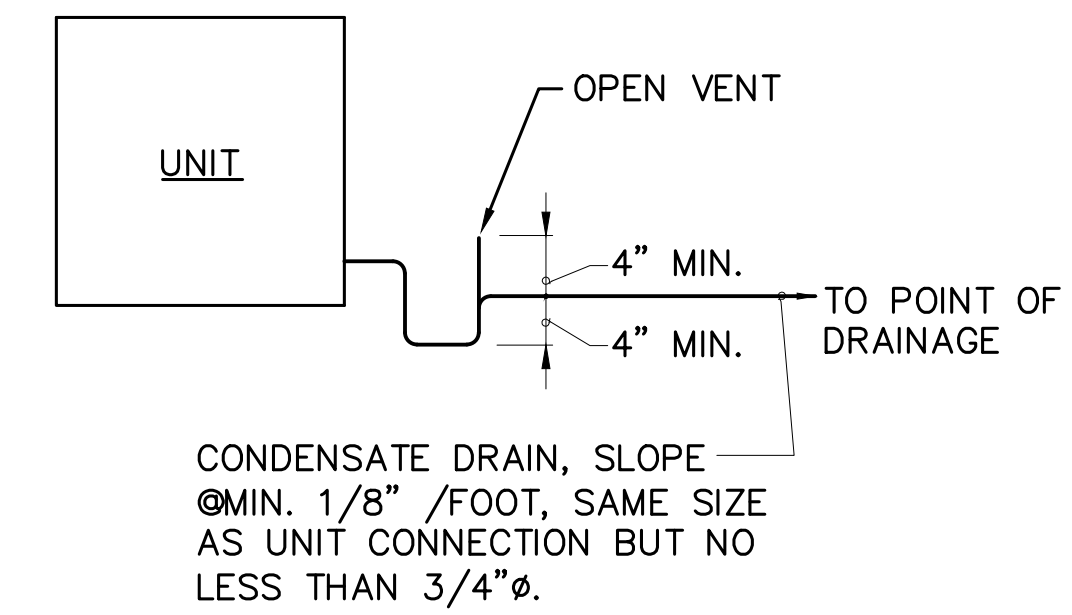
8
M2.0



GAS FIREPLACE CONNECTION

NOT TO SCALE

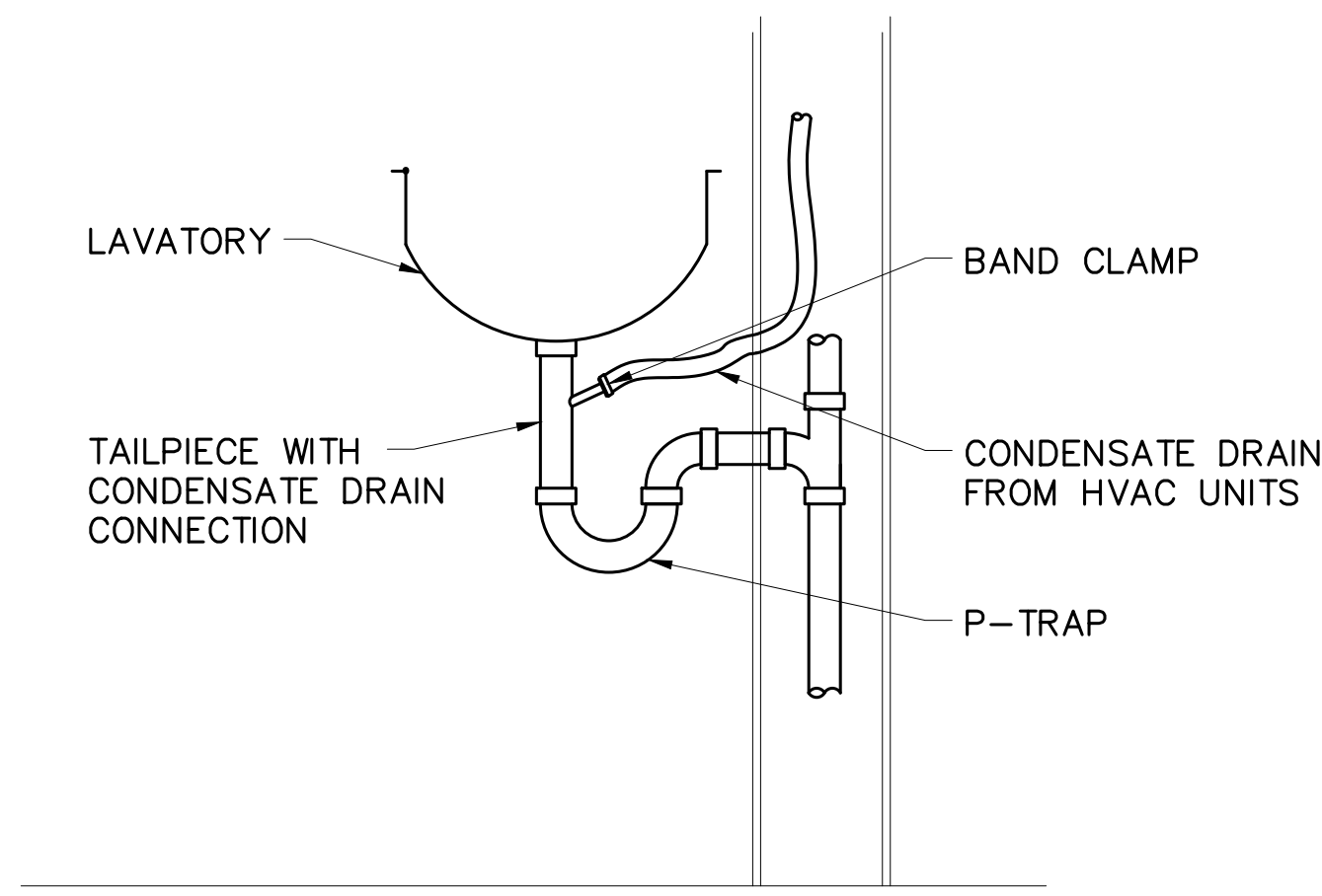
7
M2.0



CONDENSATE DRAIN DETAIL

NOT TO SCALE

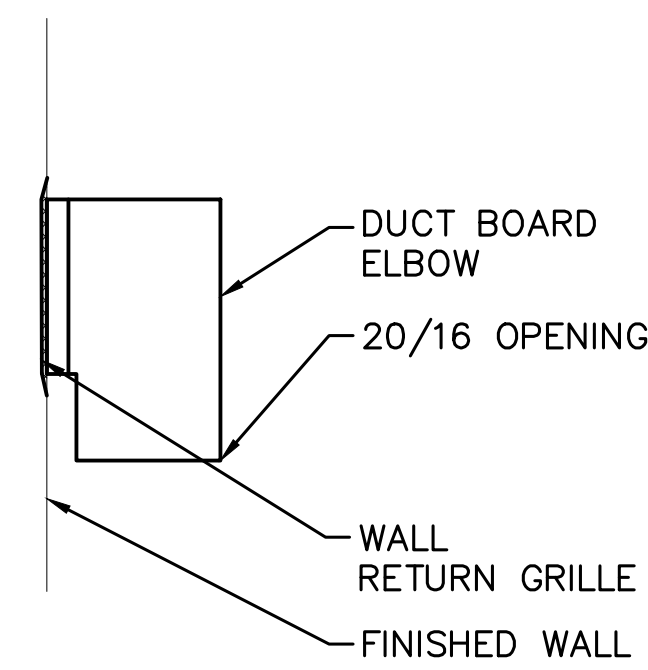
3
M2.0



CONDENSATE CONNECTION AT SINK DETAIL

NTS

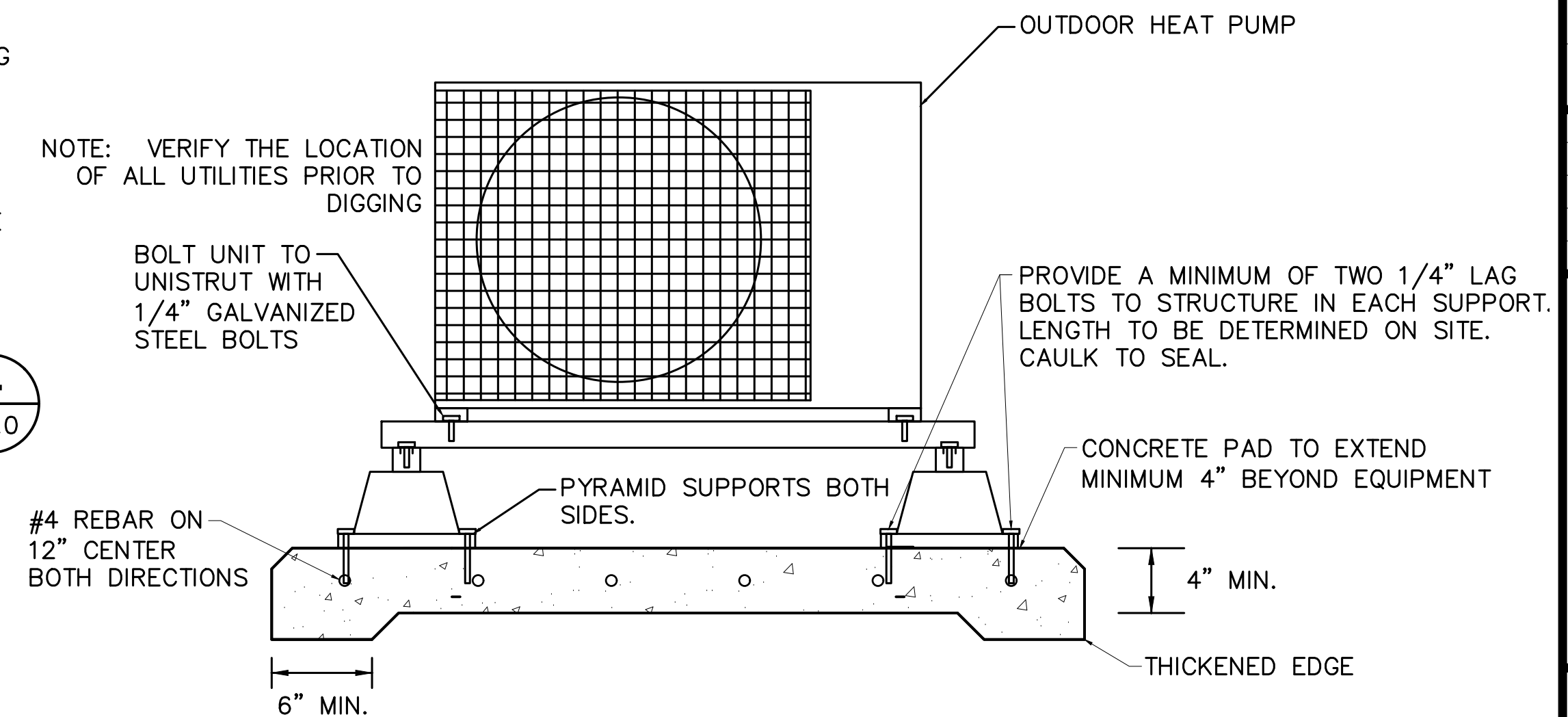
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M2.0



RETURN GRILLE

NOT TO SCALE

4
M2.0

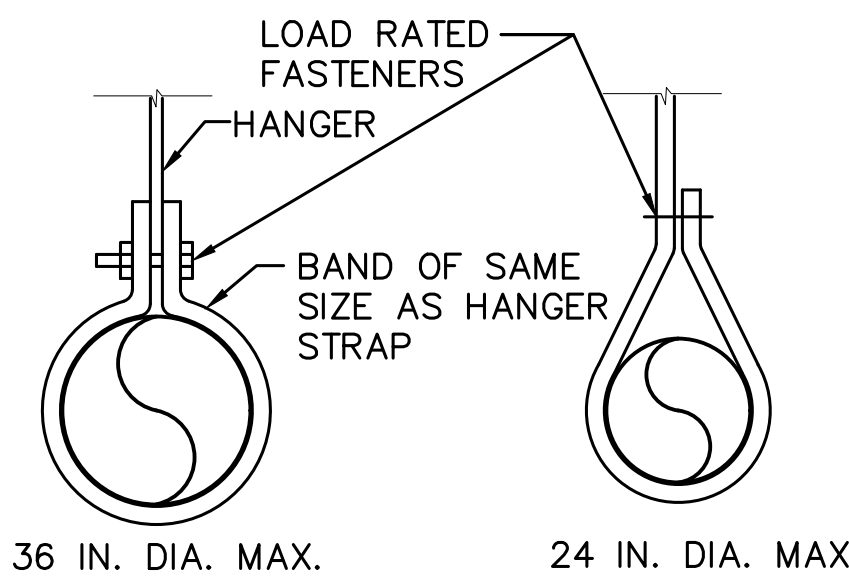


OUT DOOR HEAT PUMP INSTALLATION DETAIL

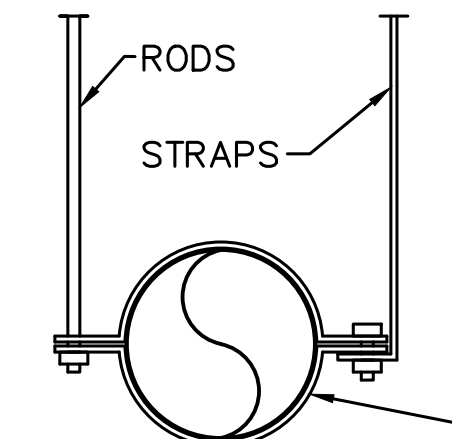
NTS

2
M2.0

VENTILATION						
AREA TYPE	AREA (SF)	IMC CODE REQUIREMENT	REQ'D VOLUME		OUTSIDE AIR PROVIDED	EXHAUST PROVIDED
			OUTSIDE AIR	EXHAUST		
TOILET 001	53	70 CFM/FIXTURE INTERMITTENT	-	70	-	80
TOILET 002	53	70 CFM/FIXTURE INTERMITTENT	-	70	-	80
WARMING KITCHEN 101	196	100 CFM INTERMITTENT 5 CFM/PERSON + 0.06CFM/SF OA	32	100	40	150
TOILET 102	46	70 CFM/FIXTURE INTERMITTENT	-	70	-	80
TOILET 103	46	70 CFM/FIXTURE INTERMITTENT	-	70	-	80
TOILET 104	46	70 CFM/FIXTURE INTERMITTENT	-	70	-	80
TOILET 105	46	70 CFM/FIXTURE INTERMITTENT	-	70	-	80
STORAGE 106	180	0.12 CFM/SF OA	22	-	30	-
VESTIBULE 100	228	7.5 CFM/PERSON OA & 0.06 CFM/SF OA	66	-	70	-
MEETING 107	855	5 CFM/PERSON OA & 0.06 CFM/SF OA	265	-	270	-
MEETING 108	1283	5 CFM/PERSON OA & 0.06 CFM/SF OA	398	-	400	-
JANITOR 109	13	1 CFM/SF EXHAUST	-	13	-	80



HANGERS MUST NOT DEFORM DUCT SHAPE



BAND ONE HALF ROUND MAY BE USED IF DUCT SHAPE IS MAINTAINED

DUCT HANGERS

NTS

1
M2.0

NOTES:

1. SIZE HANGER COMPONENTS AND FASTENERS PER SMACMA HVAC DUCT CONSTRUCTION STANDARDS, CHAPTER 5, THIRD EDITION.
2. WIRE HANGERS ARE NOT ACCEPTABLE
3. PROVIDE SHOP DRAWINGS INDICATING TYPES AND LOCATIONS OF DUCT HANGERS.
4. HANGER ATTACHMENTS TO STRUCTURE SHALL BE OF TYPES AND SIZES ALLOWED BY SMACMA HVAC DUCT CONSTRUCTION STANDARDS, THIRD EDITION.

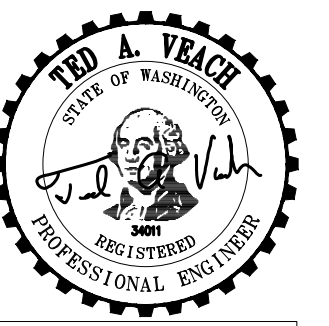
LARGEST DUCT DIAMETER	SUPPORT ANGLE SIZE	SADDLE SIZE
18" Ø	1"x1"x16 GA.	2"x16 GA.
30" Ø	1-1/2"x1-1/2"x16 GA.	2"x16 GA.
48" Ø	2"x2"x1/8"	3"x10 GA.

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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

DAY USE BUILDING

MECHANICAL DETAILS

M2.0

ENERGY CODE REQUIREMENTS

- A. WATER HEATERS SHALL MEET THE MINIMUM EFFICIENCIES (EER) LISTED IN THE 2018 WASHINGTON STATE ENERGY CODE TABLE C404.2.
- B. INSULATE DOMESTIC HOT WATER PIPING WITH U=0.27 INSULATION. UNDER 1-1/2" DIAMETER: 1" INSULATION. 1-1/2" AND OVER: 1-1/2" INSULATION.
- C. PROVIDE ENERGY EFFICIENT MOTORS ON THE PUMP EQUIPMENT AS REQUIRED IN WASHINGTON STATE ENERGY CODE PARAGRAPH C405.8. MOTORS LESS THAN 1HP SHALL HAVE A MINIMUM EFFICIENCY OF 70%.
- D. TEST AND BALANCE DOMESTIC HOT WATER SYSTEM. ADJUST BALANCING VALVES FOR FLOW INDICATED ON DRAWINGS.
- E. PROVIDE COMMISSIONING OF ALL PLUMBING SYSTEMS AS REQUIRED BY WASHINGTON STATE ENERGY CODE PARAGRAPH C408. PROVIDE THE COMMISSIONING COMPLIANCE CHECKLIST TO THE BUILDING OFFICIAL ON SUBSTANTIAL COMPLETION OF THE BUILDING.
- F. PROVIDE RECORD DRAWING, OWNERS MANUALS, BALANCING REPORT AND COMMISSIONING REPORT TO OWNER AT COMPLETION OF PROJECT. SEE C103.6 OF THE W.S.E.C.
- G. PROVIDE SYSTEMS OPERATIONS TRAINING TO THE BUILDING OWNER PER WSEC PARAGRAPH C103.6.4.

PIPING MATERIAL SCHEDULE

PIPING	LOCATION	MATERIAL	JOINT
COLD WATER	ABOVE GROUND	COPPER TYPE L	LEAD FREE SOLDER
		COPPER TYPE L	PROGRESS MECH JOINT
HOT WATER	ABOVE GROUND	COPPER TYPE L	LEAD FREE SOLDER
		COPPER TYPE L	PROGRESS MECH JOINT
WASTE	ALL	ABS/PVC SOLID CORE	
VENT	ALL	ABS/PVC SOLID CORE	GLUE

PLUMBING GENERAL NOTES

- VERIFY LOCATIONS OF ITEMS WITH ARCHITECTURAL PLANS PRIOR TO BEGINNING WORK. NOTIFY ARCHITECT/OWNER OF DISCREPANCIES.
- MECHANICAL EQUIPMENT 1/2 HP AND LESS SHALL HAVE STARTER/CONTROL RELAY PROVIDED BY DIVISION 23. STARTERS FOR MECHANICAL EQUIPMENT LARGER THAN 1/2 HP PROVIDED BY DIVISION 26.
- 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.
- ALL PIPING SHOWN IS SCHEMATIC, CONTRACTOR SHALL PROVIDE ALL OFFSETS/ELBOWS AS REQ'D TO ALLOW ROUTING AROUND STRUCTURE, ELECTRICAL, & OTHER INTERFERENCES.
- UNSIIZED PLUMBING PIPING 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.
- MATERIALS, METHODS, AND INSTALLATION SHALL COMPLY WITH THE PROVISIONS OF THE 2018 EDITION OF THE UNIFORM PLUMBING CODE, AND 2018 INTERNATIONAL MECHANICAL CODE.
- ALL PIPE SIZES NOTED ON DRAWINGS ARE MINIMUMS.
- SLOPE ALL WASTE PIPING AT 2% UNLESS OTHERWISE NOTED ON DRAWINGS. OBTAIN APPROVAL FROM CODE AUTHORITY BEFORE INSTALLING WASTE PIPING AT LESS THAN 2% (EVEN IF LESSER SLOPE IS INDICATED ON DRAWINGS).
- HANGERS AND SUPPORTS FOR PIPING SHALL BE IN ACCORDANCE WITH SECTION 314 OF THE 2018 UNIFORM PLUMBING CODE.
- PIPING PENETRATIONS OF FIRE RATED WALLS OR FLOORS SHALL BE SLEEVED AND FIRE STOPPED WITH LISTED MATERIALS SO AS TO MAINTAIN THE INTEGRITY AND RATING OF THE FLOOR OR WALL.
- FOR EXACT ROUGH-IN LOCATIONS AND ELEVATIONS OF PLUMBING FIXTURES REFER TO ARCHITECTURAL DRAWINGS.
- PROVIDE STOPS OR ANGLE VALVES AT ALL FIXTURES.
- PROVIDE DIELECTRIC CONNECTIONS BETWEEN DISSIMILAR METALS.
- CLEANOUTS SHALL BE INSTALLED SO THEY ARE EASILY ACCESSIBLE.
- PLUMBING EQUIPMENT, VALVES AND TRAP PRIMERS SHALL BE LOCATED IN EASILY ACCESSIBLE LOCATIONS. UNLESS SHOWN ON ARCHITECTURAL DRAWINGS, REQUIRED ACCESS PANELS SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
- THE PLUMBER SHALL PROVIDE AND LOCATE ALL REQUIRED FLOOR, WALL, AND FOOTING SLEEVES.

PLUMBING LEGEND

SYMBOL	DESCRIPTION	ABBREV.	DESCRIPTION
	WASTE OR SOIL (W)	AFF	ABOVE FINISHED FLOOR
	VENT (V)	APPROX	APPROXIMATELY
	COLD WATER (CW)	ARCH	ARCHITECTURAL
	HOT WATER (HW)	AUTO	AUTOMATIC
	HOT WATER CIRCULATING (HWC)	BLDG	BUILDING
	FIRE LINE	BTU	BRITISH THERMAL UNIT
	CONDENSATE LINE	BTUH	BRITISH THERMAL UNIT/HOUR
	DRAIN LINE	CAP	CAPACITY
	GAS LINE	CLG	CEILING
	ISOLATION GATE TYPE VALVE (EXCEPT WHERE INDICATED)	CO	CLEANOUT
	GLOBE VALVE	COMP	COMPRESSOR
	BALL VALVE	CONN	CONNECTION
	TEMPERING VALVE	CONT	CONTINUE, CONTINUATION
	ANGLE VALVE	COP	COEFFICIENT OF PERFORMANCE
	COMBINATION SHUT-OFF & BALANCING VALVE	DB	DRY BULB
	CHECK VALVE	DEG F	DEGREE FAHRENHEIT
	BUTTERFLY VALVE	DIA, Ø	DIAMETER
	SOLENOID VALVE	DN	DOWN
	GAS SEISMIC SHUT-OFF VALVE	DWG	DRAWING
	GAS REGULATOR	(E)	EXISTING
	UNION	EA	EACH
	RELIEF VALVE OR SAFETY VALVE	EFF	EFFICIENCY
	STRAINER	ELEC	ELECTRICAL, ELECTRIC
	CONSTANT FLOW VALVE	EXIST	EXISTING
	CONCENTRIC REDUCER	FCO	FLOOR CLEAN OUT
	ECCENTRIC REDUCER	FL	FLOOR
	HOSE BIBB	FLA	FULL LOAD AMPS
	PIPE / DUCT TURN UP	FLEX	FLEXIBLE
	PIPE / DUCT TURN DOWN	FPM	FEET PER MINUTE
	PIPE / DUCT POINT OF CONNECTION	GAL	GALLON
	WATER HAMMER ARRESTOR (P.D.I. SIZE AS SHOWN)	GAL.V.	GALVANIZED
	PRESSURE GAUGE	HP	HORSE POWER
	THERMOMETER	I.E.	INVERT ELEVATION
	THERMAL WELL	IN	INCH
	PRESSURE TEMPERATURE TEST PORT "PETE'S PLUG"	INTEGR.	INTEGRAL
	1 M3	KW	KILOWATT
	A M3	LWT	LEAVING WATER TEMPERATURE
		MAX	MAXIMUM
		MBH	THOUSAND BTUH
		MECH	MECHANICAL
		MFR	MANUFACTURER
		MIN	MINIMUM
		NO	NORMALLY OPEN
		NO.	NUMBER
		NTS	NOT TO SCALE
		PD	PRESSURE DROP
		P.D.I.	PLUMBING AND DRAINAGE INST.
		P.O.C.	POINT OF CONNECTION
		REF	REFERENCE
		REQ'D	REQUIRED
		RLA	RATED LOAD AMPS
		RM	ROOM
		RPM	REVOLUTIONS PER MINUTE
		SCO	SURFACE CLEAN OUT
		TEMP	TEMPERATURE
		TYP	TYPICAL
		UNO	UNLESS OTHERWISE NOTED
		V	VOLTS, VOLTAGE
		VTR	VENT THROUGH ROOF
		W	WATT
		W/	WITH
		WCO	WALL CLEAN OUT

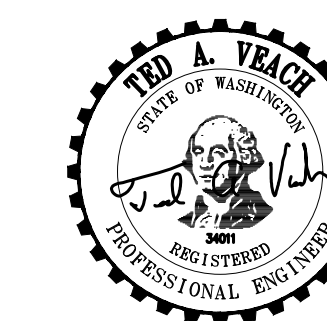
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EXPIRES 8-17-25

PROJECT ENGINEER

**WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION**

**KOPACHUCK
STATE PARK**

**DAY USE
BUILDING**

**PLUMBING
LEGEND &
NOTES**

P0.1

SCALE

AS NOTED

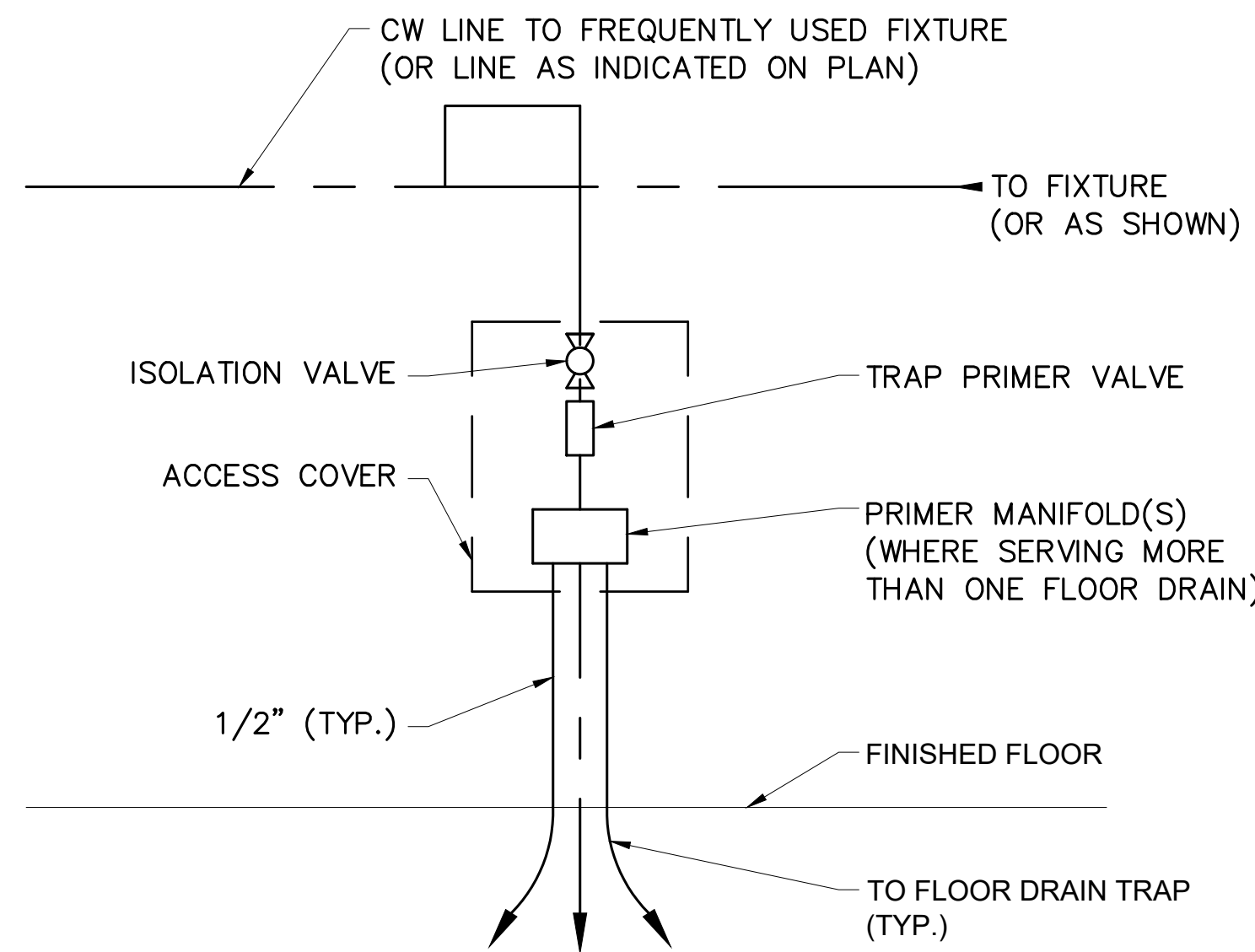
PARKS FILE#

WATER HEATER SCHEDULE											
SYMBOL	SPECIFIED MFR. AND MODEL NO.	TYPE	AREA SERVED	INPUT RATING	STORAGE (GAL)	DOMESTIC HW			ELECTRICAL		REMARKS
						GPH	EWT	LWT	FLA	VOLTS/PH	
WH-1	AO SMITH DEN-52	ELECTRIC TANK	MIXED USE BUILDING	(2) 4.5KW	50	25	50	120	21.8	208/3	4500/4500 WATT ELEMENTS NON-SIMULTANEOUS

PLUMBING Waste / Water Sizing							
Project:	Kopachuck State Park			Date:	8/21/2023		
Area:	Day Use Building			By:	Andrew H		
Fixture	Qty	DFU		WSFU			
		Each	Total	Each	Total	CW	HW
Water Closet	6	3	18	5	30	30	0
Lavoratory	6	1	6	1	6	4.5	4.5
Kitchen Sink (Dom)	1	2	2	1.5	1.5	1.13	1.13
Drinking Fountain	2	0.5	1	0.5	1	1	0
Floor Drain	8	0	0	0	0	0	0
Mop Sink	1	3	3	1.5	1.5	1.125	1.125
Hose Bib (First)	1	0	0	2.5	2.5	2.5	0
Hose Bib (Add'l)	2	0	0	1	2	2	0
TOTALS			32		44.5	42.25	7
Waste pipe size per UPC:		Total	32	DFU	4	Inch	
				SLOPE		2%	
Water pipe size per UPC:		Total	44.5	WSFU	48	gpm=	2 inch
		CW	42.25	WSFU	46	gpm=	2 inch
		HW	7	WSFU	22	gpm=	1-1/2 inch

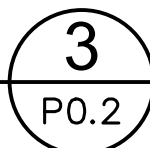
Notes: Fixture units based on 2018 UPC Appendix A.

PLUMBING FIXTURE SCHEDULE						
SYMBOL	DESCRIPTION	W	V	CW	HW	REMARKS
P-1A	WATER CLOSET	4"	2"	1"	-	WALL MOUNT HANDICAP ACCESSIBLE
P-3A	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	WALL MOUNT HANDICAP ACCESSIBLE
P-5A	KITCHEN SINK	2"	1 1/2"	1/2"	1/2"	SINGLE COMPARTMENT
P-6A	SERVICE SINK	3"	2"	1/2"	1/2"	FLOOR MOUNTED
P-8A	DRINKING FOUNTAIN	2"	1 1/2"	1/2"	-	HANDICAP ACCESSIBLE
P-10A	WALL HYDRANT	-	-	1/2"	-	FREEZE PROOF
P-11A	FLOOR DRAIN	2"	1 1/2"	-	-	W/ TRAP PRIMER
P-12A	DISHWASHER CONNECTION	2"	1 1/2"	1/2"	1/2"	UNDER COUNTER, CONNECT TO ADJACENT SINK, PROVIDE VACUUM BREAKER

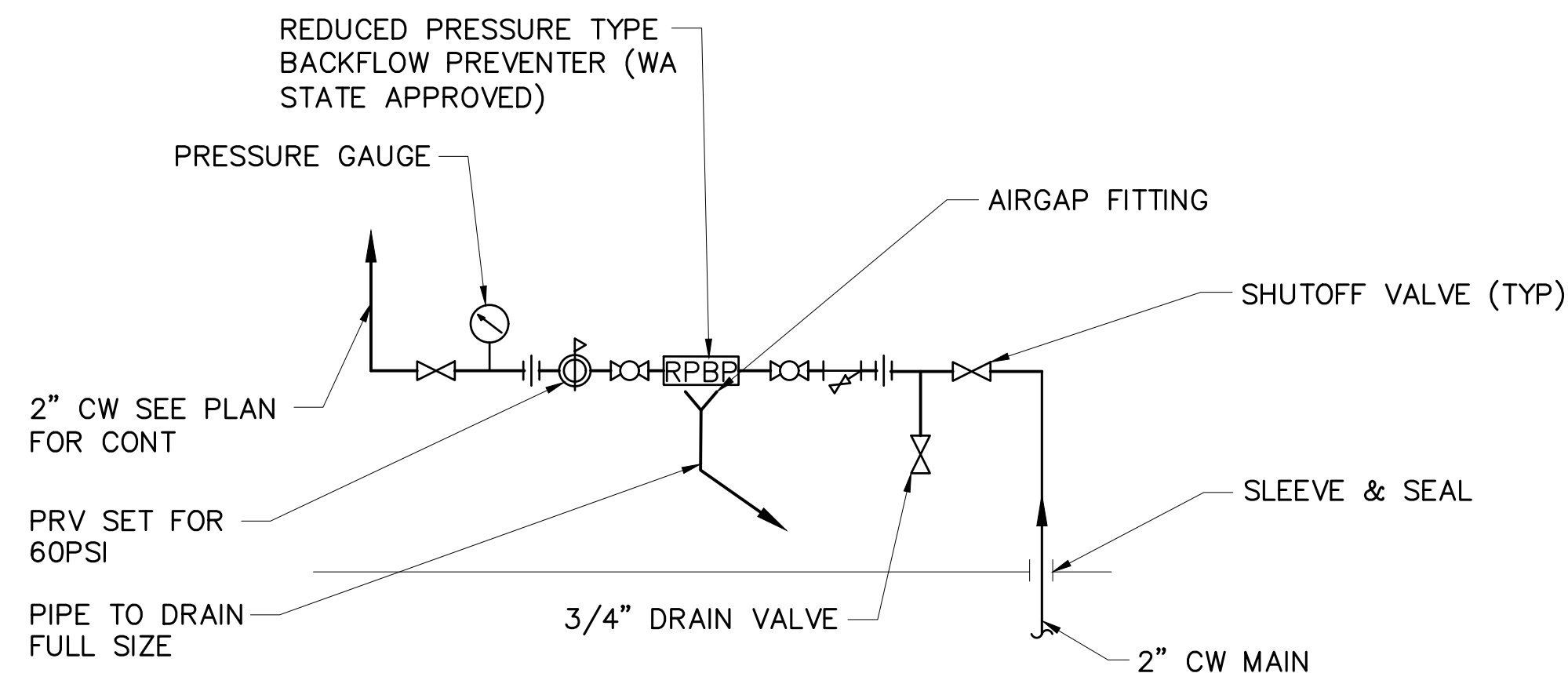


TRAP PRIMER DETAIL

NTS

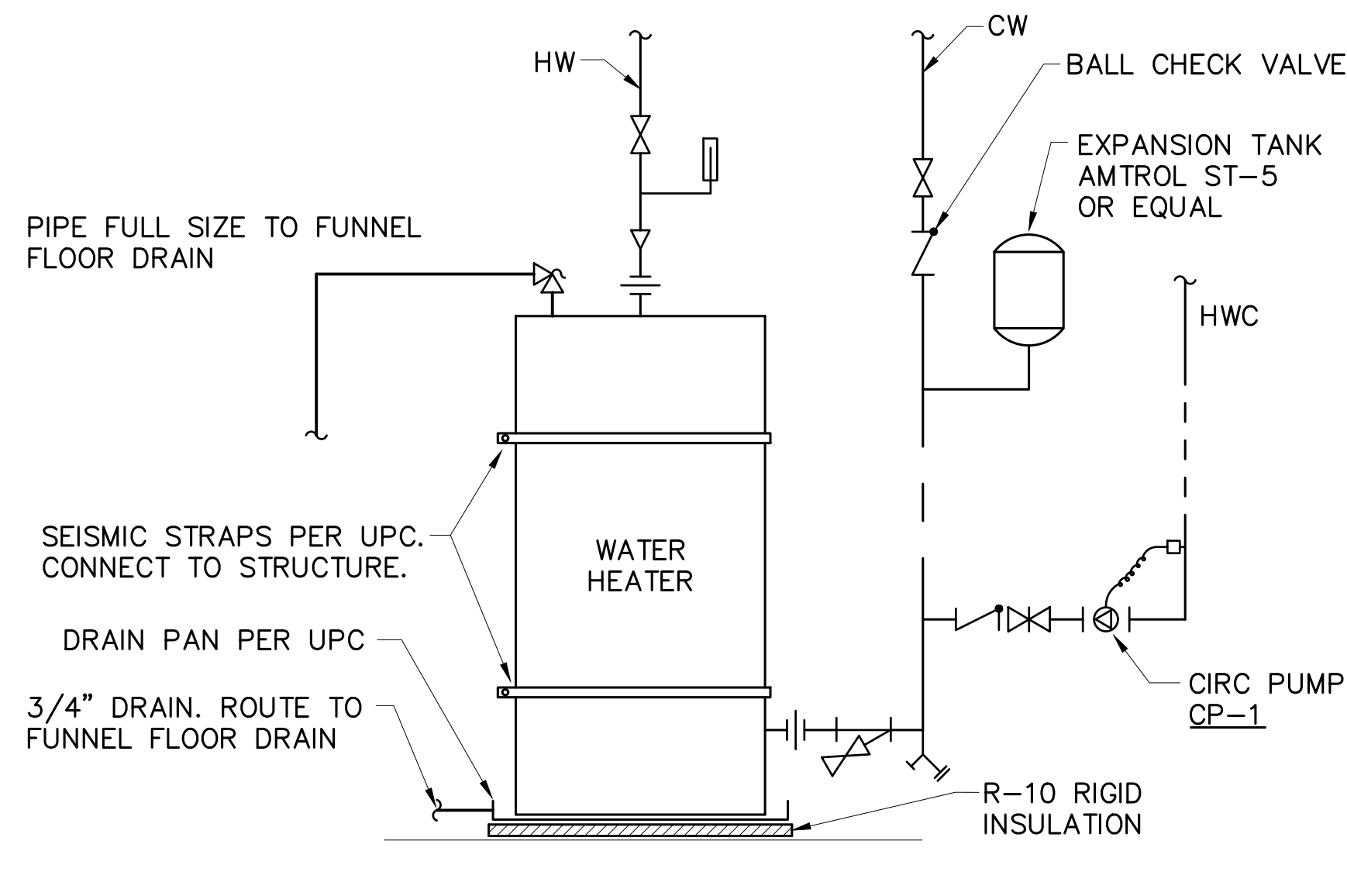
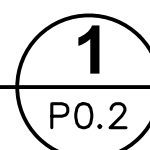


PUMP SCHEDULE								
SYMBOL	SPECIFIED MFR. AND MODEL NO.	TYPE	SERVICE	GPM	HEAD FT H2O	ELECTRICAL		REMARKS
						WATTS	VOLTS/PH	
CP-1	BELL & GOSSETT NBF-9U	IN LINE CIRCULATOR	HOT WATER	5	5	41	120/1	LEAD FREE BRONZE WITH AUTOMATIC TIMER AND AQUASTAT



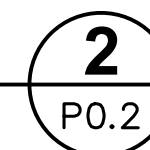
COLD WATER HEADER DETAIL

NOT TO SCALE

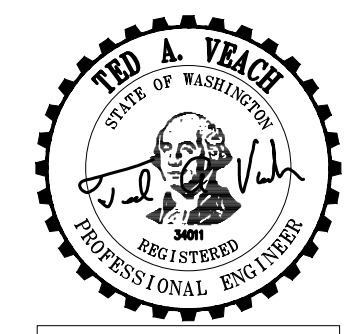


WATER HEATER DETAIL

NTS



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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE BUILDING

PLUMBING SCHEDULES

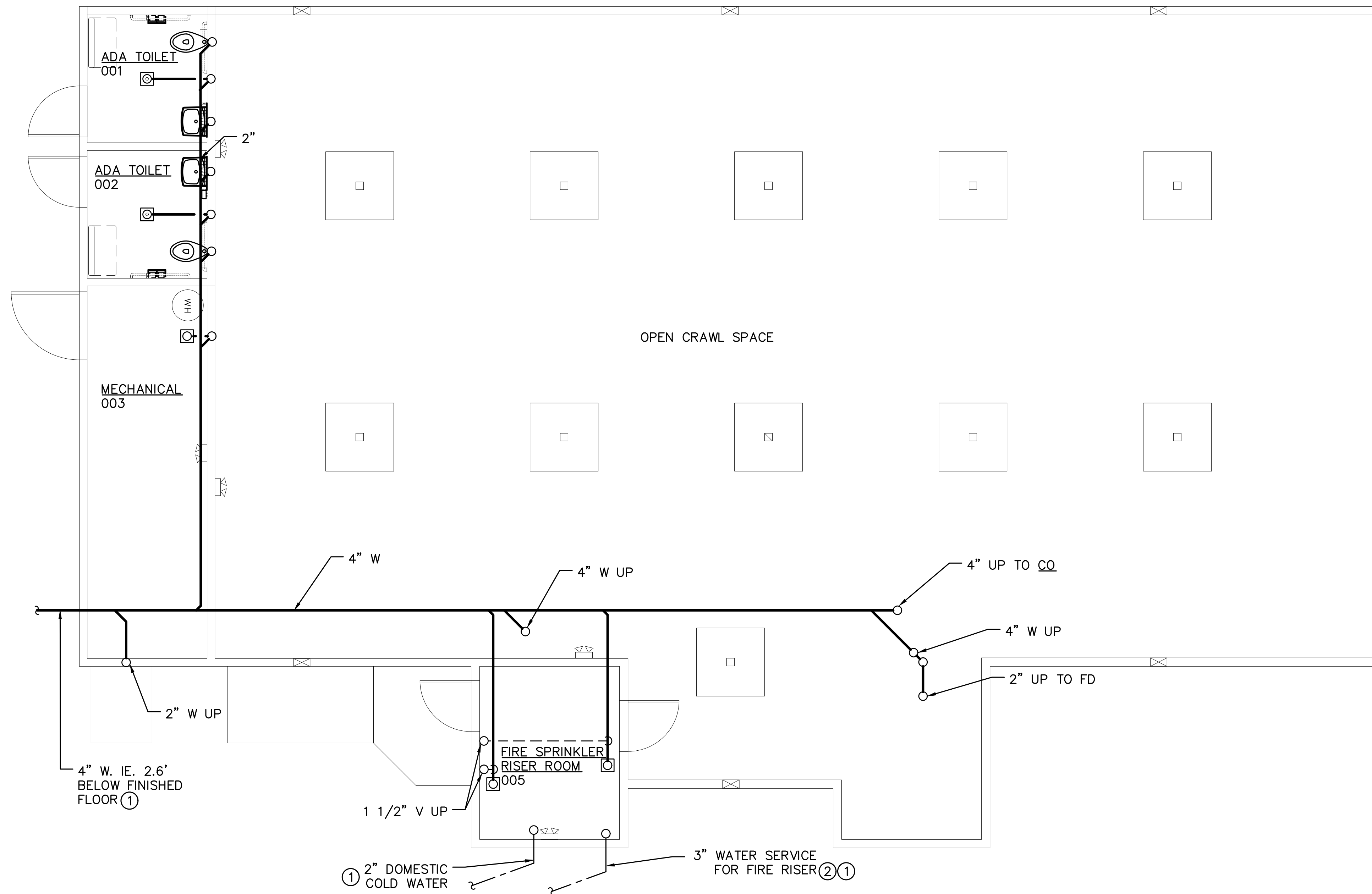
P0.2

KEYED NOTES:

- ① SEE CIVIL SITE PLAN FOR CONTINUATION
- ② FIRE SPRINKLER CONTRACTOR SHALL PERFORM CALCULATIONS AND DETERMINE ACTUAL REQUIRED PIPE SIZE

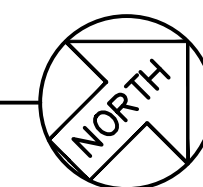
DRAWING NOTES:

- 1. ALL PLUMBING INSTALLATION SHALL BE PER 2018 UNIFORM PLUMBING CODE.
- 2. PROVIDE WALL CLEANOUTS WHERE SHOWN AND AS REQUIRED TO MEET CODE.
- 3. FOR PIPING SIZES TO INDIVIDUAL PLUMBING FIXTURES SEE PLUMBING FIXTURE SCHEDULE.
- 4. OFFSET WASTE PIPING AS REQUIRED TO AVOID FOOTINGS, FOUNDATIONS, ELECTRICAL SERVICE, AND OTHER OBSTRUCTIONS. SEE STRUCTURAL AND ELECTRICAL DRAWINGS.
- 5. INVERT ELEVATIONS SHOWN ARE BASED ON FINISHED FLOOR ELEVATION AND 1/4" PER FOOT SLOPE.



FOUNDATION PLUMBING PLAN - DAY USE BLDG

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



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KOPACHUCK STATE PARK

DAY USE BUILDING

UNDERSLAB PLUMBING PLAN

P1.0

SCALE

AS NOTED

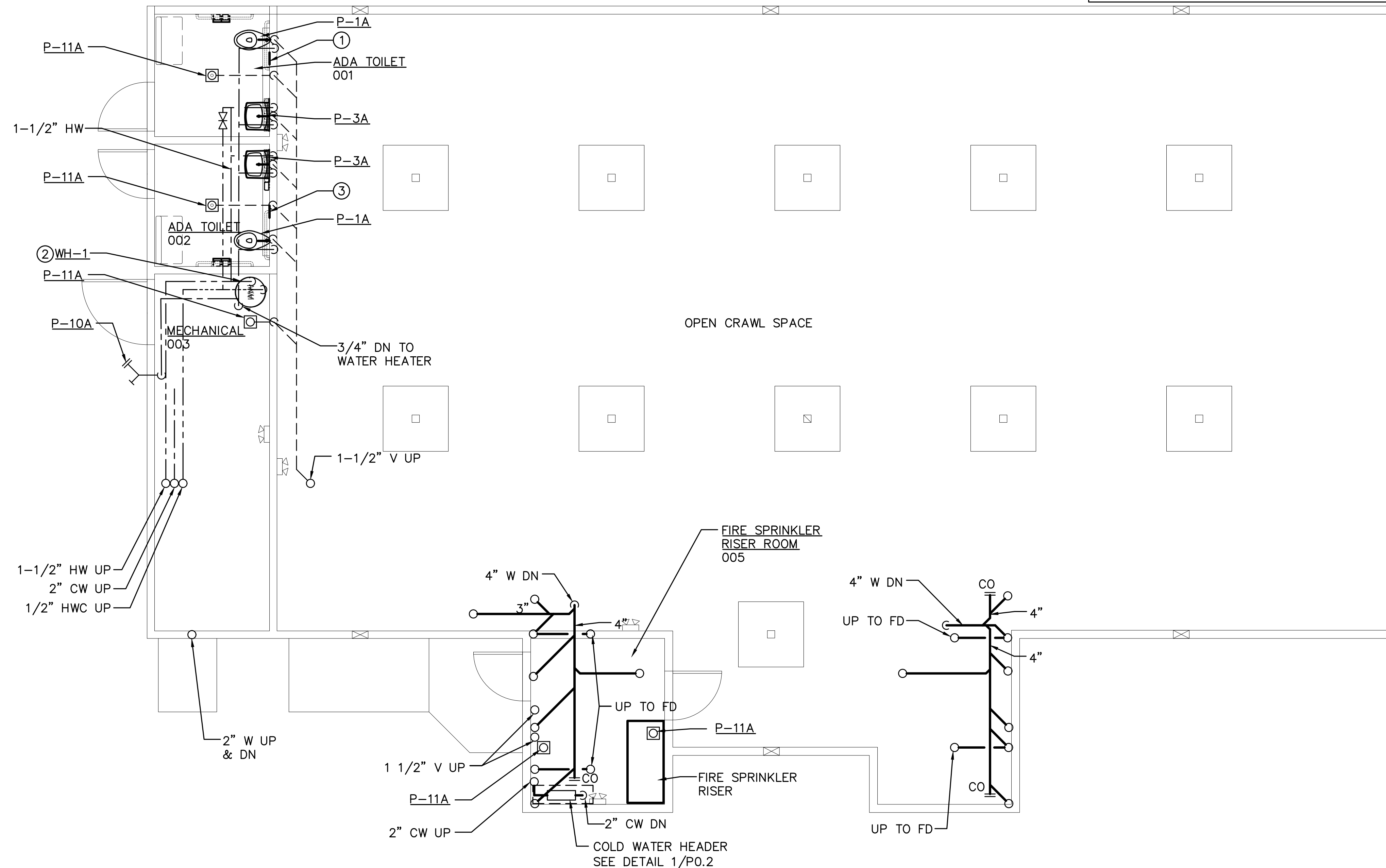
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KEYED NOTES:

- ① PROVIDE TRAP PRIMER BEHIND KEYED ACCESS DOOR. SEE DETAIL 3/P0.2
- ② SEE WATER HEATER INSTALLATION DETAIL 2/P0.2
- ③ WATER HAMMER ARRESTOR BEHIND ACCESS DOOR.

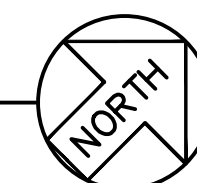
DRAWING NOTES:

- 1. ALL PLUMBING INSTALLATION SHALL BE PER 2018 UNIFORM PLUMBING CODE.
- 2. PROVIDE WALL CLEANOUTS WHERE SHOWN AND AS REQUIRED TO MEET CODE.
- 3. FOR PIPING SIZES TO INDIVIDUAL PLUMBING FIXTURES SEE PLUMBING FIXTURE SCHEDULE.
- 4. OFFSET WASTE PIPING AS REQUIRED TO AVOID FOOTINGS, FOUNDATIONS, ELECTRICAL SERVICE, AND OTHER OBSTRUCTIONS. SEE STRUCTURAL AND ELECTRICAL DRAWINGS.
- 5. INVERT ELEVATIONS SHOWN ARE BASED ON FINISHED FLOOR ELEVATION AND 1/4" PER FOOT SLOPE.
- 6. ALL ISOLATION VALVES SHALL BE ACCESSIBLE. LOCATE VALVE HANDLES TO TURN FULLY WITHOUT OBSTRUCTION.
- 7. SEE WATER HEATER DETAIL 2/M0.2 FOR CONNECTION OF WATER HEATERS.
- 8. PROVIDE HEAT TRACING OF ALL OUTSIDE EXPOSED WATER PIPING.



LOWER LEVEL PLUMBING PLAN - DAY USE BLDG

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



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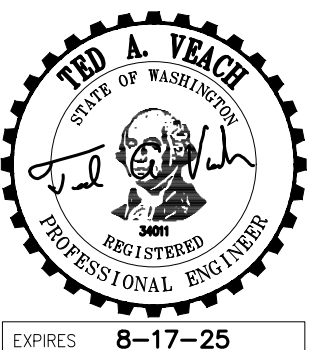
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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

DAY USE BUILDING

LOWER FLOOR PLUMBING PLAN

P1.1

SCALE

AS NOTED

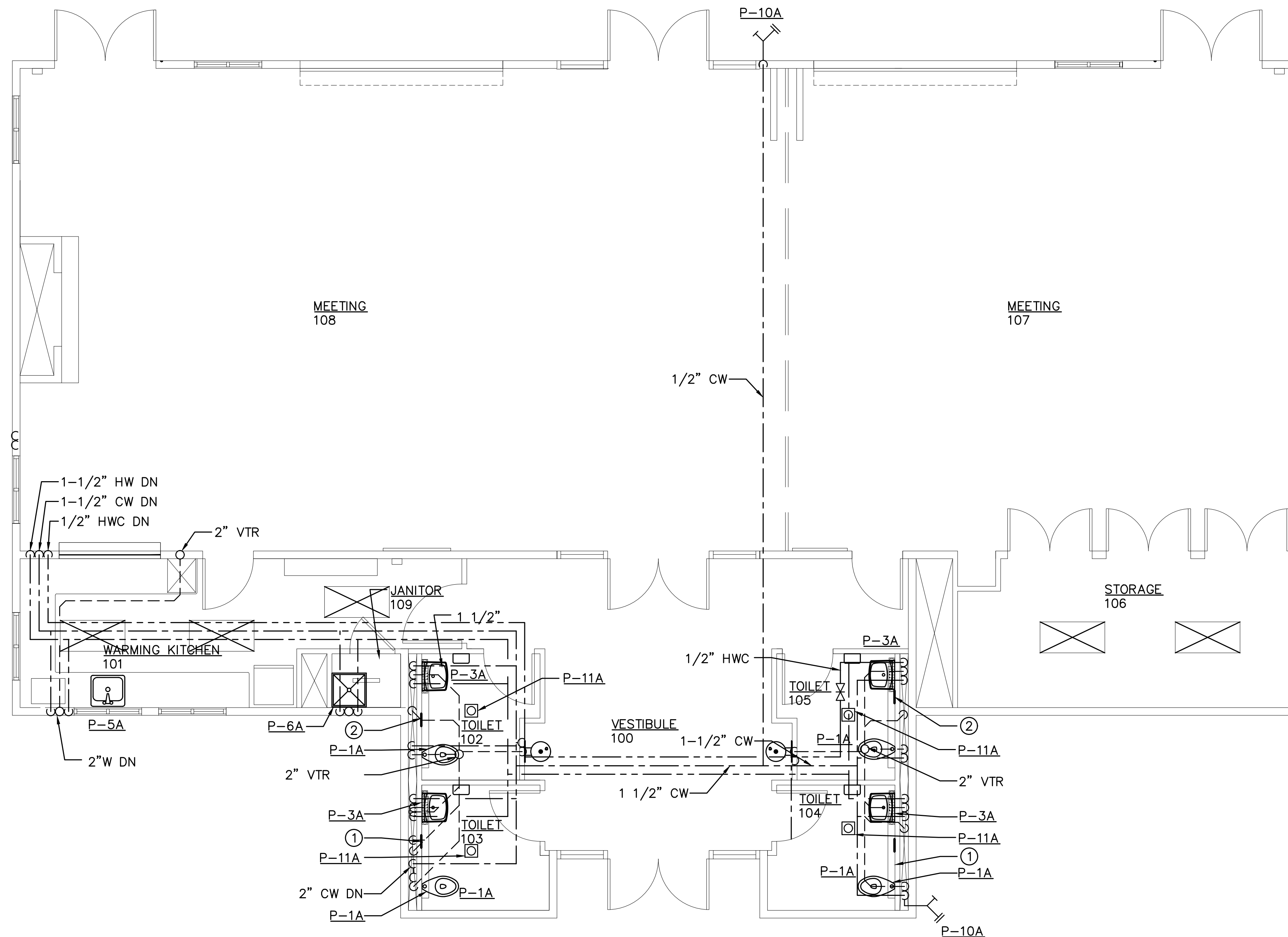
PARKS FILE#

KEYED NOTES:

- ① PROVIDE TRAP PRIMER BEHIND KEYED ACCESS DOOR. SEE DETAIL 3/P0.2
- ② WATER HAMMER ARRESTOR BEHIND ACCESS DOOR.

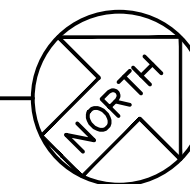
DRAWING NOTES:

- 1. ALL PLUMBING INSTALLATION SHALL BE PER 2018 UNIFORM PLUMBING CODE.
- 2. PROVIDE WALL CLEANOUTS WHERE SHOWN AND AS REQUIRED TO MEET CODE.
- 3. FOR PIPING SIZES TO INDIVIDUAL PLUMBING FIXTURES SEE PLUMBING FIXTURE SCHEDULE.
- 4. OFFSET WASTE PIPING AS REQUIRED TO AVOID FOOTINGS, FOUNDATIONS, ELECTRICAL SERVICE, AND OTHER OBSTRUCTIONS. SEE STRUCTURAL AND ELECTRICAL DRAWINGS.
- 5. INVERT ELEVATIONS SHOWN ARE BASED ON FINISHED FLOOR ELEVATION AND 1/4" PER FOOT SLOPE.
- 6. ALL ISOLATION VALVES SHALL BE ACCESSIBLE. LOCATE VALVE HANDLES TO TURN FULLY WITHOUT OBSTRUCTION.



UPPER LEVEL PLUMBING PLAN - DAY USE BLDG

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



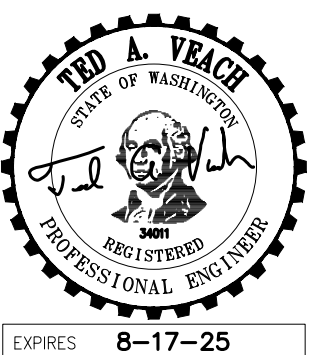
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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

DAY USE BUILDING

MAIN FLOOR PLUMBING PLAN

P1.2

SCALE



AS NOTED

PARKS FILE#














SYMBOLS AND ABBREVIATIONS

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME






PANELBOARDS

-  208V SYSTEM PANELBOARD
-  480V SYSTEM PANELBOARD















LIGHTING

- CIRCUITS**
EMERGENCY NORMAL
- N/A  LOWER-CASE LETTER NEAR FIXTURE DENOTES SWITCH LEG, TYP
 -  RECESSED RECTANGULAR FIXTURE, DRAWN TO SCALE
 -  SURFACE MOUNTED RECTANGULAR FIXTURE, DRAWN TO SCALE
 -  WALL MOUNTED RECTANGULAR FIXTURE, LENGTH TO SCALE (NUMBER OF MOUNTING POINTS WILL VARY WITH FIXTURE LENGTH AND ARE NOT INDICATED)
 -  RECESSED DOWNLIGHT FIXTURE
 -  PENDANT MOUNTED FIXTURE
 -  LINEAR PENDANT MOUNTED FIXTURE, LENGTH TO SCALE (NUMBER OF MOUNTING POINTS WILL VARY WITH FIXTURE LENGTH AND ARE NOT INDICATED)
 -  WALL MOUNTED FIXTURE
 -  EXIT SIGN, FILLED SIDES ARE ILLUMINATED, DIRECTIONAL ARROWS AS INDICATED
 - N/A  EMERGENCY BATTERY PACK
 - N/A  EXIT WITH EMERGENCY BATTERY PACK
 - N/A  CEILING MOUNTED WALL WASH FIXTURE, OPEN AREA INDICATES DIRECTION OF ILLUMINATION
 -  FIXTURE IDENTIFICATION, SEE LIGHTING FIXTURE SCHEDULE





LIGHTING SWITCHES AND CONTROLS

-  LOWER-CASE LETTER NEAR SWITCH DENOTES CIRCUIT CONTROLLED (TYP)
-  SINGLE POLE SWITCH
-  3-WAY SWITCH
-  OCCUPANCY SENSOR SWITCH
-  DIMMER SWITCH




CIRCUITS

-  RACEWAY CONCEALED IN CEILING OR WALL. HASH MARKS INDICATE NUMBER OF WIRES. #12 AWG WIRE UNLESS OTHERWISE NOTED. EXPOSED RACEWAY IS ALLOWED ONLY WHERE NOTED.
-  HOT (SHORT HASH MARK)
-  NEUTRAL (LONG HASH MARK)
-  GROUND WIRE (JOGGED HASH MARK)
-  EXISTING RACEWAY (IF HASH MARKS ARE SHOWN, PULL NEW CONDUCTORS)
-  RACEWAY BELOW SLAB OR UNDERGROUND
-  RACEWAY UP
-  RACEWAY DOWN
-  RACEWAY STUB-OUT WITH BUSHING
-  CIRCUIT CONTINUATION
-  HOME RUN TO PANEL OR LOCATION NOTED
-  JUNCTION BOX
-  PULL BOX
-  TA-38 COMM VAULT

RECEPTACLES

-  DUPLEX RECEPTACLE, 120V, 20A
-  GFCI DUPLEX RECEPTACLE, 120V, 20A
-  WEATHERPROOF, GFCI DUPLEX RECEPTACLE, 120V, 20A
-  DOUBLE DUPLEX RECEPTACLE, 120V, 20A

RECEPTACLE TYPES

-  MOUNTED 3" ABOVE COUNTER BACKSPLASH
-  GROUND FAULT CIRCUIT INTERRUPTER
-  GROUND FAULT CIRCUIT INTERRUPTER WITH WEATHER PROOF COVER
















CONTROLS

-  FUSED DISCONNECT SWITCH (FUSE RATING INDICATED)

EQUIPMENT

-  EQUIPMENT CONNECTION, E = EMERGENCY POWER

WORK DEFINITION

-  FLAG NOTE
-  REVISION IDENTIFICATION
-  EQUIPMENT IDENTIFICATION
-  EQUIPMENT IDENTIFICATION
-  DETAIL REFERENCE
-  DETAIL REFERENCE W/ORIGINATING SHEET REFERENCE
-  SECTION REFERENCE
-  SECTION REFERENCE W/ORIGINATING SHEET REFERENCE
-  ELEVATION REFERENCE
-  PROJECT NORTH REFERENCE
-  PROJECT NORTH REFERENCE W/TRUE NORTH REFERENCE
-  NEW WORK
-  EXISTING
-  FUTURE
-  REMOVE EXISTING ELECTRICAL EQUIPMENT

OUTLET MOUNTING HEIGHTS

SPECIAL OUTLET HEIGHTS ARE SHOWN ON THE ELECTRICAL DRAWINGS OR ON THE ARCHITECTURAL DRAWINGS. IF SPECIAL OUTLET HEIGHTS ARE NOT SHOWN OR REQUIRED, THEN LOCATE OUTLETS AS NOTED BELOW. OUTLET HEIGHTS ARE MEASURED FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE OUTLET UNLESS OTHERWISE NOTED.


RECEPTACLES	18 INCHES (460 mm) VERTICALLY MOUNTED
SWITCHES	43 INCHES (1095 mm) VERTICALLY MOUNTED
PANELBOARDS	72 INCHES (1830 mm) TO TOP OF PANELBOARD IF BOX < 68 INCHES (1730 mm) HIGH, OTHERWISE PER NEC 404.8

GENERAL NOTES

- COMPLY WITH THE NATIONAL ELECTRICAL CODE AS ADOPTED AND AMENDED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- THE LOCATIONS OF ELECTRICAL DEVICES OR LIGHTING FIXTURES INDICATED ON ARCHITECTURAL PLANS ELEVATIONS OR SECTIONS TAKE PRECEDENCE OVER LOCATIONS INDICATED ON THE ELECTRICAL DRAWINGS.
- REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LIGHTING FIXTURE LOCATIONS.
- FOR LIGHTING CONTROLS WHICH INCLUDE OCCUPANT SENSING AUTOMATIC CONTROLS, AUTOMATIC SHUT-OFF CONTROLS, OCCUPANCY SENSORS, OR AUTOMATIC TIME SWITCHES THE LIGHTING CONTROLS SHALL BE TESTED TO ENSURE THAT CONTROL DEVICES, COMPONENTS, EQUIPMENT, AND SYSTEMS ARE CALIBRATED, ADJUSTED, AND OPERATE IN ACCORDANCE WITH PROJECT PLANS AND SPECIFICATIONS. SEQUENCE OF OPERATION SHALL ALSO BE FUNCTIONALLY TESTED TO ENSURE IT IS OPERATING IN ACCORDANCE WITH PROJECT PLANS AND SPECIFICATIONS. A COMPLETE REPORT OF TEST PROCEDURES AND RESULTS SHALL BE PREPARED AND FILED WITH THE OWNER.

	DATE
	APP.
	INT.
	REVISIONS
	NO.

ACTION	BY	DATE
DESIGNED	CBF	NOV. 2023
DRAWN	JTW	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

DAY USE BUILDING

SYMBOLS AND ABBREVIATIONS

E0.00

SCALE AS NOTED

PARKS FILE#

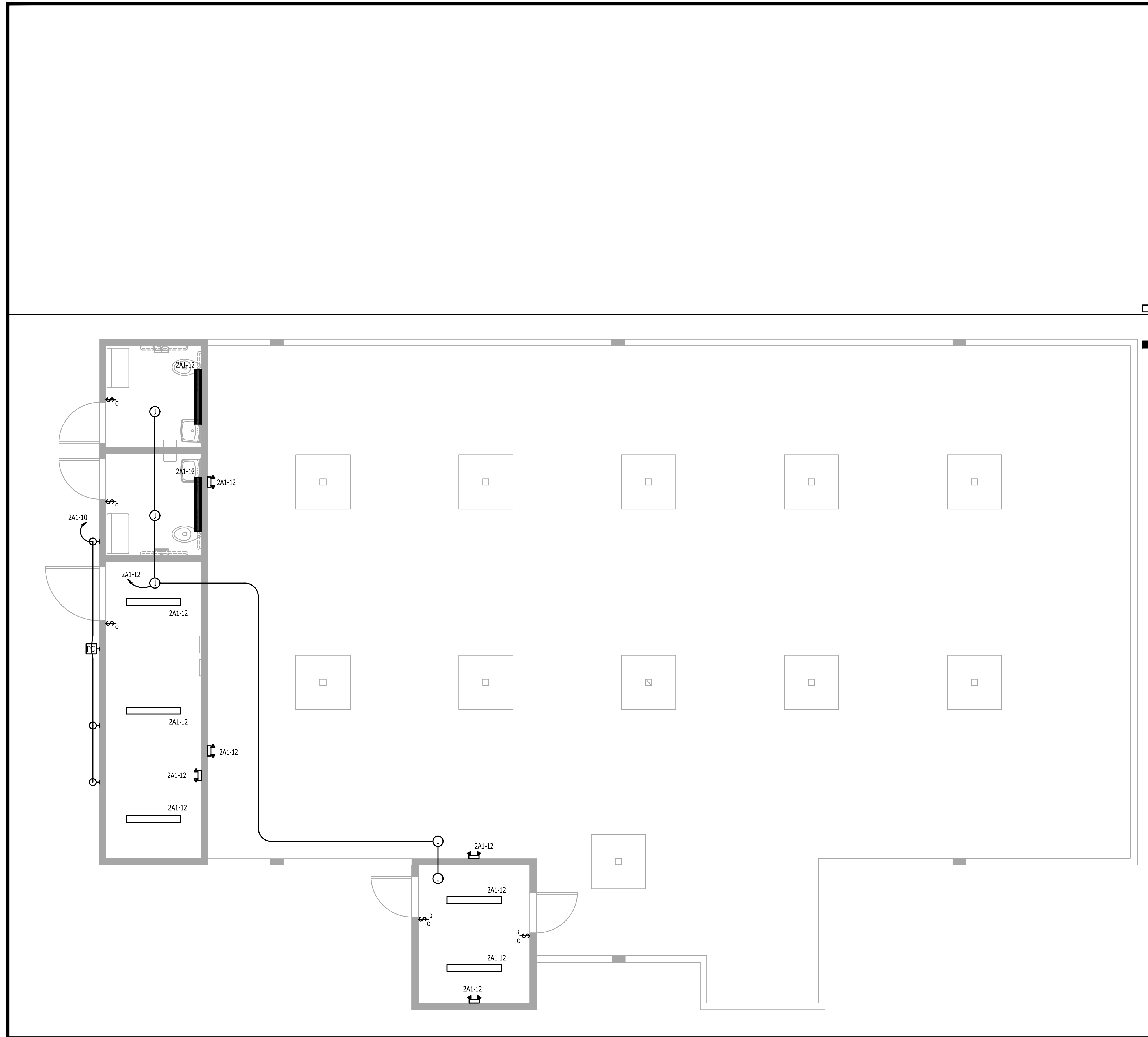


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(206) 667-0555

SHEET 49 OF 56
BID SET

V:\2048\ACTIVE\204820753\CAD-BIM\E000 - DAY USE.DWG - DAY USE Dec 20, 2023 10:52 AM By: JWHITMER

V:\2048\ACTIVE\204820753\CAD-BIM\201 Dec 20, 2023 10:52 AM By: JMTIMER



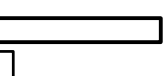



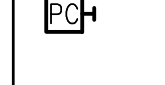
GENERAL NOTES:

1. REQUIRED RACEWAY, CONDUCTORS, AND JUNCTION BOXES ARE NOT SHOWN ON PLANS IN THEIR ENTIRETY. CONTRACTOR SHALL PROVIDE ALL DEVICES AND APPURTENANCES REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM. JUNCTION BOXES SHOWN IN HARD LID CEILING ARE SHOWN TO COMMUNICATE DESIGN INTENT ONLY.

FLAG NOTES:

1 NOT USED.

LEGEND

-  SURFACE MOUNTED 4' LED STRIPLIGHT, LITHONIA ZL1D, 3500K CCT, 3000 LUMENS, 120V, 30W
-  LED SURFACE MOUNT LIGHT FIXTURE, WEATHER & VANDAL RESISTANT. NOMINALLY 8" X 48". 100 WATT LED WITH 0-10V DIMMING DRIVER, 120 VOLT. LUMINAIRE LED #VPF8-4-100WHP-3500K-GRY.
-  EXTERIOR WALL MOUNTED LANTERN SCONCE, SEA GULL LIGHTING SEBRING 1, 120V, 1000 LUMENS, 14W
-  SURFACE MOUNTED TWIN HEAD EMERGENCY FIXTURE, LITHONIA ELM, 120 VOLT, 3W
-  PHOTOCELL, 120 VOLT

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

DATE	APP.	INT.	NO.

ACTION	BY	DATE
DESIGNED	CBF	NOV. 2023
DRAWN	JTW	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK
DAY USE BUILDING

LOWER LEVEL FLOOR PLAN - LIGHTING

E2.01



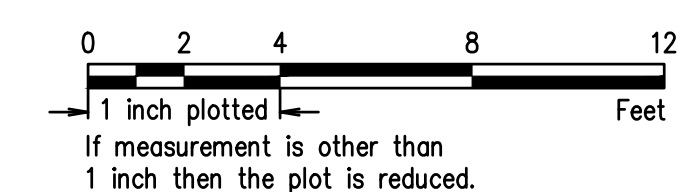
3400 188th Street SW Suite 285
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SHEET 50 OF 56
BID SET

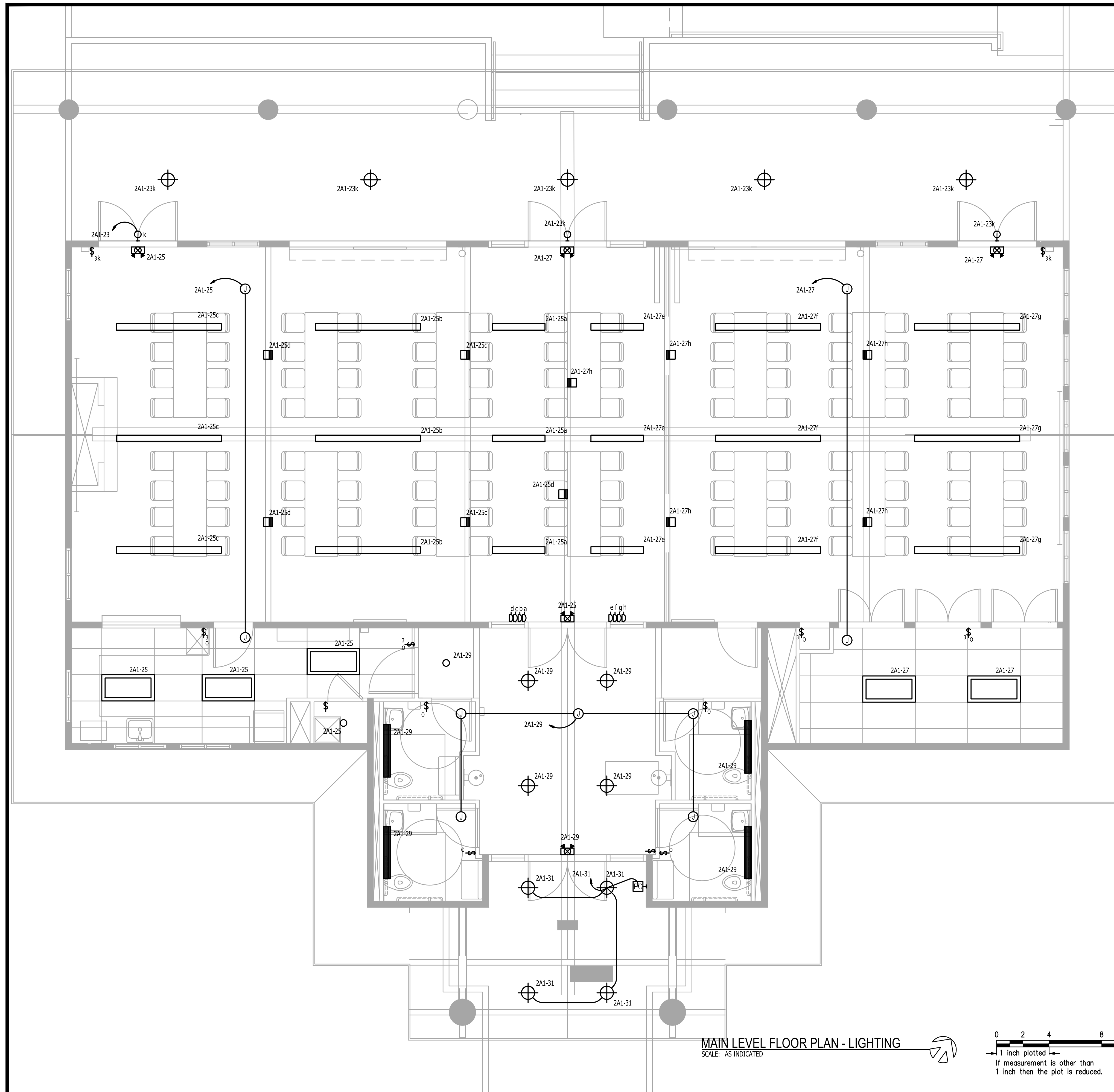
SCALE AS NOTED

PARKS FILE#

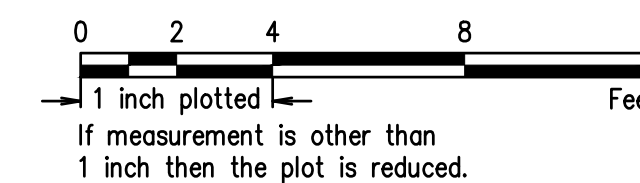
LOWER LEVEL FLOOR PLAN - LIGHTING
SCALE: AS INDICATED



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MAIN LEVEL FLOOR PLAN - LIGHTING
SCALE: AS INDICATED



GENERAL NOTES:

1. REQUIRED RACEWAY, CONDUCTORS, AND JUNCTION BOXES ARE NOT SHOWN ON PLANS IN THEIR ENTIRETY. CONTRACTOR SHALL PROVIDE ALL DEVICES AND APPURTENANCES REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM. JUNCTION BOXES SHOWN IN HARD LID CEILING ARE SHOWN TO COMMUNICATE DESIGN INTENT ONLY.

FLAG NOTES:

1 NOT USED.

LEGEND

- PENDANT MOUNTED LED, NARROW LINEAR FIXTURE, 3" WIDE, LENGTHS AS SHOWN. PINNACLE EDGE EX, 3500K CCT, 695 LUMENS/FT, 120V, 8.6W/FT
- RECESSED 2' X 4' TROFFER, 3500K CCT, 120V
- LED SURFACE MOUNT LIGHT FIXTURE, WEATHER & VANDAL RESISTANT. NOMINALLY 8" X 48". 100 WATT LED WITH 0-10V DIMMING DRIVER, 120 VOLT. LUMINAIRE LED #VFP8-4-100WHP-3500K-GRY.
- EXTERIOR WALL MOUNTED LANTERN SCONCE, SEA GULL LIGHTING SEBRING 1, 120V, 1000 LUMENS, 14W
- EXTERIOR PENDANT MOUNTED LED, SEA GULL LIGHTING DIVISION STREET 15" WIDE, 120V, 800 LUMENS, 9.5W
- WALL/CEILING MOUNTED ARCHITECTURAL FIXTURE, PINNACLE PEAK LARGE DECO FLUSH, 120V, (1) 42W CFL BULB
- SURFACE MOUNTED TWIN HEAD EMERGENCY EXIT SIGN FIXTURE, LITHONIA LHQM, 120 VOLT

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	CBF	NOV. 2023
DRAWN	JTW	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		



PROJECT ENGINEER

WASHINGTON
STATE
PARKS
AND
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COMMISSION



KOPACHUCK
STATE PARK

DAY USE
BUILDING

MAIN LEVEL FLOOR
PLAN - LIGHTING

E2.02



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SHEET 51 OF 56

BID SET

SCALE

AS NOTED

PARKS FILE#

	DATE
	APP.
	INT.
	NO.
REVISIONS	

ACTION	BY	DATE
DESIGNED	CBF	NOV. 2023
DRAWN	JTW	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

DAY USE BUILDING

LOWER LEVEL FLOOR PLAN - POWER

E3.01

SCALE AS NOTED

PARKS FILE#

LEGEND

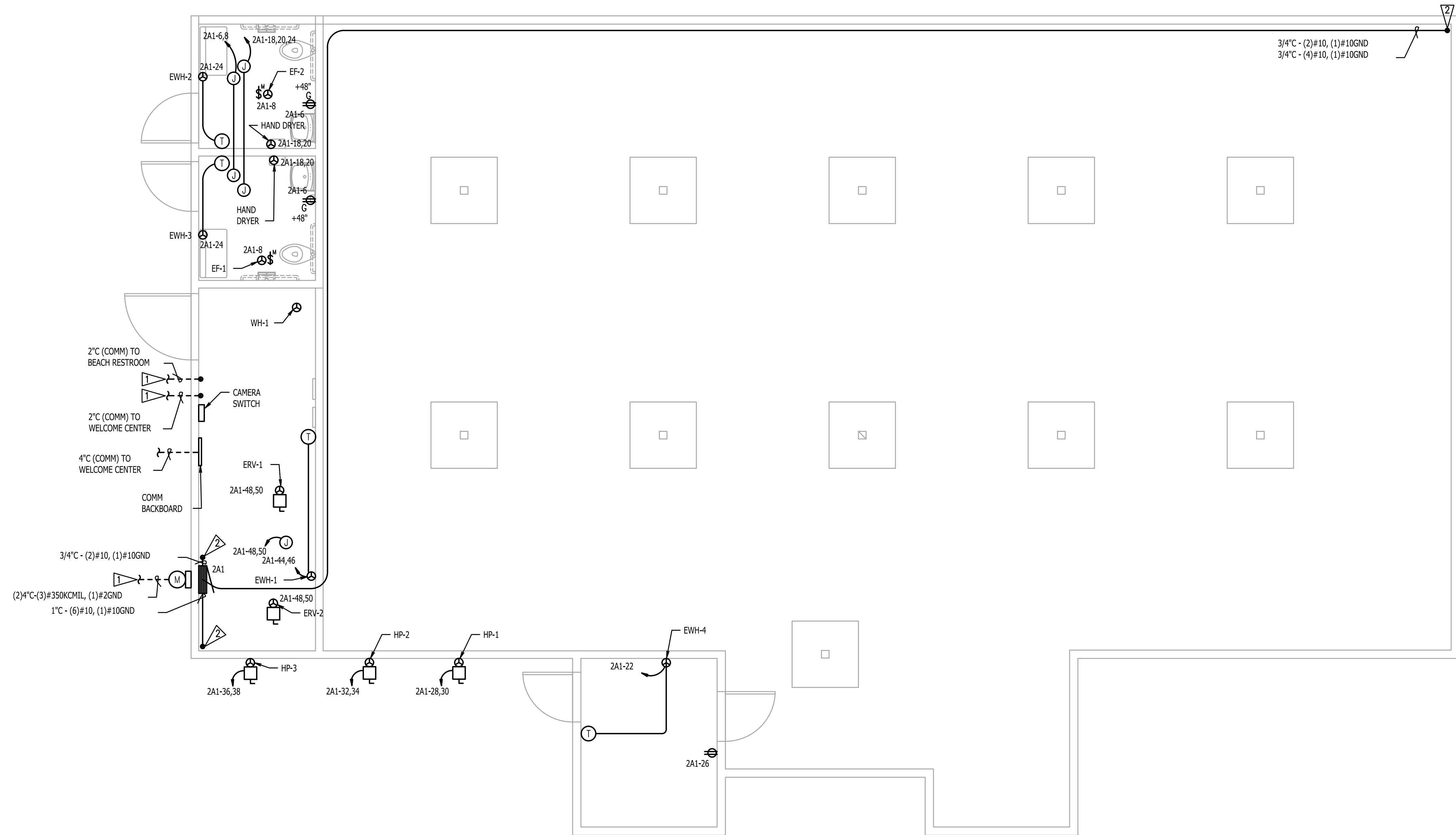
	DUPLEX RECEPTACLE, 120V, 20A
	GFCI DUPLEX RECEPTACLE, 120V, 20A
	EQUIPMENT CONNECTION
	FUSED DISCONNECT
	120/240V ELECTRICAL PANEL
	ELECTRICAL METER
	MOTOR RATED SWITCH

GENERAL NOTES:

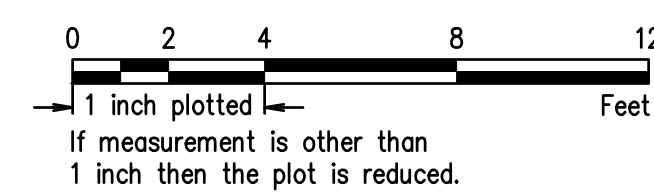
- REQUIRED RACEWAY, CONDUCTORS, AND JUNCTION BOXES ARE NOT SHOWN ON PLANS IN THEIR ENTIRETY. CONTRACTOR SHALL PROVIDE ALL DEVICES AND APPURTENANCES REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM. JUNCTION BOXES SHOWN IN HARD LID CEILING ARE SHOWN TO COMMUNICATE DESIGN INTENT ONLY.

FLAG NOTES:

- ROUTE CONDUIT THROUGH BUILDING AND OUT TO SITE UNDER ENTRY BRIDGE WALKWAY.
- STUB OUT OF MECHANICAL ROOM ON LOWER LEVEL OF DAY USE BUILDING. COORDINATE LOCATIONS WITH E1.04 AND SITE ARCHITECTURAL PLANS (VOLUME 1) DRAWINGS.



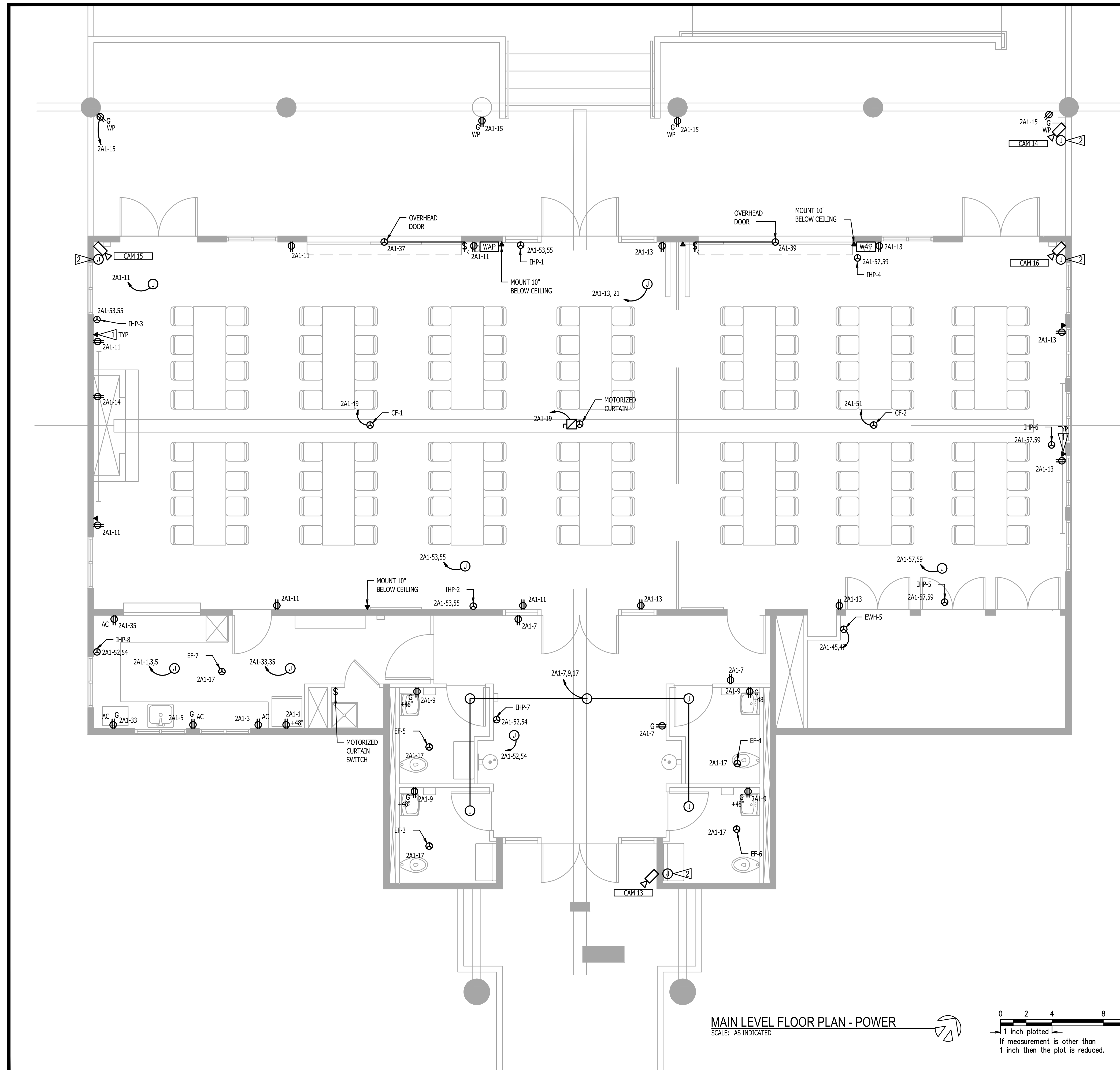
LOWER LEVEL FLOOR PLAN - POWER
SCALE: AS INDICATED



SHEET 52 OF 56
BID SET

V:\2048\ACTIVE\204820753\CAD-BIM\E3.01 Dec. 20, 2023 10:53 AM By: JMTIMER

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GENERAL NOTES:

1. REQUIRED RACEWAY, CONDUCTORS, AND JUNCTION BOXES ARE NOT SHOWN ON PLANS IN THEIR ENTIRETY. CONTRACTOR SHALL PROVIDE ALL DEVICES AND APPURTENANCES REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM. JUNCTION BOXES SHOWN IN HARD LID CEILING ARE SHOWN TO COMMUNICATE DESIGN INTENT ONLY.

FLAG NOTES:

- 1 PROVIDE RACEWAY FROM EACH OUTLET TO NETWORK BACKBOARD LOCATED IN MAIN ELECTRICAL ROOM LOCATED IN BASEMENT.
- 2 PROVIDE RACEWAY AND JUNCTION BOXES BACK TO CAMERA SWITCH RACK LOCATED IN BASEMENT MECHANICAL ROOM. PROVIDE (1) CAT5 CABLE FOR EACH CAMERA.
- 3 MOUNT RECEPTACLE IN CEILING FOR PROJECTOR.

LEGEND

- ⊕ DUPLEX RECEPTACLE, 120 VOLT, 20A
- G ⊕ GFCI DUPLEX RECEPTACLE, 120 VOLT, 20A
- WP ⊕ WEATHERPROOF, GFCI DUPLEX RECEPTACLE, 120 VOLT, 20A
- ⊙ EQUIPMENT CONNECTION
- WAP WIRELESS ACCESS POINT
- ▼ DATA OUTLET - SINGLE JACK

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

DATE	APP.	INT.	NO.

ACTION	BY	DATE
DESIGNED	CBF	NOV. 2023
DRAWN	JTW	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

DAY USE BUILDING

MAIN LEVEL FLOOR PLAN - POWER

E3.02

SCALE AS NOTED

PARKS FILE#

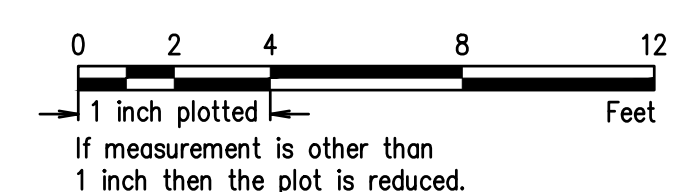


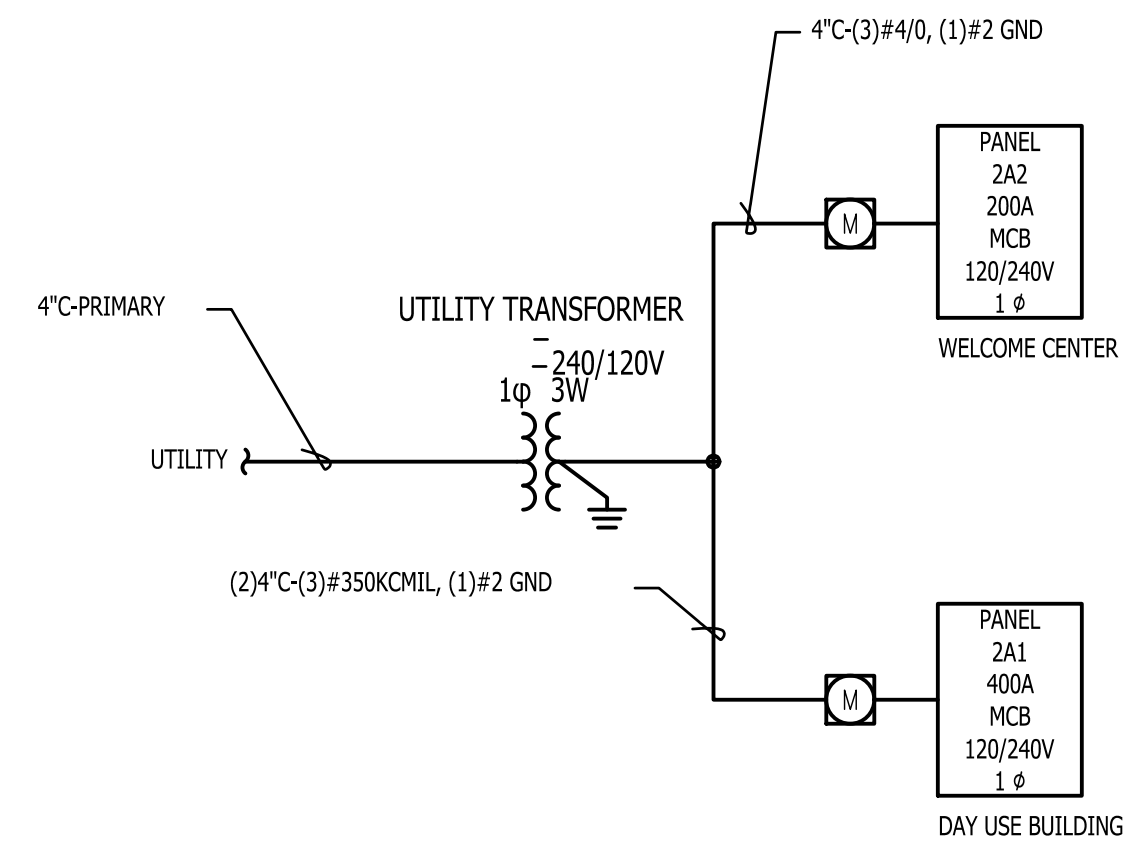
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Lynnwood Washington 98037-4772
(206) 667-0555

SHEET 53 OF 56

BID SET

MAIN LEVEL FLOOR PLAN - POWER
SCALE: AS INDICATED





1 ONE-LINE DIAGRAM
SCALE: NONE

Stantec
Name 2A1 120/240V 1 PH 3W 400A Main CB Type: Panelboard
Location DAY USE BUILDING - LOWER LEVEL Surface Mounted 22,000 AIC
Serves: Single Lugs

#	Description	Load	CB	*	A	B	CB	Load	Description	#
1	Recept KITCHEN - REFRIG	1.00	20/1	CB	X		40/2 CB	1.00	Equip HOT WATER HEATER	2
3	Recept KITCHEN	1.00	20/1	CB	X			1.00	-----HOT WATER HEATER	4
5	Recept KITCHEN	1.00	20/1	CB	X		20/1 CB	0.36	Recept LOWER LVL BATH	6
7	Recept LOBBY	0.54	20/1	CB	X		20/1 CB	0.20	Equip LOWER LVL BATH - EF-1,2	8
9	Recept BATHROOMS	0.72	20/1	CB	X		20/1 CB	0.04	Lighting LOWER LVL EXTERIOR LTG	10
11	Recept COMMON USE - WEST SIDE	1.08	20/1	CB	X		20/1 CB	0.24	Lighting LOWER LVL LIGHTING	12
13	Recept COMMON USE - EAST SIDE	1.08	20/1	CB	X		20/1 CB	0.50	Equip FIREPLACE	14
15	Recept NORTH EXTERIOR	0.72	20/1	CB	X		20/1 CB	1.20	Equip PROJECTOR, PROJ. SCREEN	16
17	Mech KITCHN,BATH FANS EF-#3,4,5,6	0.50	20/1	CB	X		40/2 CB	2.00	Equip LWR LVL - HAND DRYERS	18
19	Equip COMMON - MTR PARTITION	1.66	30/1	CB	X			2.00	-----LWR LVL - HAND DRYERS	20
21	Space	0.00	0/1		X		20/1 CB	0.50	Equip LWR LVL STORAGE - EWH-4	22
23	Lighting NORTH DECK	0.09	20/1	CB	X		20/1 CB	1.00	Equip LWR LVL BATH - EWH-2,-3	24
25	Lighting COMMON USE - WEST	0.58	20/1	CB	X		20/1 CB	0.18	Recept LOWER LVL STORAGE	26
27	Lighting COMMON USE - EAST	0.55	20/1	CB	X		50/2 CB	4.32	Mech HEAT PUMP 1	28
29	Lighting ENTRYWAY, BATHROOMS	0.29	20/1	CB	X			4.32	-----HEAT PUMP 1	30
31	Lighting EXTERIOR ENTRANCE (SOUTH)	0.04	20/1	CB	X		50/2 CB	4.32	Mech HEAT PUMP 2	32
33	Recept KITCHEN	1.00	20/1	CB	X			4.32	-----HEAT PUMP 2	34
35	Recept KITCHEN	1.00	20/1	CB	X		40/2 CB	3.48	Mech HEAT PUMP 3	36
37	Equip COMMON - WEST OVRHD DOOR	1.18	20/1	CB	X			3.48	-----HEAT PUMP 3	38
39	Equip COMMON - EAST OVRHD DOOR	1.18	20/1	CB	X		20/1 CB	0.50	Equip INFO KIOSK	40
41	Recept AMPHITHEATER	0.36	20/1	CB	X		20/1 CB	0.50	Equip PAY KIOSK	42
43	Lighting ENTRYWAY LIGHT POLE	0.05	20/1	CB	X		20/2 CB	0.50	Equip LWR LVL MECH - EWH-1	44
45	Equip STORAGE - EWH-5	0.50	20/2	CB	X			0.50	-----LWR LVL MECH - EWH-1	46
47	-----STORAGE - EWH-5	0.50			X		20/2 CB	0.74	Equip LWR LVL MECH - ERV-1,-2	48
49	Equip MEETING - CF-1	1.20	20/1	CB	X			0.74	-----LWR LVL MECH - ERV-1,-2	50
51	Equip MEETING - CF-2	1.20	20/1	CB	X		20/2 CB	0.09	Equip MEETING - IHP-7,-8	52
53	Equip MEETING - IHP-1,-2,-3	0.17	20/2	CB	X			0.09	-----MEETING - IHP-7,-8	54
55	-----MEETING - IHP-1,-2,-3	0.17			X		20/1 CB	0.03	Lighting WALKWAY WEST	56
57	Equip MEETING - IHP-4,-5,-6	0.17	20/2	CB	X		20/1 CB	0.06	Lighting WALKWAY EAST, SOUTH	58
59	-----MEETING - IHP-4,-5,-6	0.17			X		0/1	0.00	Space	60

Rev: PHA PHB
Revised Ckts Marked * Existing Ckts Marked # Connected KVA 28.34 29.56
204820753
File: V:\2048\active\204820753\Design\Sched\Kopachuck St Pk.PNL
* Circuit Breaker Code
G = GFCI H = HID Rated
S = Shunt Trip C = HACR Rated
D = Switching Duty # = See Note
A = AFCI

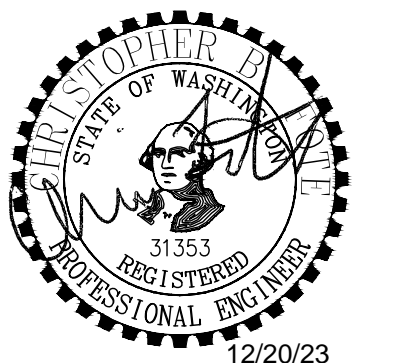
Notes:
Dem.
Load Type Conn KVA NEC Demand Factor KVA Dem. Amj NEC Feed % NEC Feed Amps
Equip 21.15 x 100% 21.15 88 x 100% 88
Lighting 1.97 x 100% 1.97 8 x 125% 10
Mech 24.74 x 100% 24.74 103 125% of Largest 112
Recept 10.04 10 KVA @ 100%, rest @ 50% 10.02 42 x 100% 42
57.90 241 Amps 57.88 241 252

2 PANEL SCHEDULES
SCALE: NONE

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

	DATE
	APP.
	INT.
	REVISIONS
	NO.

ACTION	BY	DATE
DESIGNED	CBF	NOV. 2023
DRAWN	JTW	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		



PROJECT ENGINEER

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION



KOPACHUCK
STATE PARK

DAY USE
BUILDING

PANEL SCHEDULES &
ONE-LINE

E4.02

SCALE
AS NOTED

PARKS FILE#

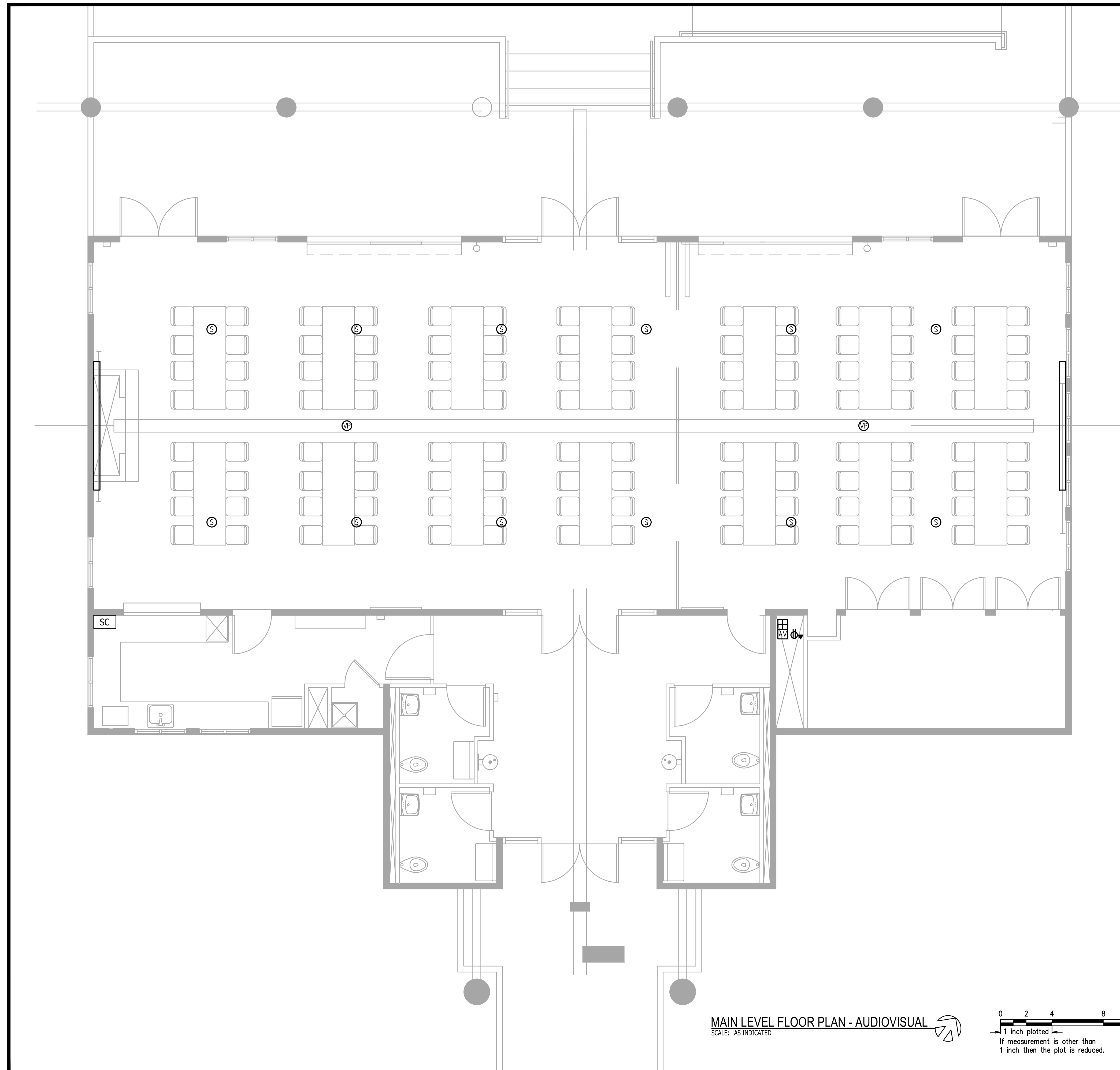


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SHEET 54 OF 56

BID SET

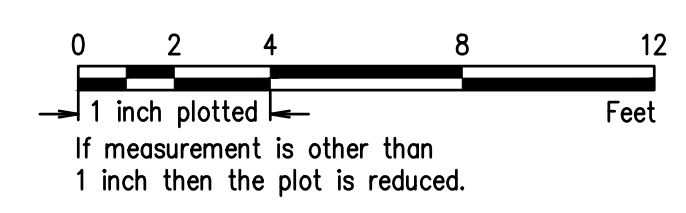
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GENERAL NOTES:
 1. CONTRACTOR TO PROVIDE AV SYSTEM COMPLETE AND READY FOR USE. INCLUDE RACEWAY, AND ALL CABLING FOR SPEAKERS AND VIDEO PROJECTOR BACK TO AV RACK/CABINET.

- LEGEND**
- ⊕ DUPLEX RECEPTACLE, 120 VOLT, 20A
 - AV AUDIOVISUAL INPUT
 - ⊞ CONTROL PANEL
 - ⊙ CEILING SPEAKER
 - ⊕P CEILING MOUNTED PROJECTOR
 - ▭ MANUAL PROJECTION SCREEN
 - ▼ DATA OUTLET
 - SC AUDIOVISUAL SYSTEM CABINET

MAIN LEVEL FLOOR PLAN - AUDIOVISUAL
 SCALE: AS INDICATED



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SHEET 55 OF 56
 BID SET

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME		
	DATE	
	APP.	
	INT.	
REVISIONS		
		NO.

ACTION	BY	DATE
DESIGNED	CBF	NOV. 2023
DRAWN	JTW	NOV. 2023
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CHECKED (HDQTS.)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

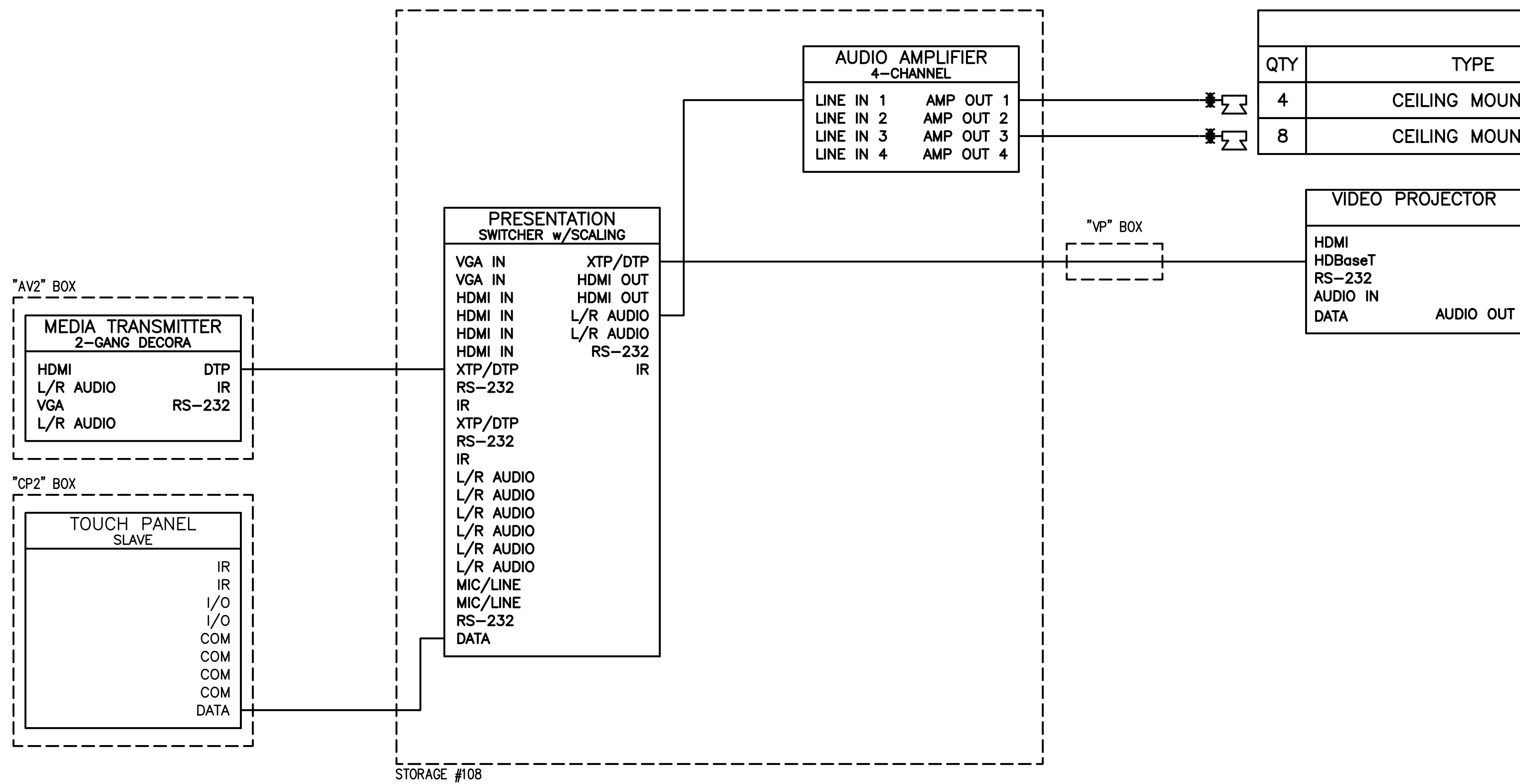
DAY USE BUILDING

MAIN LEVEL FLOOR PLAN - AUDIOVISUAL

TA1.01

SCALE: **AS NOTED**

PARKS FILE#



SPEAKER LEGEND				
QTY	TYPE	TAP	LOCATION	ZONE
4	CEILING MOUNTED	5W	MEETING ROOM #1	1
8	CEILING MOUNTED	5W	MEETING ROOM #2	2

VIDEO/PROJECTION SYSTEMS

ITEM	MANUFACTURER	MODEL	DESCRIPTION	QTY	NOTE
V1	Epson	Pro G7400	5500 Lumen WUXGA Projector with Standard	1	
V2	Chief	RPM AU	Universal Locking Project Mount	1	
V3	Extron	IN1604 HD	Four Input Scaler w/HDMI Output	1	
V4	Extron	DTP T UW/P 4k 232 D	HDMI & VGA Decora Wall Plate 4K TX	1	
V5	Extron	DTP HDMI 4k 230 Rx	HDMI 4k over Cat6 Receiver	0	

AUDIO SYSTEMS

ITEM	MANUFACTURER	MODEL	DESCRIPTION	QTY	NOTE
A1	Extron	MPA 601	60w, 70v Amplifier, Plenum Rated (Energy Star)	1	
A2	JBL	Control 26CT	70v Ceiling Speaker System	6	

CONTROL SYSTEMS

ITEM	MANUFACTURER	MODEL	DESCRIPTION	QTY	NOTE
C1	MLC 52 VC RS	MPA 601	60-745-12 Media Link Wall Keypad Controller	1	

MISCELLANEOUS SYSTEMS

ITEM	MANUFACTURER	MODEL	DESCRIPTION	QTY	NOTE
M1	Middle Atlantic	Slim 5-14	14 RU Equipment Rack	1	

EQUIPMENT LIST

DATE	APP.	INT.	REVISIONS	NO.

ACTION	BY	DATE
DESIGNED	CBF	NOV. 2023
DRAWN	JTW	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		



PROJECT ENGINEER

WASHINGTON
STATE
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RECREATION
COMMISSION



KOPACHUCK
STATE PARK

DAY USE
BUILDING

AUDIOVISUAL
SINGLELINES

TA1.02

SCALE
AS NOTED

PARKS FILE#



3400 188th Street SW Suite 285
Lynnwood Washington 98037-4772
(206) 667-0555

SHEET 56 OF 56
BID SET

WASHINGTON STATE PARKS & RECREATION COMMISSION

KEN BOUNDS, CHAIR

SOPHIA DANENBERG

LAURIE CONNELLY

MICHAEL LATIMER

SCOTT MERRIMAN

ALI RAAD

HOLLY WILLIAMS

DIANA DUPUIS, DIRECTOR



APPROVED FOR CONSTRUCTION

[Signature] 09 Feb 2024
 REGION MANAGER date
Kyle Murphy 2/14/2024
 CAPITAL PROGRAM MANAGER date

KOPACHUCK STATE PARK
 DAY USE DEVELOPMENT
VOLUME 3 of 3
 WELCOME CENTER DRAWINGS

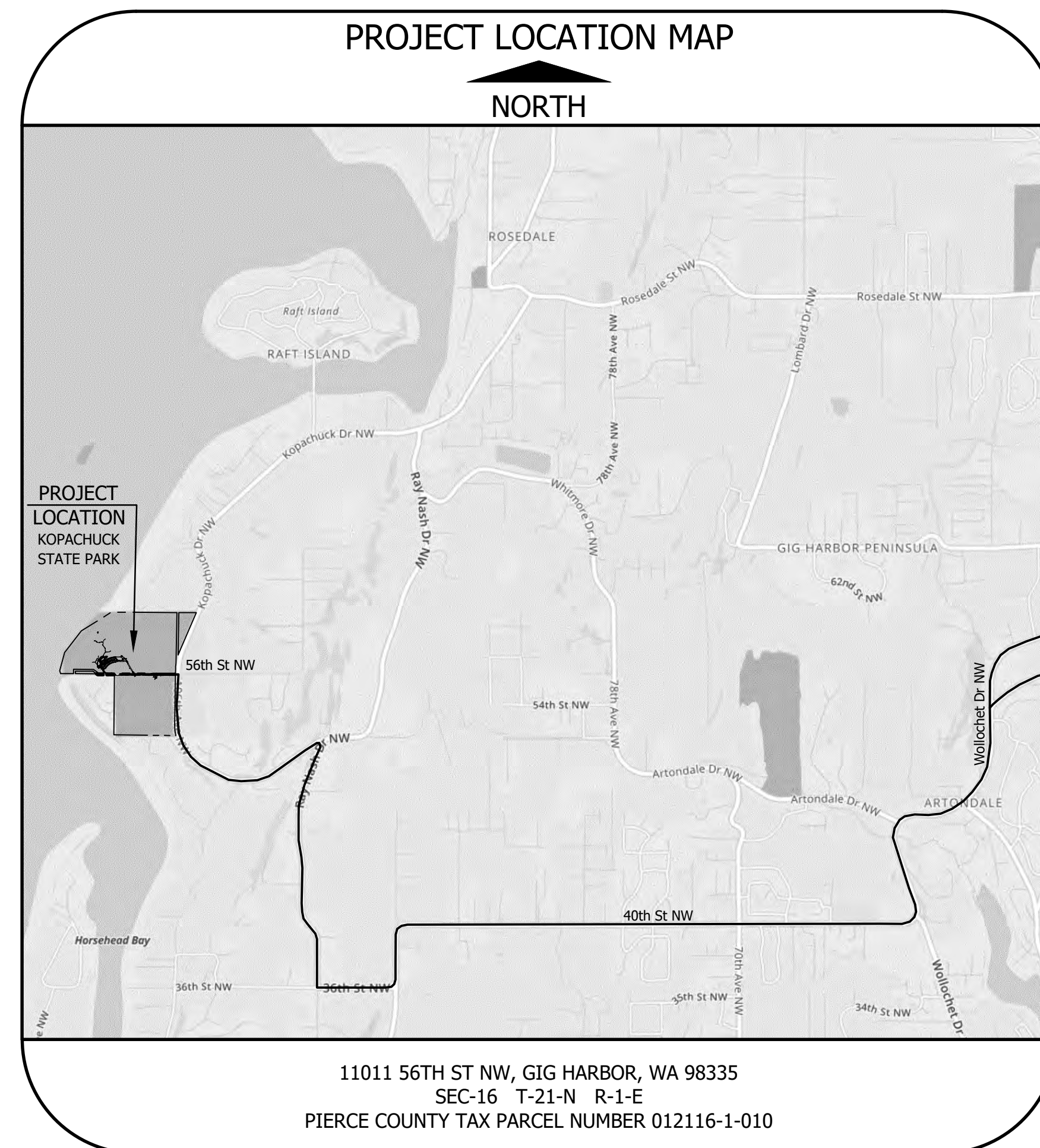
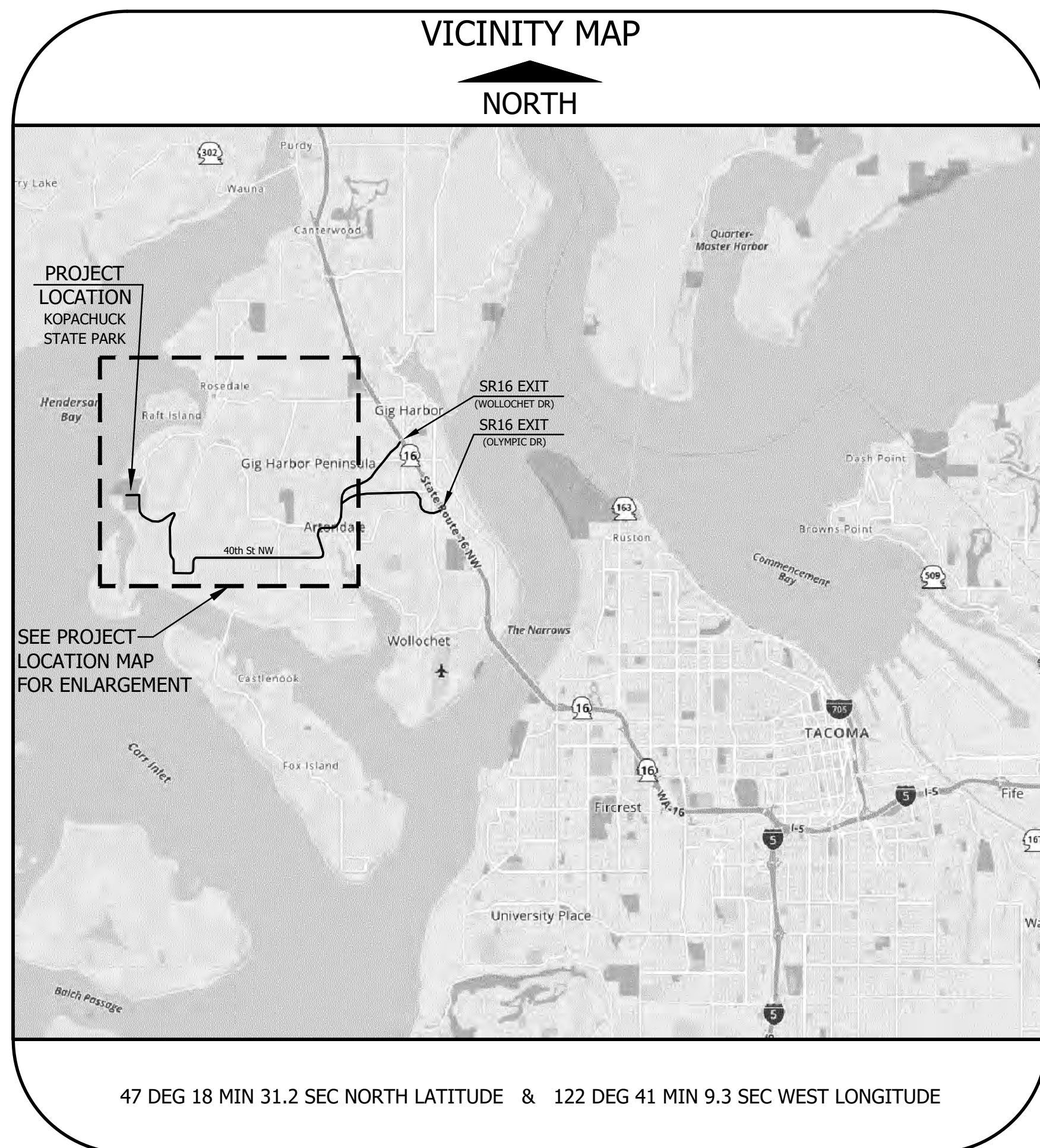
Area Manager: OLYVIA BUDAY

KOPACHUCK STATE PARK DAY USE DEVELOPMENT (VOLUME 3 OF 3)

DRAWING SHEET INDEX - WELCOME CENTER DRAWINGS VOLUME 3 ONLY

SHEET	DWG	DRAWING SHEET DESCRIPTION	SHEET	DWG	DRAWING SHEET DESCRIPTION
1	G0.01	ARCHITECTURAL: COVER SHEET	31	M0.1	MECHANICAL: MECHANICAL LEGEND & NOTES
2	G0.02	SITE PLAN	32	M0.2	MECHANICAL SCHEDULES
3	A2.0	FLOOR PLAN	33	M1.0	HVAC PLAN
4	A2.1	REFLECTED CEILING PLAN			
5	A2.2	ROOF PLAN	34	P0.1	PLUMBING LEGEND & NOTES
6	A2.3	ENLARGED BATHROOM PLAN, ELEVATIONS & MOUNTING HEIGHTS	35	P0.2	SCHEDULES & DETAILS
7	A3.0	EXTERIOR ELEVATIONS	36	P1.0	PLUMBING PLAN
8	A3.1	EXTERIOR ELEVATIONS			
9	A4.0	BUILDING SECTIONS	37	E0.00	ELECTRICAL: SYMBOLS AND ABBREVIATIONS
10	A5.0	INTERIOR ELEVATIONS	38	E2.11	FLOOR PLAN - LIGHTING
11	A5.1	INTERIOR ELEVATIONS	39	9E3.11	FLOOR PLAN - POWER
12	A6.0	DOOR SCHEDULE, ROOM FINISH SCHEDULE & WINDOW TYPES, DOOR SIGNAGE DETAILS	40	E4.03	PANEL SCHEDULES & ONE LINE DETAILS
13	A6.1				
14	S0.01	STRUCTURAL: GENERAL NOTES			
15	S0.02	GENERAL NOTES			
16	S0.03	GENERAL NOTES			
17	S0.04	GENERAL NOTES			
18	S0.05	GENERAL NOTES			
19	S2.00	FOUNDATION PLAN			
20	S2.20	ROOF FRAMING PLAN			
21	S3.01	FOUNDATION DETAILS			
22	S3.02	FOUNDATION DETAILS			
23	S3.03	FOUNDATION DETAILS			
24	S4.01	FRAMING DETAILS			
25	S4.02	FRAMING DETAILS			
26	S4.03	FRAMING DETAILS			
27	S4.04	FRAMING DETAILS			
28	S4.05	ROOF FRAMING DETAILS			
29	S4.08	ROOF FRAMING DETAILS			
30	S5.04	TRUSS ELEVATION AND DETAILS			

***NOTE:** THE ABOVE DRAWING SHEET INDEX PERTAINS TO THE WELCOME CENTER WORK FOR THIS PROJECT ONLY. THE SITE WORK (VOLUME 1) AND DAY USE BUILDING WORK (VOLUME 2) ARE SHOWN INDIVIDUALLY WITHIN SEPARATE DRAWING VOLUMES. SEE EACH OF THOSE INDIVIDUAL DRAWING VOLUMES FOR THE SHEET INDEXES PERTAINING TO WORK WITHIN THOSE VOLUMES.

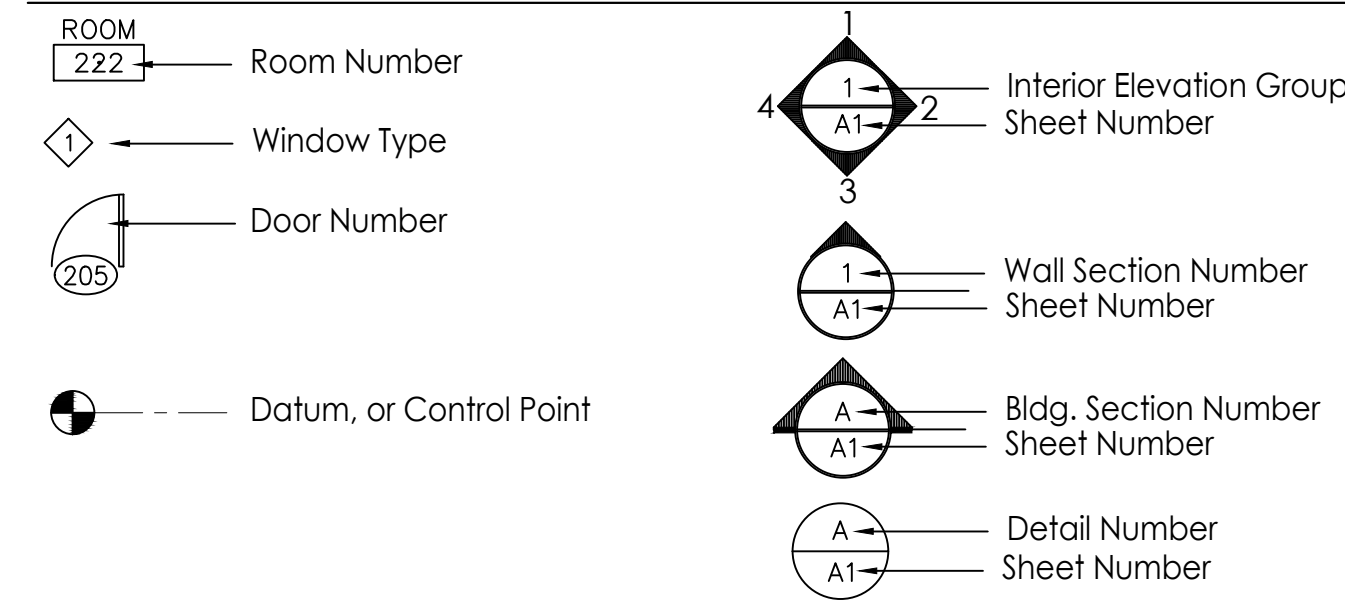


AUSTINCINA
 architects p.s.
 Architect of Record:
 WP Architecture
 Bill Parretta, P: 253.691.2758
 E: parretta@comcast.net

SHEET 1 OF 40
 BID SET

G0.01

SYMBOLS



GENERAL NOTES

1. Product specifications incorporated throughout Construction Documents.
2. Install materials/products per manufacturer's recommendations and specifications.
3. All work shall be performed in strict accordance to the Architect's construction documents.
4. Do not scale drawings.
5. All work shall be performed in strict conformance with all governing building codes and regulations.
6. The Contractor shall be responsible for all work that has been performed which does not meet these codes and regulations.
7. The Contractor shall verify dimensions denoted on the construction documents as "field verify" on site prior to commencement of construction.
8. The construction work shall be limited to the immediate area in which the work is being performed.
9. The Contractor shall be responsible for the cleaning of all the debris and dust throughout the site which is a result of this construction project.
10. The Contractor shall be responsible for the removal and disposal of all debris for the site. All costs for the removal of construction debris shall be the sole responsibility of the Contractor.

PROJECT DATA

SITE PROJECT:
KOPACHUCK STATE PARK
11011 56TH ST NW
GIG HARBOR,
WA, 98335

TAX PARCEL NUMBER:
0121161010

ZONING:
PARK & RECREATION

JURISDICTION:
UNINCORPORATED PIERCE COUNTY

BUILDING CODE:
2018 EDITION, INTERNATIONAL BUILDING CODE &
WAC 51-50

OCCUPANCY CLASSIFICATION:
B

CONSTRUCTION TYPE:
TYPE V-B

GROSS BUILDING AREA: 676 SF

LOBBY 100 & RANGERS 101: 302 SF
RESTROOM 102: 47 SF
STORAGE 103: 49.5 SF
WORK ROOM 104: 208.5 SF
TOTAL USABLE AREA SF: 607 SF

PROJECT TEAM

ARCHITECT
AustinCina Architects, P.S.
Architect of Record:
WP Architecture
253-691-2758
Contact: Bill Parretta

ELECTRICAL ENGINEER
Stantec
4100 194TH ST SW, Suite 400
LYNWOOD, WA, 98036
chris.forte@stantec.com
Contact: Christopher Fote, P.E.

STRUCTURAL ENGINEER
PCS Structural Solutions
Pacific Plaza
1250 Pacific Ave, Suite 701
Tacoma, WA 98402
Phone 253.383.2797
JPinkard@pcs-structural.com;
Contact: Jack Pinkard, P.E.

MECHANICAL ENGINEER
Veach Consulting Engineers
12202 Pacific Avenue South, Suite B
Tacoma, Washington 98444
253-274-5201
Contact: Ted Veach, P.E.

GENERAL CONTRACTOR
To Be Determined

ABBREVIATIONS

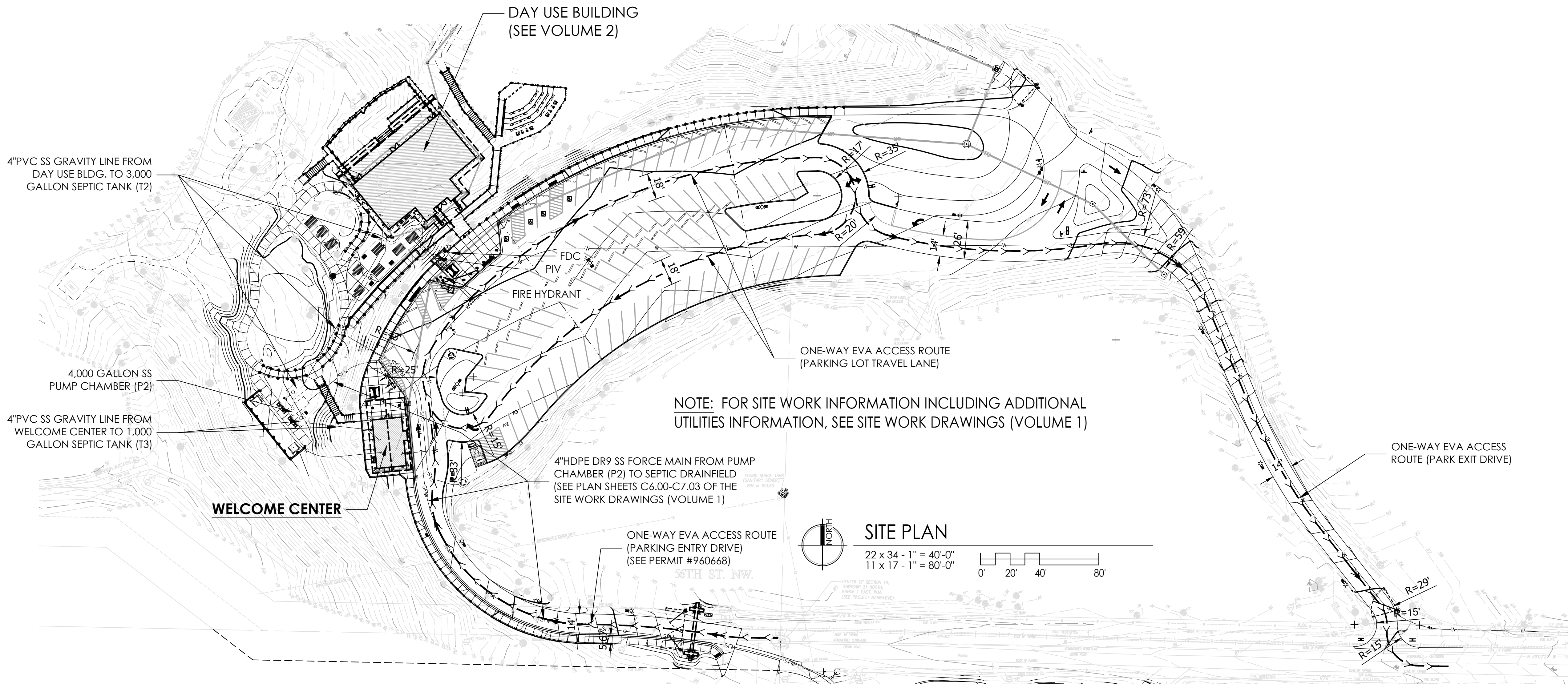
A.B.	ANCHOR BOLT	MTL.	METAL
A.C.P.	ACOUSTICAL CEILING PANEL	N.T.S.	NOT TO SCALE
AFFLR.	ABOVE FINISH FLOOR	O.C.	ON CENTER
B.S.	BACK SPLASH	O.H.	OPPOSITE HAND/OVER HANG
BM.	BEAM	O.S.B.	ORIENTED STRAND BOARD
C.J.	CONTROL/CONSTRUCTION JOINT	P.L.B.	PARA LAMINATED BEAM
C.L. or C	CENTERLINE	P.LAM.	PLASTIC LAMINATED
CONT.	CONTINUOUS	PLYWD.	PLYWOOD
CPT.	CARPET	PR.	PAIR
CRM.	CLASSROOM	PT.	PAINT
D.	DEPTH	P.T.D.	PAPER TOWEL DISPENSER
D.F.	DRINKING FOUNTAIN	R.I.	ROUGH-IN
D.O.	DEDICATED OUTLET	S & V	STAINED & VARNISHED
D.S.	DOWN SPOUT	S.C.	SOLID CORE
EX.	EXISTING	S.V.	SHEET VINYL
EXP. BOLT	EXPANSION BOLT	SHT. MTL.	SHEET METAL
F.D.	FLOOR DRAIN	SIM.	SIMILAR
F.E.	FIRE EXTINGUISHER	T & G	TONGUE & GROOVE
FIN. FLR.	FINISH FLOOR	T.O.B.	TOP OF BEAM
F.O.I.C.	FURNISHED BY OWNER INSTALLED BY CONTRACTOR	T.O.C.	TOP OF CONCRETE
F.O.P.W	FACE OF PLYWOOD	T.O.P.	TOP OF PLATE
G.LAM.	GLUE LAMINATED	T.O.W.	TOP OF WALL
GA.	GUAGE OR GAGE	TRT.	TREATED
GALV.	GALVANIZED	T.T.D.	TOILET TISSUE DISPENSER
H.	HEIGHT	TYP.	TYPICAL
H.C.	HOLLOW CORE/HANDICAP	U.N.O.	UNLESS NOTED OTHERWISE
H.M.	HOLLOW METAL	W.	WIDE
HDR.	HEADER	W.P.	WATER PROOF
L.	LENGTH	WD.	WOOD

PLUMBING CALCULATION

ROOM #	ROOM NAME	AREA	OCCUPANCY	CHAP. 10 OCC. LOAD FACTORS	OCC. LOAD
100	LOBBY	198	B	150	2
101	RANGERS	104	B	150	1
102	ADA TOILET	47	-	-	-
103	STORAGE	49.5	S	300	1
104	WORK ROOM	208.5	B	150	3
					7 occupants

NOTE:
PROVIDING ONE TOILET PER SECTION 2902.2

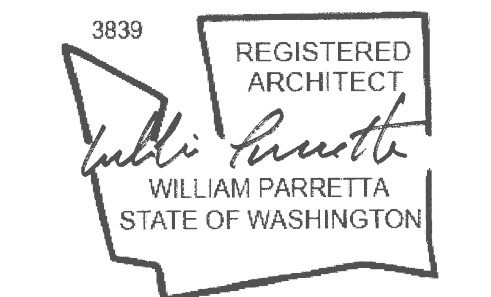
EXCEPTION #2: "SEPARATE FACILITIES SHALL NOT BE REQUIRED IN STRUCTURES WITH A TOTAL OCCUPANT LOAD OF 15 OR LESS"



CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	BP	NOV. 2023
DRAWN	NW	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

WELCOME CENTER

SITE PLAN

G0.02

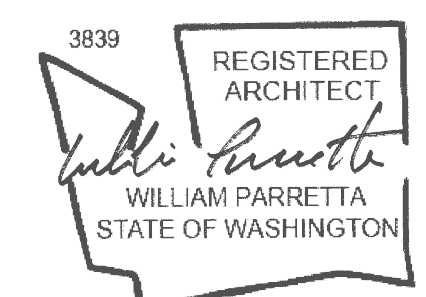
AUSTINCINA architects p.s.
Architect of Record:
WP Architecture
Bill Parretta, P: 253.691.2758
E: parretta@comcast.net

SCALE: AS NOTED

SHEET 2 OF 40
BID SET

PARKS FILE#

ACTION	BY	DATE
DESIGNED	BP	NOV. 2023
DRAWN	NW	NOV. 2023
CHECKED (FIELD)		
CHECKED (H.DOTS.)		



PROJECT ENGINEER

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION



KOPACHUCK STATE PARK

WELCOME CENTER

FLOOR PLAN

A2.0

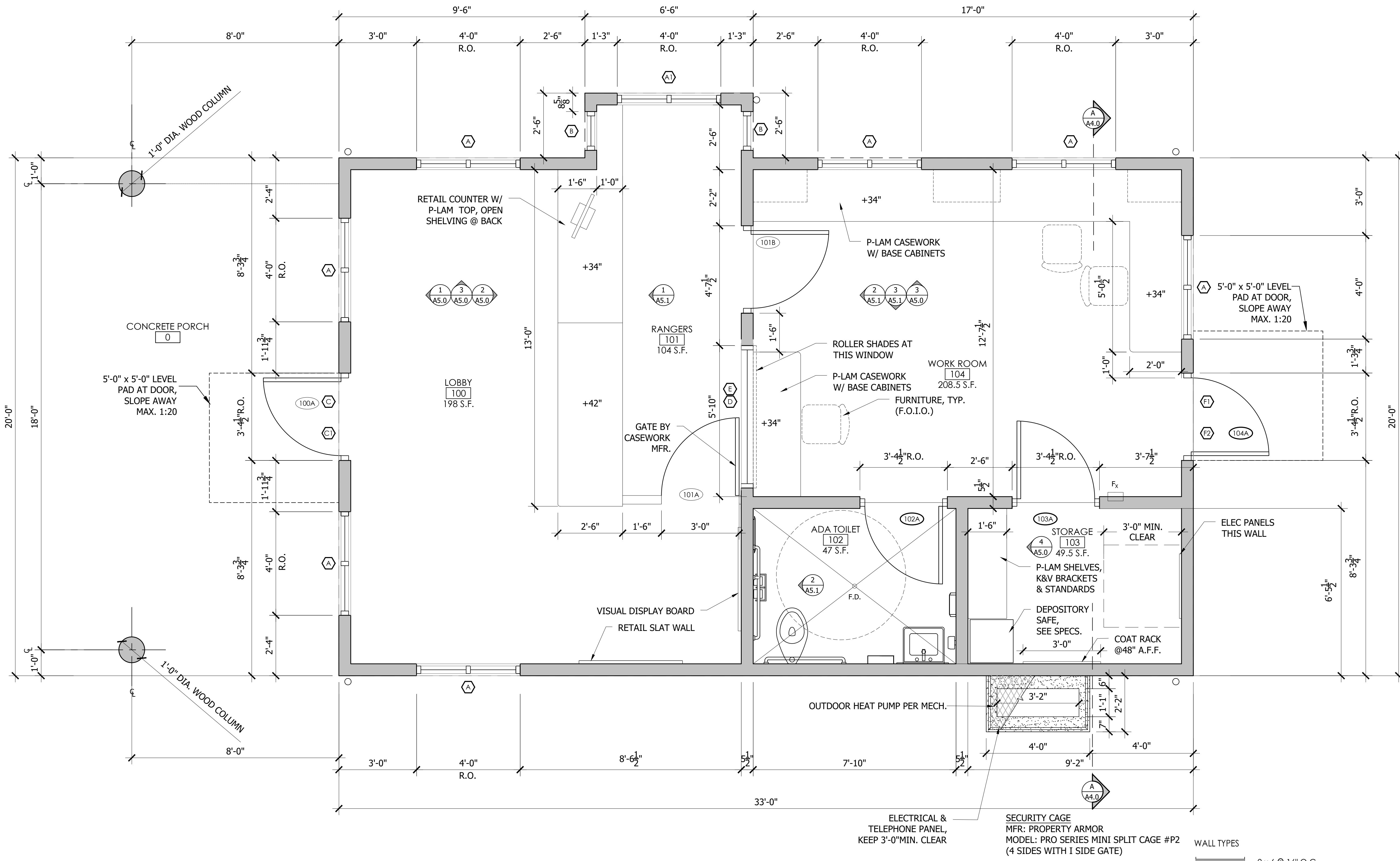
SCALE

AS NOTED

AUSTINCINA
architects p.s.
Architect of Record:
WP Architecture
Bill Parretta, P: 253.691.2758
E: parretta@comcast.net

SHEET 3 OF 40

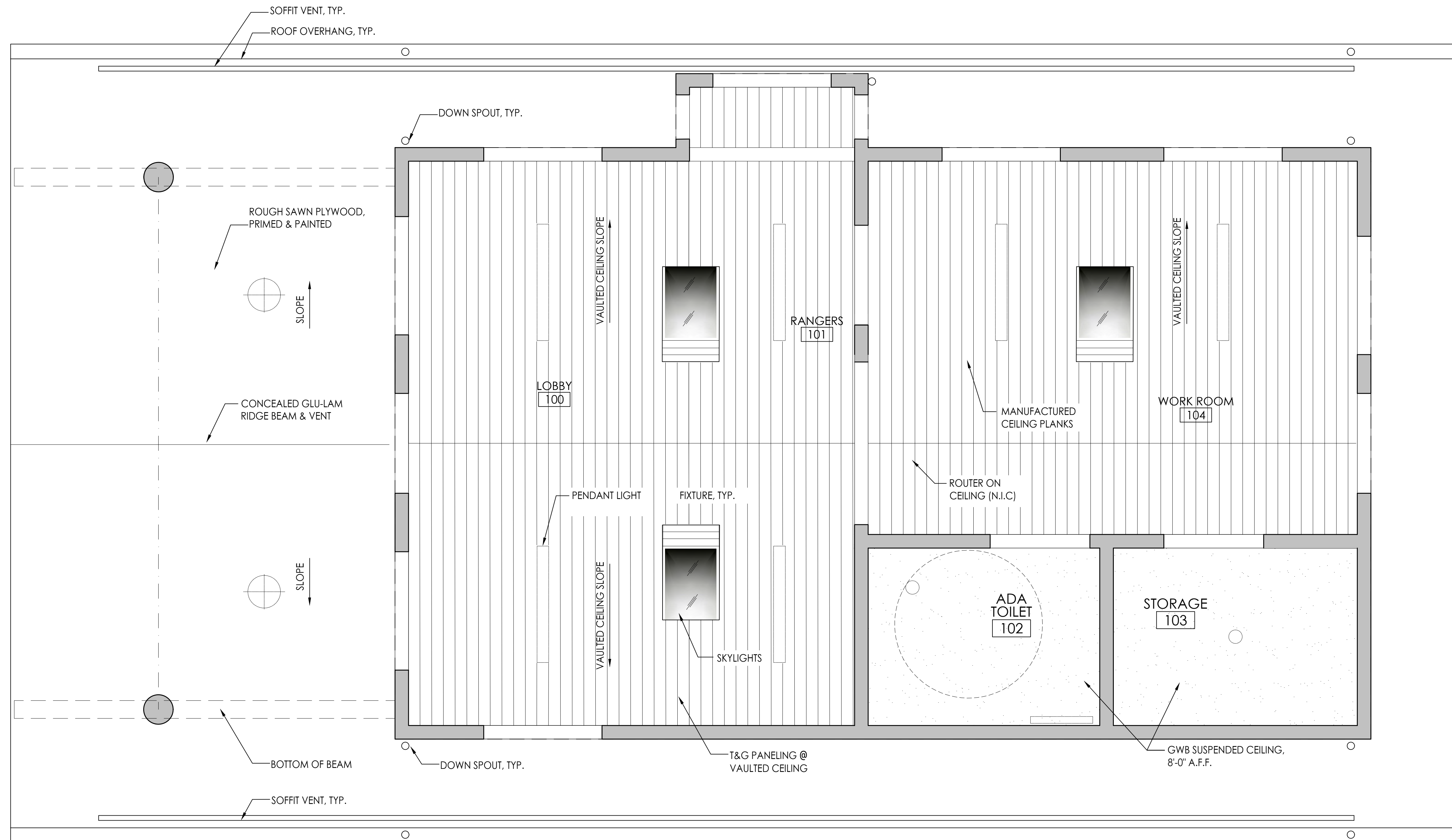
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WELCOME CENTER FLOOR PLAN

22 x 34 - 1/2" = 1'-0"
11 x 17 - 1/4" = 1'-0"

WALL TYPES
 [Thick line] 2 x 6 @ 16" O.C.
 [Thin line] 2 x 4 @ 16" O.C.



NOTE: SEE ELECTRICAL PLANS FOR LIGHTING FIXTURES AND DAYLIGHT ZONES. SEE MECHANICAL FOR EXHAUST.

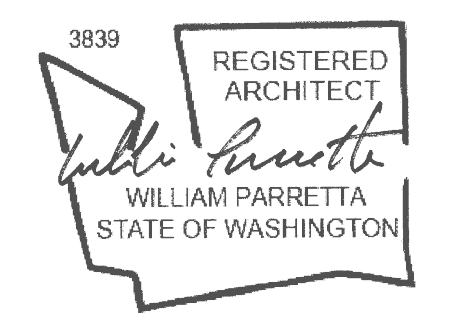


WELCOME CENTER REFLECTED CEILING PLAN

22 x 34 - 1/2" = 1'-0"
11 x 17 - 1/4" = 1'-0"

CAD NO.	
DATE	INT. APP.
REVISIONS	
NO.	

ACTION	BY	DATE
DESIGNED	BP	NOV. 2023
DRAWN	NW	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

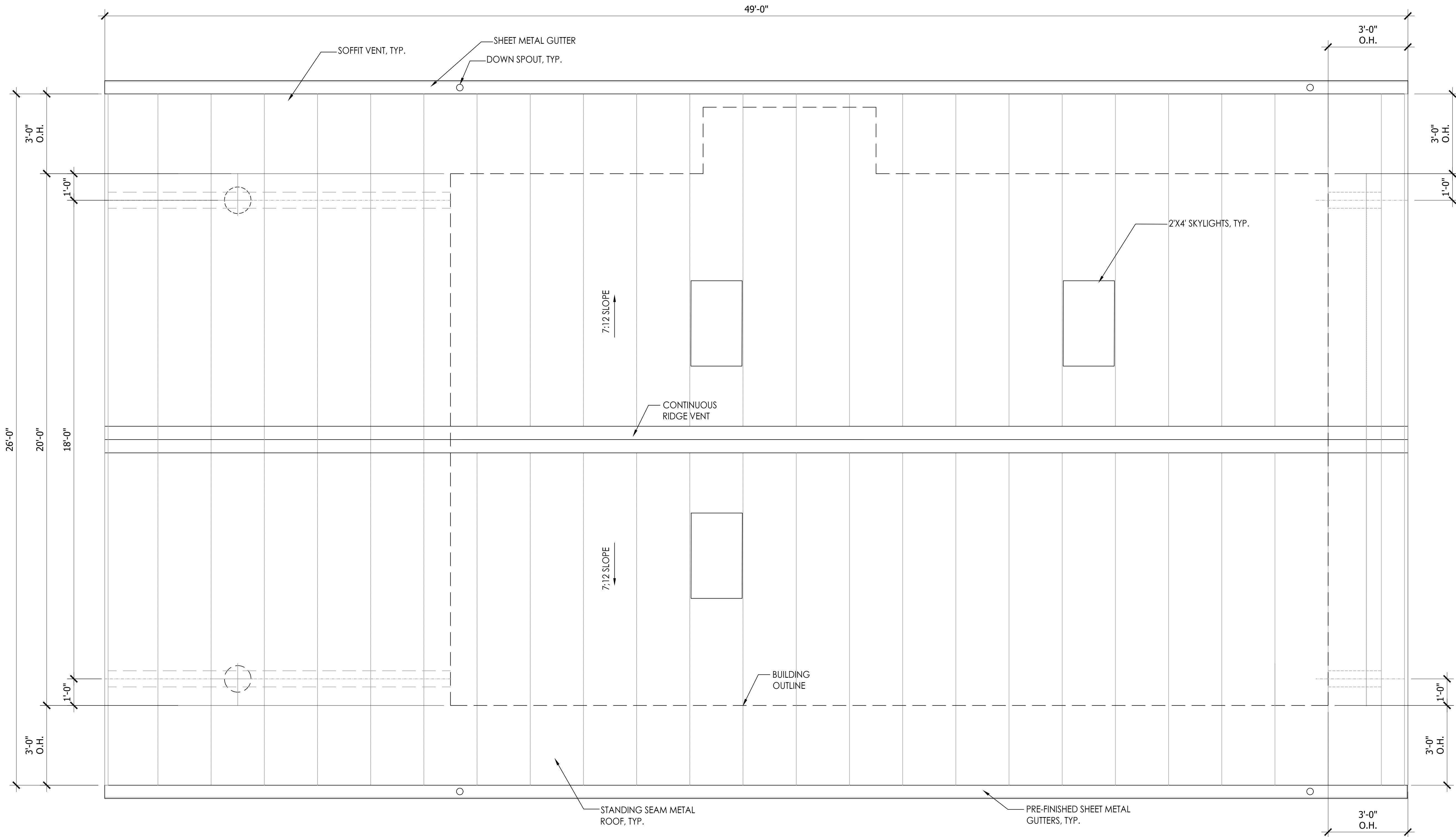
WELCOME CENTER

REFLECTED CEILING PLAN

A2.1

AUSTINCINA architects p.s.
Architect of Record: WP Architecture
Bill Parretta, P: 253.691.2758
E: parretta@comcast.net

SCALE AS NOTED

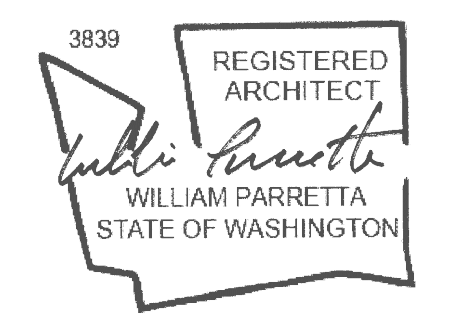


WELCOME CENTER ROOF PLAN

22 x 34 - 1/2" = 1'-0"
 11 x 17 - 1/4" = 1'-0"

CAD NO.	
	DATE
	INT. APP.
	REVISIONS
	NO.

ACTION	BY	DATE
DESIGNED	BP	NOV. 2023
DRAWN	NW	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDOTS)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

WELCOME CENTER

ROOF PLAN
A2.2

SCALE

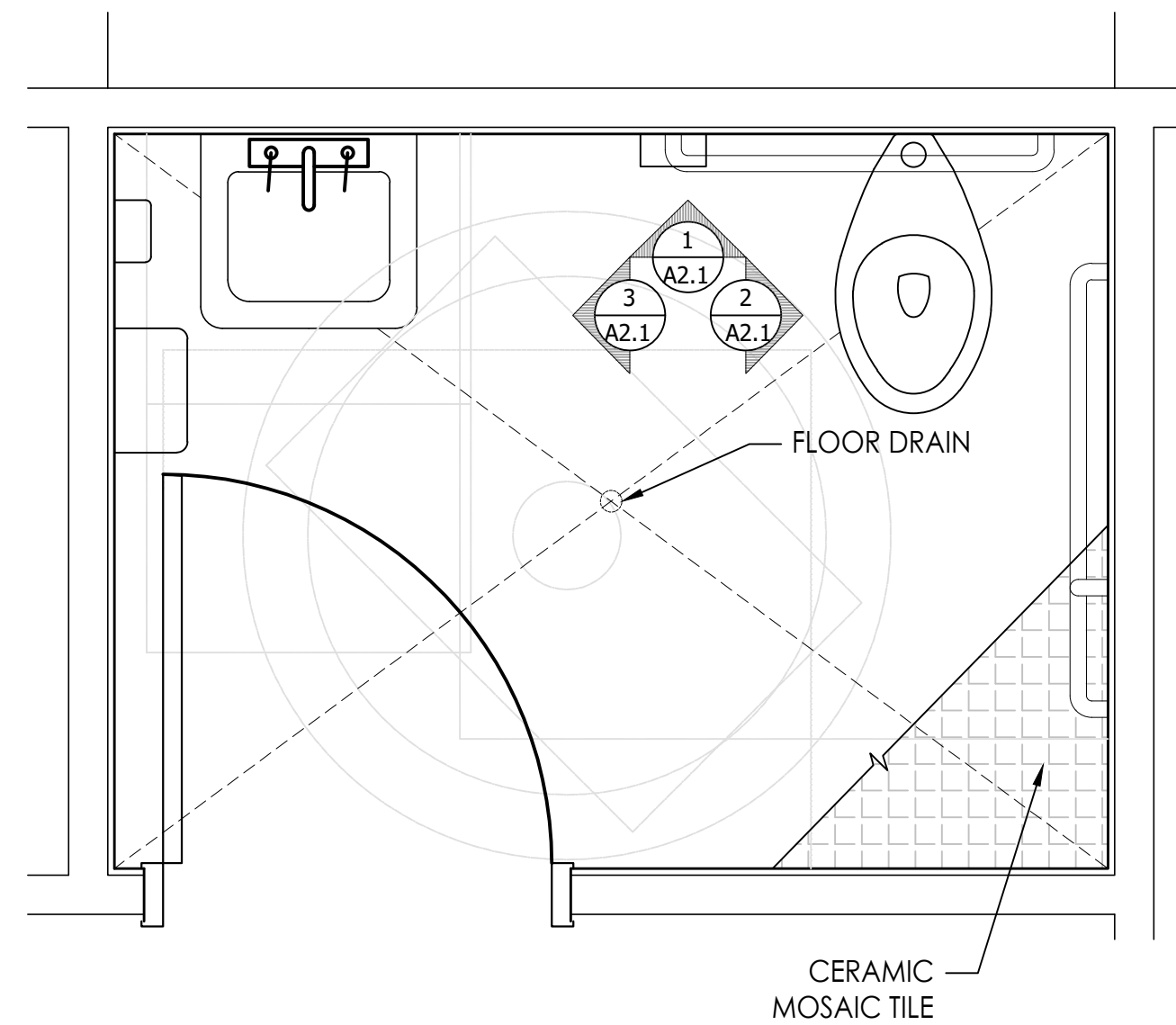
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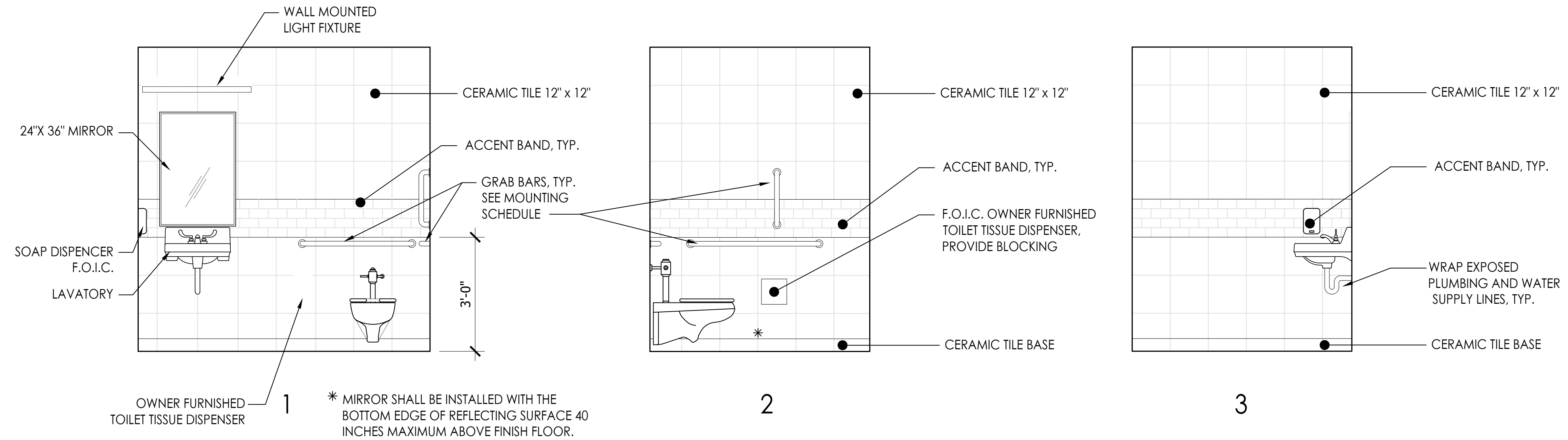
AUSTINCINA
 architects p.s.
 Architect of Record:
 WP Architecture
 Bill Parretta, P: 253.691.2758
 E: parretta@comcast.net

SHEET 5 OF 40

BID SET PARKS FILE#

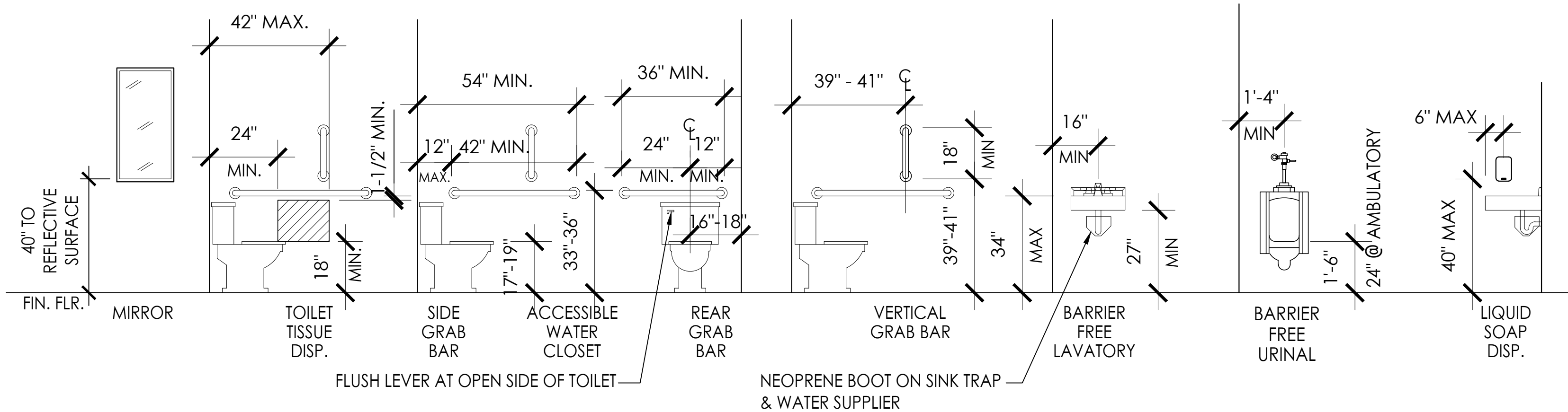


A TYPICAL ADA TOILET PLAN VIEW
22x34 - 1/2" = 1'-0"
11x17 - 1/4" = 1'-0"



B TYPICAL ADA TOILET ELEVATIONS
22x34 - 1/2" = 1'-0"
11x17 - 1/4" = 1'-0"

* PROVIDE BLOCKING, TYP. FOR ALL WALL MOUNT ACCESSORIES



C TYPICAL MOUNTING HEIGHTS
22x34 - 3/8" = 1'-0"
11x17 - 3/16" = 1'-0"

BUILDING AIR LEAKAGE TEST NOTES:

THE COMPLETED BUILDING SHALL BE TESTED AND THE AIR LEAKAGE RATE OF THE BUILDING ENVELOPE SHALL NOT EXCEED 0.25 cfm/ft² AT A PRESSURE DIFFERENTIAL OF 0.3 INCHES WATER GAUGE (2.0 L/s x m² AT 75 Pa) AT THE UPPER 95 PERCENT CONFIDENCE INTERVAL IN ACCORDANCE WITH ASTM E 779 OR AN EQUIVALENT METHOD APPROVED BY THE CODE OFFICIAL. A REPORT THAT INCLUDES THE TEST SURFACE AREA, FLOOR AREA, AIR BY VOLUME, STORIES ABOVE GRADE, AND LEAKAGE RATES SHALL BE SUBMITTED TO THE BUILDING OWNER AND THE CODE OFFICIAL. IF THE TESTED RATE EXCEEDS THAT DEFINED HERE BY UP TO 0.15 cfm/ft², A VISUAL INSPECTION OF THE AIR BARRIER SHALL BE CONDUCTED AND ANY LEAKS NOTED SHALL BE SEALED TO THE EXTENT PRACTICABLE. AN ADDITIONAL REPORT IDENTIFYING THE CORRECTIVE ACTIONS TAKEN TO SEAL AIR LEAKS SHALL BE SUBMITTED TO THE BUILDING OWNER AND THE CODE OFFICIAL AND ANY FURTHER REQUIREMENT TO MEET THE LEAKAGE AIR RATE WILL BE WAIVED. IF THE TESTED RATE EXCEEDS 0.40 cfm/ft², CORRECTIVE ACTIONS MUST BE MADE AND THE TEST COMPLETED AGAIN. A TEST ABOVE 0.40 cfm/ft² WILL NOT BE ACCEPTED.

- TEST SHALL BE ACCOMPLISHED USING EITHER (1) BOTH PRESSURIZATION AND DEPRESSURIZATION OR (2) PRESSURIZATION ALONE, BUT NOT DEPRESSURIZATION ALONE. THE TEST RESULTS SHALL BE PLOTTED AGAINST THE CORRECT 'P' FOR PRESSURIZATION IN ACCORDANCE WITH SECTION 9.4 OF ASTM E 779.
- THE TEST PRESSURE RANGE SHALL BE FROM 25 Pa TO 80 Pa PER SECTION 8.10 OF ASTM E 779, BUT THE UPPER LIMIT SHALL NOT BE LESS THAN 50 Pa, AND THE DIFFERENCE BETWEEN THE UPPER AND LOWER LIMIT SHALL NOT BE LESS THAN 25 Pa.
- IF THE PRESSURE EXPONENT n IS LESS THAN 0.45 OR GREATER THAN 0.85 PER SECTION 9.6.4 OF ASTM E 779, THE TEST SHALL BE RERUN WITH ADDITIONAL READINGS OVER A LONGER TIME INTERVAL.

MAXIMUM BUILDING VERTICAL FENESTRATION AREA CALCULATIONS:

THE TOTAL MAXIMUM BUILDING VERTICAL FENESTRATION AREA (NOT INCLUDING OPAQUE DOORS AND OPAQUE SPANDREL PANELS) SHALL NOT EXCEED 30% OF THE TOTAL BUILDING GROSS ABOVE-GRADE WALL AREA.

NET WALL AREA		NEW VERTICAL FENESTRATION & GLAZED DOOR AREA	
EAST	314 SF	EAST	77 SF
WEST	314 SF	WEST	19 SF
SOUTH	313 SF	SOUTH	44 SF
NORTH	313 SF	NORTH	82 SF
	1,254 SF		222 SF

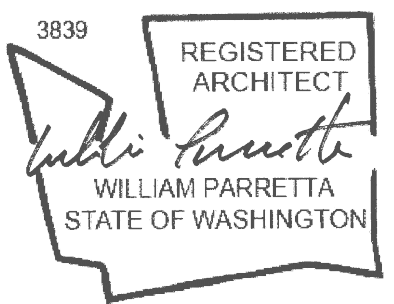
MAXIMUM AREA ALLOWABLE: 1,254 SF x 30% = 376 SF ALLOWABLE (222 SF O.K.)

AIR BARRIER CONSTRUCTION NOTES:

- THE AIR BARRIER SHALL BE CONTINUOUS FOR ALL ASSEMBLIES THAT ARE THE THERMAL ENVELOPE OF THE BUILDING AND ACROSS THE JOINTS AND ASSEMBLIES.
- AIR BARRIER JOINTS AND SEAMS SHALL BE SEALED, INCLUDING SEALING TRANSITIONS IN PLACES AND CHANGES IN MATERIALS. THE JOINTS AND SEALS SHALL BE SECURELY INSTALLED IN OR ON THE JOINT FOR ITS ENTIRE LENGTH SO AS NOT TO DISLodge, LOOSEN, OR OTHERWISE IMPAIR ITS ABILITY TO RESIST POSITIVE AND NEGATIVE PRESSURE FROM WIND, STACK EFFECT, AND MECHANICAL VENTILATION.
- PENETRATIONS OF THE AIR BARRIER SHALL BE CAULKED, GASKETED, OR OTHERWISE SEALED IN A MANNER COMPATIBLE WITH THE CONSTRUCTION MATERIALS AND LOCATION. SEALING SHALL ALLOW FOR EXPANSION, CONTRACTION, AND MECHANICAL VIBRATION. JOINTS AND SEAMS ASSOCIATED WITH PENETRATIONS SHALL BE SEALED IN THE SAME MANNER OR TAPED. SEALING MATERIALS SHALL BE SECURELY INSTALLED AROUND THE PENETRATIONS SO AS TO NOT DISLodge, LOOSEN, OR OTHERWISE IMPAIR THE PENETRATIONS ABILITY TO RESIST POSITIVE AND NEGATIVE PRESSURE FROM WIND, STACK EFFECT, AND MECHANICAL VENTILATION. SEALING OF CONCEALED FIRE SPRINKLERS, WHERE REQUIRED, SHALL BE IN A MANNER THAT IS RECOMMENDED BY THE MANUFACTURER. CAULKING OR OTHER ADHESIVE SEALANTS SHALL NOT BE USED TO FILL VOIDS BETWEEN FIRE SPRINKLER COVER PLATES AND WALLS OR CEILINGS.



ACTION	BY	DATE
DESIGNED	BP	NOV. 2023
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CHECKED (HDQTS.)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

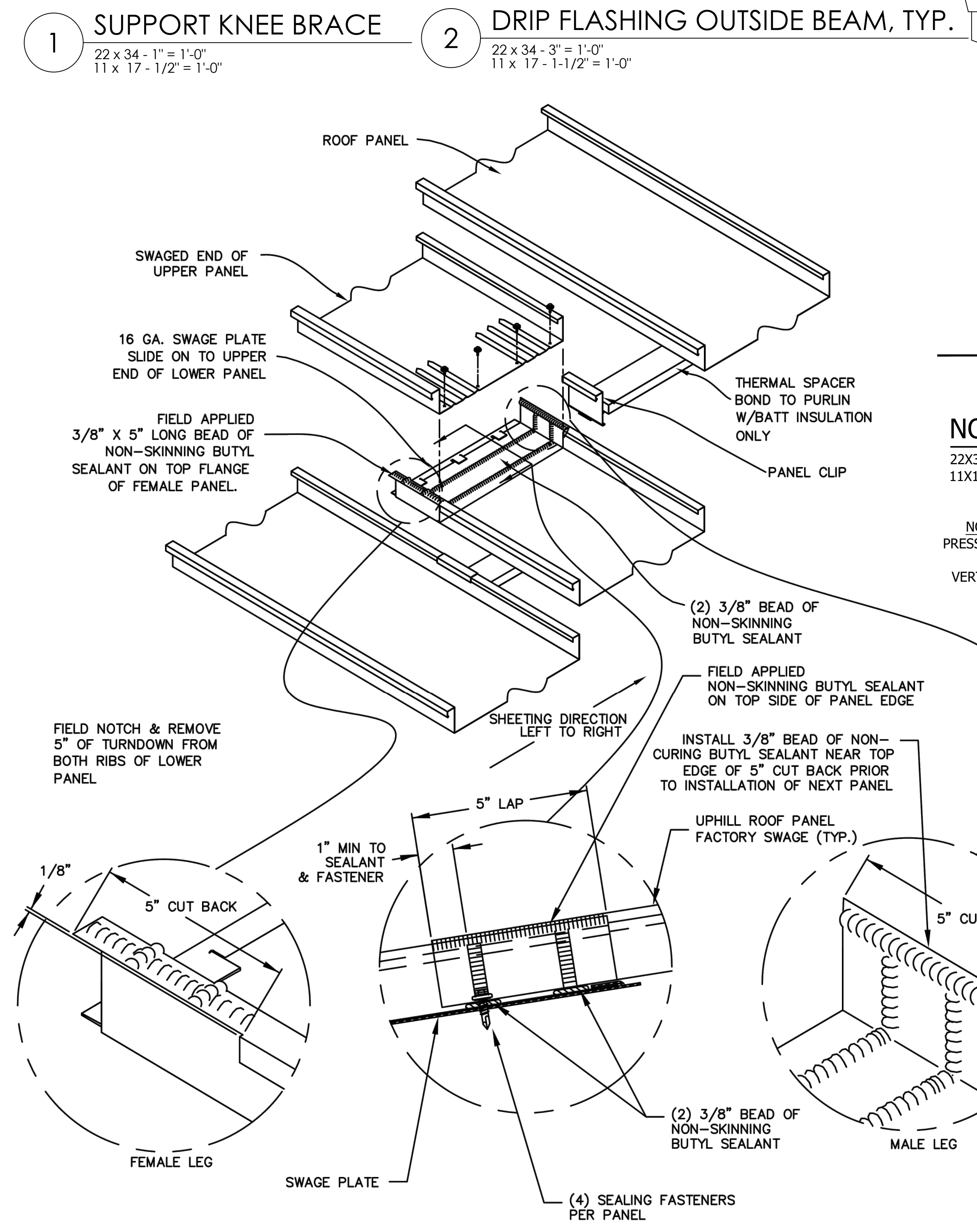
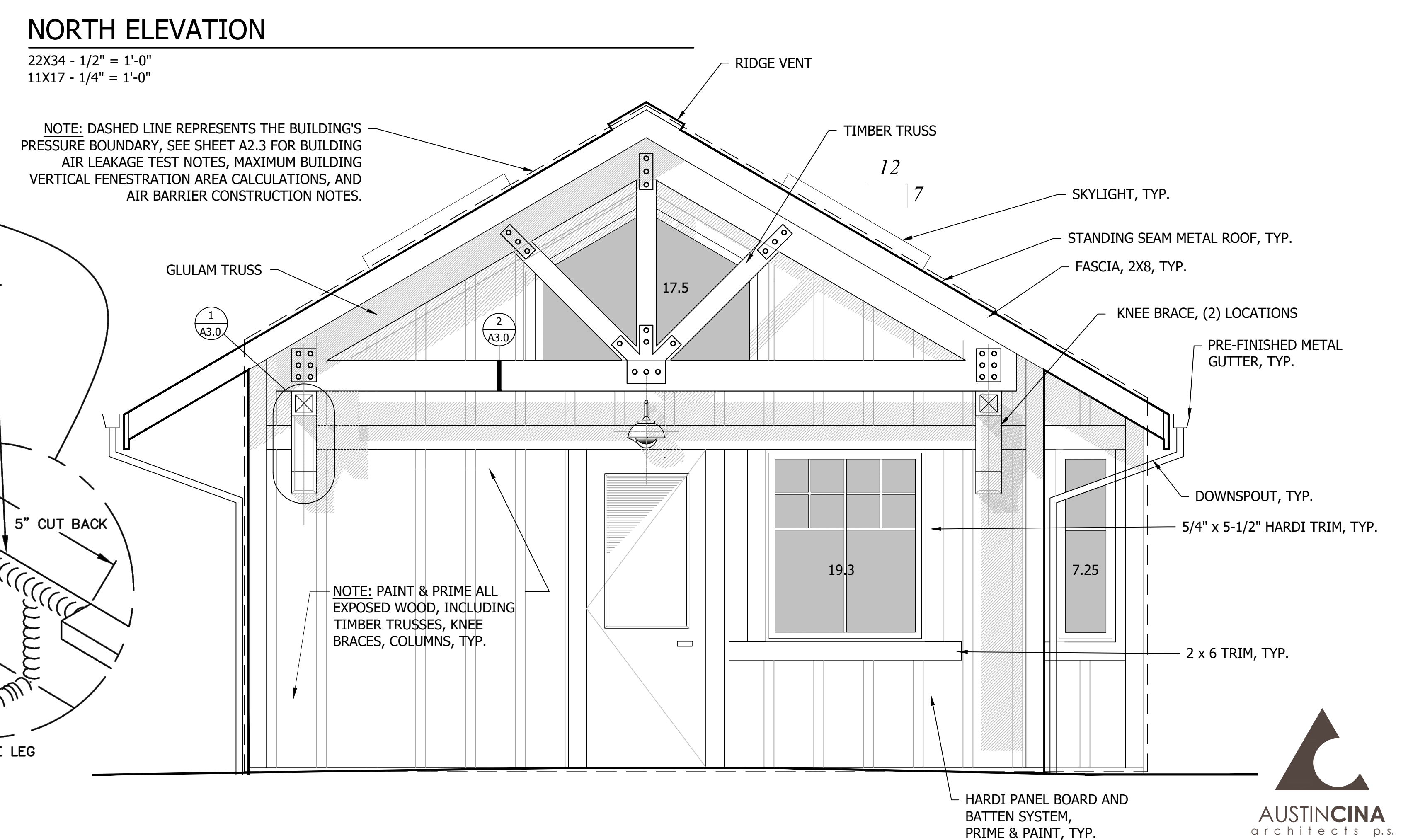
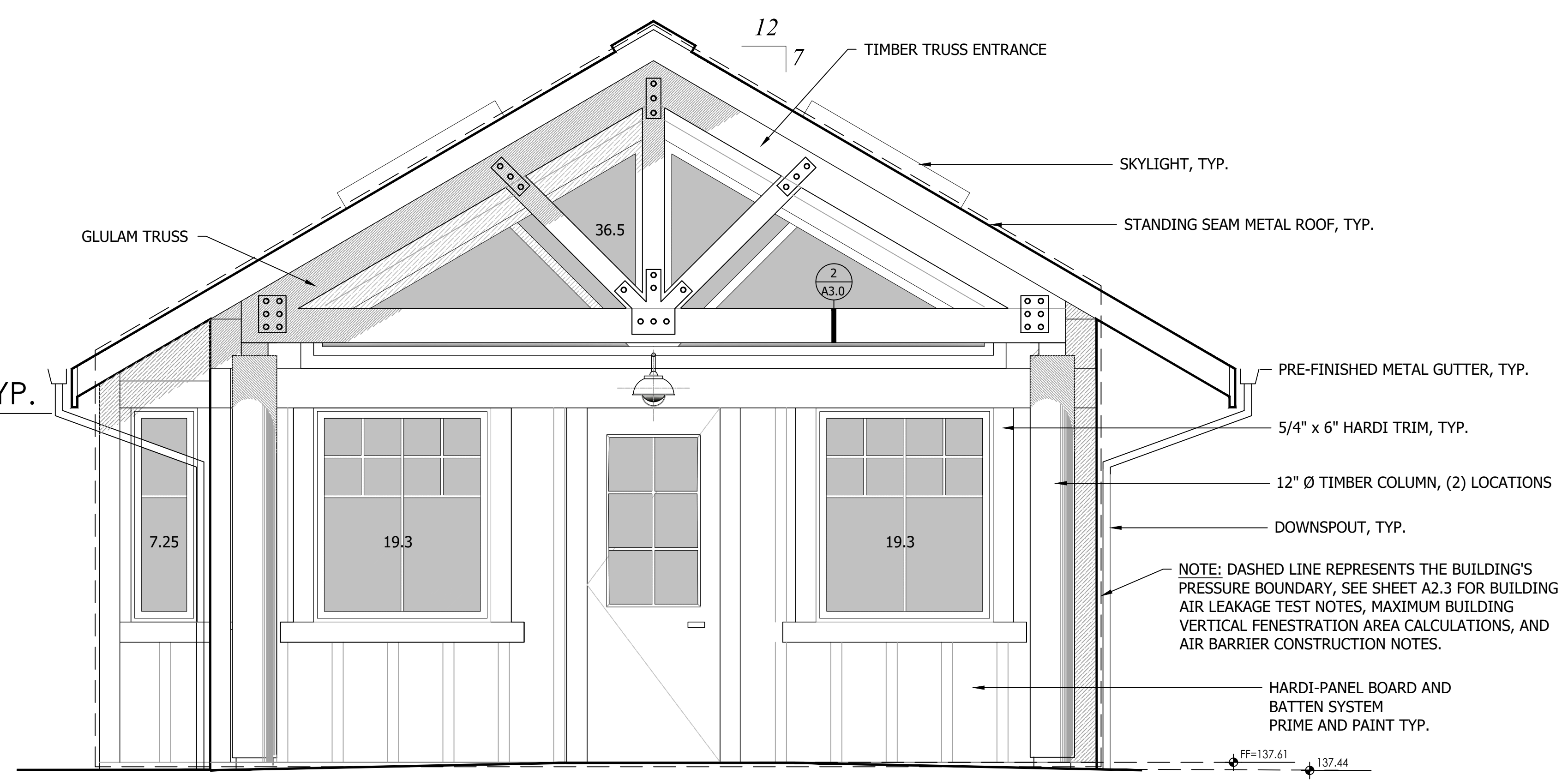
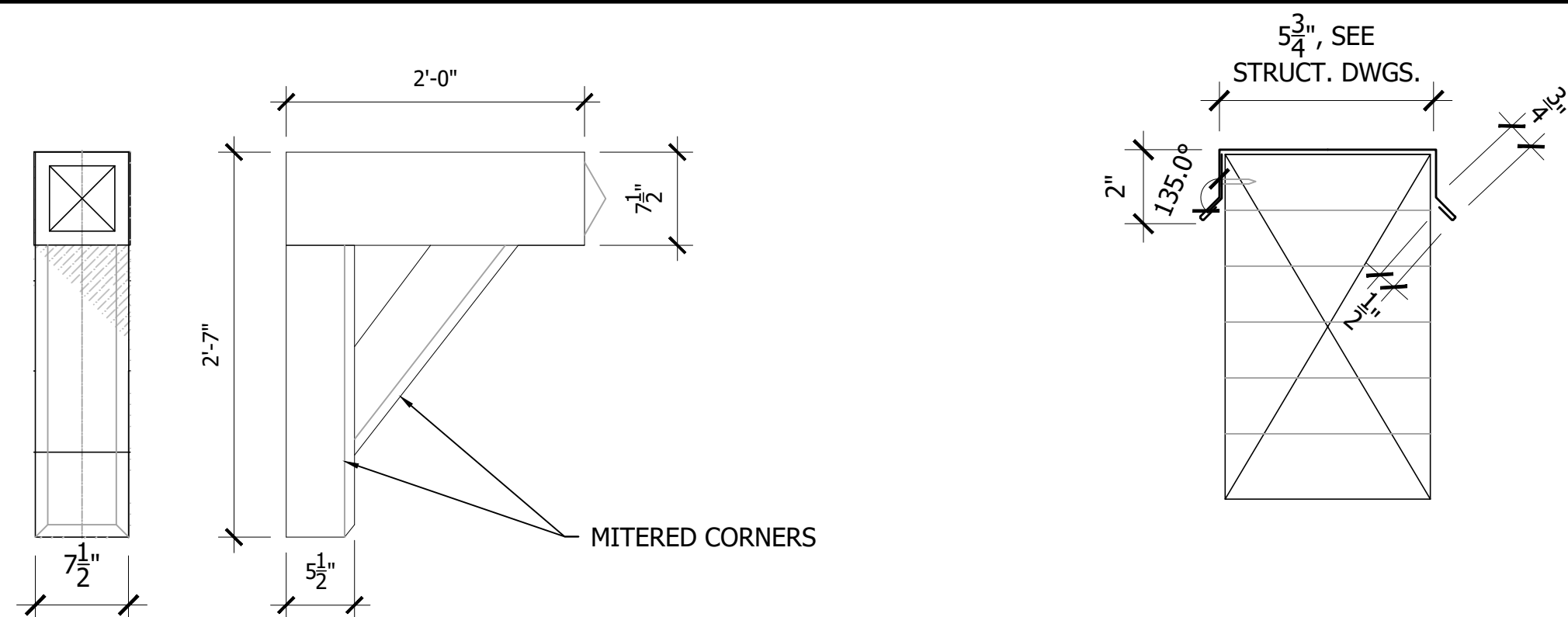
WELCOME CENTER

ENLARGED BATHROOM PLAN ELEVATIONS & MOUNTING HEIGHTS

A2.3

SCALE

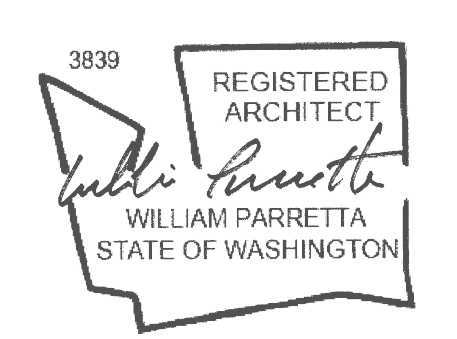
AS NOTED



CAD NO.

	DATE
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	INT.
	REVISIONS
	NO.

ACTION	BY	DATE
DESIGNED	BP	NOV. 2023
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CHECKED (HDOTS.)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

WELCOME CENTER

EXTERIOR ELEVATIONS

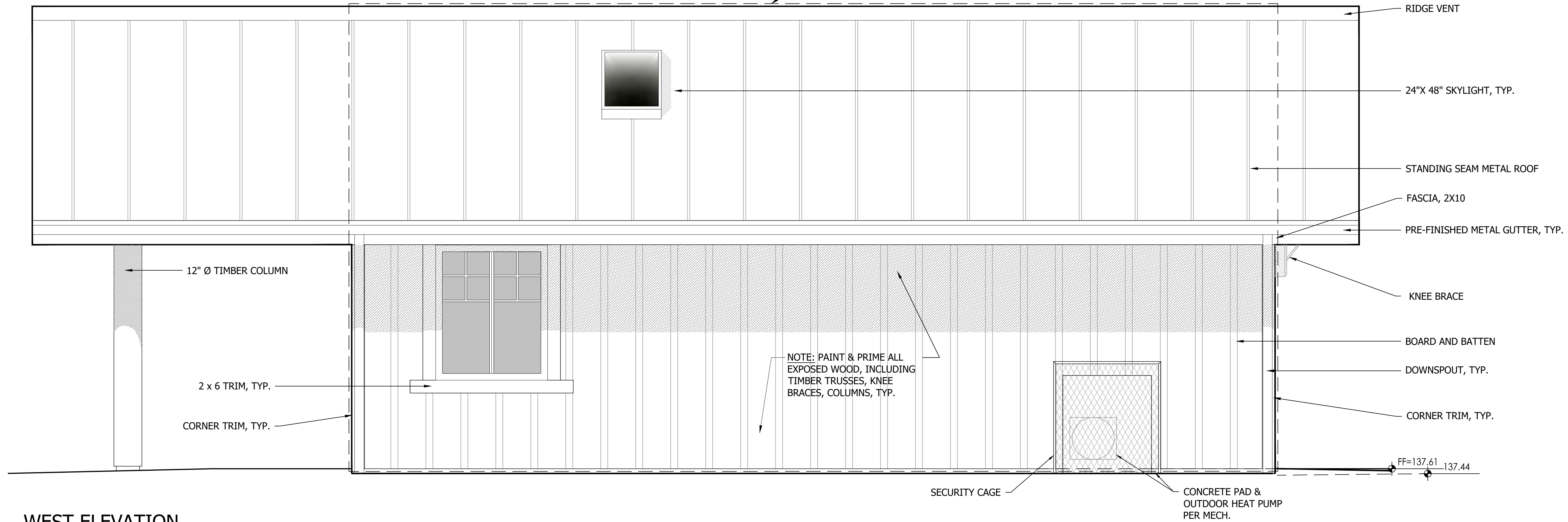
A3.0

AUSTINCINA
 architects p.s.
 Architect of Record:
 WP Architecture
 Bill Parretta, P: 253.691.2758
 E: parretta@comcast.net

SHEET 7 OF 40

SCALE AS NOTED
 BID SET PARKS FILE#

NOTE: DASHED LINE REPRESENTS THE BUILDING'S PRESSURE BOUNDARY, SEE SHEET A2.3 FOR BUILDING AIR LEAKAGE TEST NOTES, MAXIMUM BUILDING VERTICAL FENESTRATION AREA CALCULATIONS, AND AIR BARRIER CONSTRUCTION NOTES.



WEST ELEVATION

22X34 - 1/2" = 1'-0"
11X17 - 1/4" = 1'-0"

NOTE: DASHED LINE REPRESENTS THE BUILDING'S PRESSURE BOUNDARY, SEE SHEET A2.3 FOR BUILDING AIR LEAKAGE TEST NOTES, MAXIMUM BUILDING VERTICAL FENESTRATION AREA CALCULATIONS, AND AIR BARRIER CONSTRUCTION NOTES.



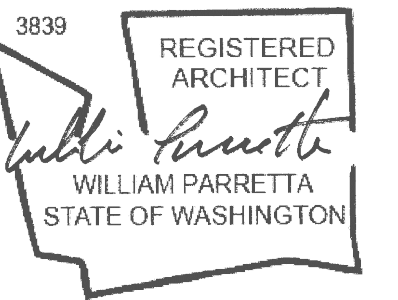
EAST ELEVATION

22X34 - 1/2" = 1'-0"
11X17 - 1/4" = 1'-0"

CAD NO.

NO.	DATE	APP.	INT.	REVISIONS

ACTION	BY	DATE
DESIGNED	BP	NOV. 2023
DRAWN	NW	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDOTS)		



PROJECT ENGINEER

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION



KOPACHUCK
STATE PARK

WELCOME
CENTER

EXTERIOR
ELEVATIONS

A3.1

AUSTINCINA
architects p.s.
Architect of Record:
WP Architecture
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SHEET 8 OF 40

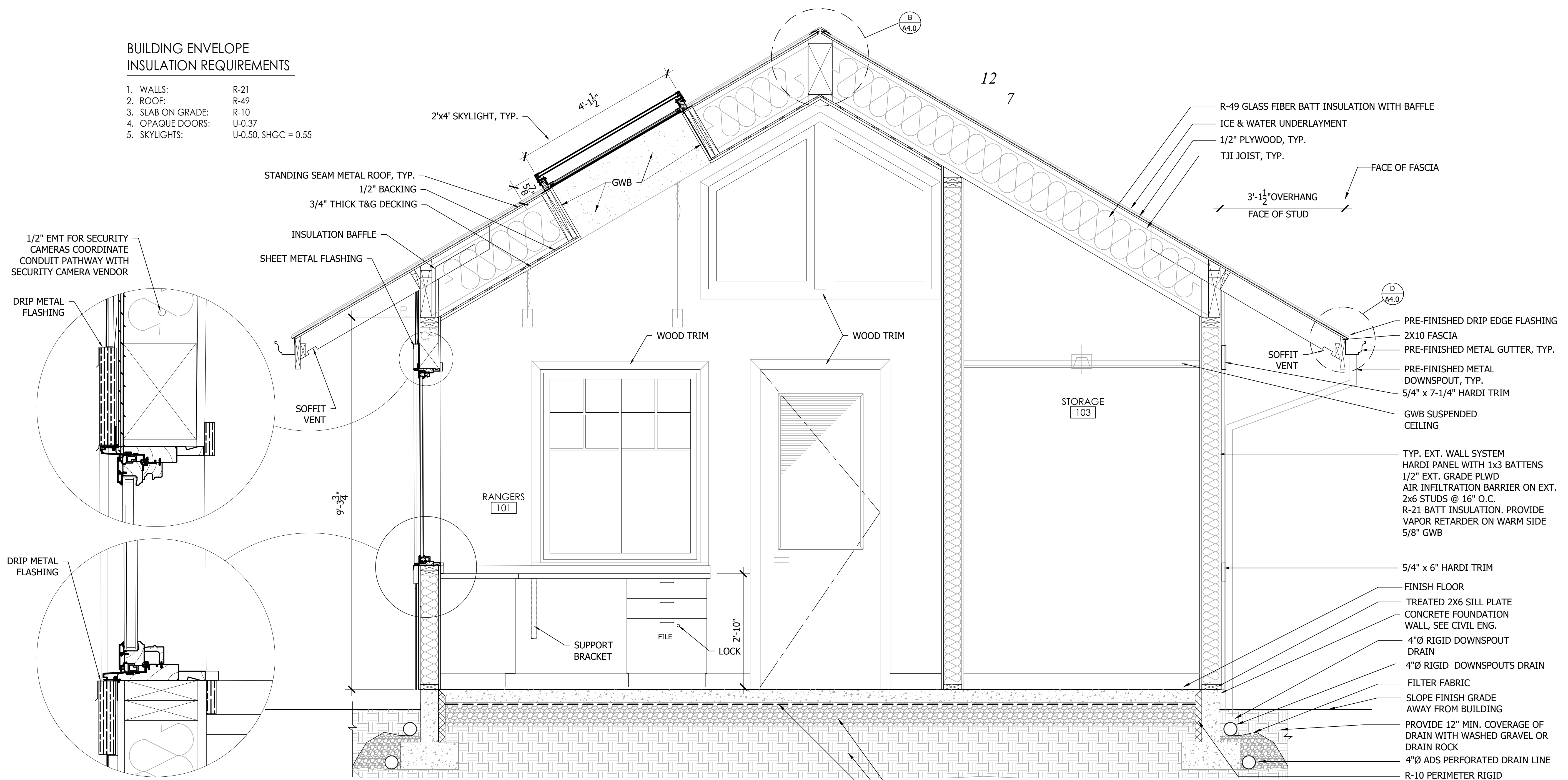
SCALE

AS NOTED

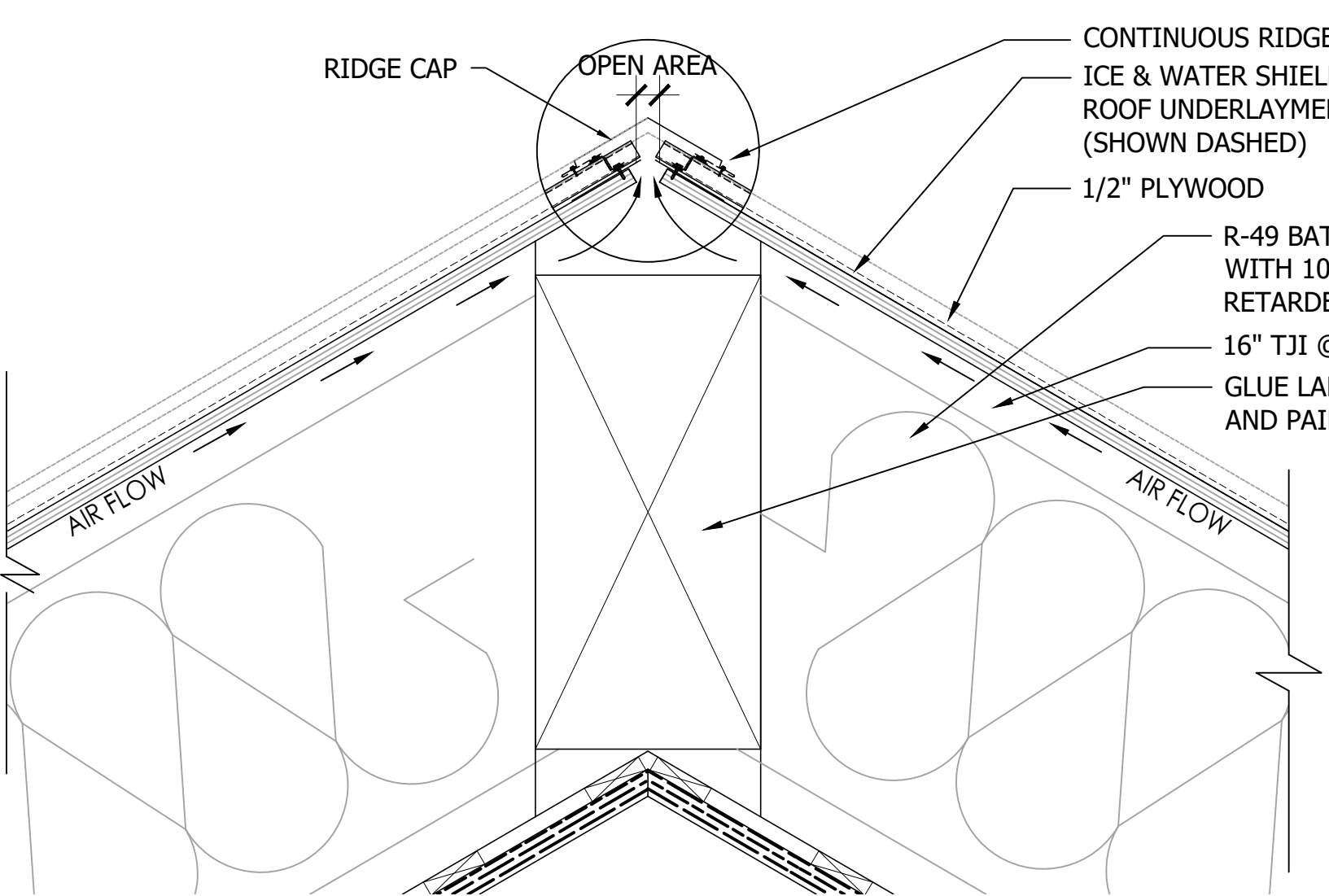
BID SET PARKS FILE#

**BUILDING ENVELOPE
INSULATION REQUIREMENTS**

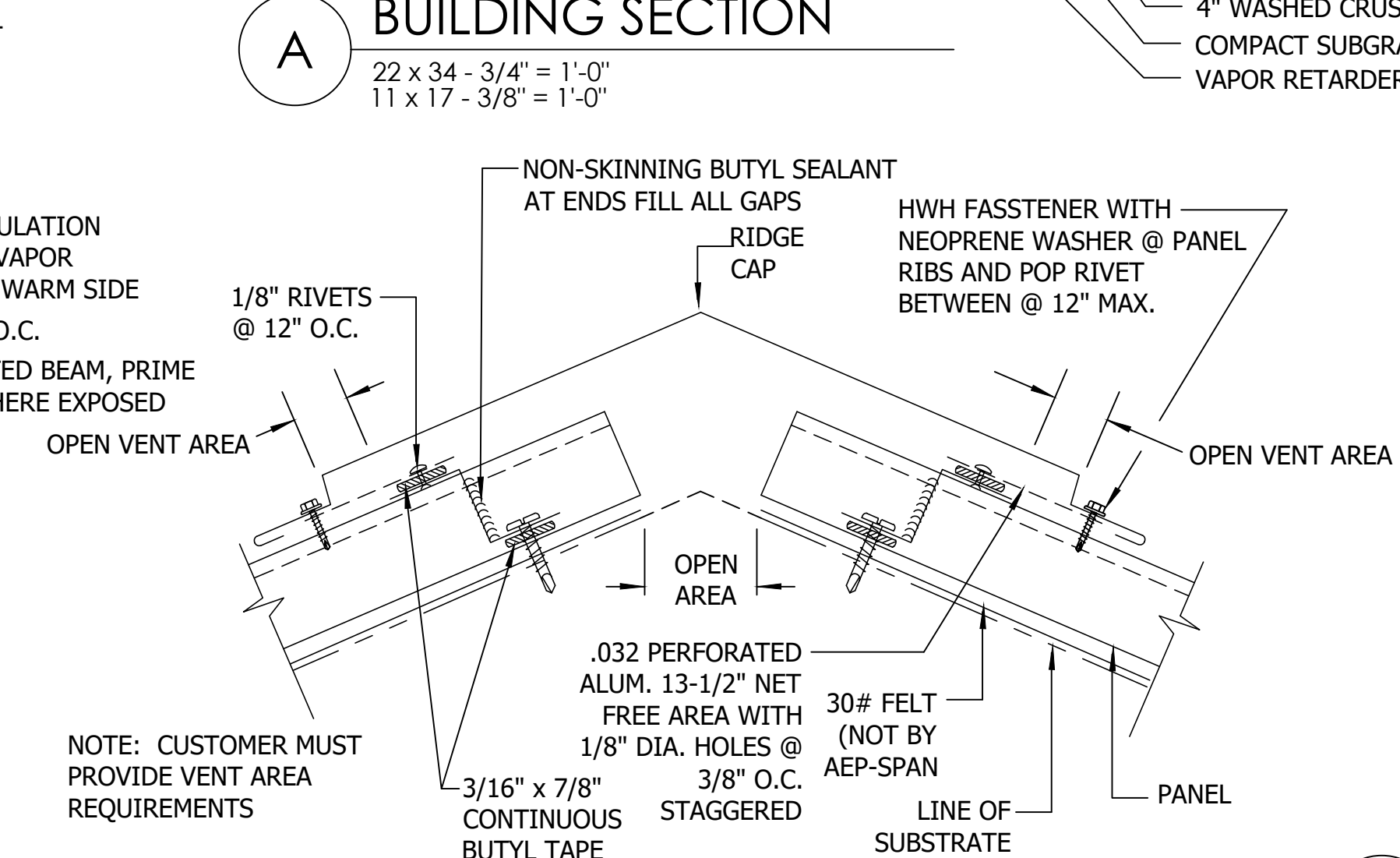
1. WALLS: R-21
2. ROOF: R-49
3. SLAB ON GRADE: R-10
4. OPAQUE DOORS: U-0.37
5. SKYLIGHTS: U-0.50, SHGC = 0.55



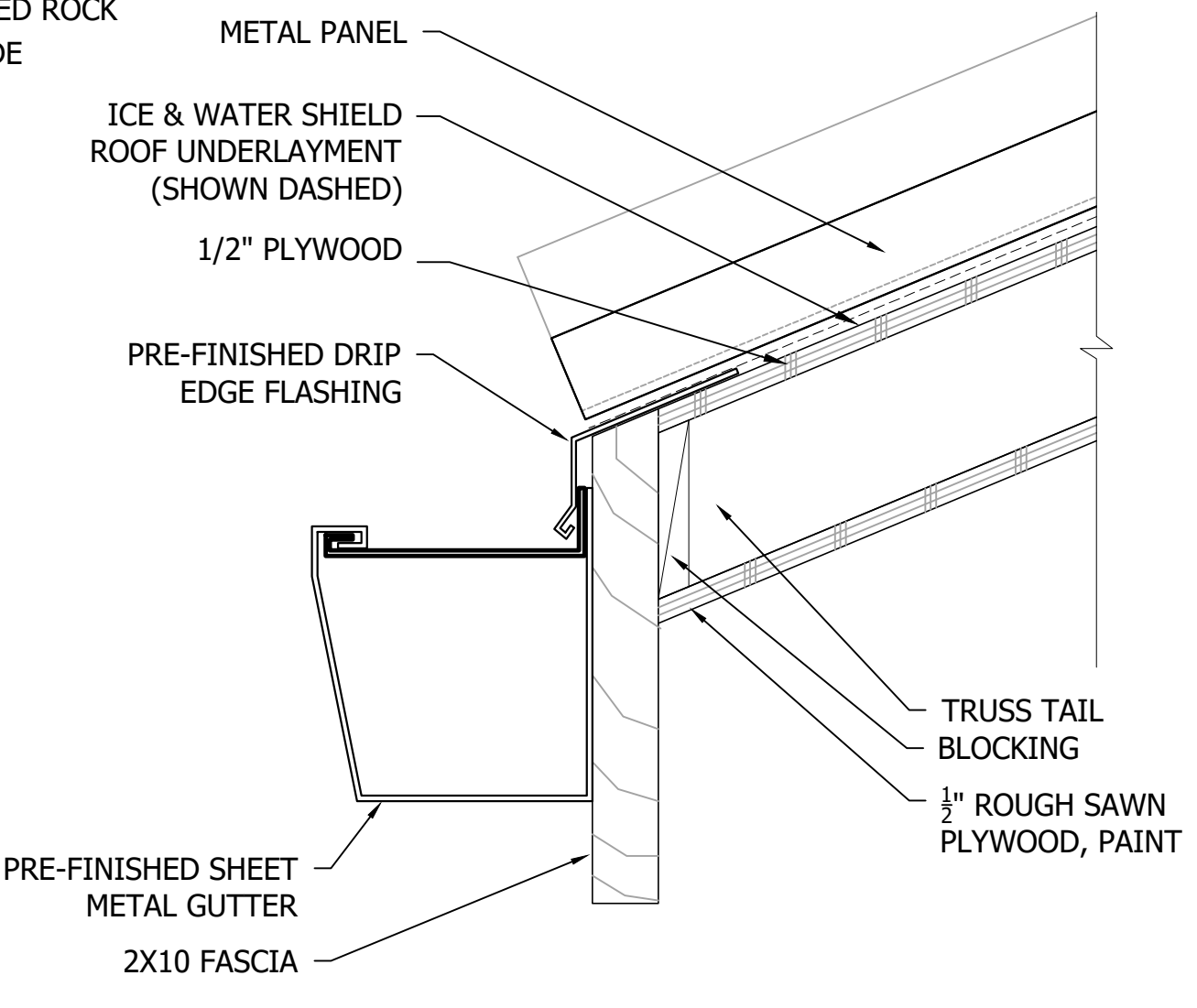
A BUILDING SECTION
22 x 34 - 3/4" = 1'-0"
11 x 17 - 3/8" = 1'-0"



B CONTINUOUS RIDGE VENT DETAILS
22 x 34 - 3" = 1'-0"
11 x 17 - 1-1/2" = 1'-0"



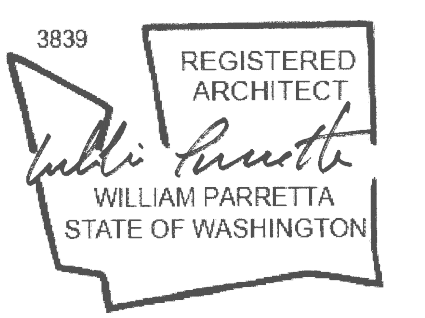
C CONTINUOUS RIDGE VENT DETAILS
NTS



D GUTTER & DRIP FLASHING ROOF DET.
22 x 34 - 1/4" = 1'-0"
11 x 17 - 1/8" = 1'-0"

CAD NO.		DATE
		APP.
		INT.
		REVISONS
		IND.

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CHECKED (FIELD)		
CHECKED (HDOTS)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

WELCOME CENTER

BUILDING SECTIONS

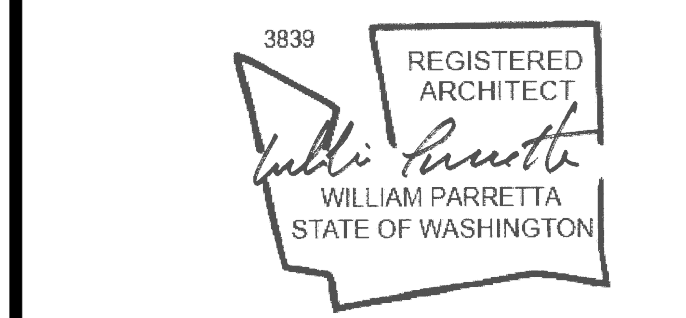
A4.0

SCALE
AS NOTED

AUSTINCINA
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WP Architecture
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	DATE
	APP.
	INT.
	REVISIONS
	NO.

ACTION	BY	DATE
DESIGNED	BP	NOV. 2023
DRAWN	NW	NOV. 2023
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CHECKED (HDOTS)		



PROJECT ENGINEER



KOPACHUCK STATE PARK

WELCOME CENTER

INTERIOR ELEVATIONS

A5.0

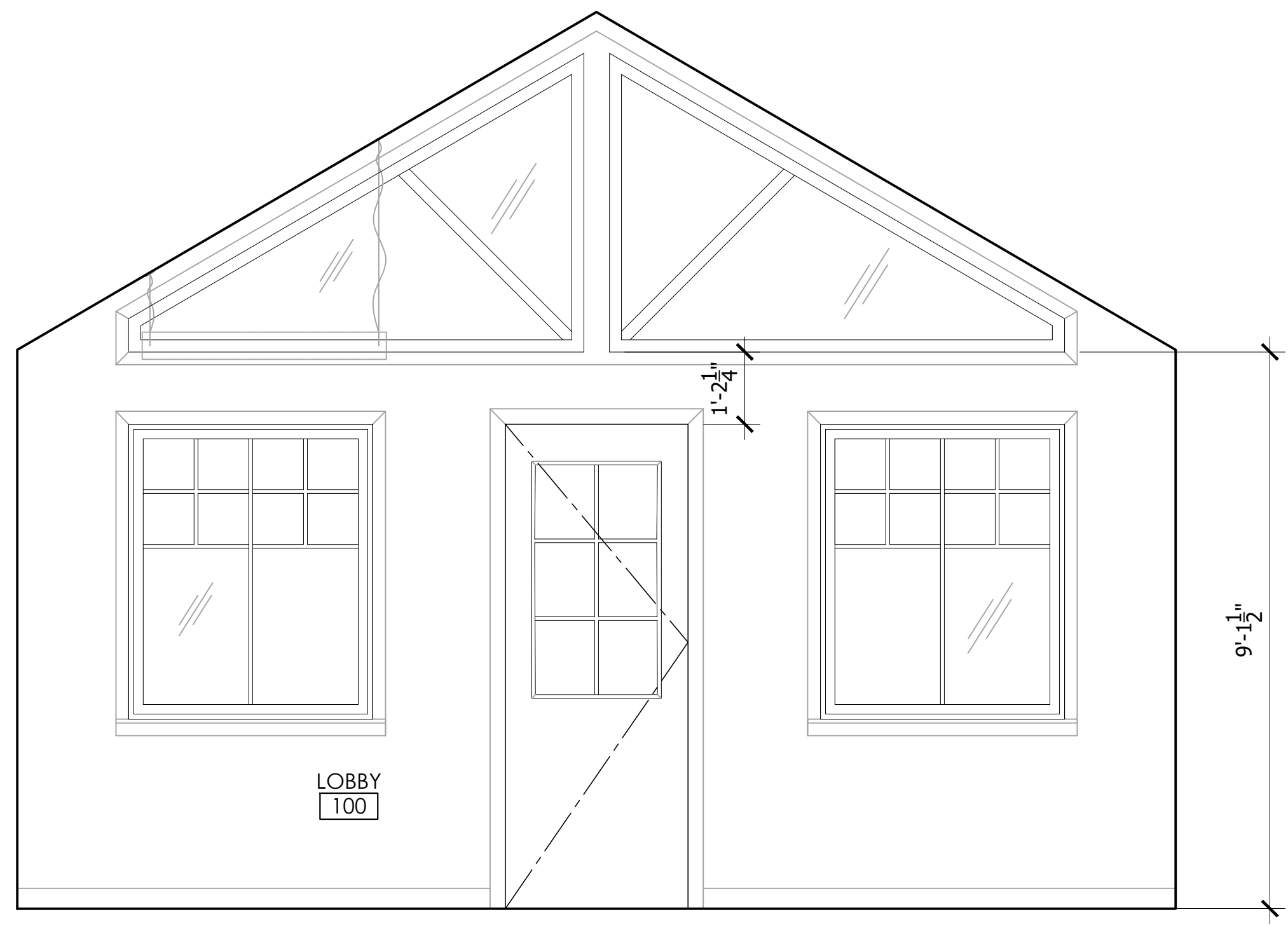
SCALE AS NOTED

SHEET 10 OF 40

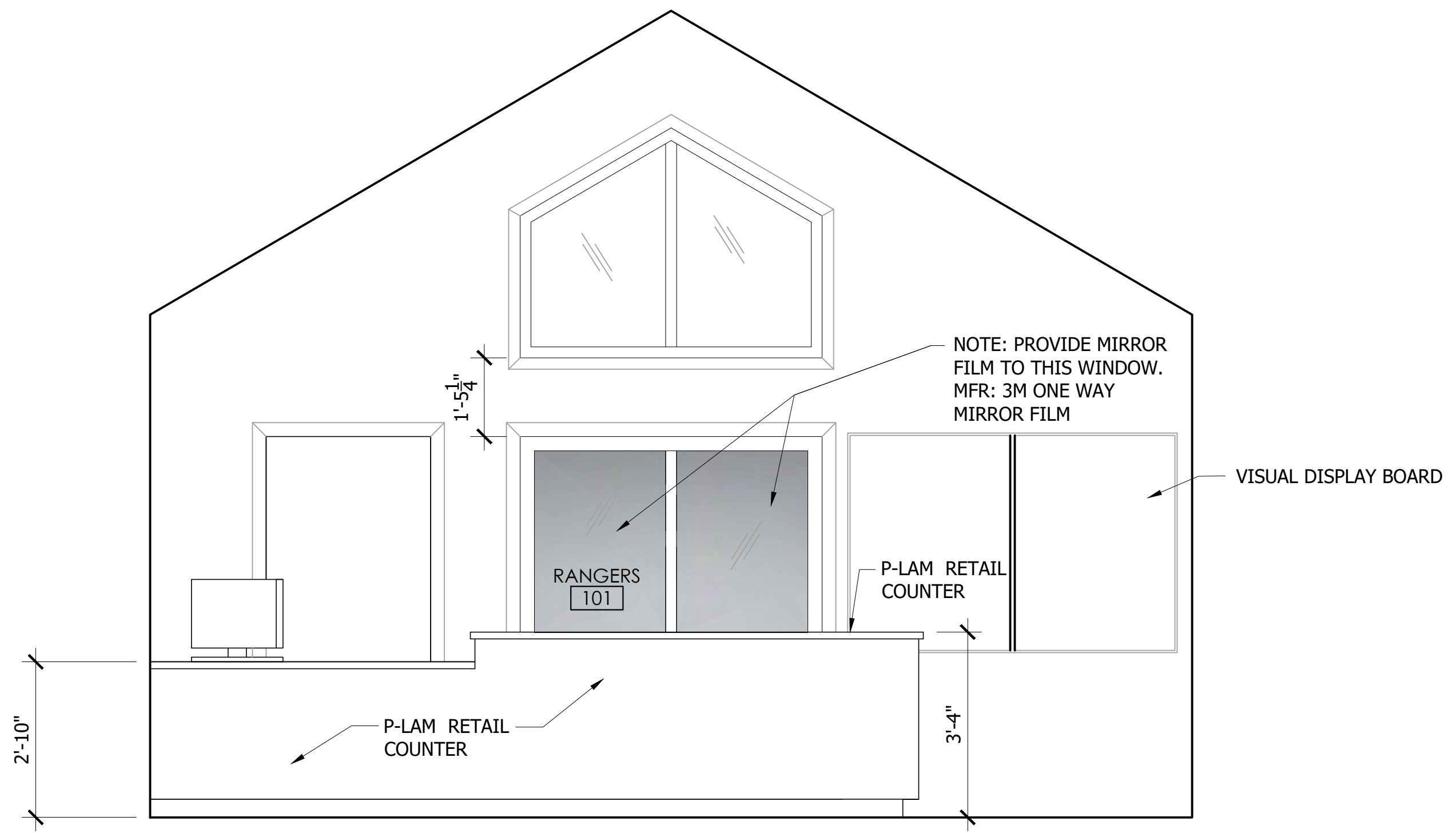
AUSTINCINA
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SHEET 10 OF 40

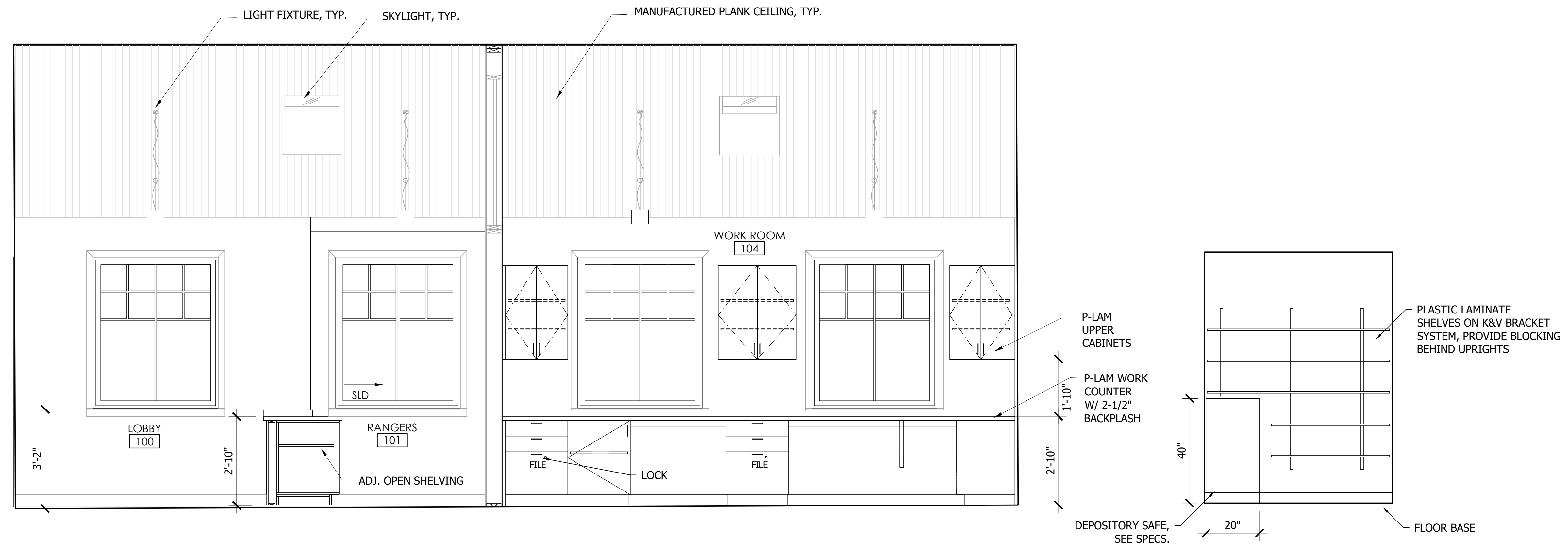
BID SET PARKS FILE#



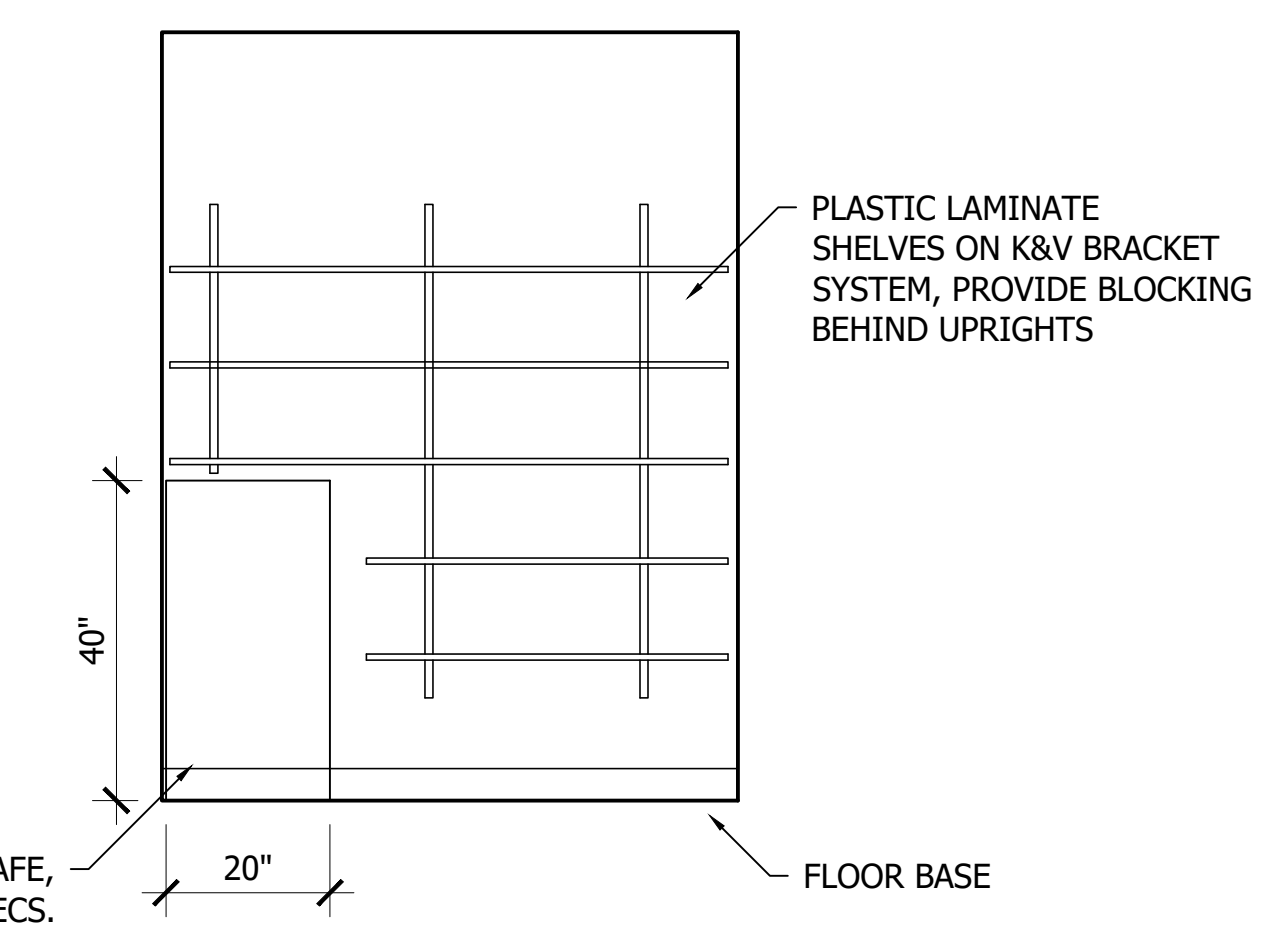
1 ROOM 100 LOBBY
22 x 34 - 1/2" = 1'-0"
11 x 17 - 1/4" = 1'-0"



2 ROOM 100 LOBBY
22 x 34 - 1/2" = 1'-0"
11 x 17 - 1/4" = 1'-0"



3 ROOM 100 LOBBY/ROOM 104 WORKROOM
22 x 34 - 1/2" = 1'-0"
11 x 17 - 1/4" = 1'-0"

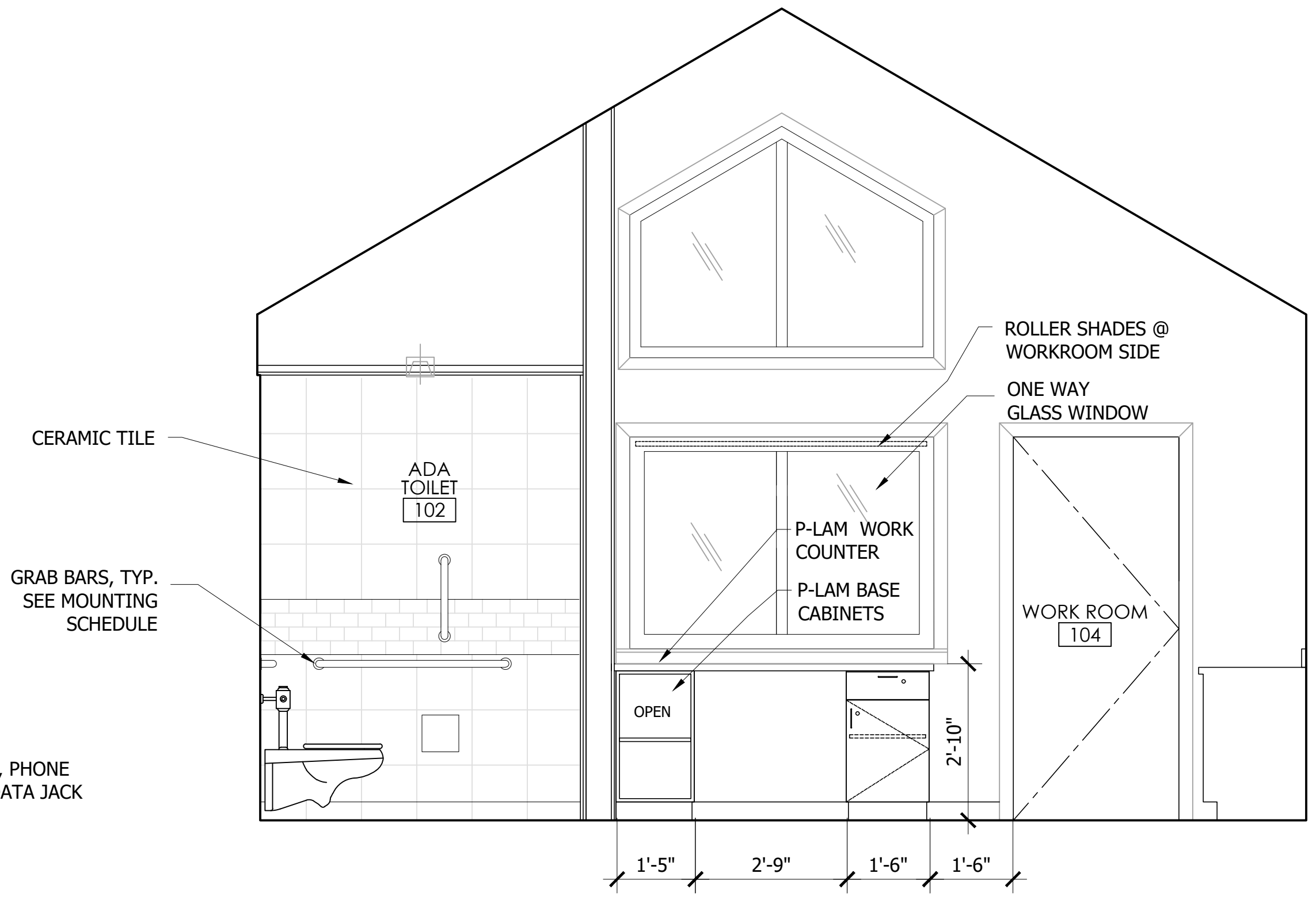


4 ROOM 103 STORAGE
22 x 34 - 1/2" = 1'-0"
11 x 17 - 1/4" = 1'-0"

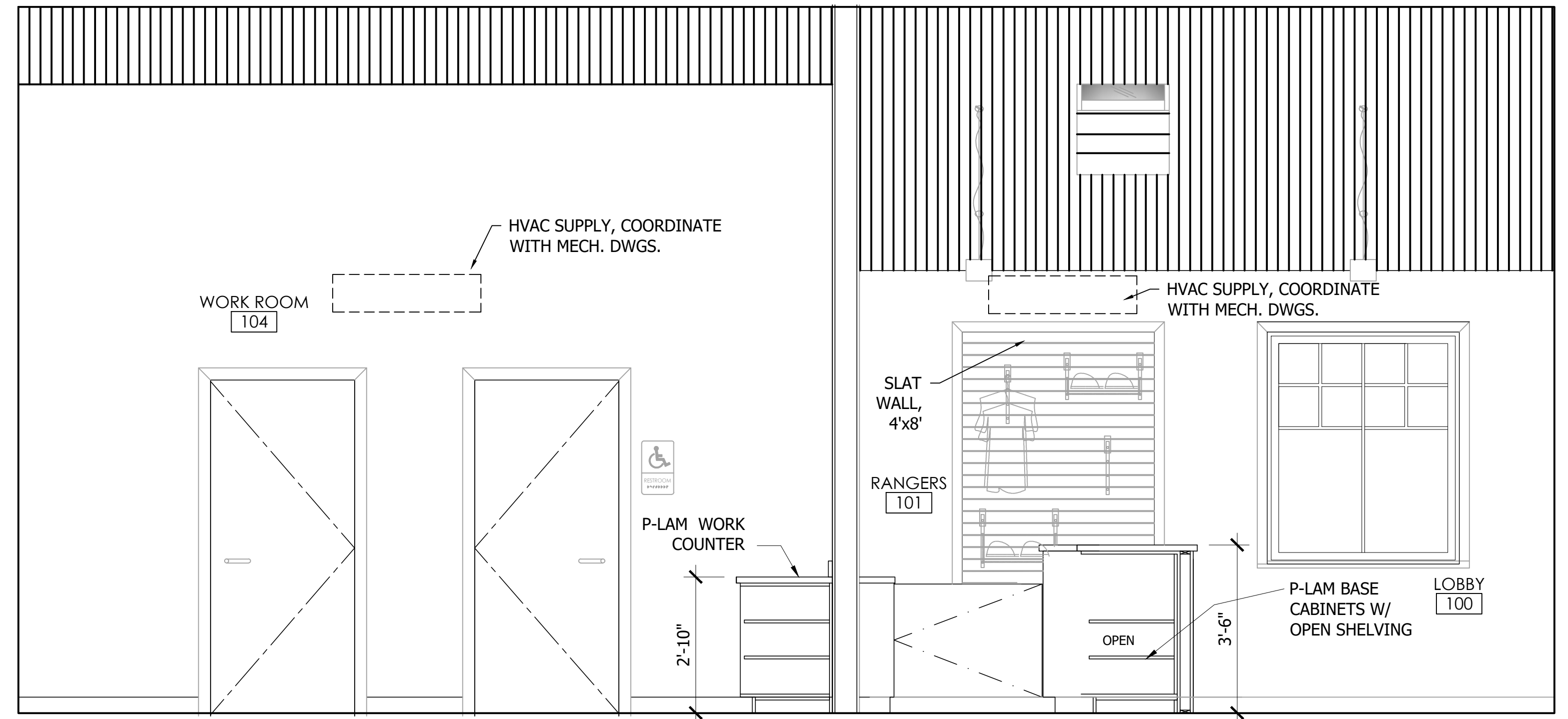
ACTION	BY	DATE
DESIGNED	BP	NOV. 2023
DRAWN	NW	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDOTS.)		



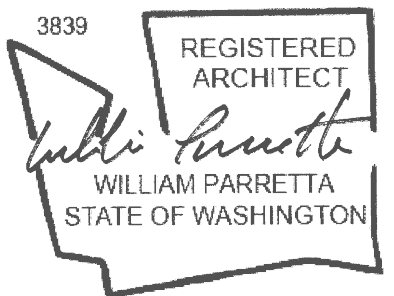
1 ROOM 100 LOBBY - ROOM 101 RANGER
 22 x 34 - 1/2" = 1'-0"
 11 x 17 - 1/4" = 1'-0"



2 ROOM 102 ADA TOILET - ROOM 104 WORK ROOM
 22 x 34 - 1/2" = 1'-0"
 11 x 17 - 1/4" = 1'-0"



3 ROOM 104 WORK ROOM - ROOM 101 RANGER - ROOM 100 LOBBY
 22 x 34 - 1/2" = 1'-0"
 11 x 17 - 1/4" = 1'-0"



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

WELCOME CENTER

INTERIOR ELEVATIONS

A5.1



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SCALE

AS NOTED

DOOR SCHEDULE

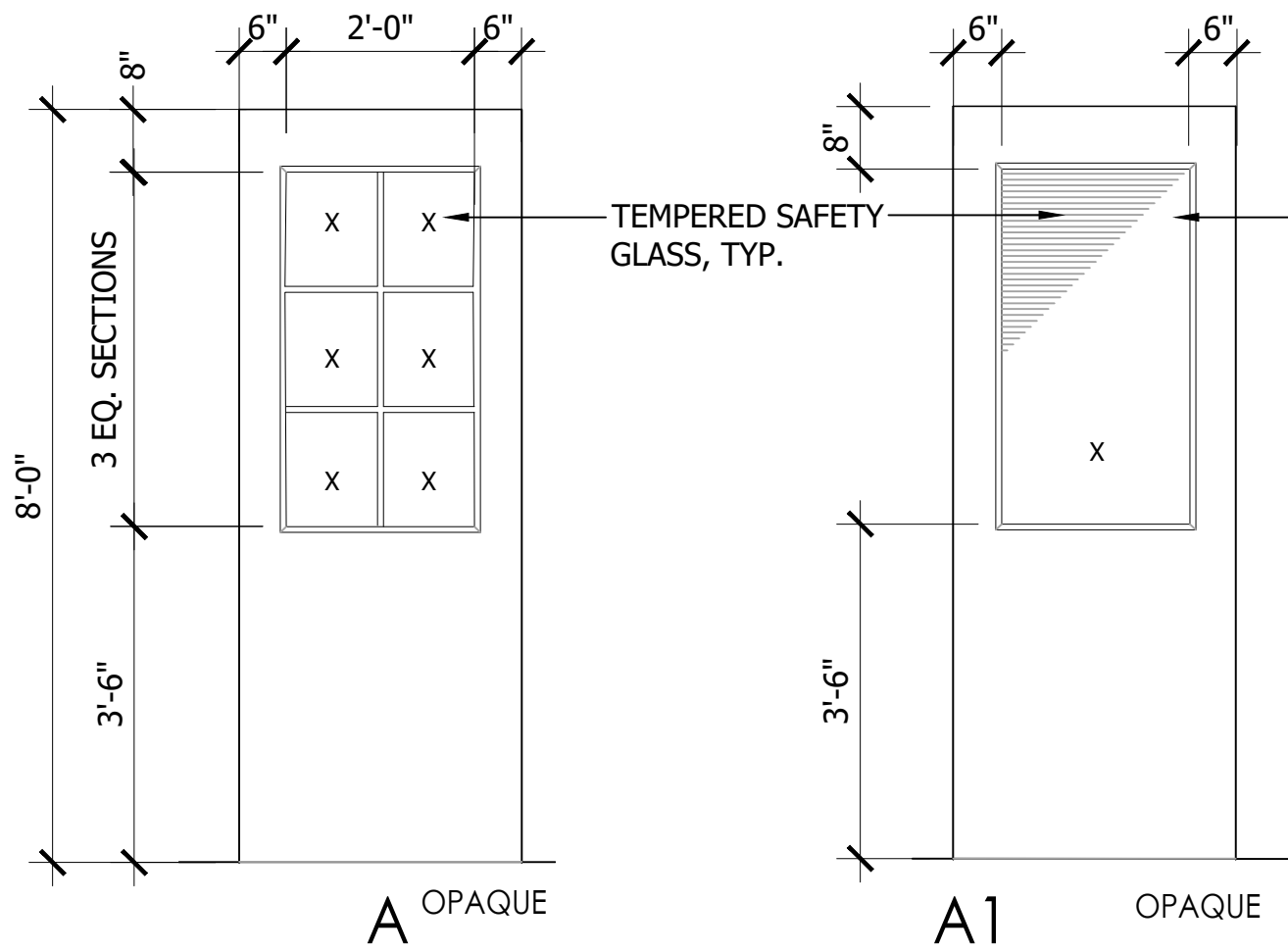
DOOR NO.	DOOR SIZE	DOOR				FRAME		RATING	HDW GRP	DETAILS			REMARKS
		TYPE	CORE	MAT	FIN	MAT	FIN			HEAD	JAMB	SILL	
100A	3'-0" x 8'-0" x 1-3/4"	A	HM		PT	HM	PT	13					INSULATED.
101A	3'-0" x 3'-0" x 1"	B	PLWD		PT	HM	PT						GATE DOOR BY CASEWORK MFG.
101B	3'-0" x 7'-0" x 1-3/4"	C	WD		PT	HM	PT	14					
102A	3'-0" x 7'-0" x 1-3/4"	C	WD		PT	HM	PT	1					
103A	3'-0" x 7'-0" x 1-3/4"	C	WD		PT	HM	PT	4					
104A	3'-0" x 8'-0" x 1-3/4"	A1	HM		PT	HM	PT	13					INSULATED, INTEGRAL SHADE AT VISION LITE.

ABBREVIATIONS:

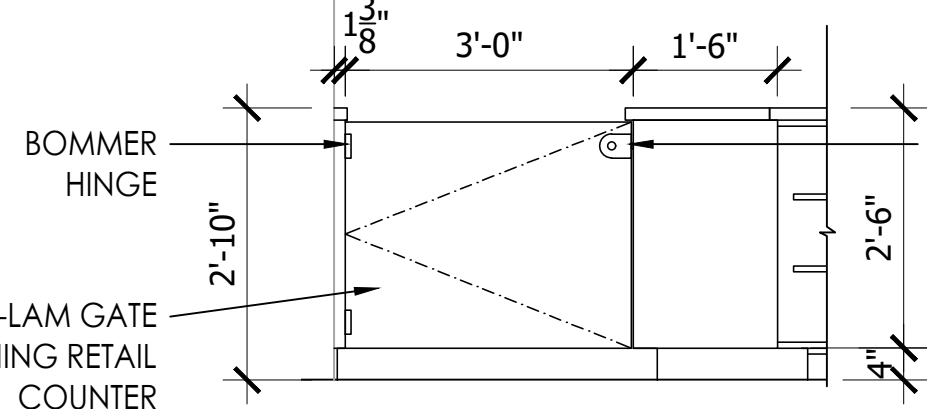
ACP	ACOUSTICAL CEILING PANEL
CT	CERAMIC TILE
FRP	FIBERGLASS REINFORCED PANEL
GWB	GYPSON WALL BOARD
HM	HOLLOW METAL
PLAM	PLASTIC LAMINATE
PT	PAINT
ST	STAIN
SV	SHEET VINYL
VCC	VINYL COMPOSITE CORE
WD	WOOD

ROOM FINISH SCHEDULE

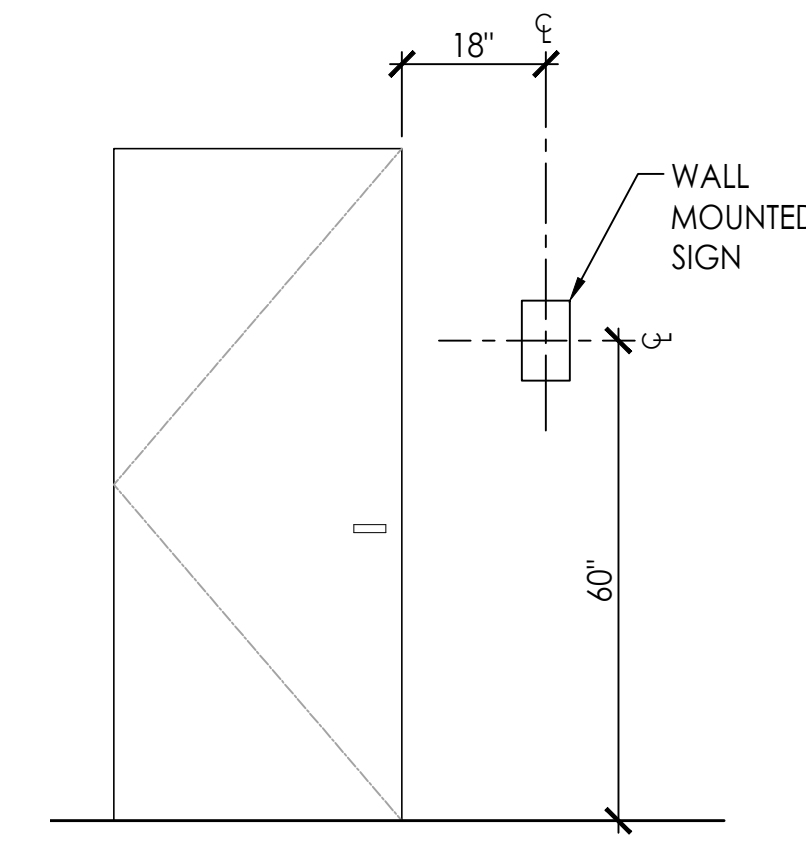
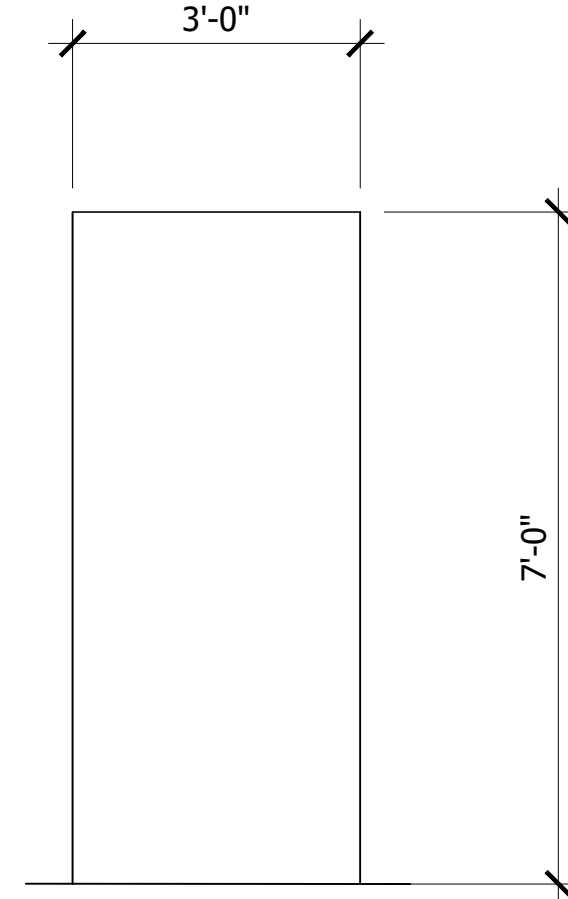
ROOM NO.	ROOM	FLOOR	BASE	WALLS		CEILING		REMARKS
				MATERIALS	FINISH	MATERIALS	FINISH	
100	LOBBY	VCC	RB	GWB	PT	WD-T&G-MAPLE	CLEAR	
101	RANGERS	VCC	RB	GWB	PT	GWB	PT	
102	ADA TOILET	CT	CT	CT	CT	GWB	PT	
103	STORAGE	VCC	RB	GWB	PT	GWB	PT	
104	WORK ROOM	VCC	RB	GWB	PT	GWB	PT	



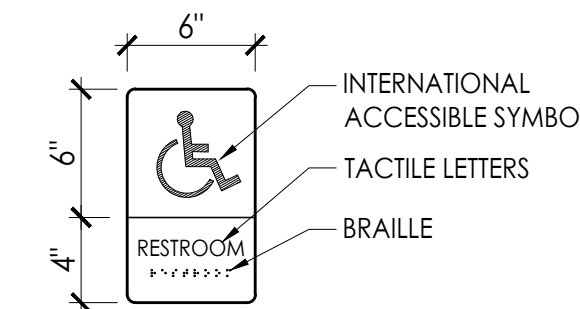
INSULATED GLASS ASSEMBLY WITH MIRROR FILM AND INTEGRAL HORIZ. BLINDS



GATE LATCH: KNAPE & VOGT MODEL: KV0989 ALUM. SECRET GATE LATCH



SIGN MOUNTING LOCATION



WALL MOUNTED SIGN DETAIL

EXTERIOR COMMERCIAL DOOR "X" DENOTES TEMPERED GLASS (SAFETY GLASS)

INTERIOR CUSTOM GATE (BY CASEWORK MFR.)

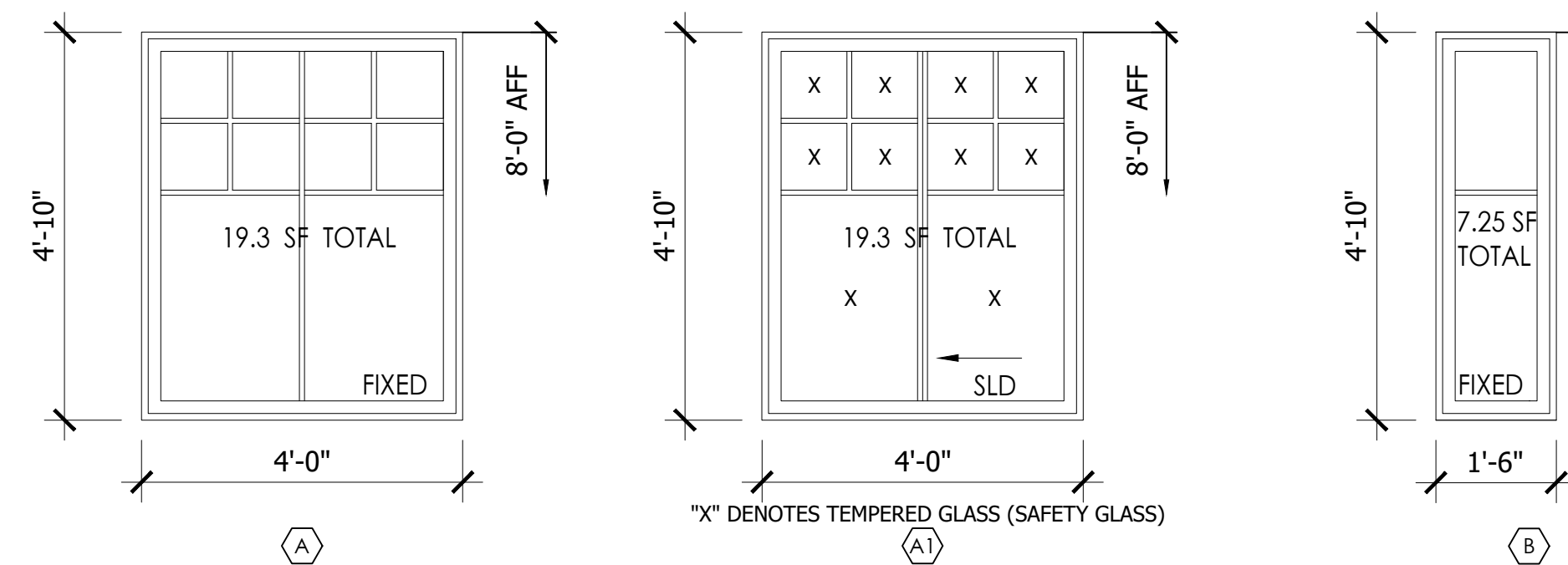
INTERIOR COMMERCIAL ROOM DOOR

1 DOOR TYPES

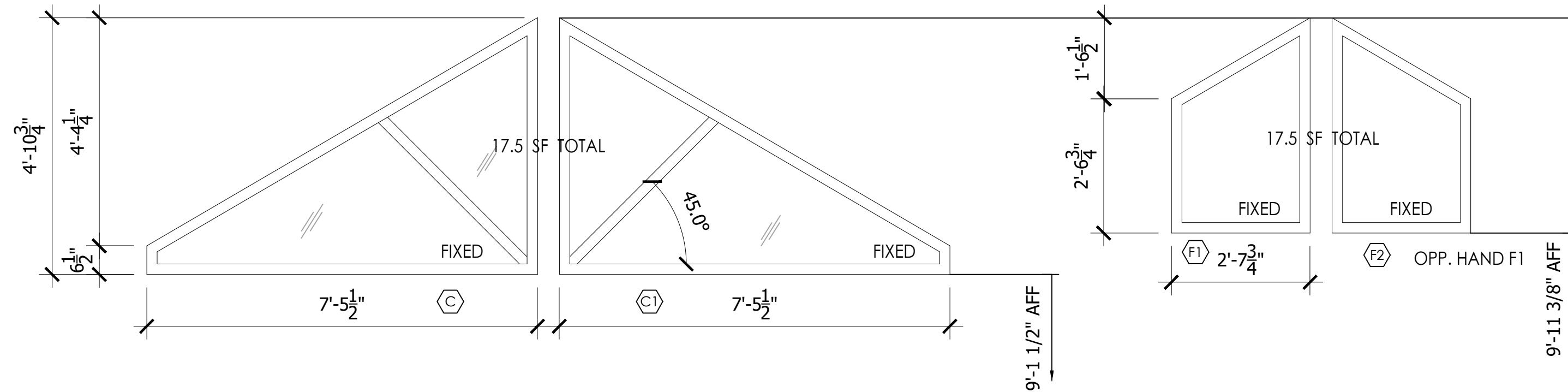
NOT TO SCALE

2 DOOR SIGNAGE & MOUNTING DETAILS

NOT TO SCALE



"X" DENOTES TEMPERED GLASS (SAFETY GLASS)



3 EXT. WINDOW TYPES

NOT TO SCALE

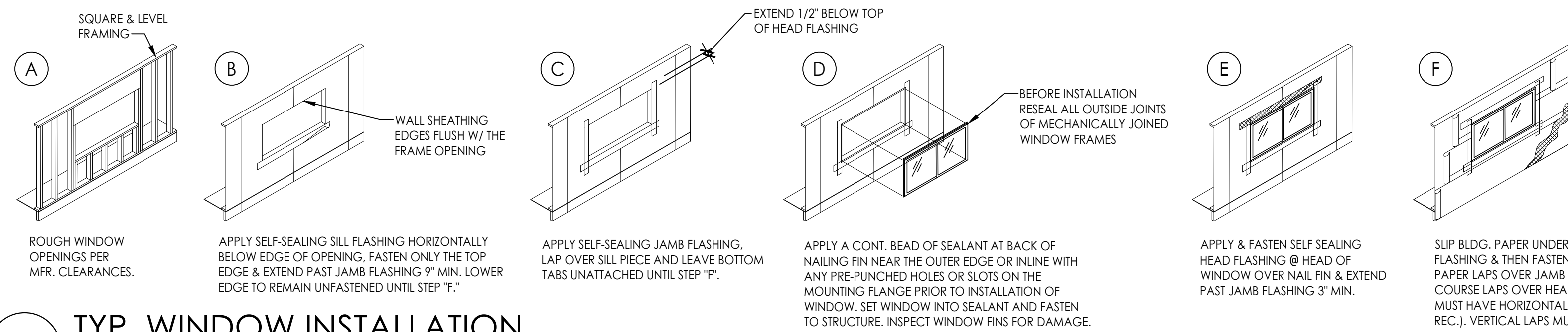
BUILDING ENVELOPE FENESTRATION MAX. U-FACTOR

- FIXED U-FACTOR: U-0.38
- OPERABLE U-FACTOR: U-0.40
- SWINGING OPAQUE DOORS: U-0.37

SOLAR HEAT GAIN COEFFICIENT (SHGC)

EXPOSURES	SEW	N
PF < 0.2	0.38	0.51
0.2 ≤ PF < 0.5	0.46	0.56
PF ≥ 0.5	0.61	0.61

PF (PROJECTION FACTOR)



5 TYP. WINDOW INSTALLATION

NOT TO SCALE

GENERAL NOTES:
 1. SILL, JAMB AND HEAD FLASHING DENOTED ON STEPS B, C & E TO BE 9-INCH WIDE (MINIMUM) PROTECTO WRAP BT25XL BUTYL HYBRID WINDOW & DOOR SEALING TAPE AND/OR APPROVED SIMILAR.
 2. STEP D, FASTEN WINDOW NAIL FIN WITH STAINLESS STEEL SCREWS AT HEAD, JAMB AND SILL NO CLOSER THAN 3-INCHES AND WITHIN 10-INCHES FROM CORNERS AND SPACED 16-INCHES ON CENTER (MAXIMUM) OR PER WINDOW MANUFACTURER'S SPECIFICATIONS. NO SS SCREWS SHALL BE BENT OVER THE NAILING FIN TO SECURE WINDOW.

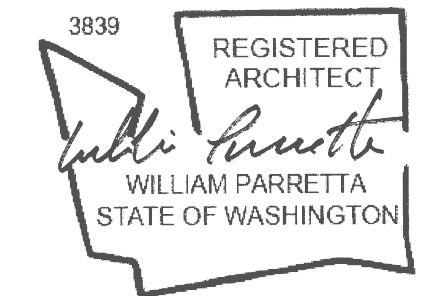
4 INT. HM WINDOW TYPES

NOT TO SCALE

CAD NO.

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CHECKED (HDQTS.)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

WELCOME CENTER

ROOF FINISH, DOOR AND WINDOW SCHEDULES

A6.0

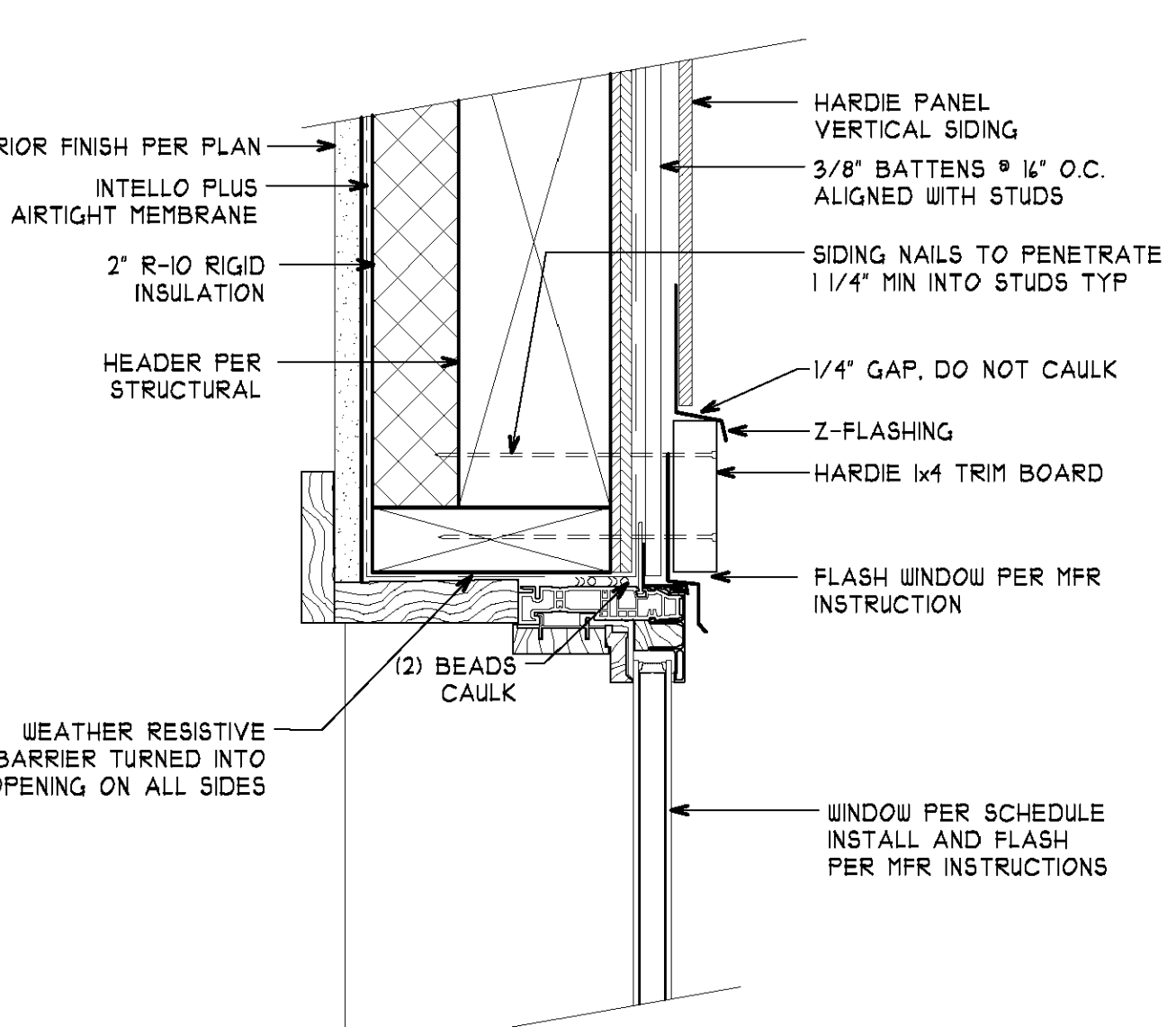
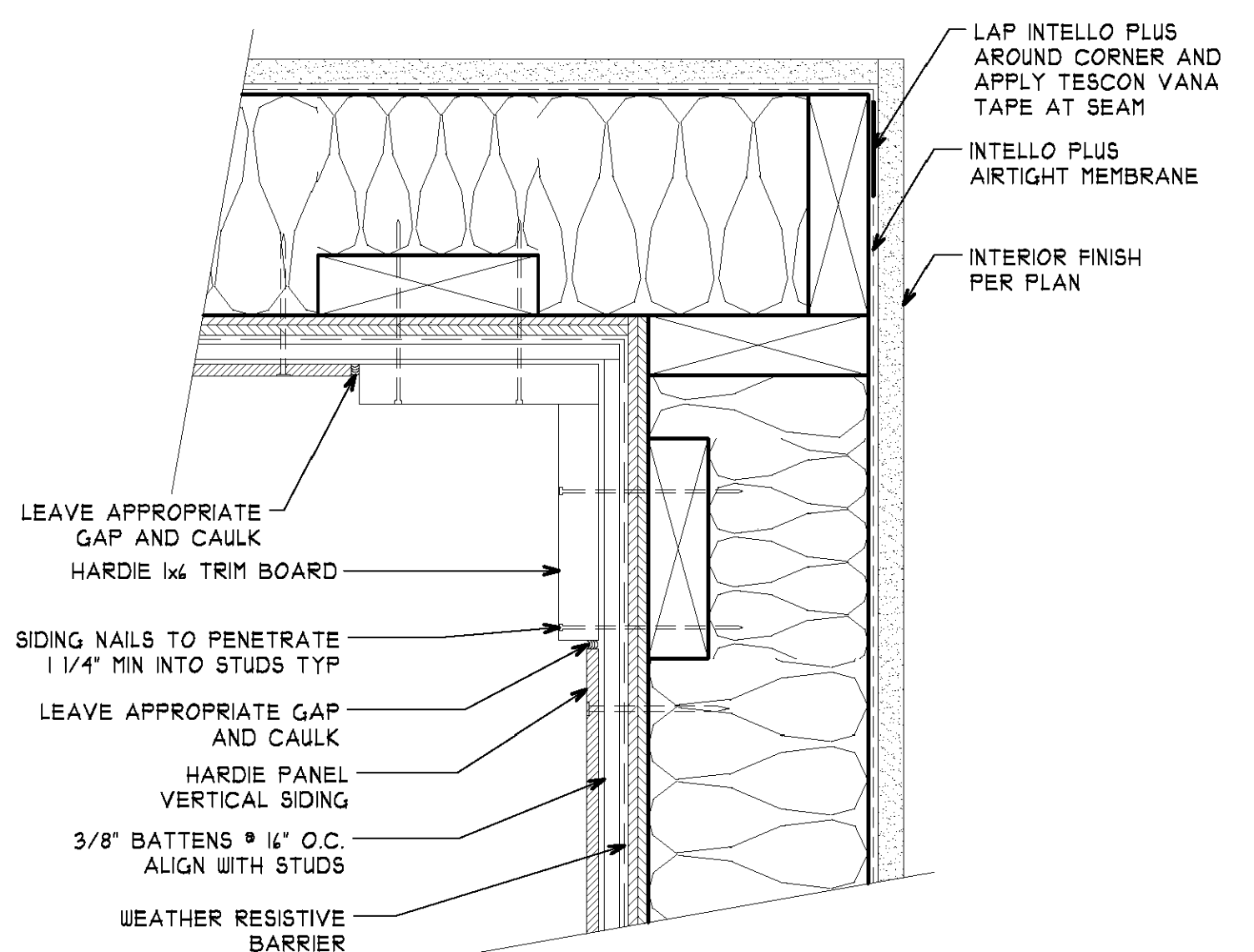
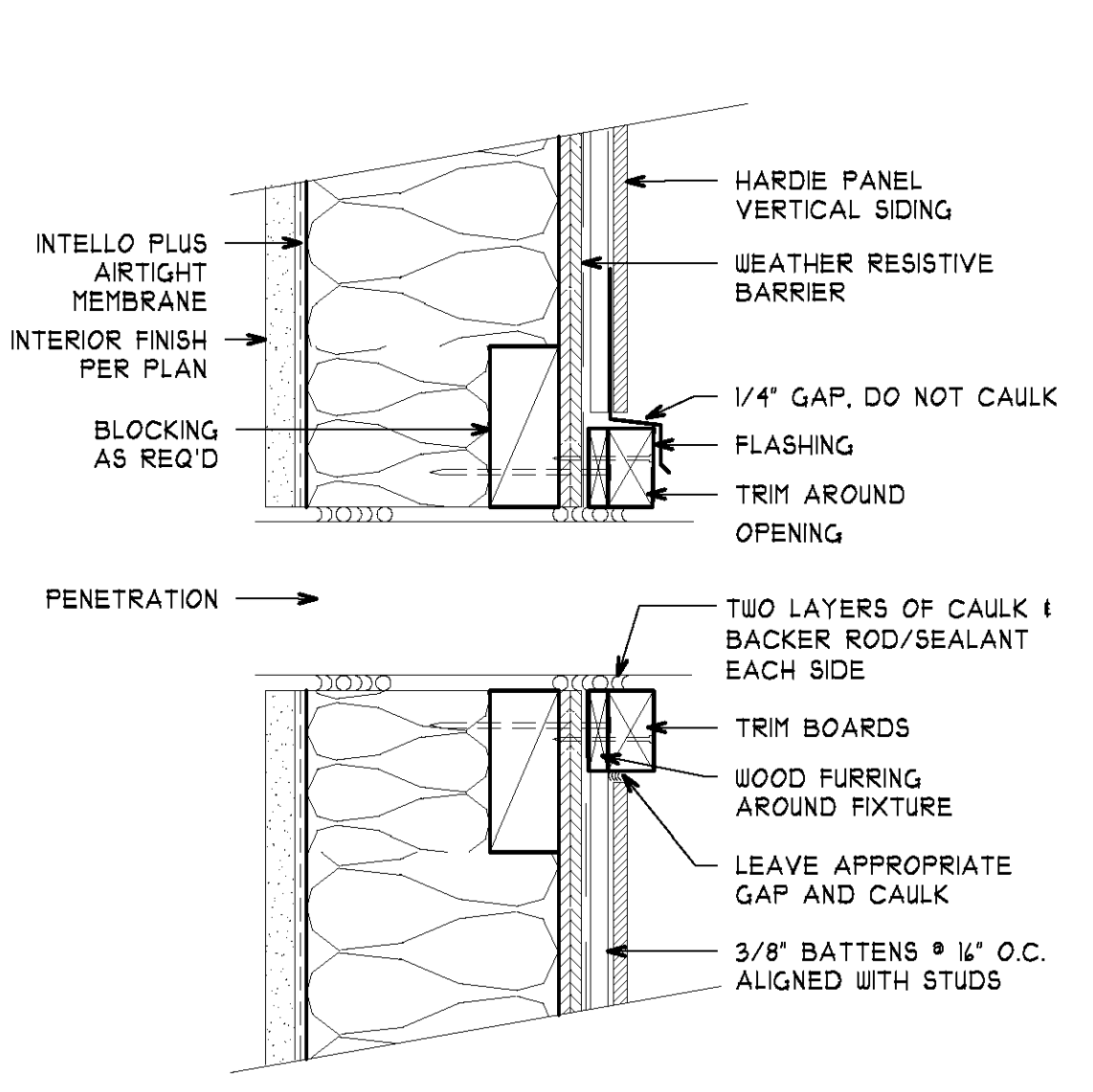
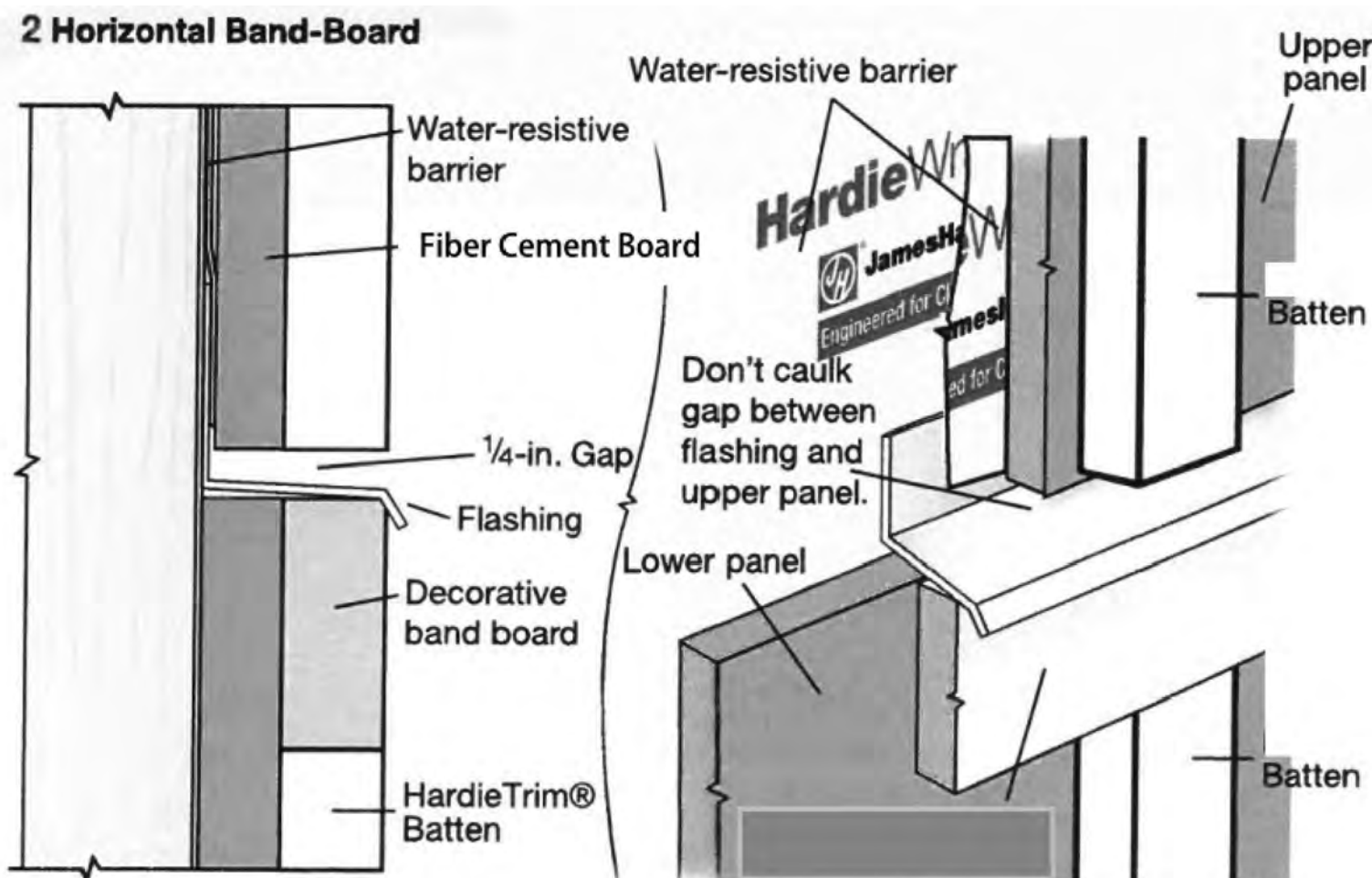
AUSTINCINA architects p.s.
 Architect of Record:
 WP Architecture
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SHEET 12 OF 40

SCALE

AS NOTED

BID SET PARKS FILE#

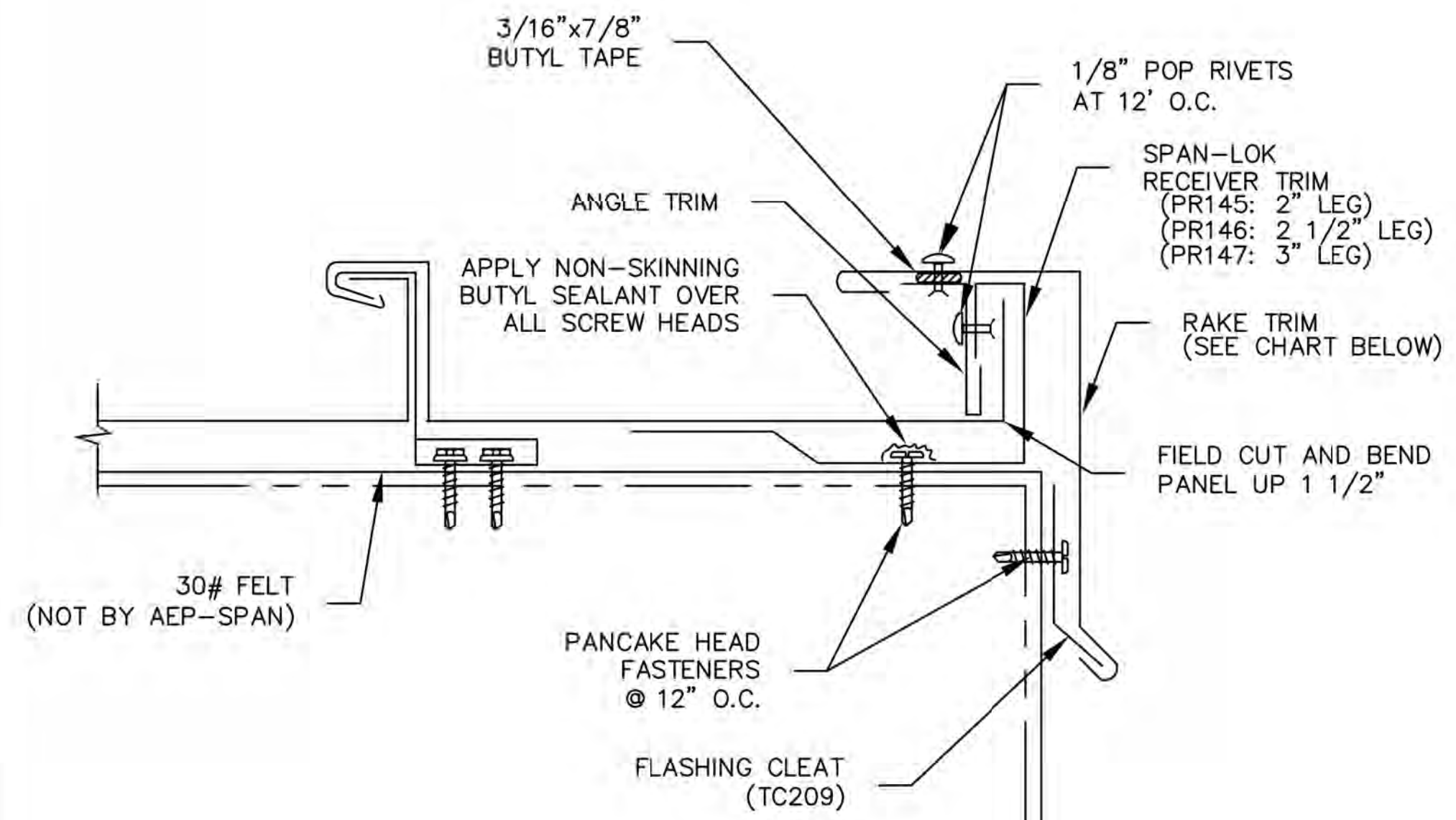


8 ENLARGED SIDING DETAIL
NOT TO SCALE

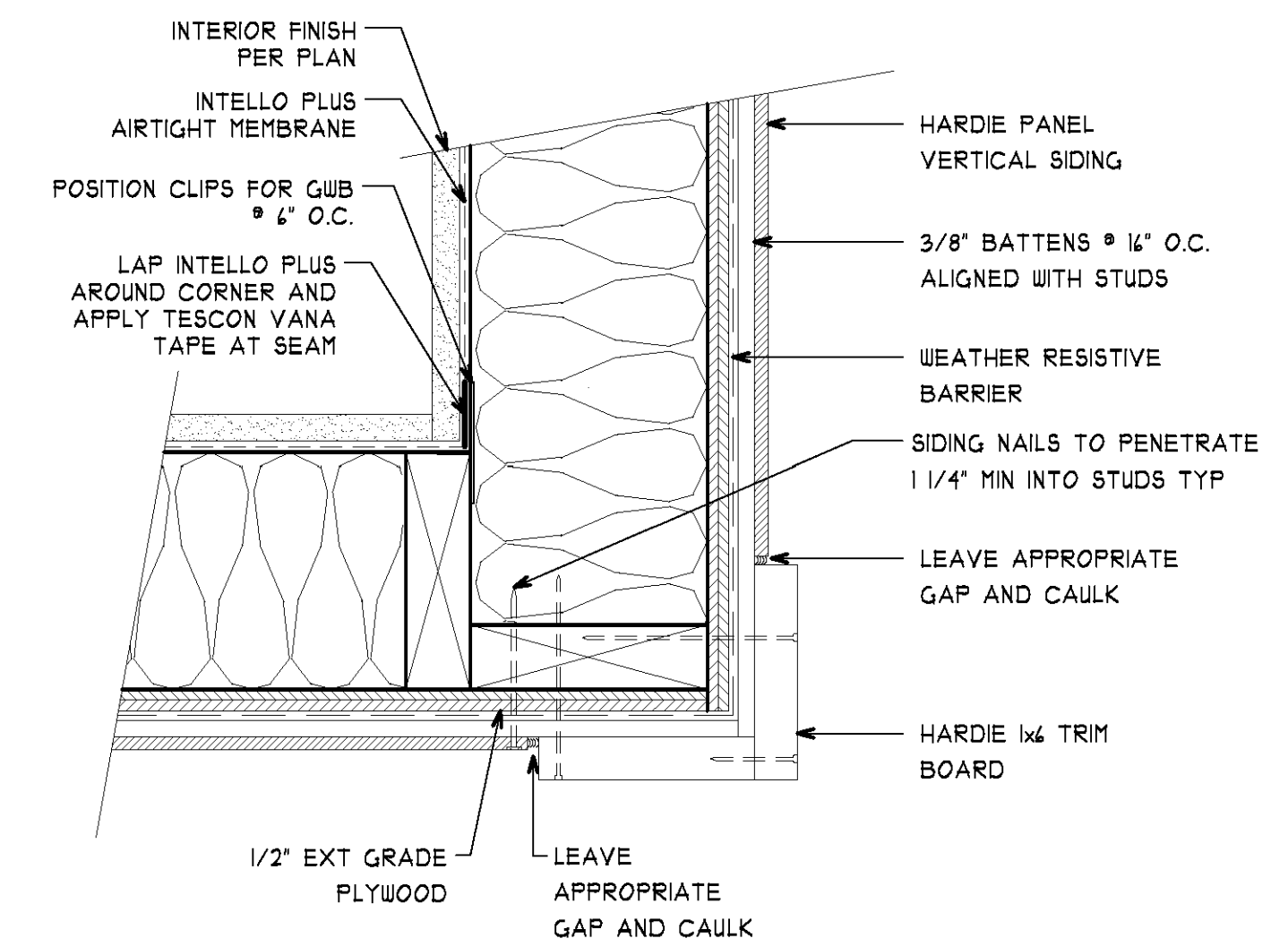
7 HARDI-PANEL TYP. PENETRATION
22x34 3" = 1'-0"
11x17 1-1/2" = 1'-0"

4 HARDI-PANEL TYP. INSIDE CORNER
22x34 3" = 1'-0"
11x17 1-1/2" = 1'-0"

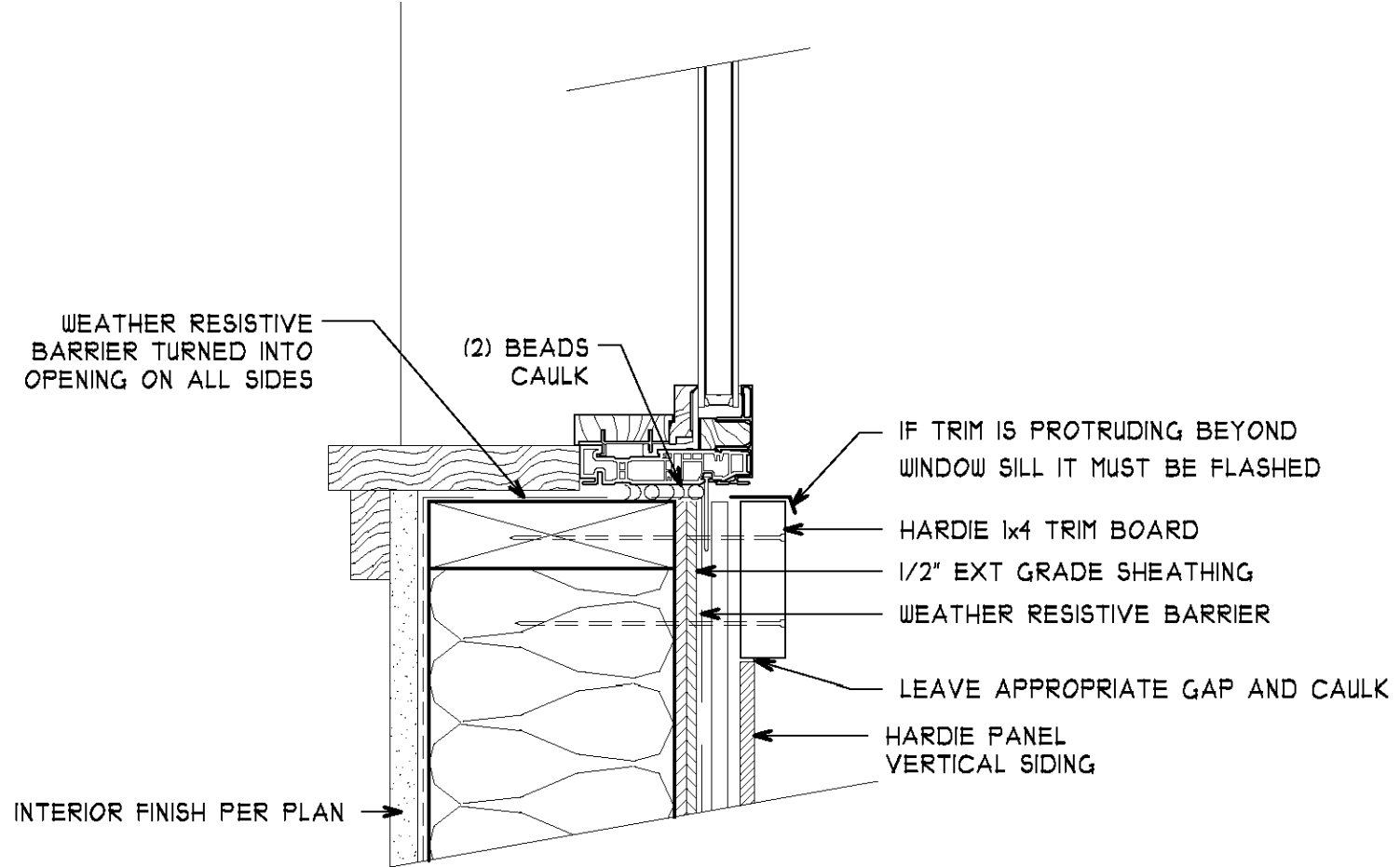
1 HARDI-WINDOW HEAD TYP.
22x34 3" = 1'-0"
11x17 1-1/2" = 1'-0"



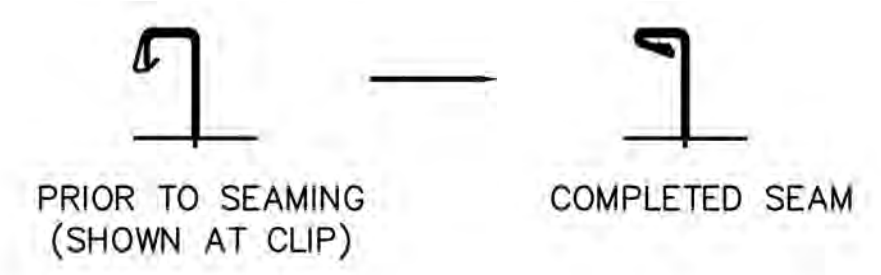
9 RAKE EDGE DTL.
NOT TO SCALE



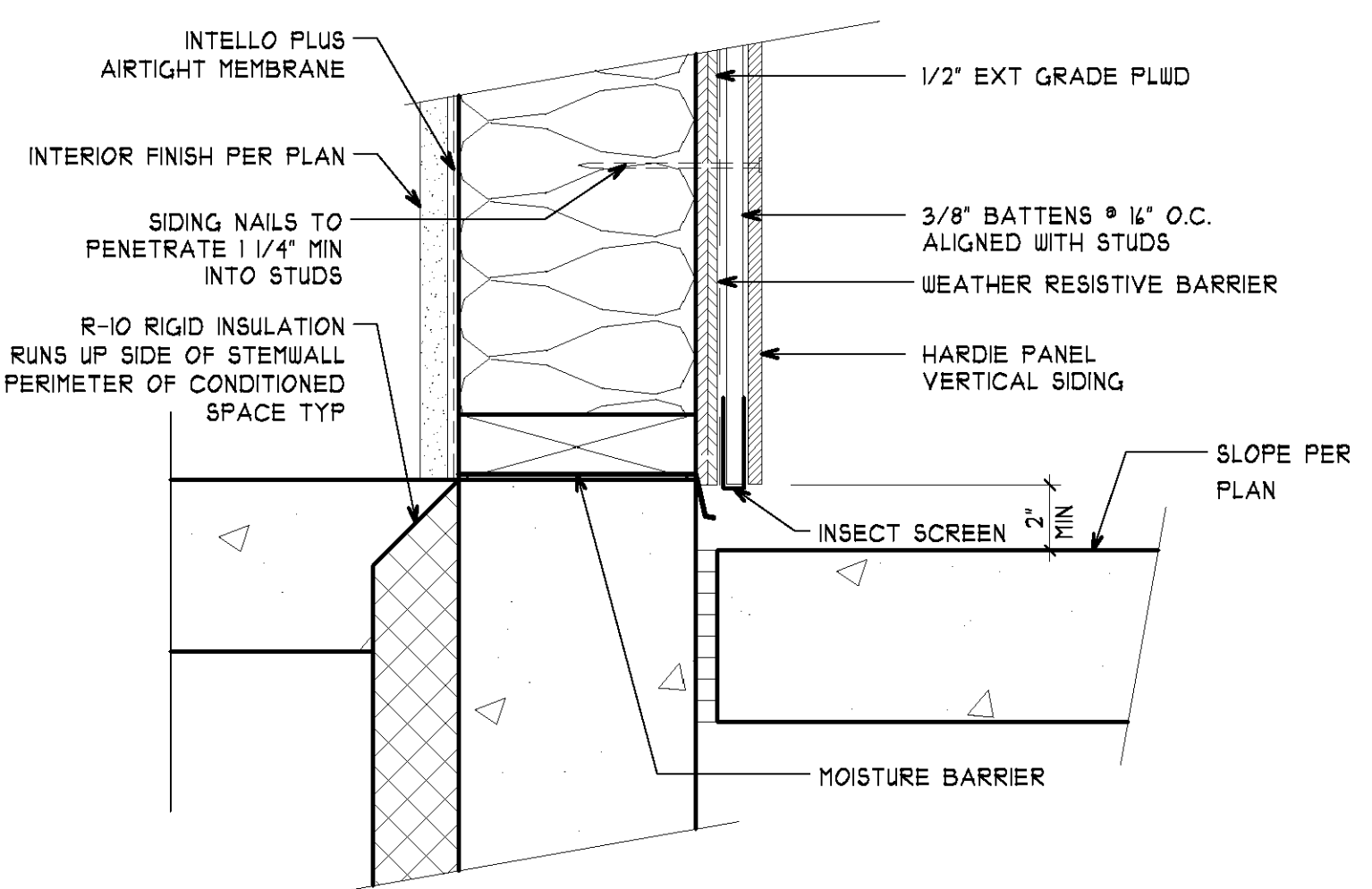
5 HARDI-PANEL TYP. OUTSIDE CORNER DTL.
22x34 3" = 1'-0"
11x17 1-1/2" = 1'-0"



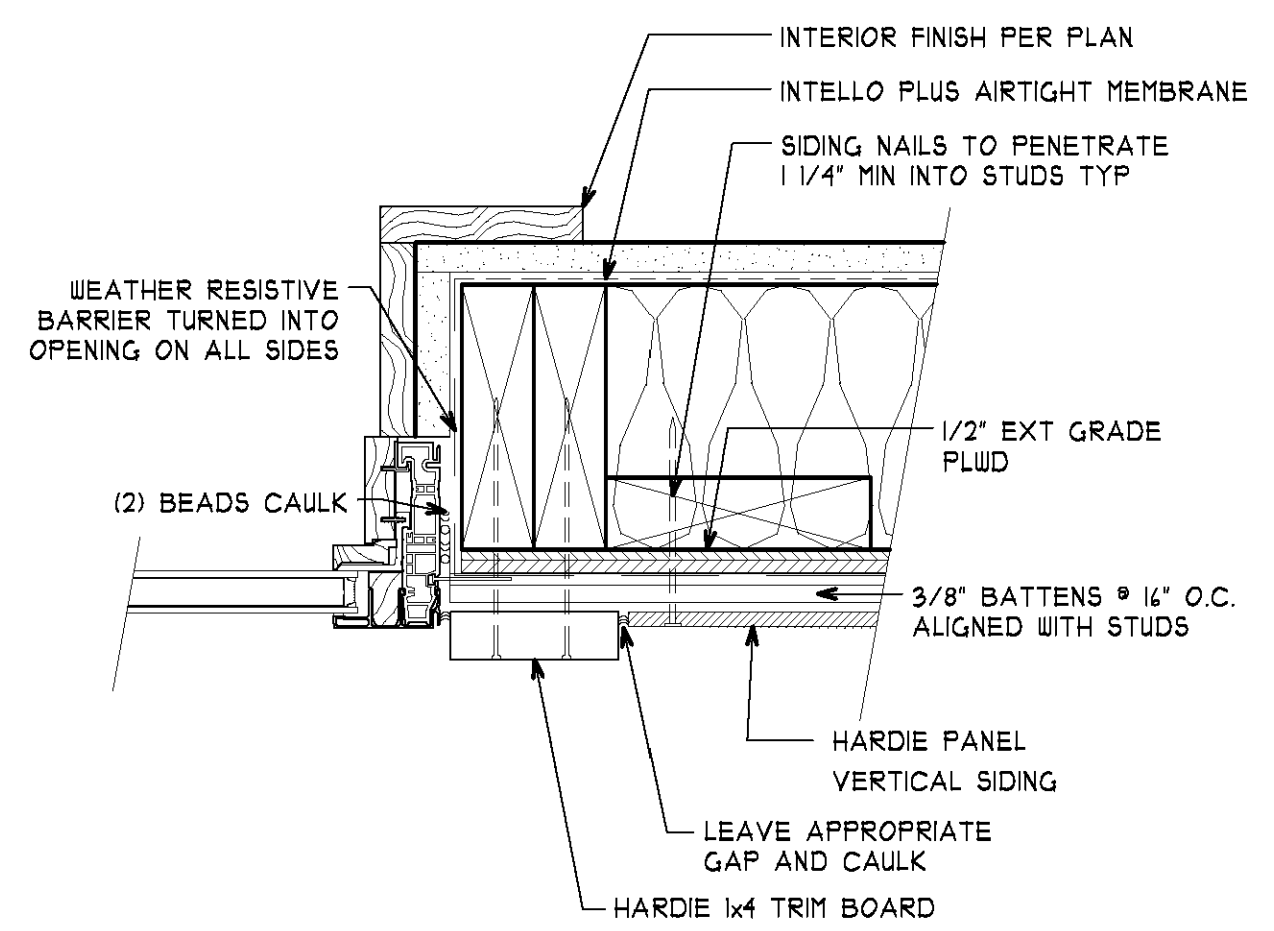
2 HARDI-WINDOW SILL TYP. DTL.
22x34 3" = 1'-0"
11x17 1-1/2" = 1'-0"



10 TYP. MTL. ROOF SEAM DTL.
NOT TO SCALE



6 HARDI-PANEL TYP. BOT. OF WALL CLEARANCE
22x34 3" = 1'-0"
11x17 1-1/2" = 1'-0"



3 HARDI-WINDOW JAMB TYP. DTL.
1/2" = 1'-0"
1/4" = 1'-0"

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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

WELCOME CENTER

DETAILS

A6.1



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SHEET 13 OF 40

SCALE AS NOTED
BID SET PARKS FILE#

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 2018 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	PARTITION LOAD	CONCENTRATED LOADS
ROOF	15 PSF	25 PSF		300#
OFFICE	40 PSF	50 PSF	+15 PSF	2,000#
ASSEMBLY	40 PSF	100 PSF		

(1) LIVE LOADS EXCEPT SNOW LOADS ARE REDUCED PER IBC SECTION 1607.10.

SNOW: (MINIMUM ROOF SNOW LOAD = 25 PSF)

Pg = 25 PSF = GROUND SNOW LOAD
 Pf = 0.7CeCt IsPg = FLAT ROOF SNOW LOAD
 Ps = CsPf = SLOPED ROOF SNOW LOAD
 Is = 1.0 Ce = 1.0, Ct = 1.0, Cs = VARIES

LATERAL FORCES

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

WIND:

THE BUILDING MEETS THE CRITERIA TO USE THE "ENCLOSED, PARTIALLY ENCLOSED AND OPEN BUILDING OF ALL HEIGHTS PROCEDURE" PER ASCE 7-16.

- EXPOSURE CATEGORY = C
- BASIC WIND SPEED, (3 SEC. GUST), VULT= 97 MPH
- RISK CATEGORY PER TABLE 1.5-1 = II
- TOPOGRAPHIC FACTOR Kzt = 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 3					
		ALL ZONES	1	2e	2n	2r	3e
10 SF	18.8	-34.5	-34.5	-37.9	-34.5	-46.5	-37.9
20 SF	16.7	-29.2	-29.2	-33.9	-29.2	-41.2	-33.9
50 SF	16.0	-22.3	-22.3	-28.6	-22.3	-34.2	-28.6
100 SF	16.0	-17.1	-17.1	-24.6	-17.1	-28.9	-24.6

WALL SURFACES 1				
EFFECTIVE WIND AREA	POSITIVE PRESSURE (PSF)		NEGATIVE PRESSURE (PSF)	
	ZONE 2			
	4	5	4	5
10 SF	20.5	20.5	-22.3	-27.5
20 SF	19.6	19.6	-21.4	-25.6
50 SF	18.4	18.4	-20.1	-23.2
100 SF	17.5	17.5	-19.2	-21.3
500 SF	16.0	16.0	-17.1	-17.1

ROOF OVERHANGS 1						
EFFECTIVE WIND AREA	NEGATIVE PRESSURE (PSF)					
	ZONE 3					
	1	2e	2n	2r	3e	3r
10 SF	-48.4	-48.4	-51.9	-48.4	-60.4	-51.9
20 SF	-43.1	-43.1	-47.8	-43.1	-55.1	-47.8
50 SF	-36.2	-36.2	-42.5	-36.2	-48.1	-42.5
100 SF	-31.0	-31.0	-38.5	-31.0	-42.9	-38.5
500 SF	-31.0	-31.0	-34.5	-31.0	-34.5	-34.5

- VALUES SHOWN IN TABLE ARE GROSS ULTIMATE WIND PRESSURES.
- WALL ZONES ARE AS DEFINED BY FIGURE 30.3-1 IN ASCE 7-16 IN LOW RISE BUILDINGS.
- ROOF ZONES ARE AS DEFINED BY FIGURES 30.3-2 THROUGH 30.3-7 IN ASCE 7-16 FOR LOW RISE BUILDINGS.

SEISMIC: (ASCE 7-16) V = CsW

WHERE Cs = $\frac{S_{Ds}}{R_{Te}}$; WITH

Cs MINIMUM = 0.044 S_{Ds}I_E ≥ 0.01
 OR
 Cs MINIMUM = $\frac{0.5S}{R_{Te}}$ FOR S_i > 0.6g

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

SEISMIC IMPORTANCE FACTOR, I_e = 1.0
 RISK CATEGORY OF BUILDING PER IBC TABLE 1604.5 = II
 SPECTRAL RESPONSE ACCELERATIONS S_s = 1.483 S_i = 0.521
 SITE CLASS PER TABLE 20.3-1 = D
 DESIGN SPECTRAL RESPONSE ACCELERATIONS S_{DS} = 0.989 & S_{D1} = 0.660
 SEISMIC DESIGN CATEGORY = D
 W = EFFECTIVE SEISMIC WEIGHT OF BUILDING = WELCOME CENTER 16.5K
 ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE PROCEDURE
 RESPONSE MODIFICATION FACTOR PER TABLE 12.2-1, R = 6.5
 Cs = 0.152
 DESIGN BASE SHEAR V = WELCOME CENTER 2.5K

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 (SOILS REPORT BY ASSOCIATED EARTH SCIENCES INCORPORATED DATED SEPTEMBER 30, 2019 AND ADDENDUM LETTER DATED MAY 5, 2021).

SOIL BEARING PRESSURE: 2500 PSF

ACTIVE PRESSURE - RESTRAINED: 50 PCF +14H SEISMIC SURCHARGE
 ACTIVE PRESSURE - UNRESTRAINED: 35 PCF +6H SEISMIC SURCHARGE
 PASSIVE RESISTANCE: 200 PCF (INCLUDES F.O.S. ≥ 1.5)
 COEFFICIENT OF FRICTION: .35 (INCLUDES F.O.S. ≥ 1.5)
 *1/3 INCREASE ALLOWED FOR SEISMIC OR WIND LOADING

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

FREE DRAINING BACKFILL MATERIAL FOR RETAINING & BASEMENT WALLS

A CLEAN, FREE DRAINING, WELL GRADED GRANULAR MATERIAL CONFORMING TO ASTM D2487 GW OR SW WHOSE MAXIMUM PARTICLE SIZE DOES NOT EXCEED 3/4" AND WHOSE FINES CONTENT (MATERIAL PASSING THE NO. 200 SIEVE) DOES NOT EXCEED 5%.

WITH A MAXIMUM DUST RATIO
 % PASSING U.S. NO. 200 SIEVE = 2/3 MAX.
 % PASSING U.S. NO. 40 SIEVE

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%.

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

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

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

WATER: SHALL BE CLEAN AND POTABLE.

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

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

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

ITEM	DESIGN F _c (PSI) (AT 28 DAYS U.N.O.)	MAX. W/C RATIO	MIN. FLYASH OR SLAG (PCY)	AGGREGATE GRADING ASTM AASHTO	NOTES
SLAB ON GRADE - EXPOSED TO WEATHER	5000	0.40	100	57 OR 67	1
SLABS ON GRADE - UNO	4000	0.45	100	57 OR 67	1
ARCHITECTURALLY EXPOSED SLABS ON GRADE	4000	0.45	100	57 OR 67	1, 2, 3
FOUNDATIONS - UNO	3000	0.50	--	57 OR 67	
STEM WALLS AND OTHER WALLS EXPOSED TO EARTH OR WEATHER	4500	0.45	100	57 OR 67	
STEM WALLS AND OTHER WALLS - UNO	4000	0.50	100	57 OR 67	
ALL OTHER CONCRETE	4000	0.50	--	57 OR 67	

CONCRETE MIX NOTES:

- FIBROUS CONCRETE REINFORCEMENT SHALL BE "FIBERMESH" MANUFACTURED BY PROPEX CONCRETE SYSTEMS OR PRE-APPROVED EQUAL AND SHALL CONFORM TO ASTM C1116 TYPE III 4.1.3, PERFORMANCE LEVEL 1, AND SHALL BE 100 PERCENT VIRGIN POLYPROPYLENE, FIBRILLATED FIBERS CONTAINING NO REPROCESSED OLEFIN MATERIALS AND SPECIFICALLY MANUFACTURED FOR USE AS CONCRETE SECONDARY REINFORCEMENT. DOSAGE SHALL FOLLOW MANUFACTURER'S RECOMMENDATION BUT NOT LESS THAN 1.5 LB/CU. YD.
- MAXIMUM WATER CONTENT 240 PCY.
- 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.

STRUCTURAL DRAWING INDEX	
SHEET NUMBER	SHEET DESCRIPTION
S0.01	GENERAL NOTES
S0.02	GENERAL NOTES
S0.03	GENERAL NOTES
S0.04	GENERAL NOTES
S0.05	GENERAL NOTES
S2.00	FOUNDATION PLAN
S2.20	ROOF FRAMING PLAN
S3.01	FOUNDATION DETAILS
S3.02	FOUNDATION DETAILS
S3.03	FOUNDATION DETAILS
S4.01	FRAMING DETAILS
S4.02	FRAMING DETAILS
S4.03	FRAMING DETAILS
S4.04	FRAMING DETAILS
S4.05	ROOF FRAMING DETAILS
S4.08	ROOF FRAMING DETAILS
S5.04	TRUSS ELEVATION AND DETAILS
Grand total:	17



SHEET 14 of 40

BID SET

CAD NO.		
	DATE	
	APP.	
	INT.	
	REVISIONS	
	NO.	

ACTION	BY	DATE
DESIGNED	JJP	NOV. 2023
DRAWN	TNM	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

WELCOME CENTER

GENERAL NOTES

S0.01

SCALE

N/A

PARKS FILE#

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.

FORMED SURFACES:

FORMWORK CLASS OF SURFACE PER ACI 347 TABLE 3.1	
ITEM	CLASS OF FINISH
ALL SURFACES EXPOSED TO PUBLIC VIEW, U.N.O.	A
ALL SURFACES RECEIVING A COURSE TEXTURED COATING SUCH AS PLASTER OR STUCCO, UNLESS NOTED OTHERWISE	B
ALL OTHER SURFACES, UNLESS NOTED OTHERWISE	C

COLD WEATHER PLACEMENT:

- 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."
- NO CONCRETE SHALL BE PLACED ON FROZEN OR PARTIALLY FROZEN GROUND. THAWING THE GROUND WITH HEATERS IS PERMISSIBLE.
- CONCRETE MIX TEMPERATURES SHALL BE AS SHOWN BELOW. HEATING OF WATER AND/OR AGGREGATES MAY BE REQUIRED TO ATTAIN THESE TEMPERATURES.
- 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.
- 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. 0° TO 30° F. BELOW 0° F.	60° 65° 70°	55° 60° 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°

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 0.2 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:

- LIMITING CONCRETE TEMPERATURE TO 100°F AT TIME OF PLACEMENT.
- APPLICATION OF AN EVAPORATION RETARDER.
- USE OF FOG SPRAY.
- REDUCTION OF POUR SIZE.
- 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 5 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:

- 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.
- BONDING AGENT: WHERE BONDING AGENT IS SPECIFICALLY CALLED OUT ON THE STRUCTURAL DRAWINGS USE "WELD CRETE" BY LARSON PRODUCTS CORPORATION OR PRE-APPROVED EQUAL. FOLLOW ALL MANUFACTURERS RECOMMENDATIONS.

EMBEDDED ITEMS

- NO ALUMINUM ITEMS SHALL BE EMBEDDED IN ANY CONCRETE.
- ALL EMBED PLATES SHALL BE SECURELY FASTENED IN PLACE.
- ALL EMBEDDED STEEL ITEMS EXPOSED TO EARTH SHALL BE GALVANIZED.
- ALL EMBEDDED STEEL ITEMS EXPOSED TO WEATHER SHALL BE PAINTED UNLESS NOTED AS GALVANIZED. SEE DRAWINGS AND SPECIFICATIONS FOR PAINT, PRIMER, AND GALVANIZING REQUIREMENTS.

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
ALL OTHER SLABS	1, (3 OR 4 OR 5)
FORMED SURFACES EXCLUDING FOUNDATIONS	2
ALL OTHER CONCRETE	NONE

CONCRETE CURING NOTES:

- 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.
- APPLY A LIQUID MEMBRANE FORMING CURING COMPOUND, CONFORMING TO ASTM C309 TYPE 1 CLASS B SPECIFICATIONS, PER MANUFACTURER'S RECOMMENDATIONS TO ALL FORMED SURFACES IMMEDIATELY AFTER FINAL FORM REMOVAL. NOT REQUIRED IF FORMWORK REMAINS IN PLACE FOR MORE THAN 7 DAYS.
- PROVIDE PRE-APPROVED CONTINUOUS WET CURE METHOD FOR A MINIMUM OF 14 DAYS.
- 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.
- 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.

WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A185. LAP ONE FULL MESH ON SIDES AND ENDS BUT NOT LESS THAN 8 INCHES. WELDED WIRE REINFORCING SHALL BE SUPPORTED TO WITHSTAND CONCRETE PLACEMENT. PULLING OF MESH INTO PLACE AFTER PLACEMENT IS NOT ALLOWED.

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"
#9	7'-6"	5'-10"	5'-10"	4'-6"	1'-9"
#10	8'-6"	6'-6"	6'-6"	5'-0"	2'-0"
#11	9'-5"	7'-3"	7'-3"	5'-7"	2'-3"

SPLICE TABLE NOTES:

- "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"

STRUCTURAL STEEL

DETAILING, FABRICATION AND ERECTION

ALL WORKMANSHIP SHALL CONFORM TO THE AISC MANUAL OF STEEL CONSTRUCTION, 14TH EDITION, THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS JUNE 22, 2010, THE AISC CODE OF STANDARD PRACTICE, APRIL 14, 2010 AND THE AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS, JUNE 22, 2010.

STEEL MEMBERS ARE EQUALLY SPACED BETWEEN COLUMNS AND/OR DIMENSION POINTS UNLESS NOTED OTHERWISE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDES AND JOINT PREPARATIONS THAT INCLUDE BUT ARE NOT LIMITED TO, ERECTION ANGLES, LIFT HOLES, AND OTHER AIDES, WELDING PROCEDURES, REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, WELD EXTENSION TABS, COPES, SURFACE ROUGHNESS VALUES AND TAPERS OF UNEQUAL PARTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLIANCE WITH ALL CURRENT OSHA REQUIREMENTS.

HOLES, COPES OR OTHER CUTS OR MODIFICATIONS OF THE STRUCTURAL STEEL MEMBERS SHALL NOT BE MADE IN THE FIELD WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.

MATERIAL PROPERTIES

OTHER SHAPES AND PLATES: ASTM A36 (Fy = 36 KSI) TYP. U.N.O.; ASTM A572 (Fy = 50 KSI) WHERE INDICATED

HOLLOW STRUCTURAL SECTIONS: RECTANGULAR & SQUARE - ASTM A500 GRADE B (Fy = 46 KSI) ROUND - ASTM A500 GRADE B (Fy = 42 KSI)

MACHINE BOLTS (M.B.): ASTM A307, GRADE A

ANCHOR BOLTS (A.B.): ASTM F1554, GRADE 55, UNLESS OTHERWISE NOTED, ASTM F1554, GRADE 105 WHERE INDICATED.

CAD NO.

DATE
APP.
INT.
REVISIONS
NO.

ACTION	BY	DATE
DESIGNED	JJP	NOV. 2023
DRAWN	TNM	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

WELCOME CENTER

GENERAL NOTES

S0.02

SCALE

N/A



SHEET 15 of 40

BID SET

PARKS FILE#

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
CL	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 ø	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.SHT'G	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.S.	FACE OF STUD	T.O.F.	TOP OF FOOTING
FRM'G	FRAMING	T.O.S.	TOP OF STEEL
F.R.T.	FIRE RETARDANT TREATED	TRT'D	TREATED
F.S.	FAR SIDE	TYP.	TYPICAL
FTG	FOOTING	U.N.O.	UNLESS NOTED OTHERWISE
GA.	GAGE/GAUGE	U.T.	ULTRASONIC TESTED
GALV.	GALVANIZED	VERT.	VERTICAL
GL.	GLULAM	W/	WITH
GR.	GRADE	W.P.	WORK POINT
GWB	GYPSTUM WALL BOARD	WT	WEIGHT
HDR	HEADER	W.W.R.	WELDED WIRE REINFORCING

CAD NO.

		DATE
		APP.
		INT.
		REVISIONS
		NO.

ACTION	BY	DATE
DESIGNED	JJP	NOV. 2023
DRAWN	TNM	NOV. 2023
CHECKED (FIELD)		
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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

WELCOME CENTER

GENERAL NOTES

S0.05

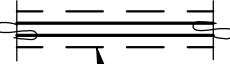






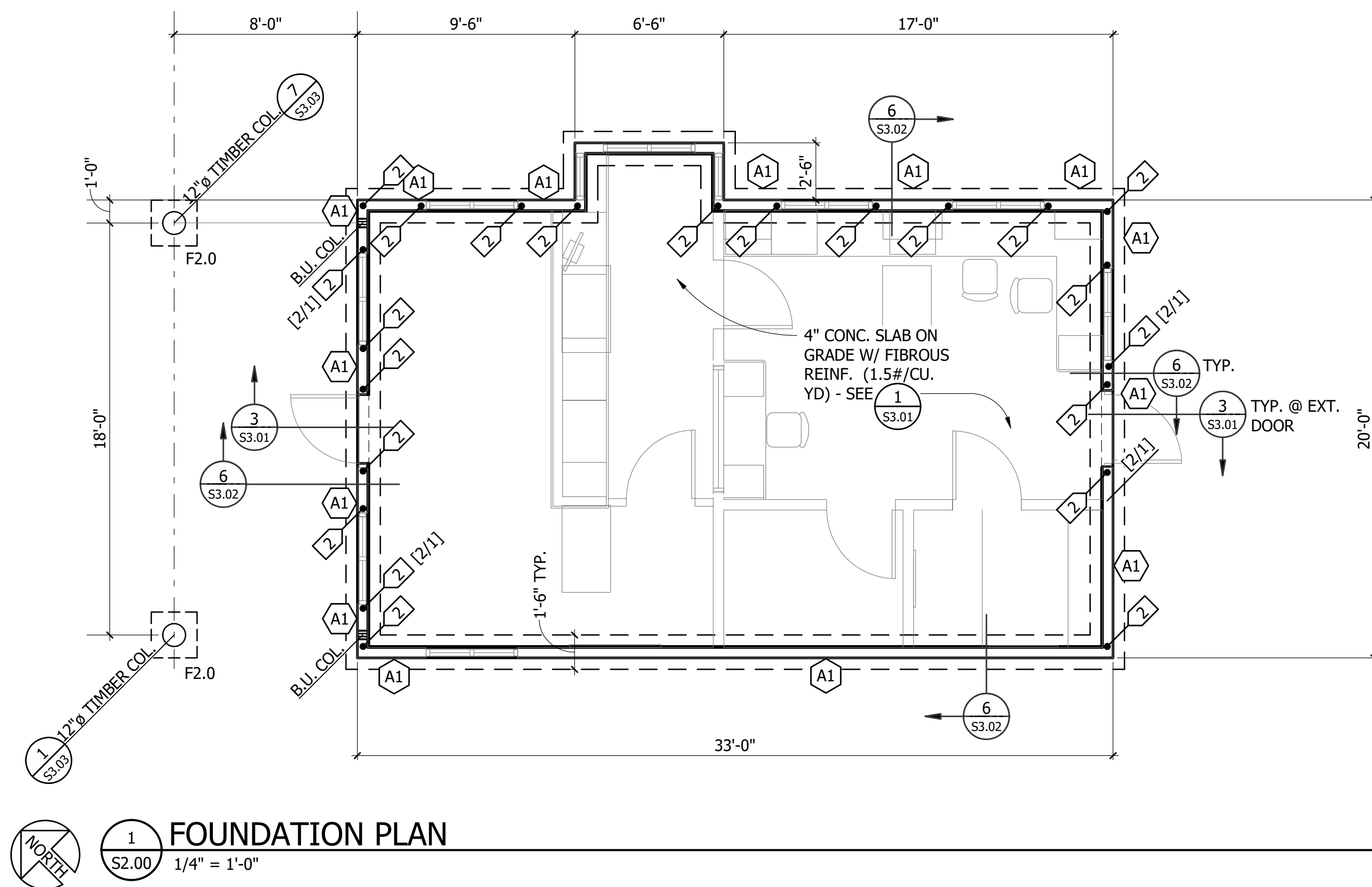
SHEET 18 of 40


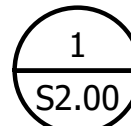
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PARKS FILE#	

BID SET

FOUNDATION NOTES

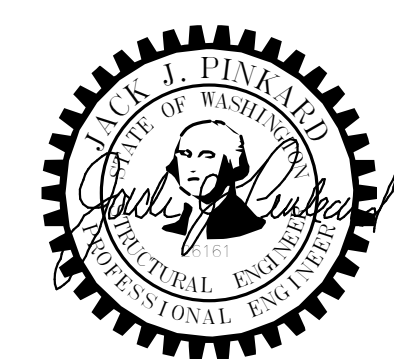
1. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. FINISH FLOOR = 0'-0" ABOVE FINISH FLOOR UNLESS NOTED OTHERWISE.
2.  INDICATES WOOD STUD WALL. WOOD STUDS SHOULD BE SPACED @ 16" ON CENTER MAXIMUM UNLESS NOTED OTHERWISE. PROVIDE 15/32" WOOD SHEATHING AT ALL EXTERIOR WALLS NAILED WITH 8d @ 6" ON CENTER AT ALL PANEL EDGES (PROVIDE 2x BLOCKING AT UNSUPPORTED PANEL EDGES) AND 8d @ 12" ON CENTER AT INTERMEDIATE FRAMING TYPICAL UNLESS NOTED OTHERWISE.
3.  INDICATES CONCRETE WALL FOOTING 1'-6" UNLESS NOTED OTHERWISE. FOR TYPICAL FOOTING DETAILS - SEE S3.01 AND S3.02.
4. "F_" INDICATES CONCRETE SPREAD FOOTING. SEE 7/S3.02 FOR SCHEDULE.
5.  INDICATES WOOD STUD BUILT-UP COLUMN. SEE 4/S4.01 FOR TYPICAL DETAIL.
6. [] INDICATES SPECIAL BUILT-UP WOOD STUD COLUMN REQUIREMENTS UNDER HEADER. FOR TYPICAL FRAMING REQUIREMENTS AT OPENING IN STRUCTURAL WALLS SEE S4.01 FOR TYPICAL DETAIL.
7.  INDICATES SPECIAL WOOD STUD WALL TYPE. SEE 3/S4.01 FOR SCHEDULE.
8.  INDICATES HOLDOWN. SEE 1/S4.03 FOR SCHEDULE.
9. FOR TYPICAL CONCRETE SLAB-ON-GRADE DETAILS SEE S3.01 AND S3.02
10. FOR TYPICAL PLACEMENT OF STEM WALL REINFORCEMENT, STEPS IN FOOTING AND FOUNDATION CONSTRUCTION JOINTS SEE 3/S3.02, 1/S3.02 & 5/S3.02.
11. FOR TYPICAL EXCAVATION LIMITATIONS IN THE PROXIMITY OF FOUNDATIONS SEE DETAIL 2/S3.02.
12. FOR TYPICAL VERTICAL PIPE PENETRATIONS IN STEM WALLS SEE 5/S4.02.
13. NON-STRUCTURAL STUD WALLS ARE NOT SHOWN OR SHOWN SCREENED. FOR LOCATION SEE ARCHITECTURAL DRAWINGS. FOR BRACING AT TOPS OF WALLS SEE S4.04.
6. [] INDICATES SPECIAL BUILT-UP WOOD STUD COLUMN REQUIREMENTS UNDER HEADER. FOR TYPICAL FRAMING REQUIREMENTS AT OPENING IN STRUCTURAL WALLS SEE S4.01 FOR TYPICAL DETAIL.



  **FOUNDATION PLAN**
1/S2.00 1/4" = 1'-0"

CAD NO.	
	DATE
	APP.
	INT.
	REVISIONS
	NO.

ACTION	BY	DATE
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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

WELCOME CENTER

FOUNDATION PLAN

S2.00





SHEET 19 of 40

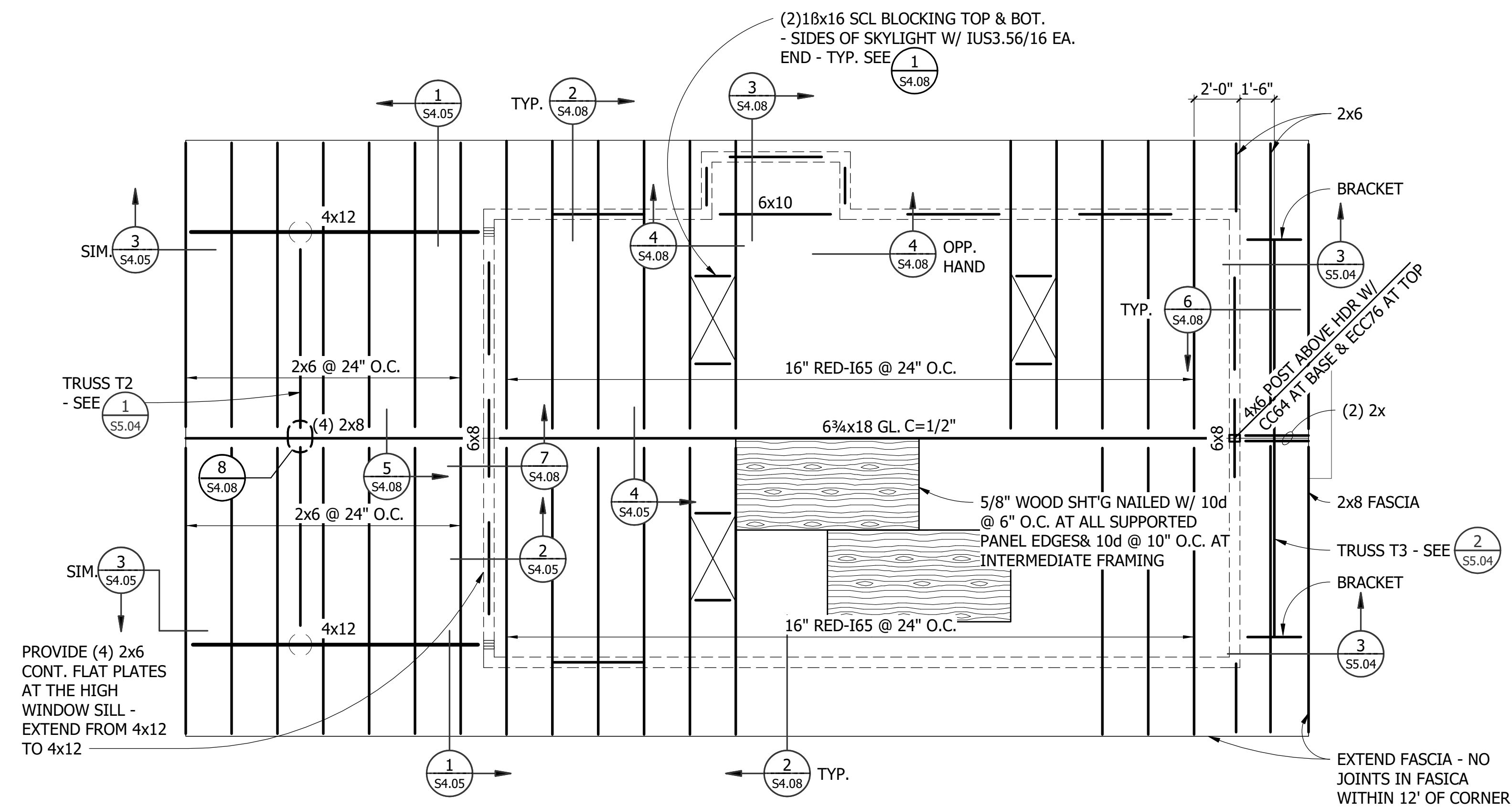
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BID SET	PARKS FILE#


C:_Revit Models\190116 Kopachuck St Park - Welcome Center v2018 (Central)_DanH_PCS.rvt

11/13/2023 1:03:50 PM

ROOF FRAMING NOTES

- COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
-  INDICATES WALL EXTENDING TO ROOF STRUCTURE.
-  INDICATES TYPICAL HEADER IN WALL BELOW. SEE 1/S4.01.
- PROVIDE 5/8" WOOD SHEATHING WITH PLYCLIPS 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.
- FOR SUPPORT OF MISCELLANEOUS MECHANICAL EQUIPMENT AND PIPES FROM ROOF STRUCTURE SEE S4.04.



 **1** ROOF FRAMING PLAN
S2.20 1/4" = 1'-0"

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KOPACHUCK STATE PARK

WELCOME CENTER

ROOF FRAMING PLAN

S2.20

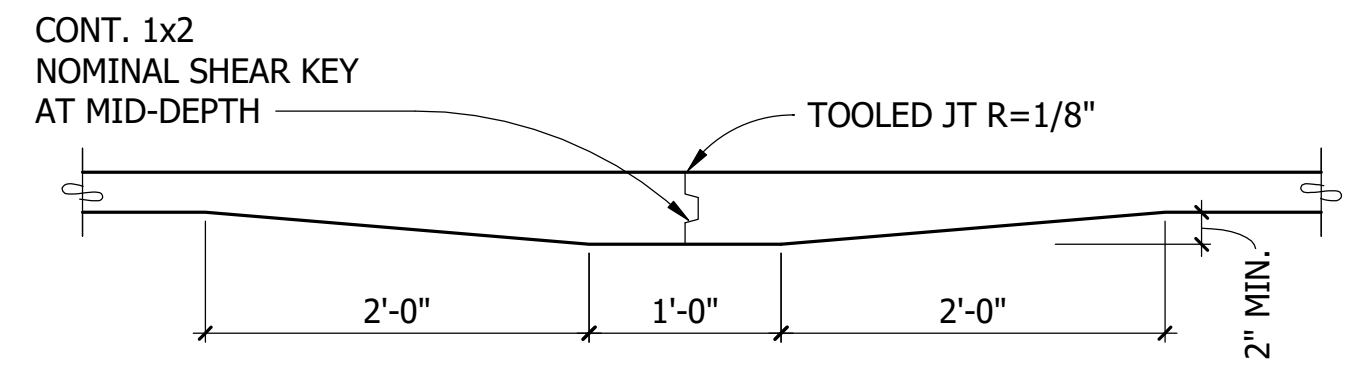
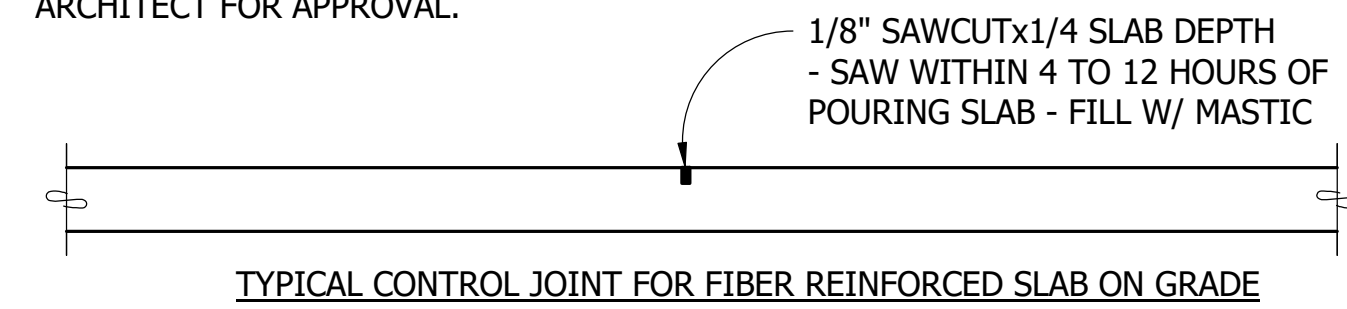
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SHEET 20 of 40

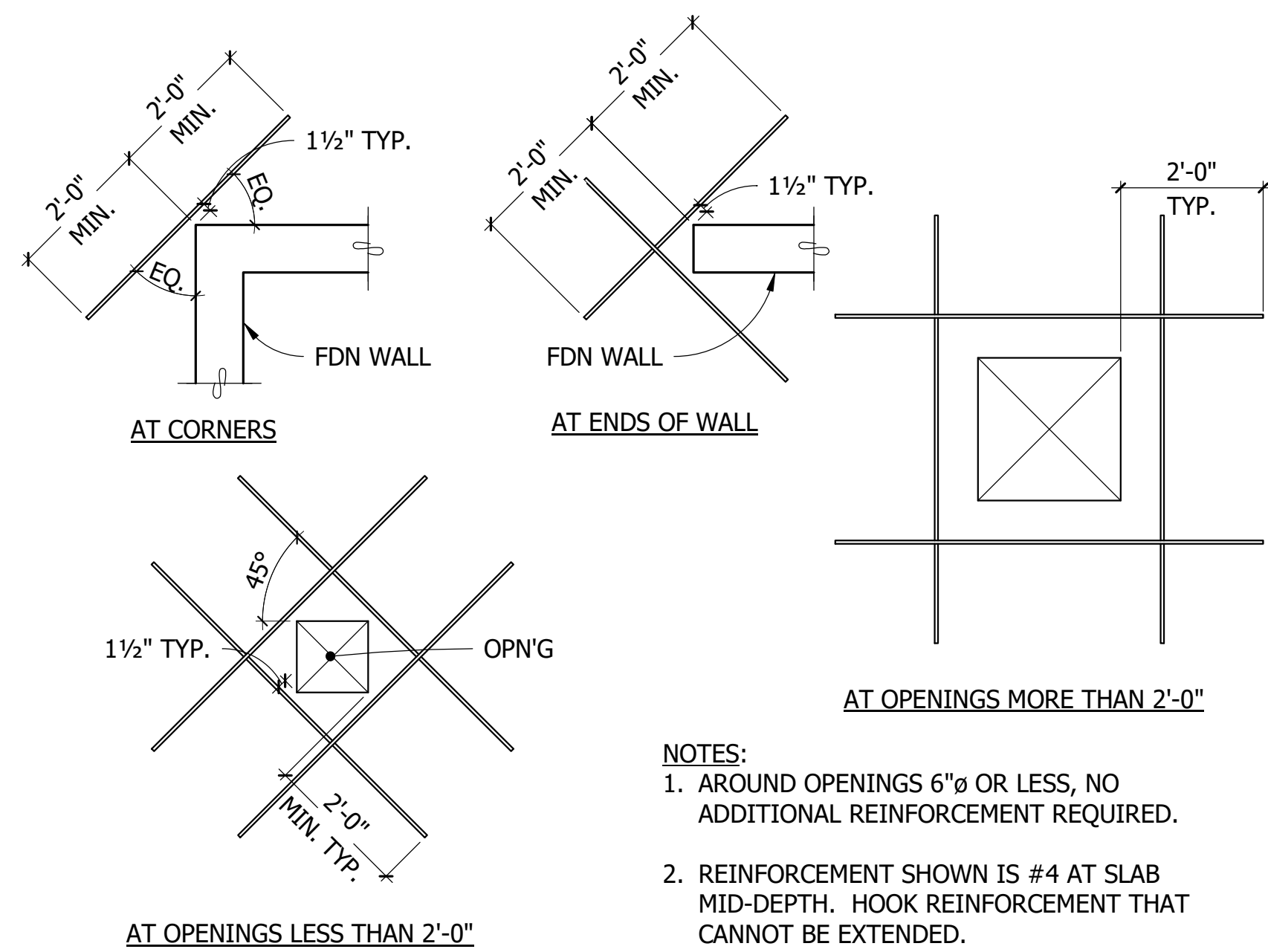
BID SET PARKS FILE#

NOTE:
LOCATE JOINT'S AT NON-BEARING WALLS
WHERE POSSIBLE - SUBMIT PATTERN TO
ARCHITECT FOR APPROVAL.



TYPICAL CONSTRUCTION JOINT FOR FIBER REINFORCED SLAB ON GRADE

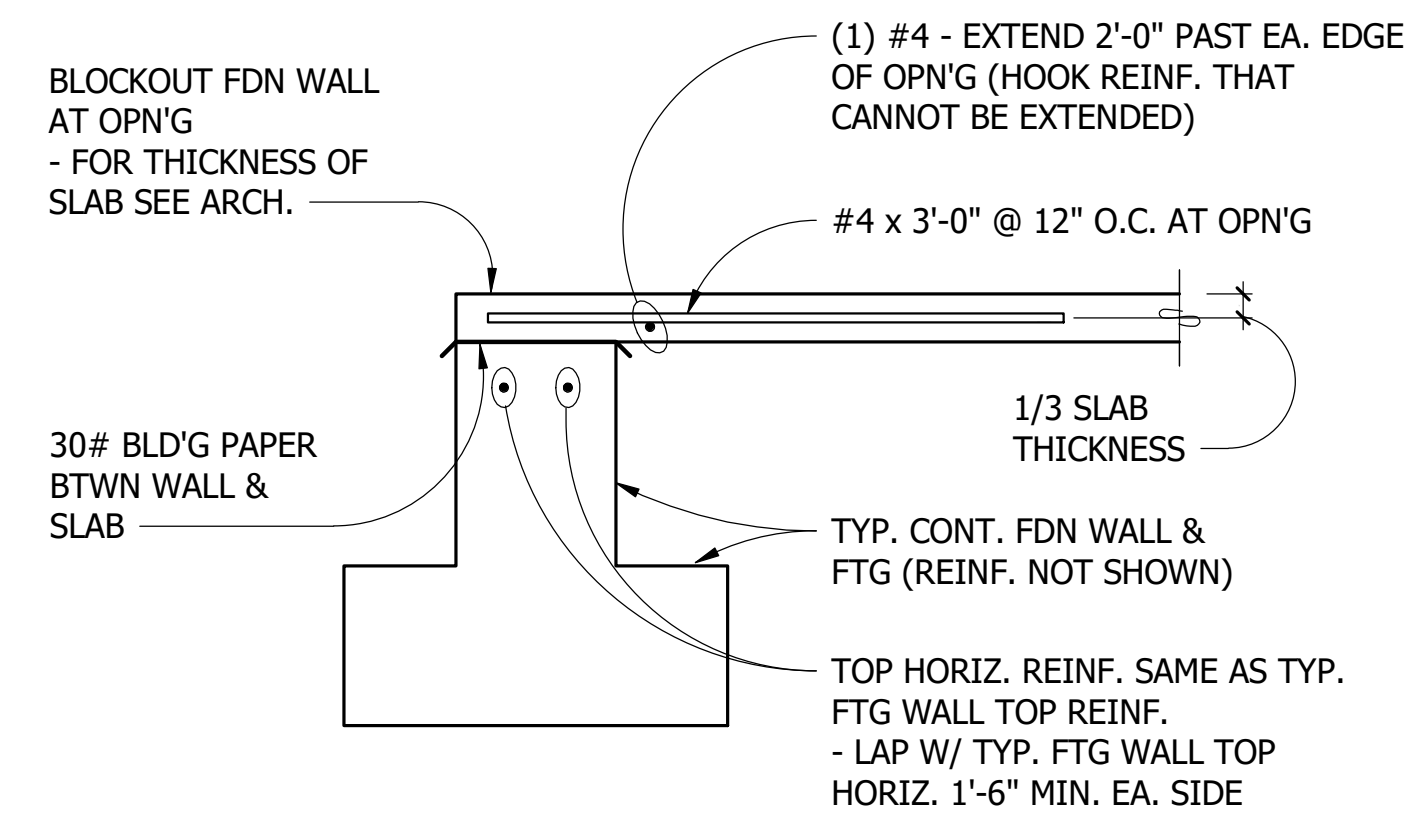
1 SECTION
S3.01 NO SCALE



- 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

4 SECTION
S3.01 NO SCALE



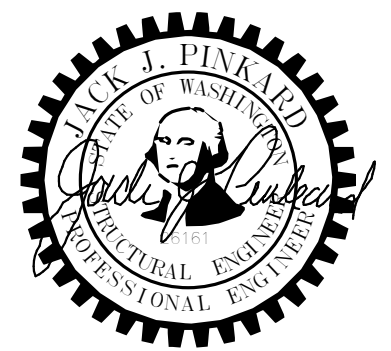
TYPICAL FIBER REINFORCED SLAB AT EXTERIOR OPENING

3 SECTION
S3.01 NO SCALE

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

WELCOME CENTER

FOUNDATION DETAILS

S3.01

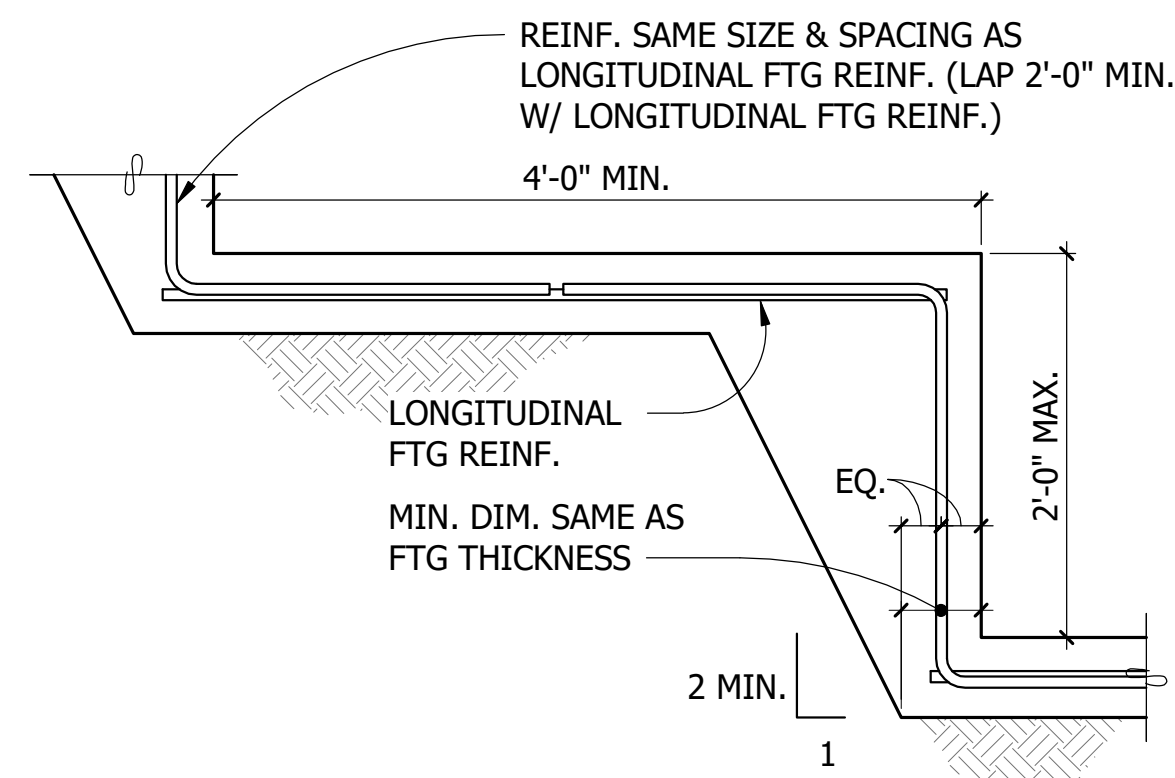
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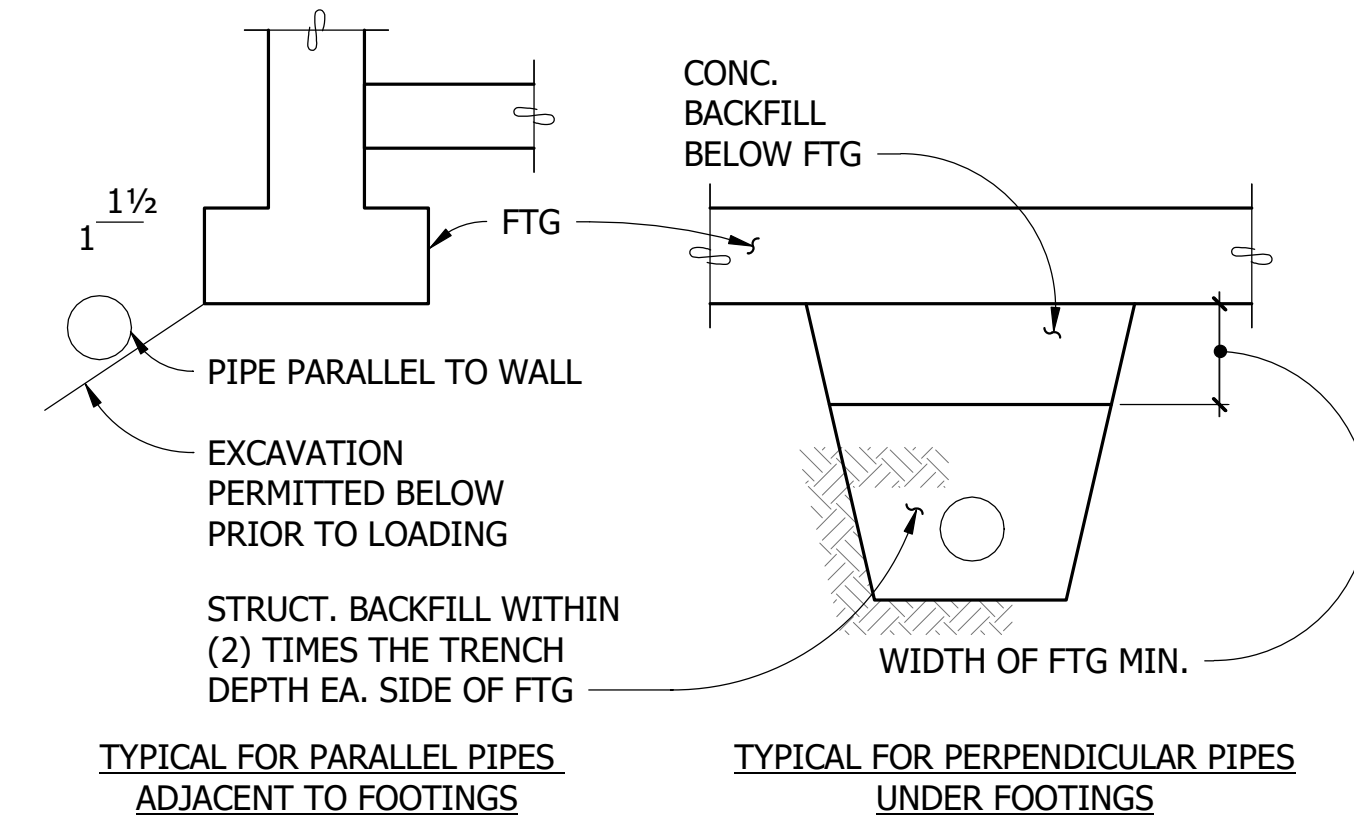


SHEET 21 of 40

BID SET PARKS FILE#



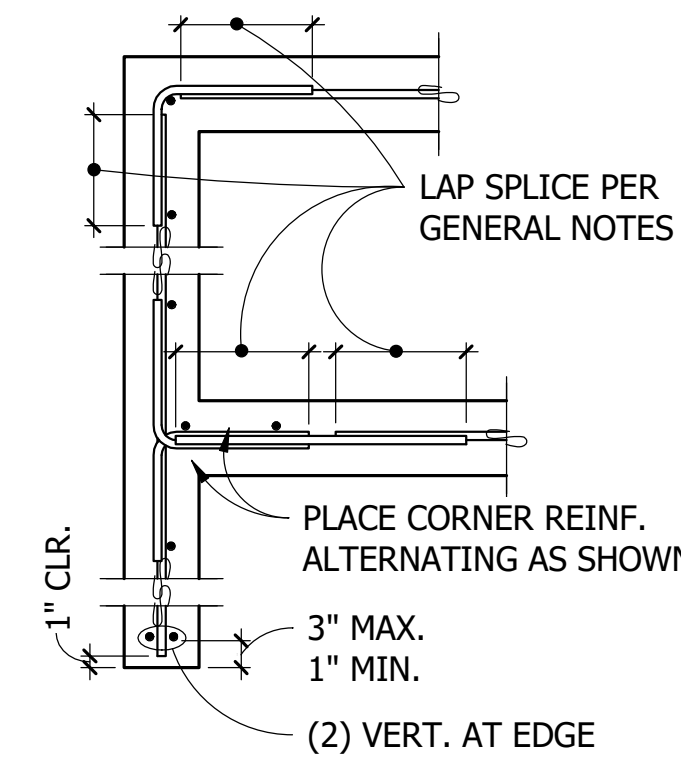
1 SECTION
S3.02 NO SCALE



2 SECTION
S3.02 NO SCALE

NOTES:

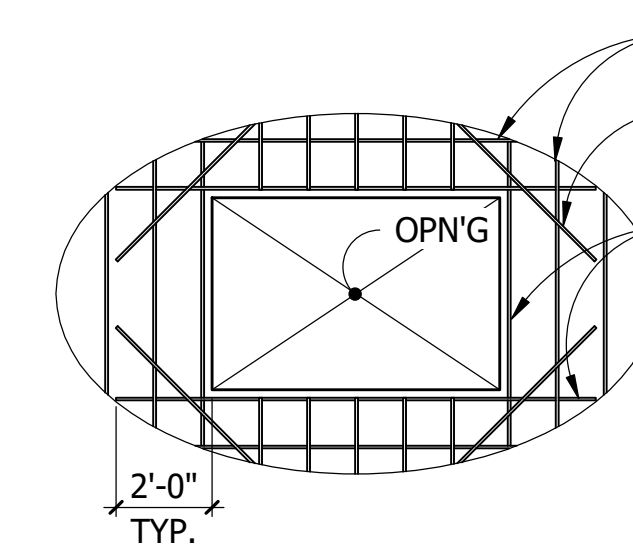
- FOUNDATIONS SHALL NOT BE LOADED PRIOR TO COMPLETING STRUCTURAL BACKFILL UNDER AND NEAR FOOTINGS.
- CONCRETE BACKFILL SHALL BE USED UNDER FOOTINGS WHERE 95% COMPACTION CANNOT BE ACCOMPLISHED.
- ALL STRUCTURAL BACKFILL NOTED SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY PER ASTM.
- A PIPE SLEEVE SHALL BE PROVIDED FOR SHALLOW PIPES CAST IN CONCRETE.
- PIPES SHALL NOT BE PLACED IN THE FOOTING WITHOUT SPECIFIC APPROVAL FROM THE ENGINEER.
- FOR VARIATIONS CONTACT ENGINEER.



3 SECTION
S3.02 NO SCALE

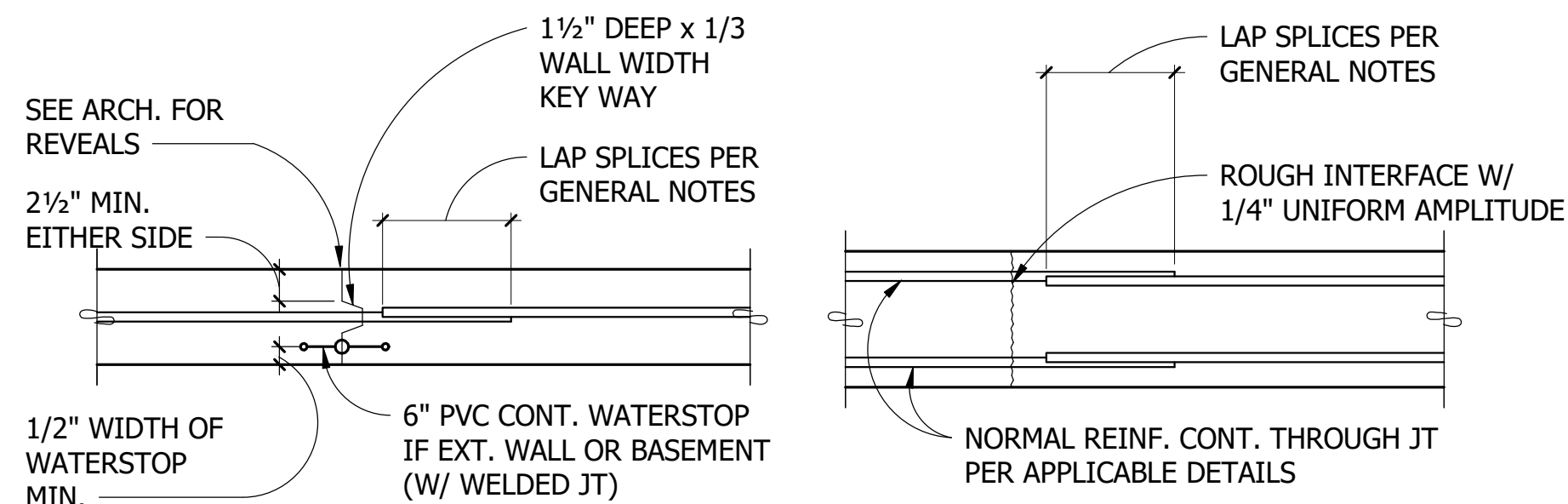
NOTES:

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



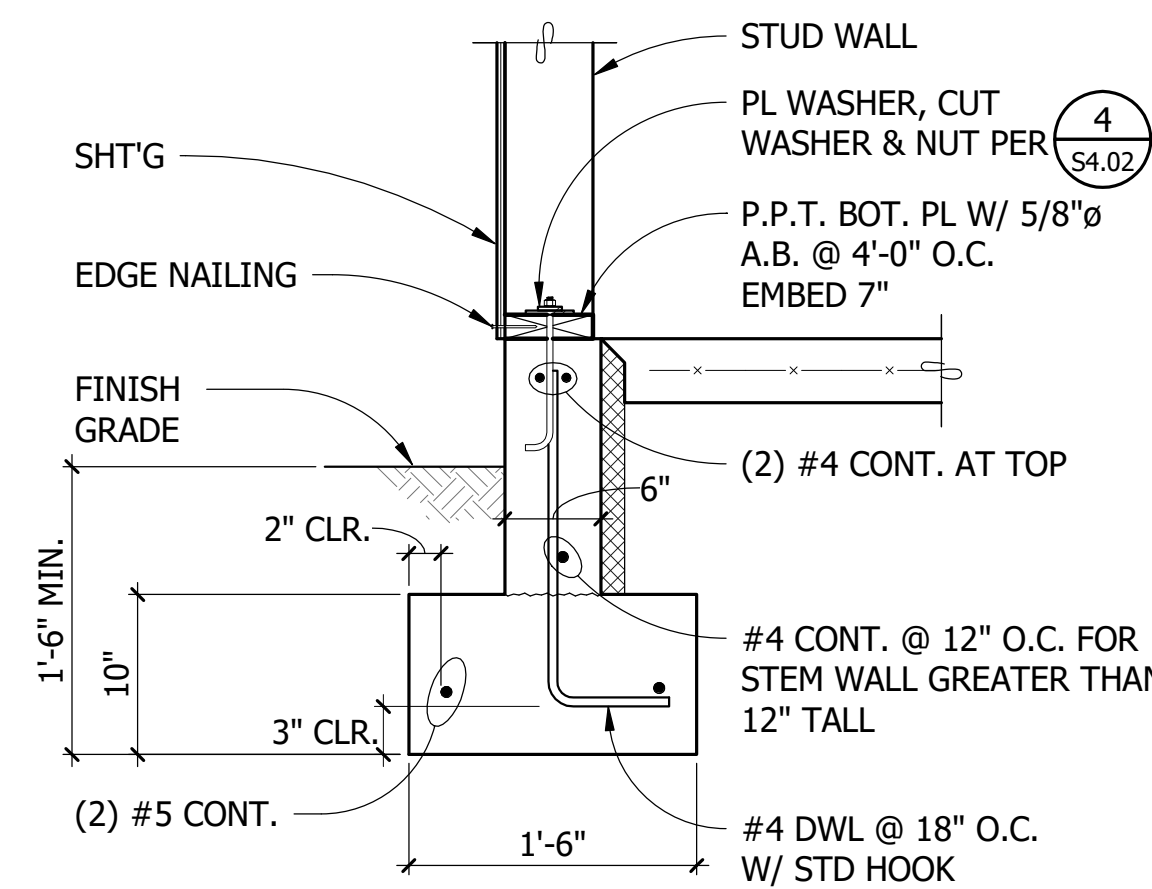
4 SECTION
S3.02 NO SCALE

NOTE: OBTAIN APPROVAL OF ENGINEER FOR LOCATION OF ANY CONSTRUCTION JOINT



5 SECTION
S3.02 NO SCALE

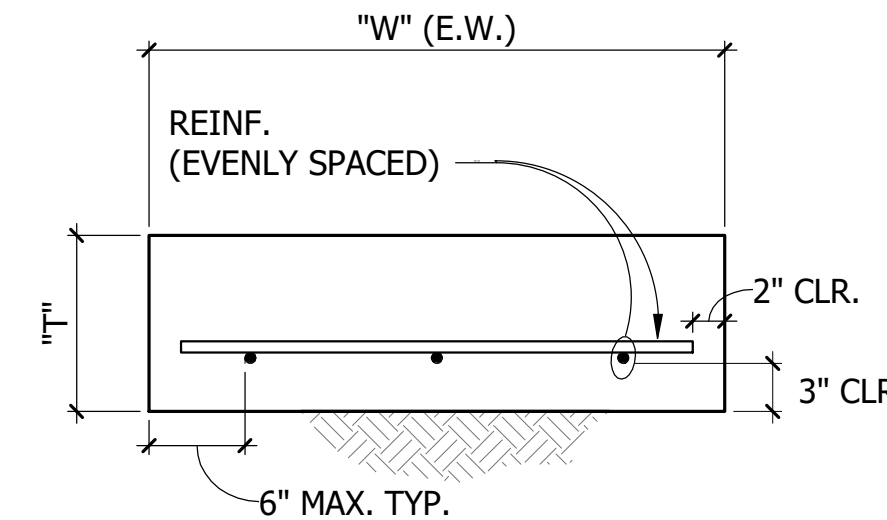
TYPICAL AT VERTICAL WALL JOINTS
TYPICAL FOR CAST IN PLACE CONCRETE WALLS, GRADE BEAMS AND FOOTINGS



6 SECTION
S3.02 NO SCALE

TYPICAL FOUNDATION AT EXTERIOR STUD WALL

MARK	DIMENSIONS		REINFORCEMENT EACH WAY
	"W"	"T"	
F2.0	2'-0"	11"	(3) #4



7 SECTION
S3.02 NO SCALE

NOTES:

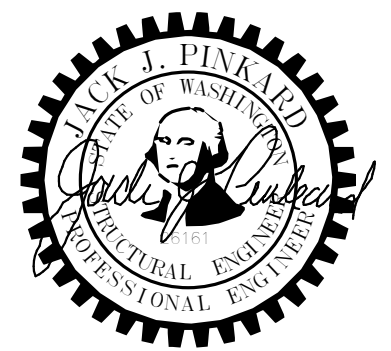
- CENTER ALL FOOTINGS ON COLUMN ABOVE EXCEPT AS SHOWN OTHERWISE.
- FOOTINGS SHALL BEAR ON UNDISTURBED OR COMPACTED MATERIAL PER GENERAL NOTES. DESIGN BEARING PRESSURE IS 2500 POUNDS PER SQUARE FOOT.

TYPICAL CONCRETE SPREAD FOOTING

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

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DESIGNED	JJP	NOV. 2023
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PROJECT ENGINEER

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KOPACHUCK STATE PARK

WELCOME CENTER

FOUNDATION DETAILS

S3.02

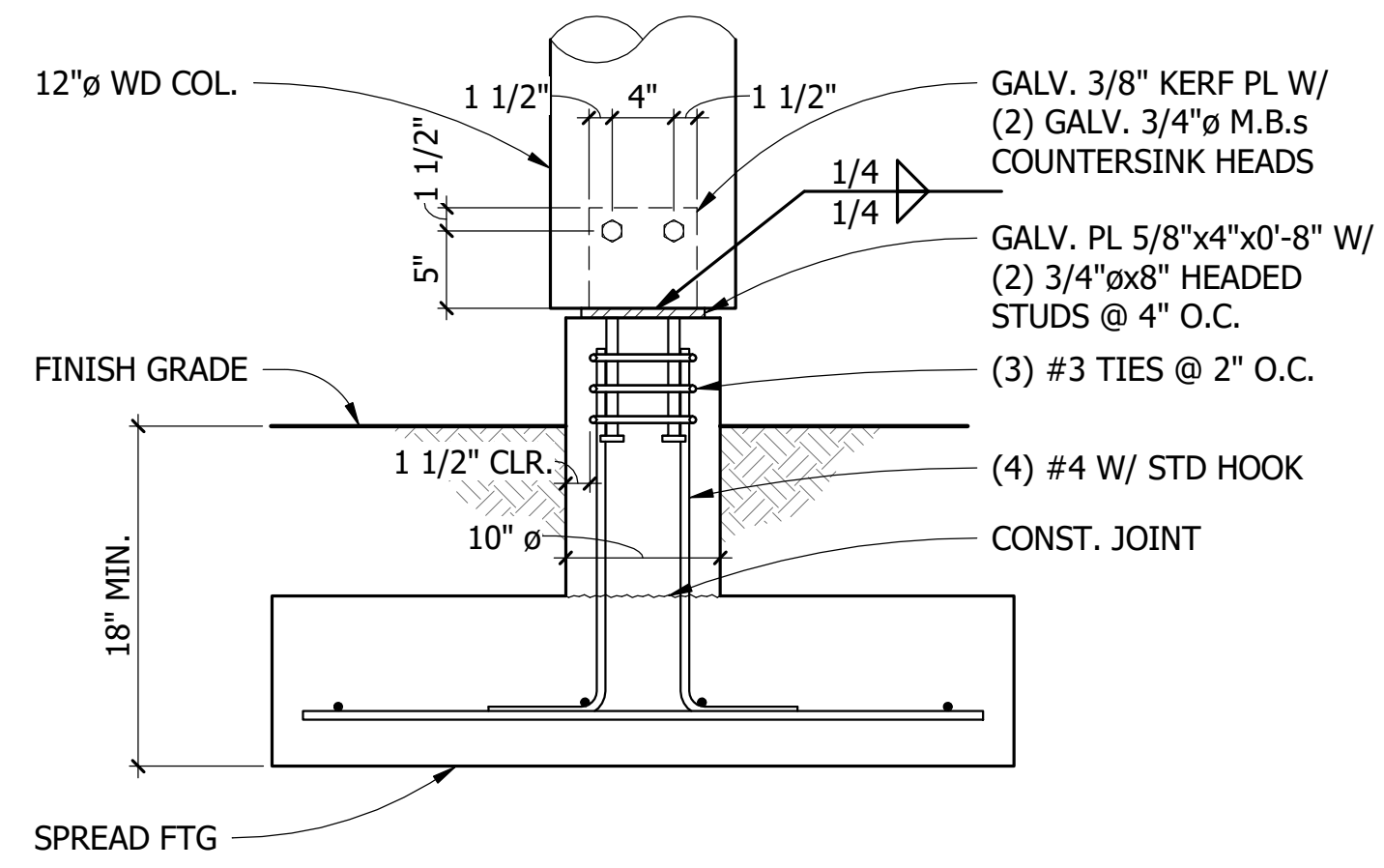
SCALE

AS NOTED



SHEET 22 of 40

BID SET PARKS FILE#



1 SECTION
S3.03 1" = 1'-0"

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

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COMMISSION



KOPACHUCK
STATE PARK

WELCOME
CENTER

FOUNDATION DETAILS

S3.03

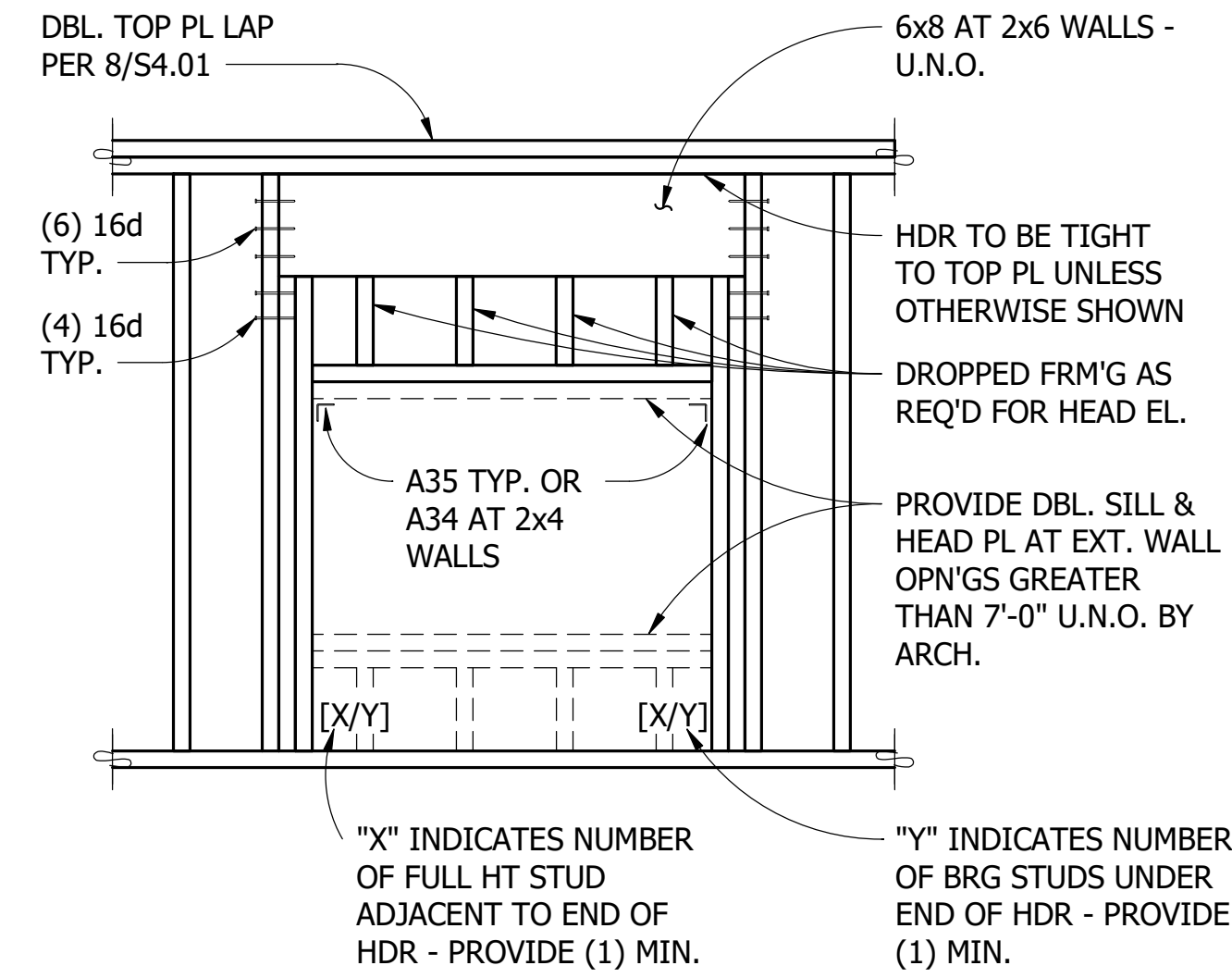


SCALE

AS NOTED

SHEET 23 of 40

BID SET PARKS FILE#



TYPICAL STUD WALL CONSTRUCTION AT HEADER

1 SECTION
S4.01 NO SCALE

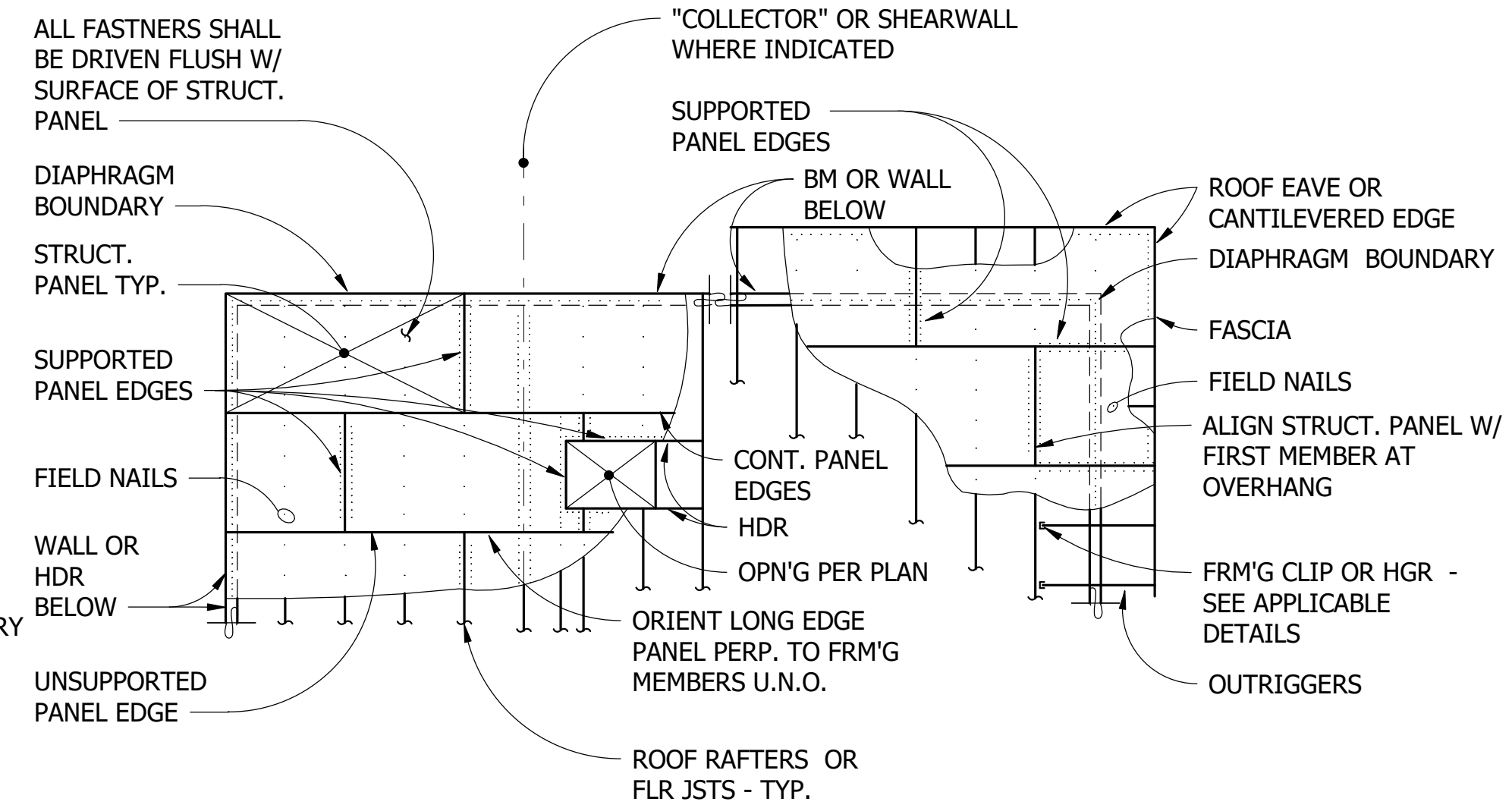
DIAPHRAGM NAILING SCHEDULE			
DIAPHRAGM TYPE	LOCATION	NAILS	SPACING
FLOOR DIAPHRAGM 23/32" TONGUE AND GROOVE SHEATHING UNBLOCKED UNLESS NOTED OTHERWISE	DIAPHRAGM BOUNDARY	10d	6" O.C.
	FIELD NAILS	10d	12" O.C.
ROOF DIAPHRAGM 19/32" SHEATHING UNBLOCKED UNLESS NOTED OTHERWISE	DIAPHRAGM BOUNDARY	10d	6" O.C.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

NOTES:

- PROVIDE (2) ROWS OF SPECIFIED DIAPHRAGM BOUNDARY NAILING OVER INTERIOR SHEAR WALLS AND THE FULL LENGTH OF "COLLECTORS" WHERE INDICATED.
- 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

2 SCHEDULE
S4.01 NO SCALE

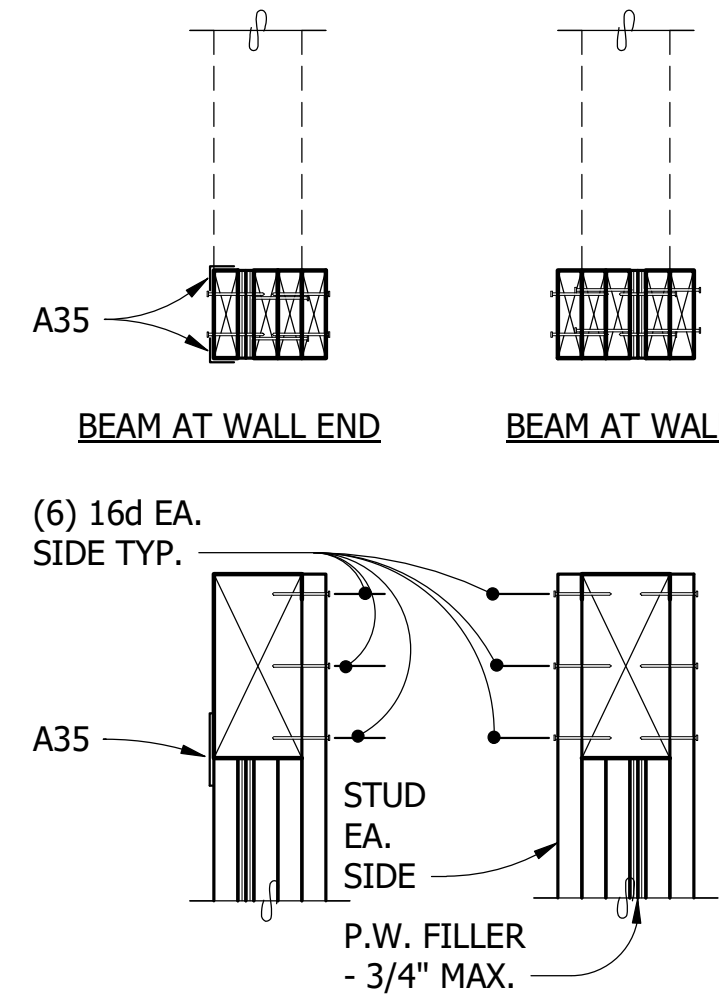


STUD WALL CONSTRUCTION SCHEDULE										
TABLE 1 - SHEAR WALL REQUIREMENTS										
MARK	WALL SHEATHING	SIDES WITH SHEATHING	SHEATHING NAILS NOTE 2	EDGE NAILING ON CENTER	EDGE FRAMING NOTE 5	FIELD NAILING ON CENTER	BOTTOM PLATE NOTE 6	BOTTOM PLATE NAILING	5/8" ANCHOR BOLT SPACING (EMBED 7" MINIMUM)	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.

TABLE 2 - STUD REQUIREMENTS		
MARK	STUD SIZE AND SPACING	NUMBER STUDS REQUIRED AT MEMBER BEARING
(1)	2x6 @ 16" O.C.	(1)

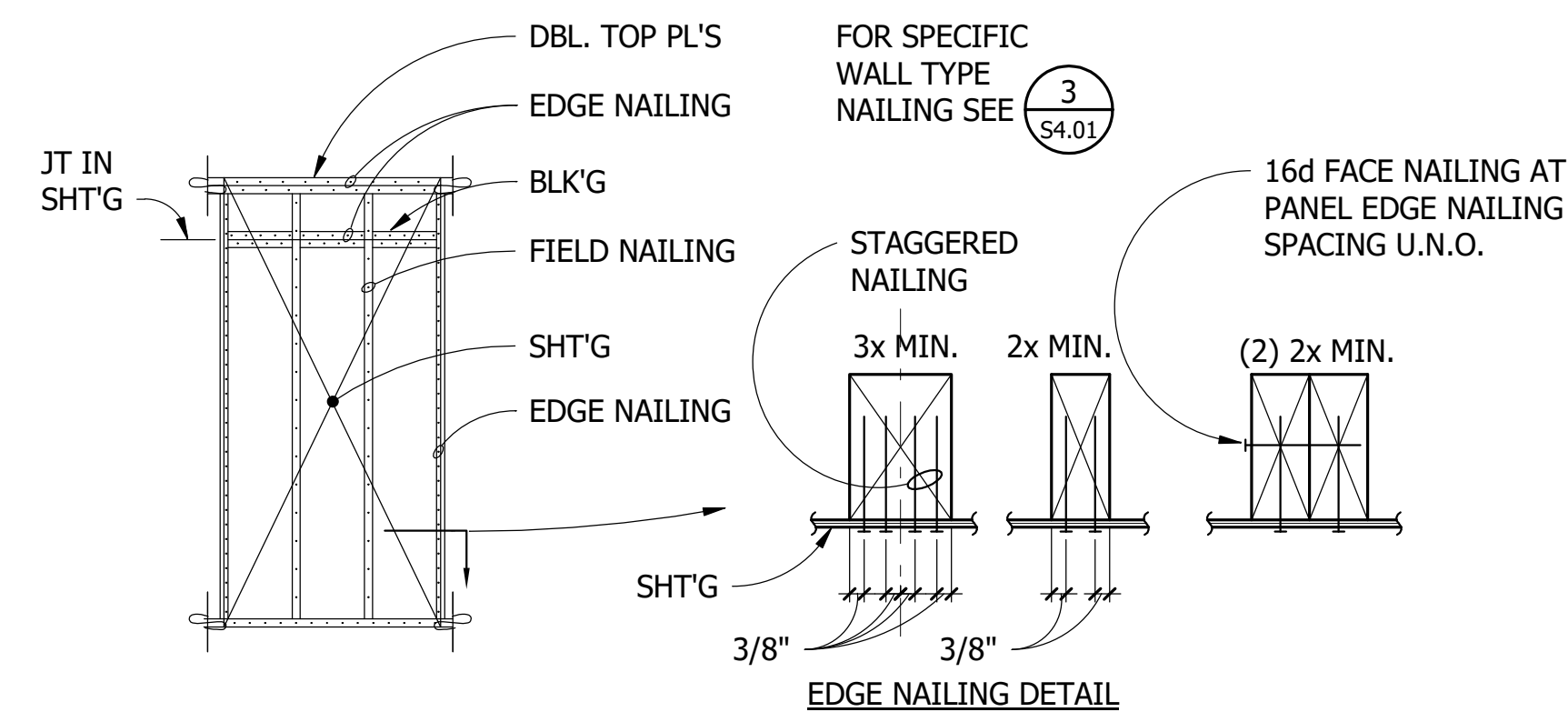
- NOTES:
- (xx) INDICATES SPECIAL STRUCTURAL WALL MARK. ALL WALLS SHOWN ON STRUCTURAL DRAWINGS ARE 2x6 AT 16" ON CENTER UNLESS DESIGNATED SPECIAL. STUD LAYOUT SHALL MATCH FRAMING MEMBER LAYOUT ABOVE WHERE APPLICABLE. ALL EXTERIOR WALLS SHALL HAVE 15/32" WOOD SHEATHING AND BE NAILED WITH 10d AT 6" ON CENTER AT EDGES AND 12" ON CENTER IN FIELD UNLESS DESIGNATED SPECIAL.
 - 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.
 - WHERE BEAMS OR HEADERS FRAME INTO WALLS AND A COLUMN IS NOT CALLED OUT, PROVIDE BUILT-UP COLUMNS PER 1/S4.01 FOR BEAM PERPENDICULAR TO WALL.
 - [X,Y] INDICATES BUILT-UP STUD COLUMNS AT HEADERS IN WALLS - SEE 4/S4.01 FOR BEAM PARALLEL TO WALL.
 - PROVIDE 3x OR DOUBLE 2x MEMBERS FACE NAILED PER 5/S4.01 AT ALL ABUTTING PANEL EDGES WHERE INDICATED.
 - 3x BOTTOM PLATE WHERE INDICATED.
 - 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.

3 SCHEDULE
S4.01 NO SCALE



TYPICAL BUILT-UP COLUMN AT BEAM PERPENDICULAR TO WALL

4 DETAIL
S4.01 NO SCALE



NOTES:

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

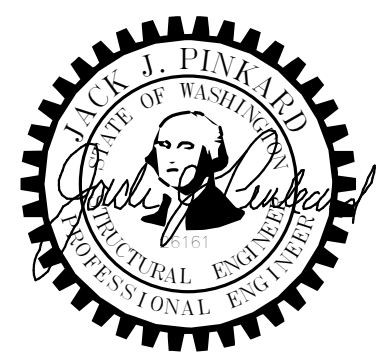
TYPICAL SHEARWALL NAILING

5 SCHEDULE
S4.01 NO SCALE

CAD NO.

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ACTION	BY	DATE
DESIGNED	JJP	NOV. 2023
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KOPACHUCK STATE PARK

WELCOME CENTER

FRAMING DETAILS

S4.01

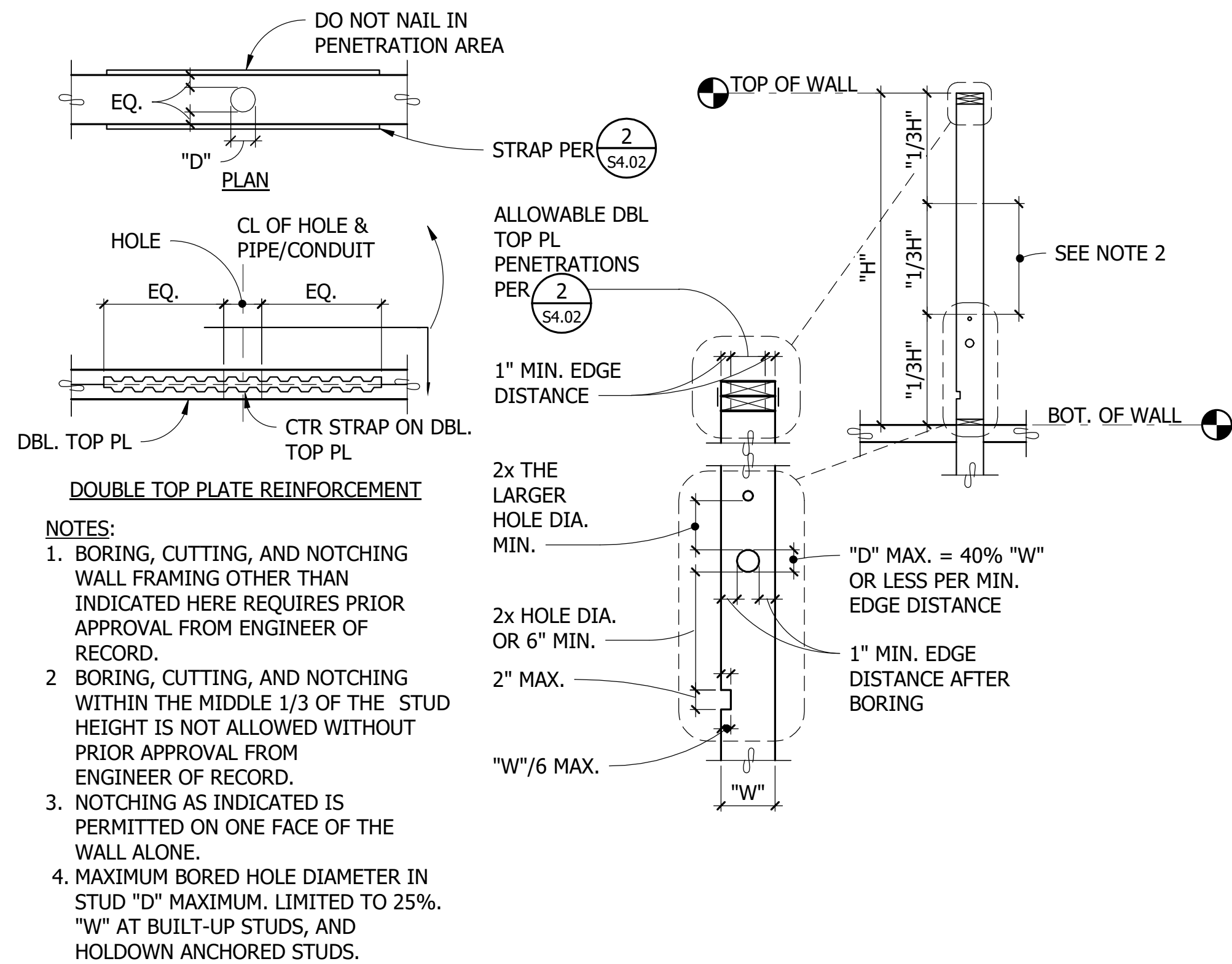


SCALE

SHEET 24 of 40

AS NOTED

BID SET PARKS FILE#



DOUBLE TOP PLATE REINFORCEMENT

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

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

1 **DETAIL**
S4.02 NO SCALE

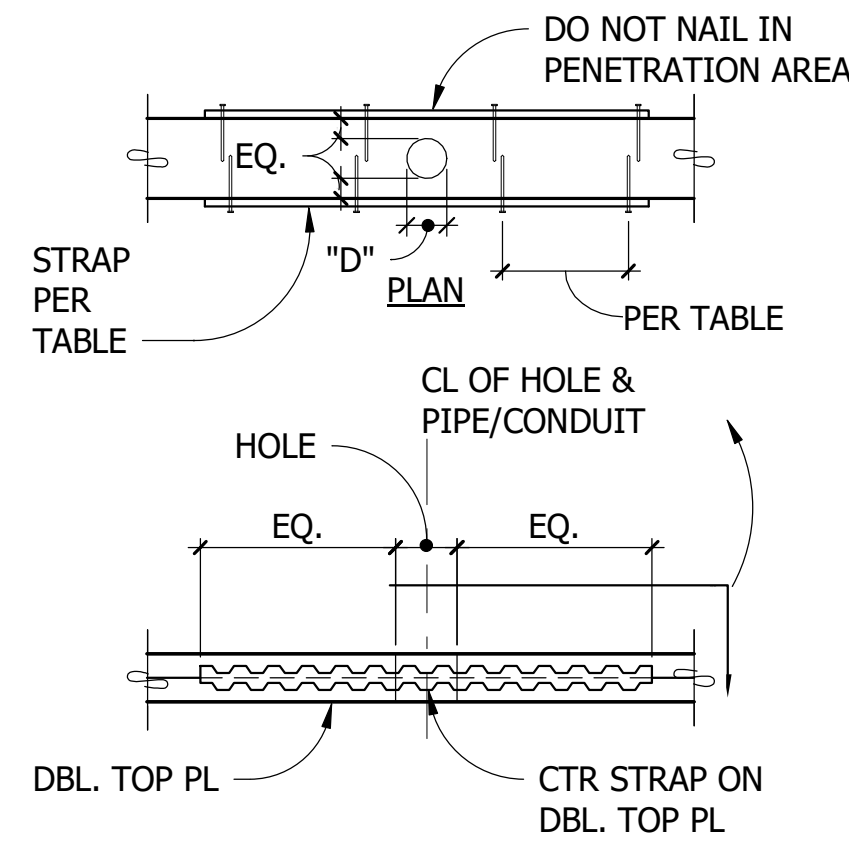
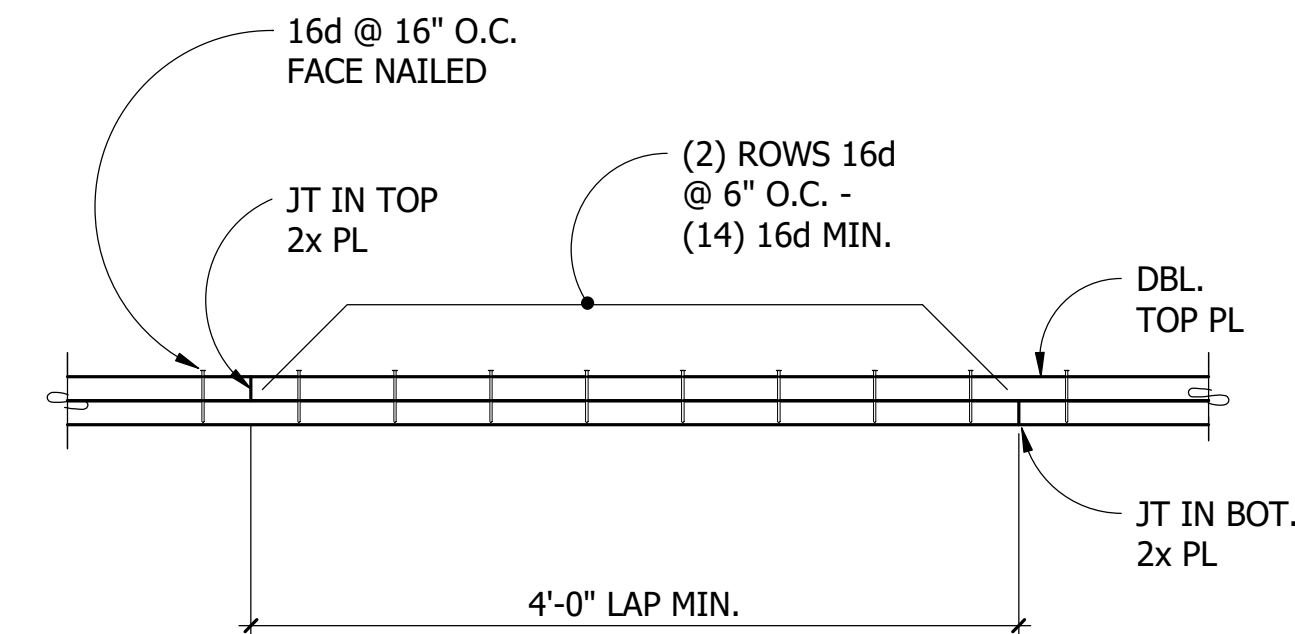
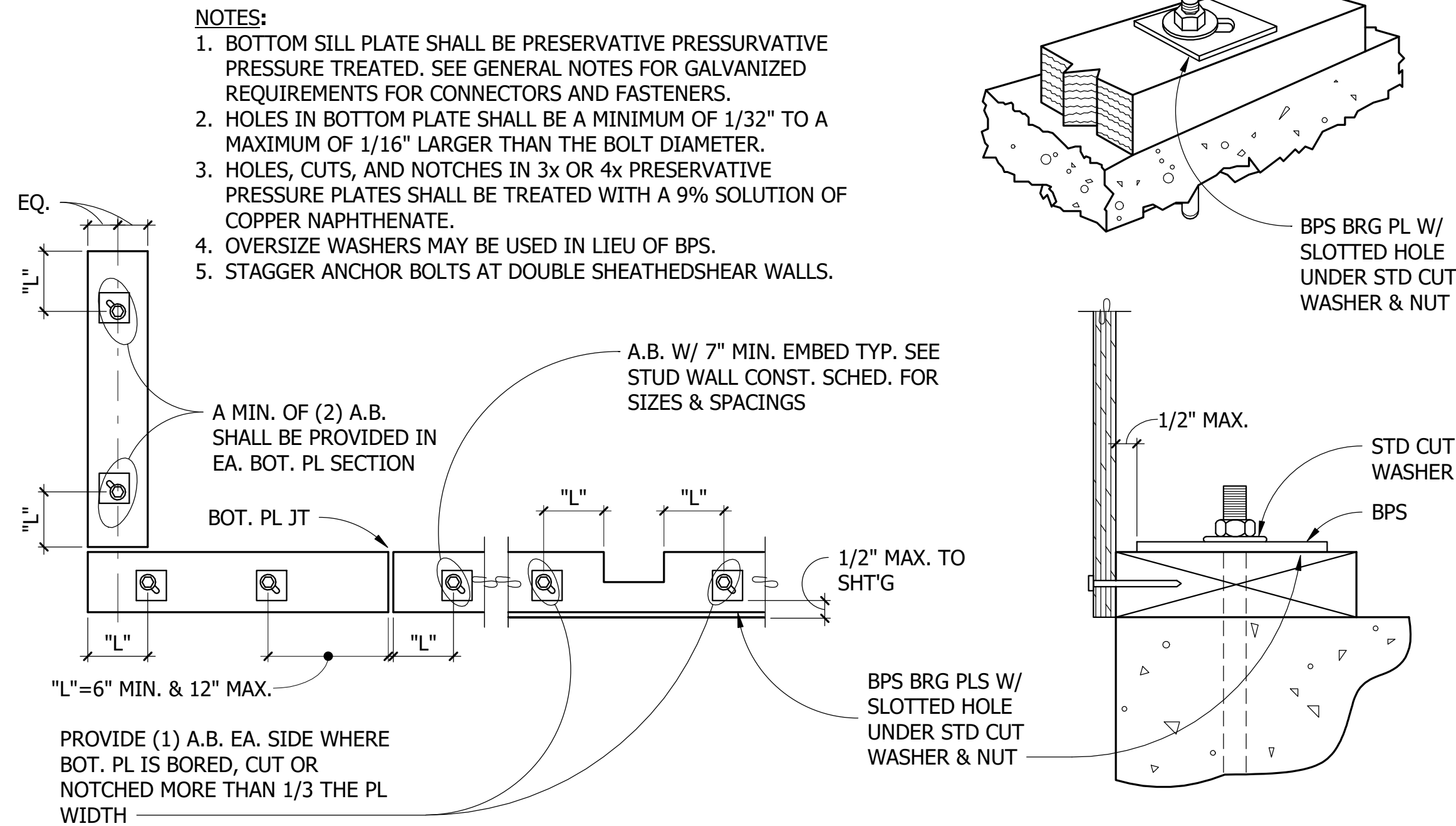


PLATE SIZE	HOLE DIAMETER "D" INCHES	STRAP
2x4	0" < "D" < 1" 1" ≤ "D" ≤ 2 1/4"	NO STRAP REQUIRED (2) ST2215 WITH (8) 16d EACH END
2x6	0" < "D" < 2 1/2" 2 1/2" ≤ "D" ≤ 3 5/8"	NO STRAP REQUIRED (2) ST2215 WITH (8) 16d EACH END
2x8	0" < "D" < 2 1/2" 2 1/2" ≤ "D" ≤ 4"	NO STRAP REQUIRED (2) ST6224 WITH (12) 16d EACH END

2 **DETAIL**
S4.02 NO SCALE

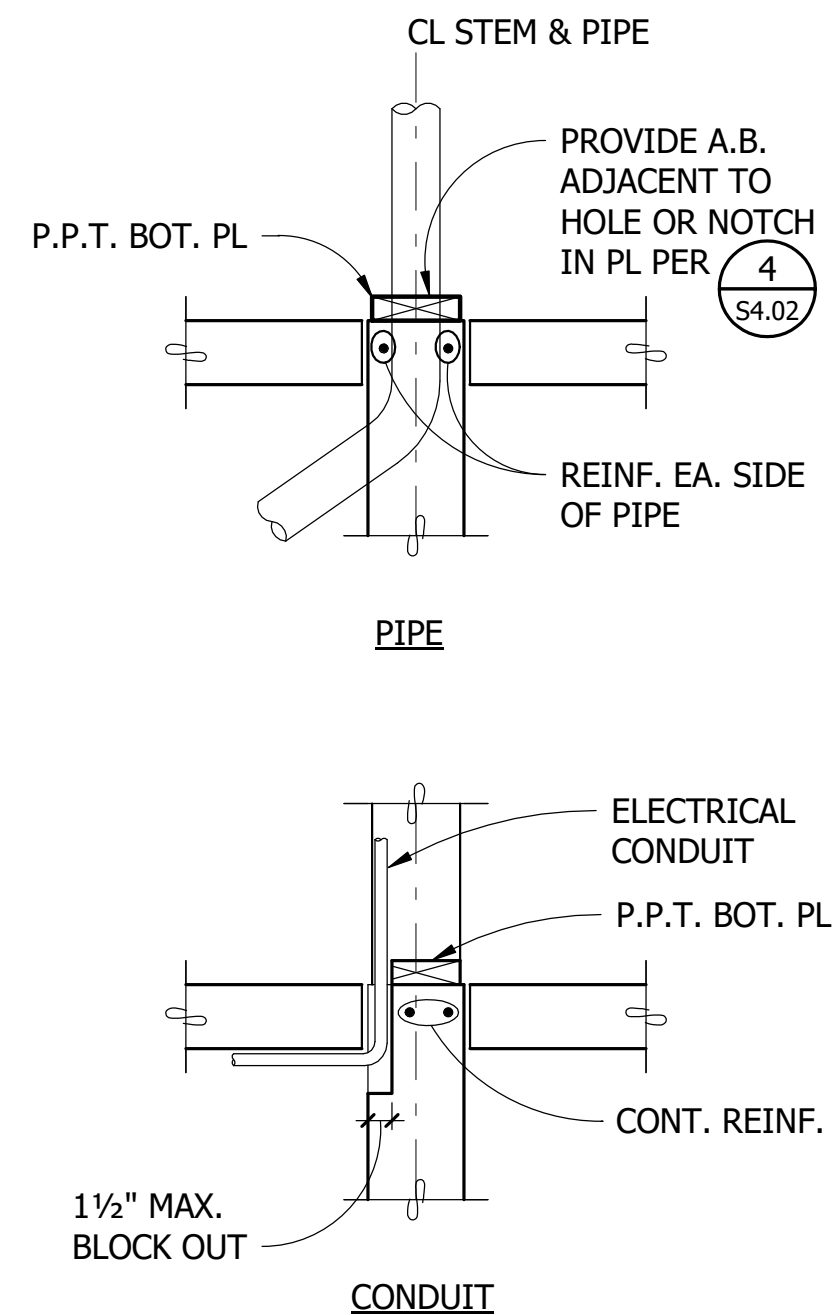


3 **SECTION**
S4.02 NO SCALE



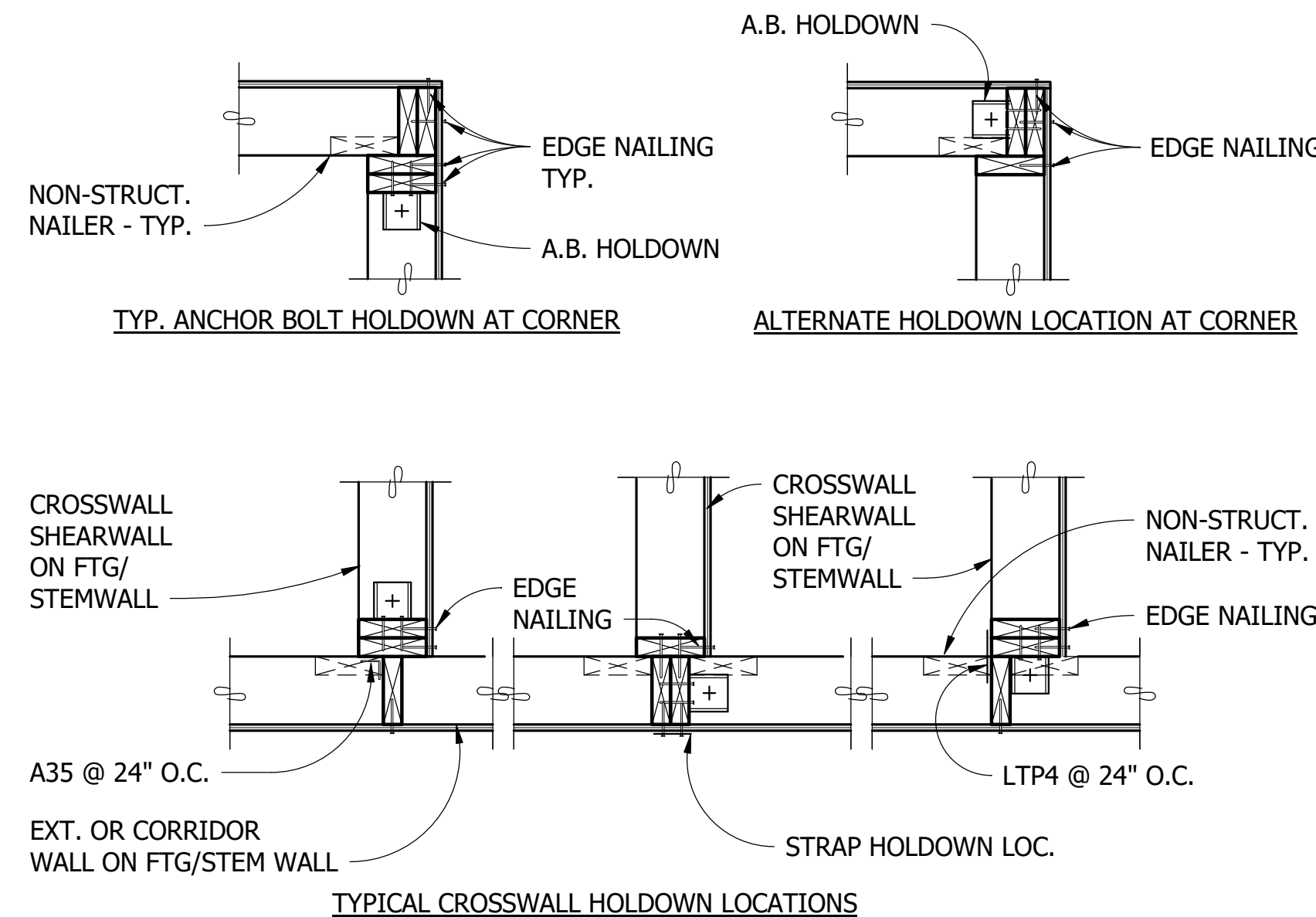
TYPICAL BOTTOM PLATE ANCHORAGE

4 **DETAIL**
S4.02 NO SCALE



TYPICAL VERTICAL PENETRATIONS IN STEM WALL

5 **DETAIL**
S4.02 NO SCALE



TYPICAL CROSSWALL HOLDDOWN LOCATIONS

6 **PLAN DETAIL**
S4.02 NO SCALE

CAD NO.

NO.	REVISIONS	INT.	APP.	DATE

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S4.02

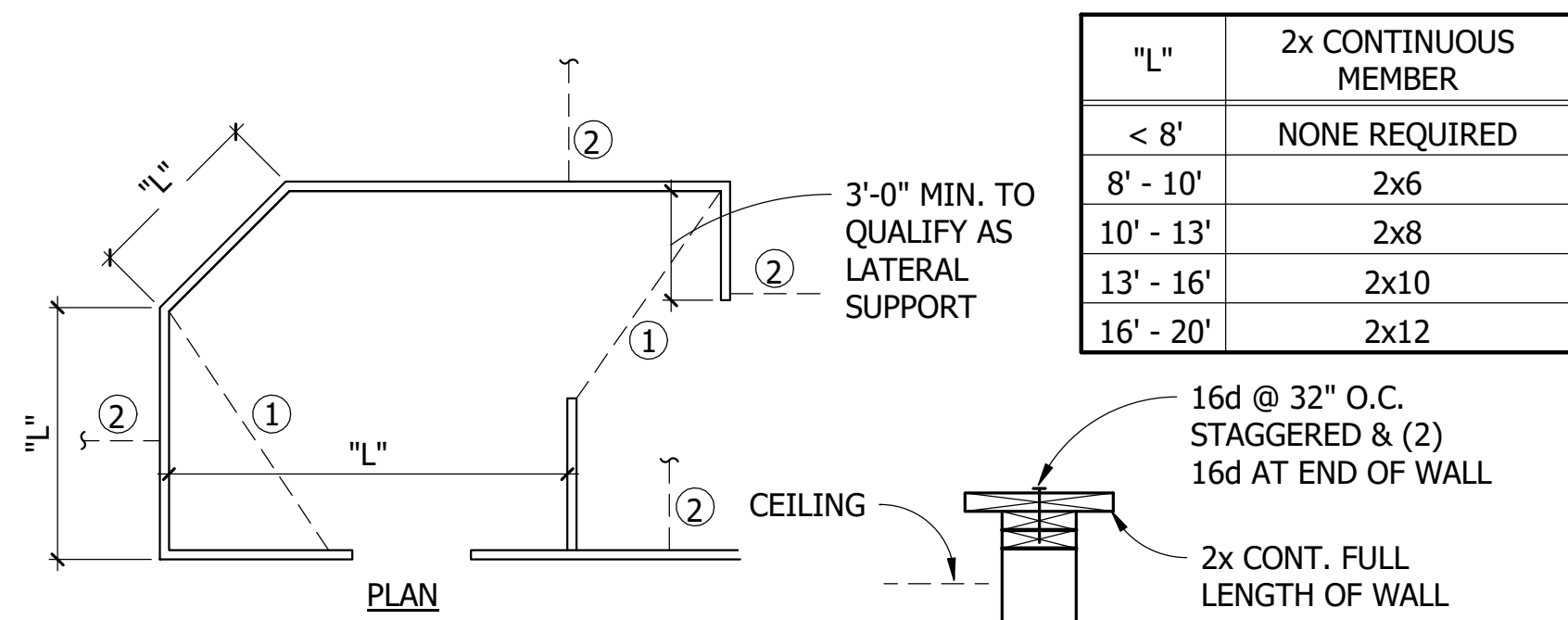


SHEET 25 of 40

SCALE

AS NOTED

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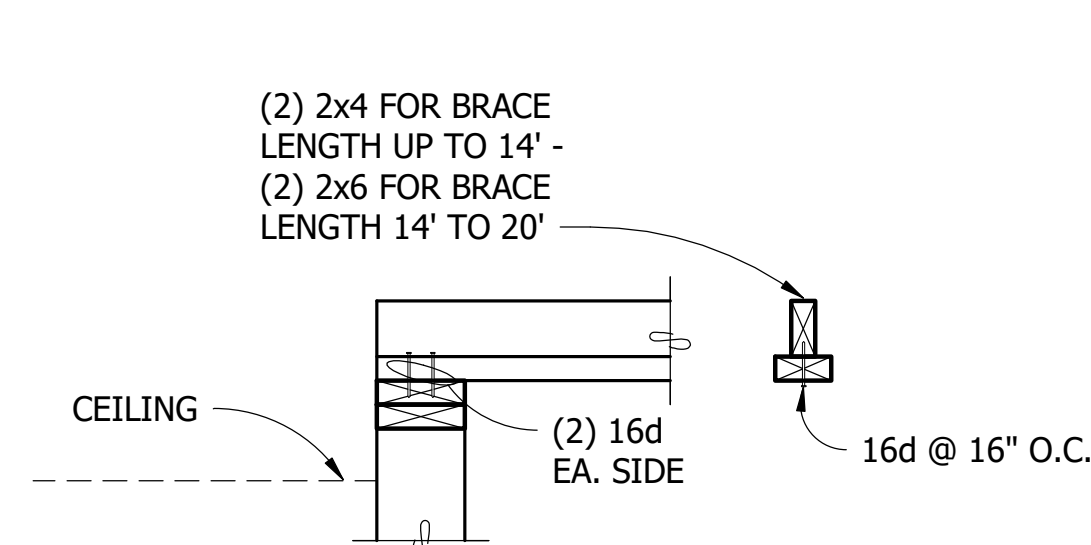
"L"	2x CONTINUOUS MEMBER
< 8'	NONE REQUIRED
8' - 10'	2x6
10' - 13'	2x8
13' - 16'	2x10
16' - 20'	2x12

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/S4.04.
- ② INDICATES BRACE UP TO ROOF STRUCTURE SEE 3/S4.04.

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

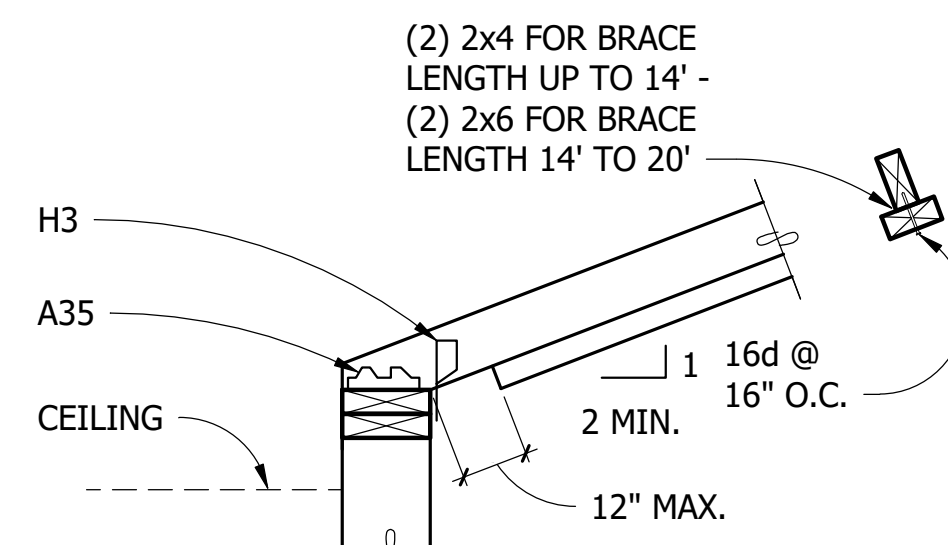
1
S4.04 NO SCALE



NOTES:
 1. MAXIMUM SPACING OF BRACES = 10'-0".
 2. BRACES NOT REQUIRED WITHIN 8'-0" OF OTHER LATERAL WALL SUPPORT, CORNERS AND INTERSECTIONS.

TYPICAL TOP OF WALL BRACE (HORIZONTAL)

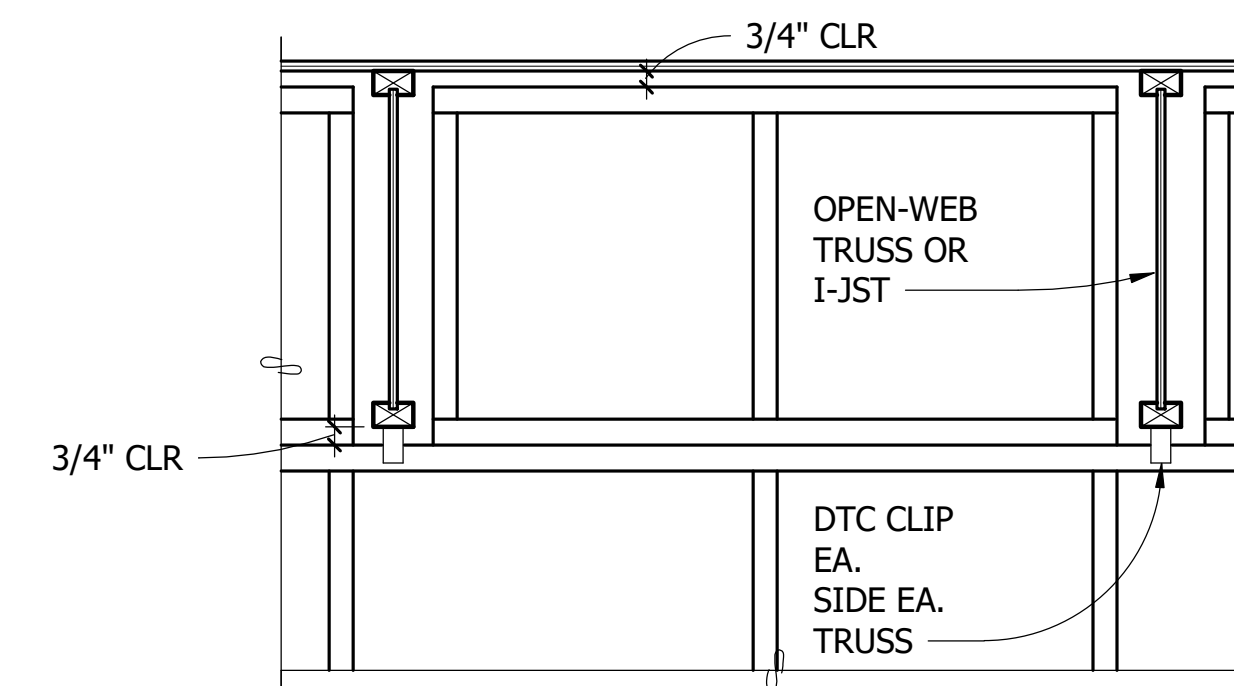
2
S4.04 NO SCALE



NOTES:
 1. MAXIMUM SPACING OF BRACES = 10'-0".
 2. BRACES NOT REQUIRED WITHIN 8'-0" OF OTHER LATERAL WALL SUPPORT, CORNERS AND INTERSECTIONS.

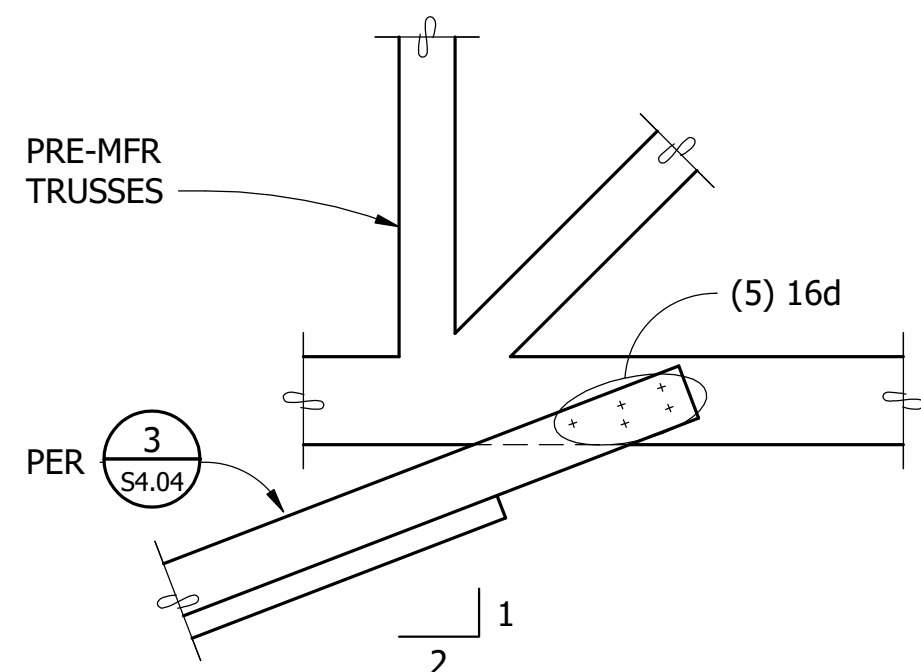
TYPICAL TOP OF WALL BRACE UP TO STRUCTURE

3
S4.04 NO SCALE



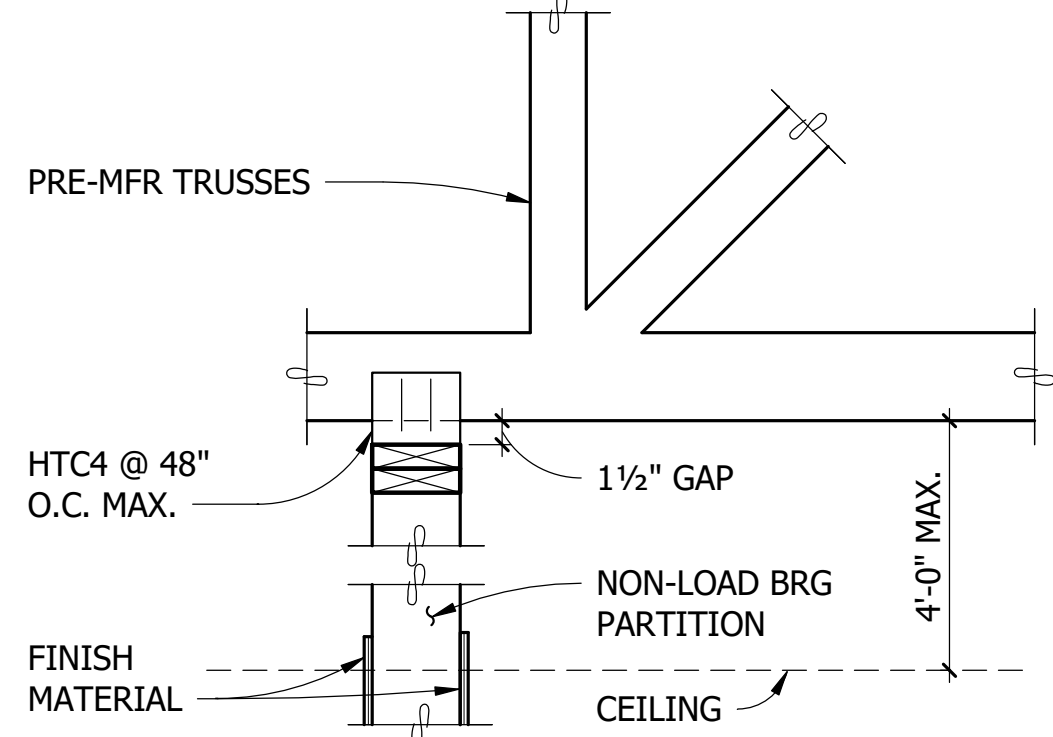
TYPICAL CONNECTION AT TOP OF NON-BEARING WALL EXTENDING TO ROOF STRUCTURE PERPENDICULAR TO JOISTS

4
S4.04 NO SCALE



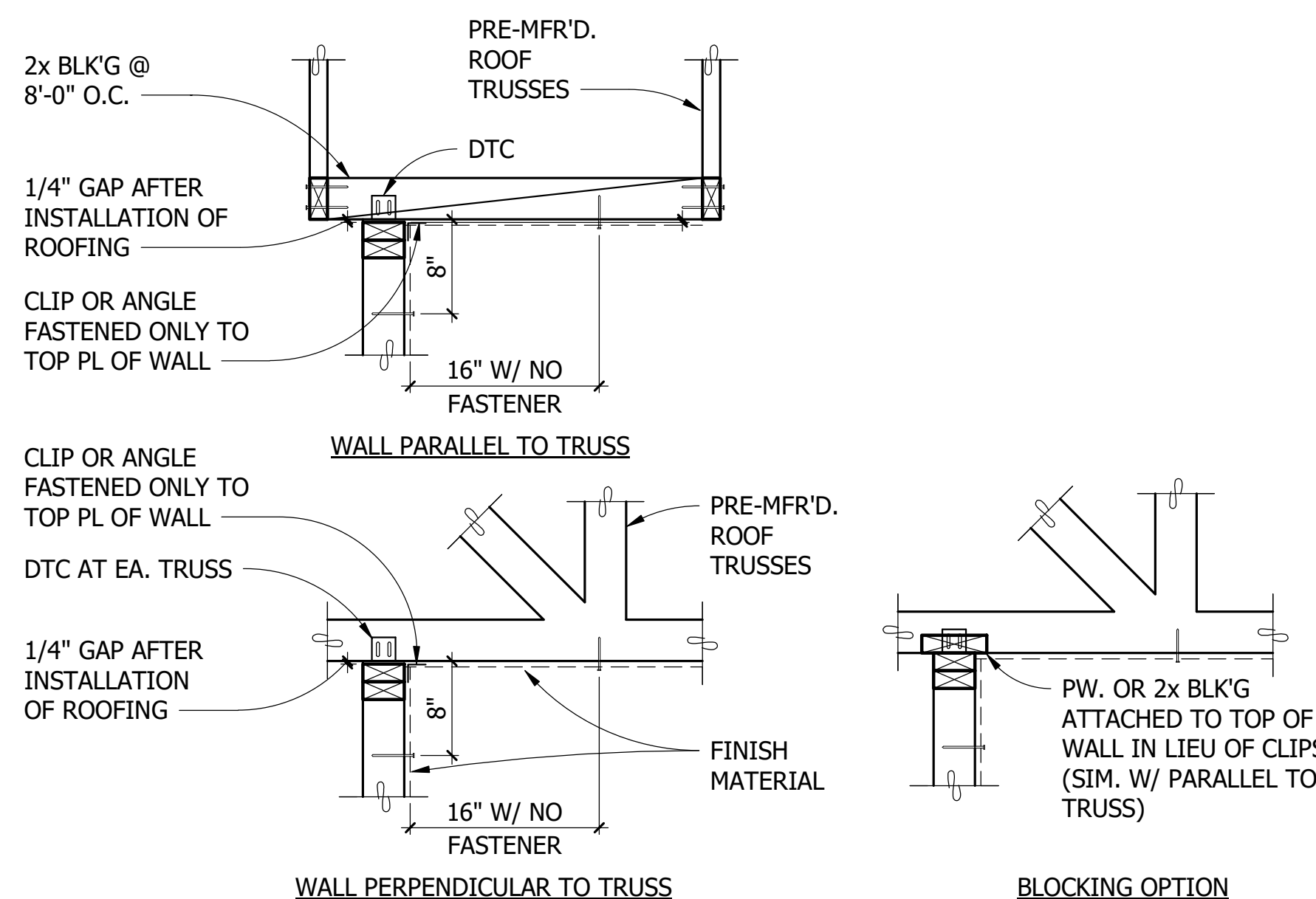
TYPICAL BRACE CONNECTION PARALLEL TO TRUSS

5
S4.04 NO SCALE

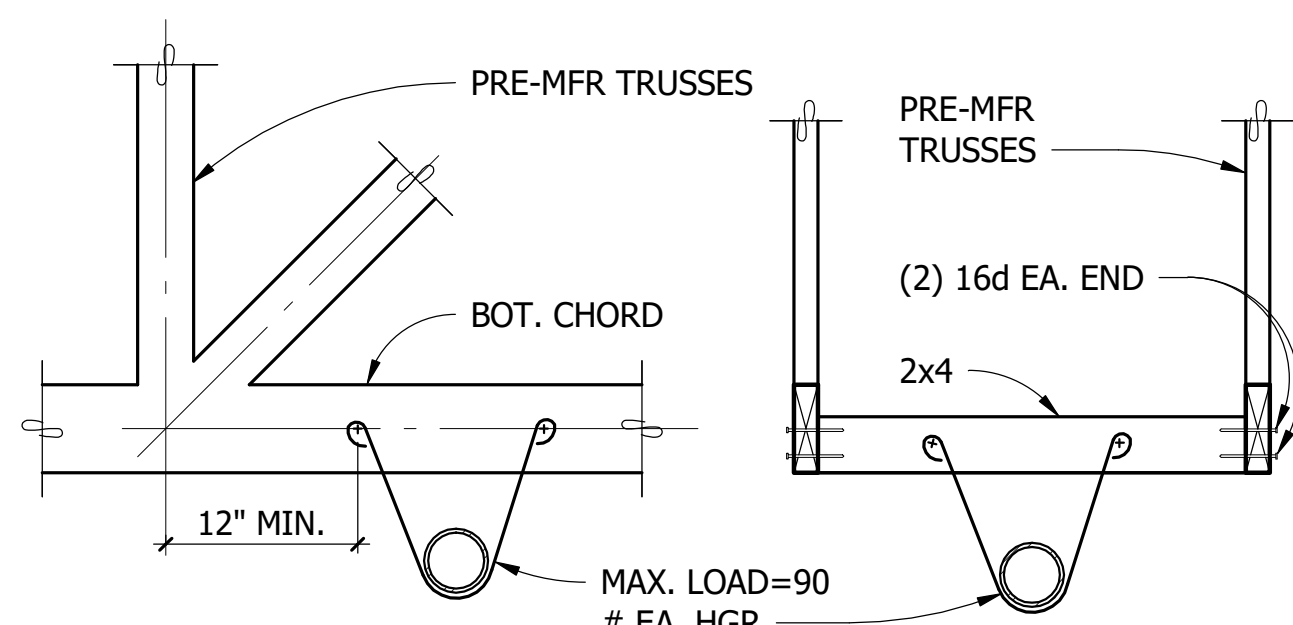


TYPICAL AT TRUSSES PERPENDICULAR TO WALL

6
S4.04 NO SCALE



7
S4.04 NO SCALE



NOTES: FOR LINES GREATER THAN 3"Ø, HANG FROM GLULAM BEAMS OR STUD WALL OR SUPPORT OFF WALLS WHEN SPECIFICALLY APPROVED BY STRUCTURAL ENGINEER.

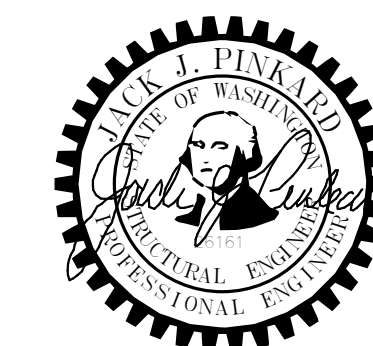
TYPICAL SPRINKLER LINE ATTACHMENT FOR LINES 3"Ø OR SMALLER

8
S4.04 NO SCALE

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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

WELCOME CENTER

FRAMING DETAILS

S4.04



SCALE

SHEET 27 of 40

AS NOTED

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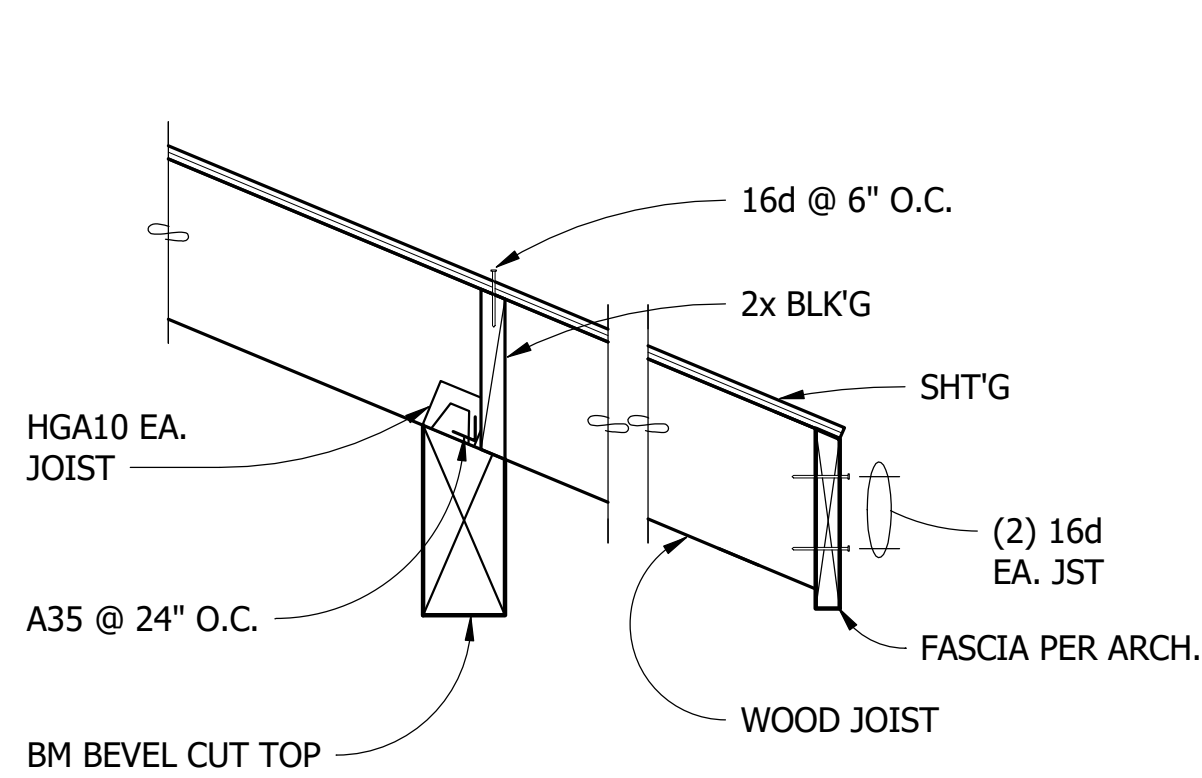
WELCOME
CENTER

ROOF FRAMING
DETAILS

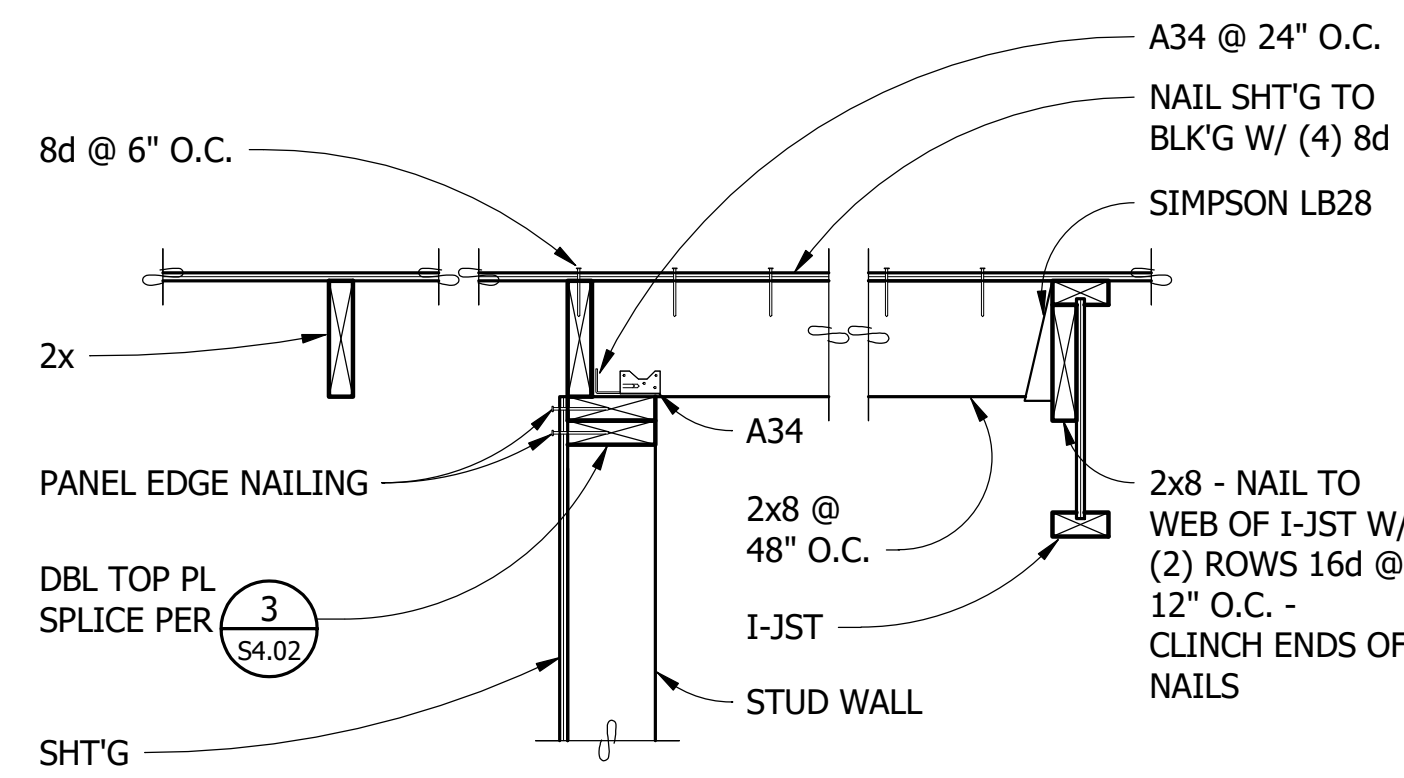
S4.05

SCALE

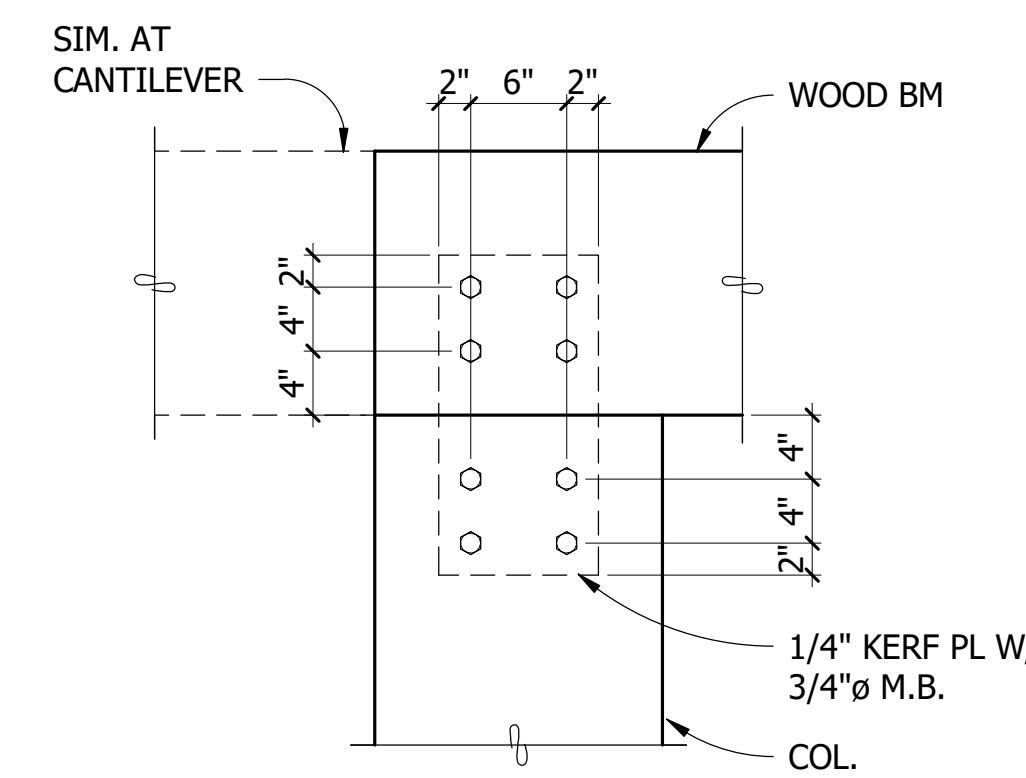
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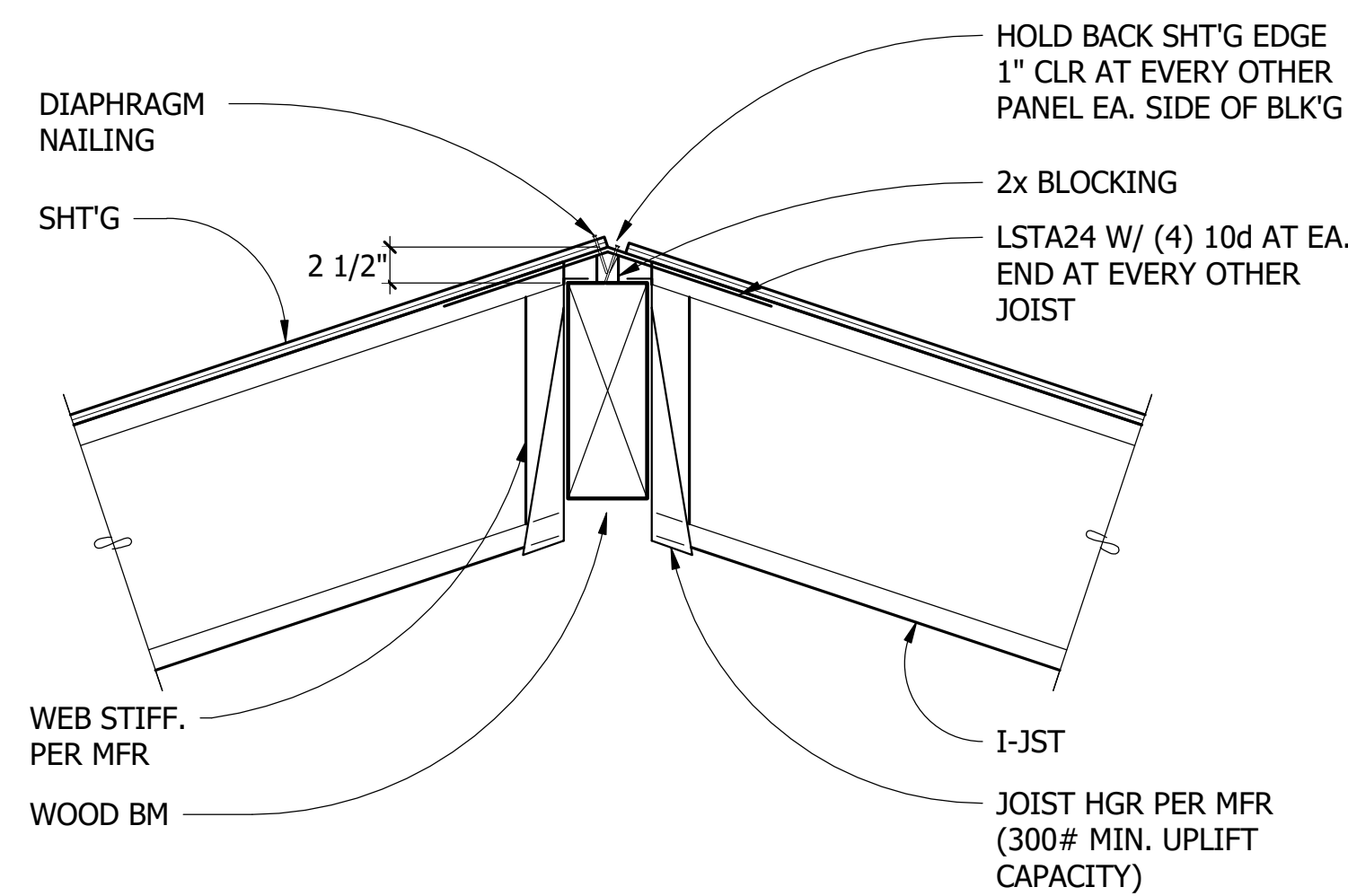
1 SECTION
S4.05 1" = 1'-0"



2 SECTION
S4.05 1" = 1'-0"



3 SECTION
S4.05 1" = 1'-0"



TYPICAL I-JOIST CONNECTION AT RIDGE BEAM
4 SECTION
S4.05 1" = 1'-0"

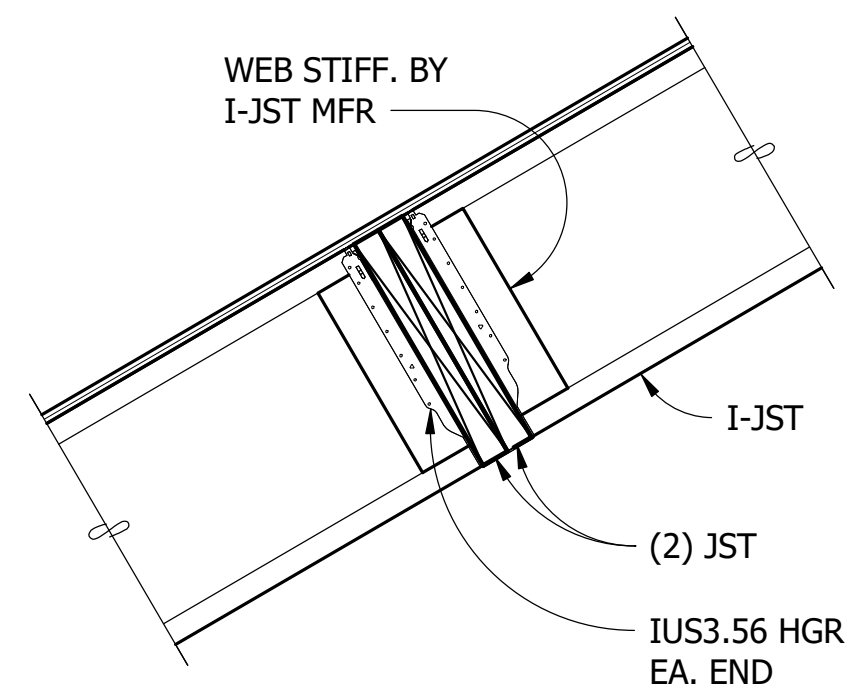


SHEET 28 of 40

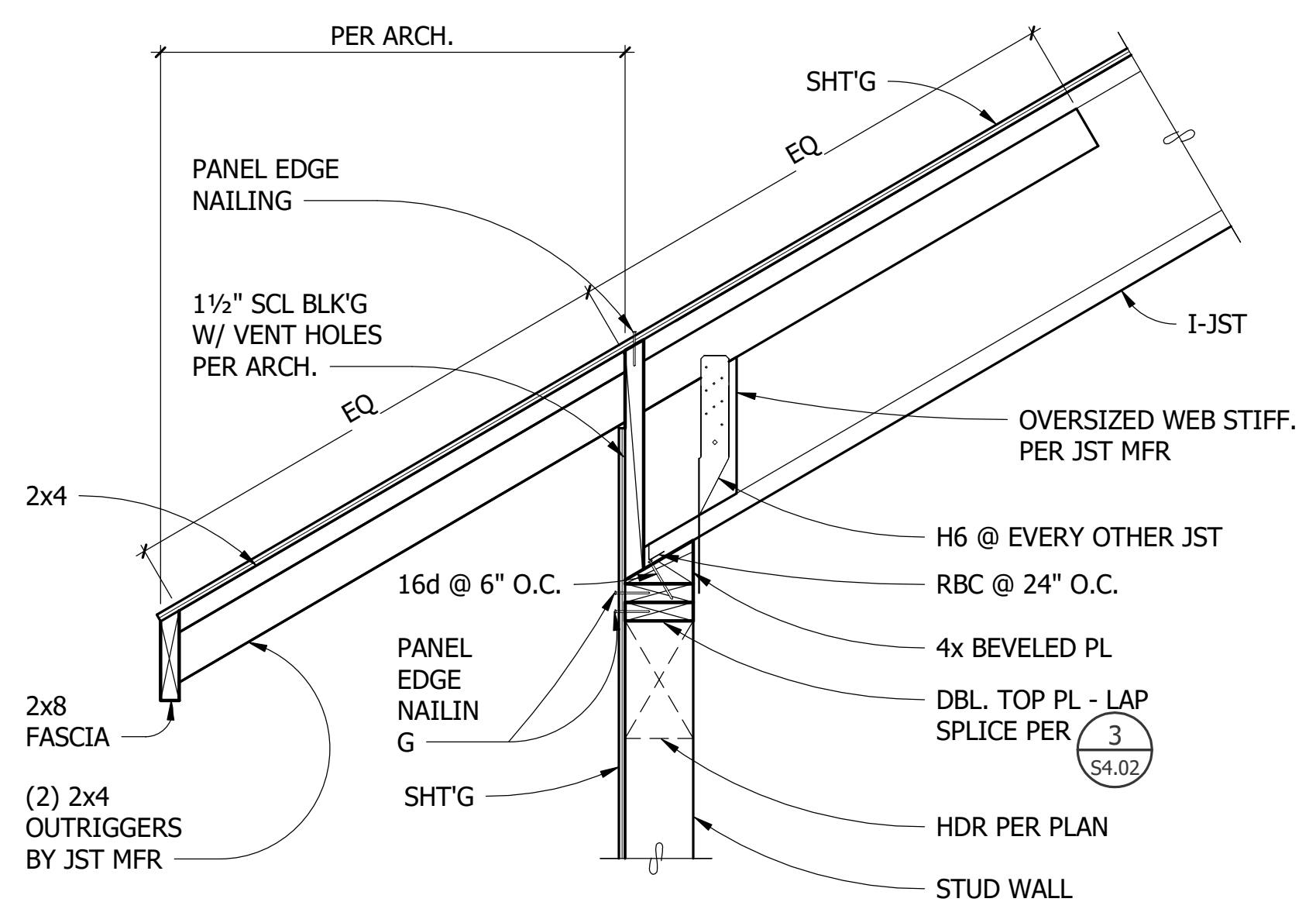
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PARKS FILE#

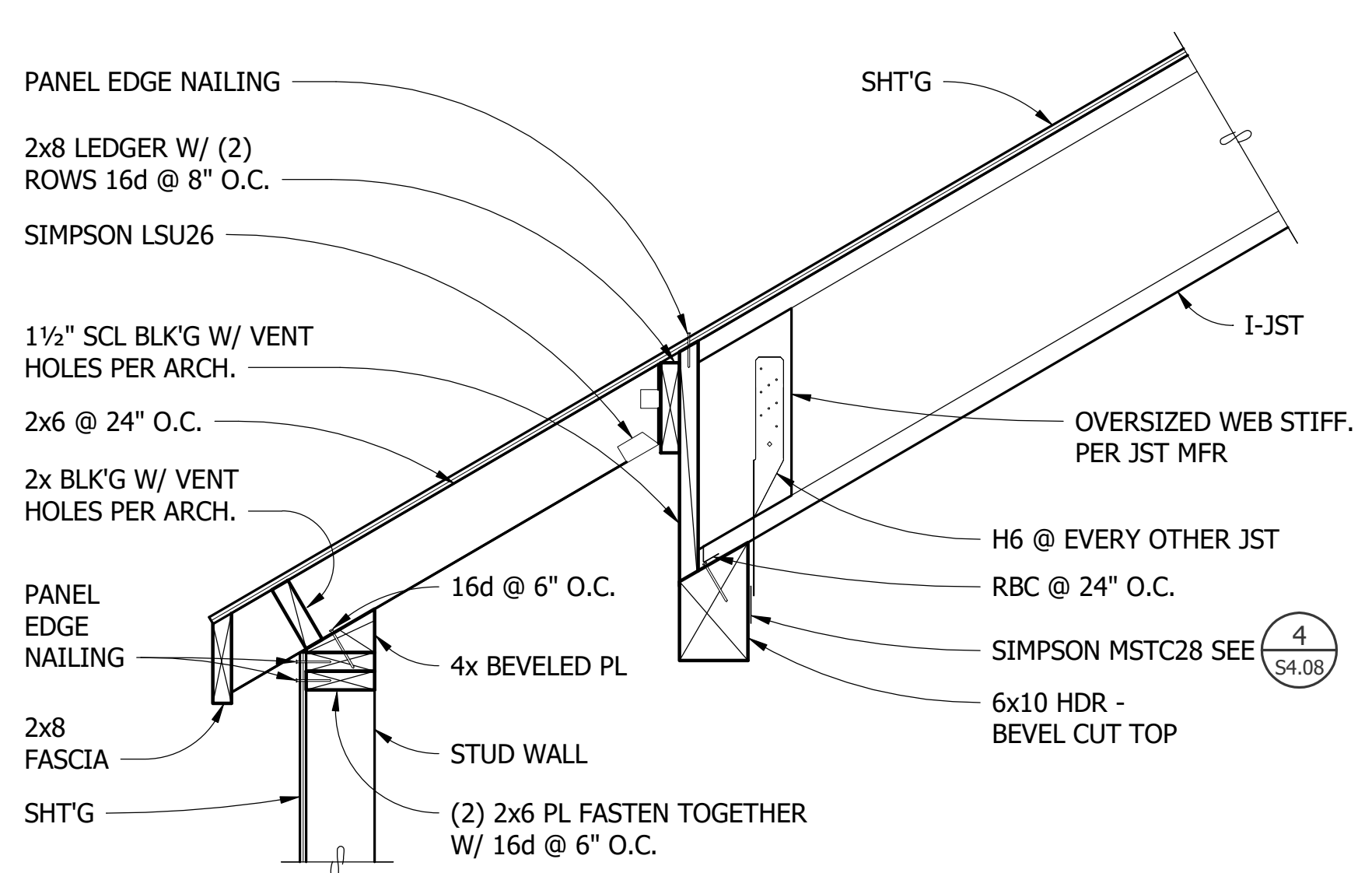
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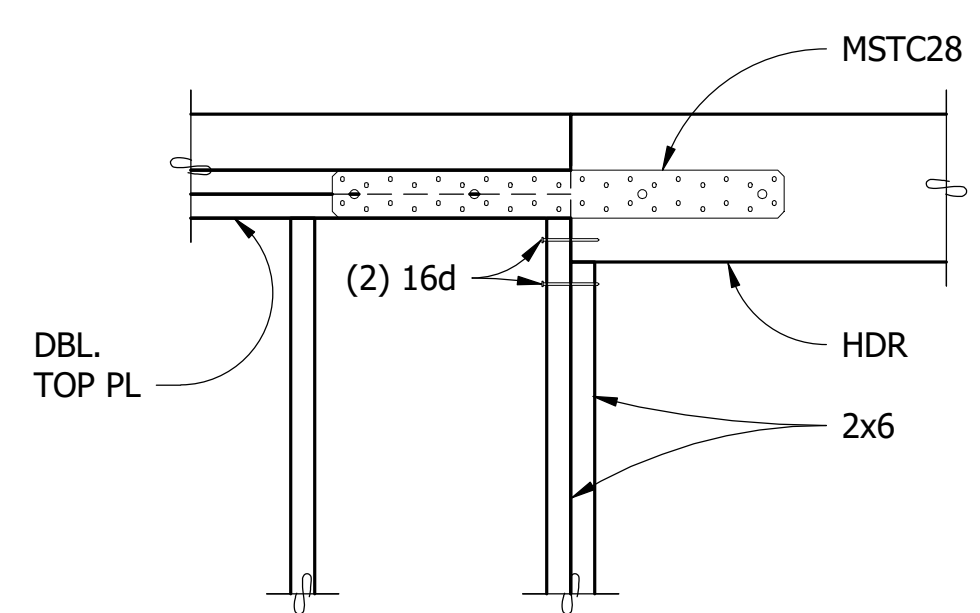
1 SECTION
S4.08 1" = 1'-0"



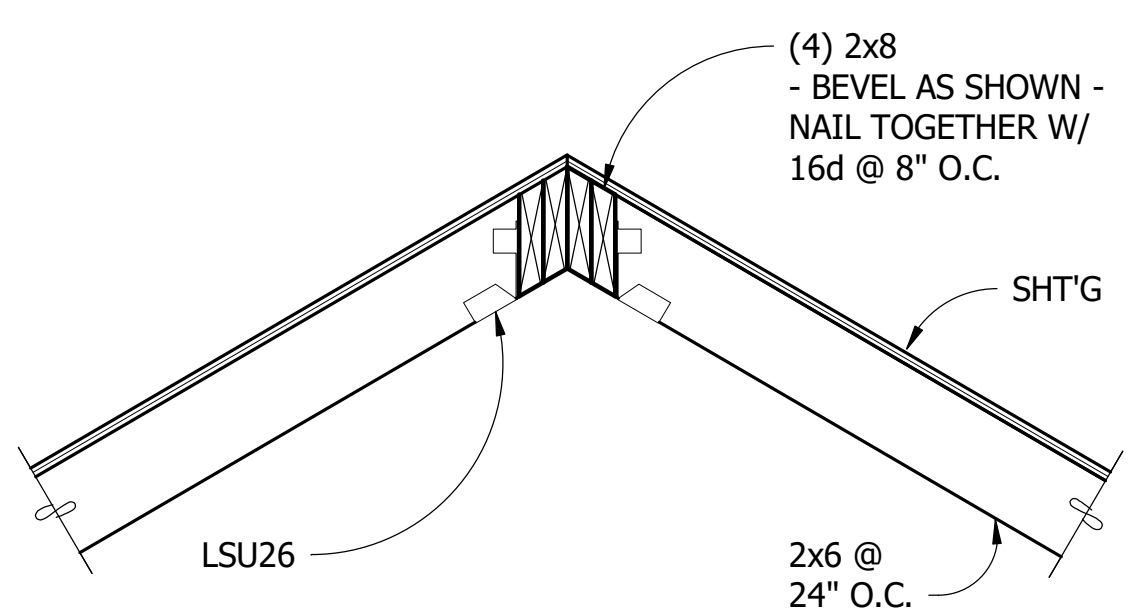
2 SECTION
S4.08 1" = 1'-0"



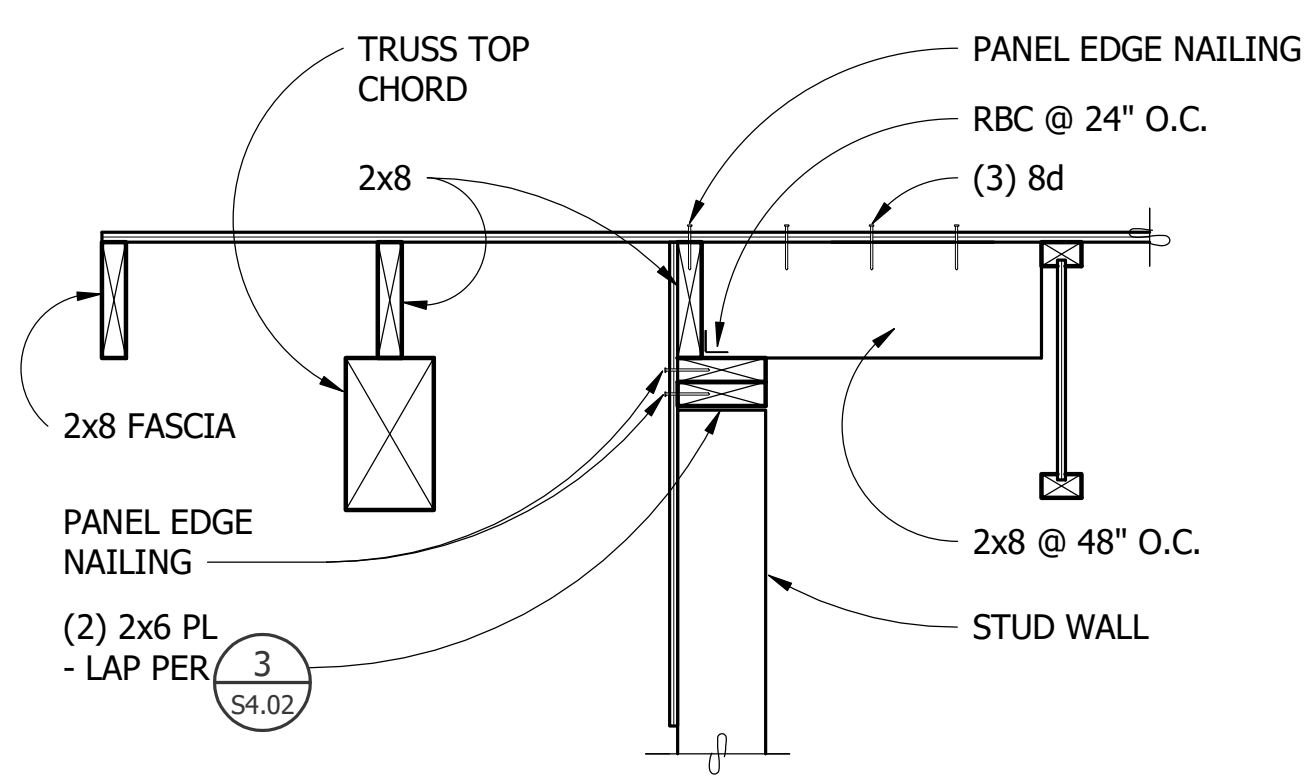
3 SECTION
S4.08 1" = 1'-0"



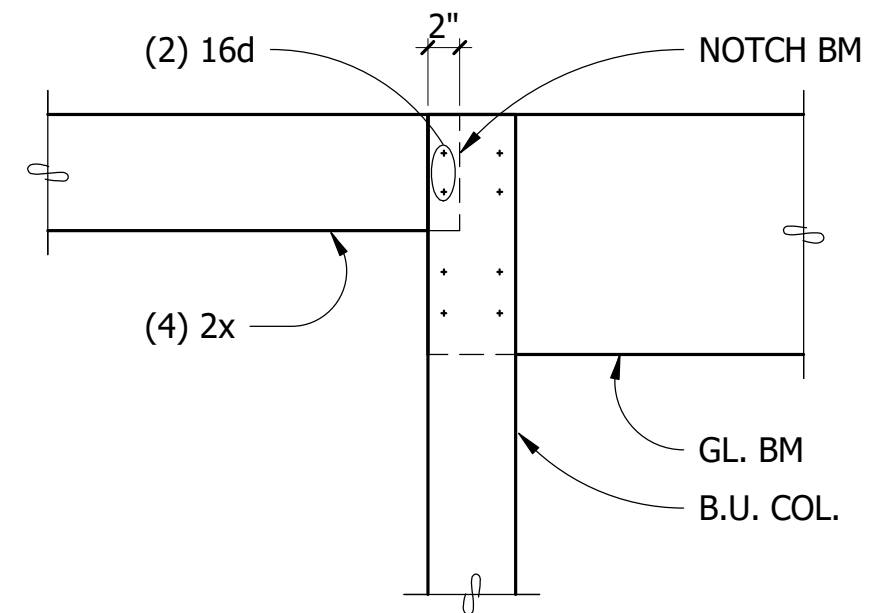
4 SECTION
S4.08 1" = 1'-0"



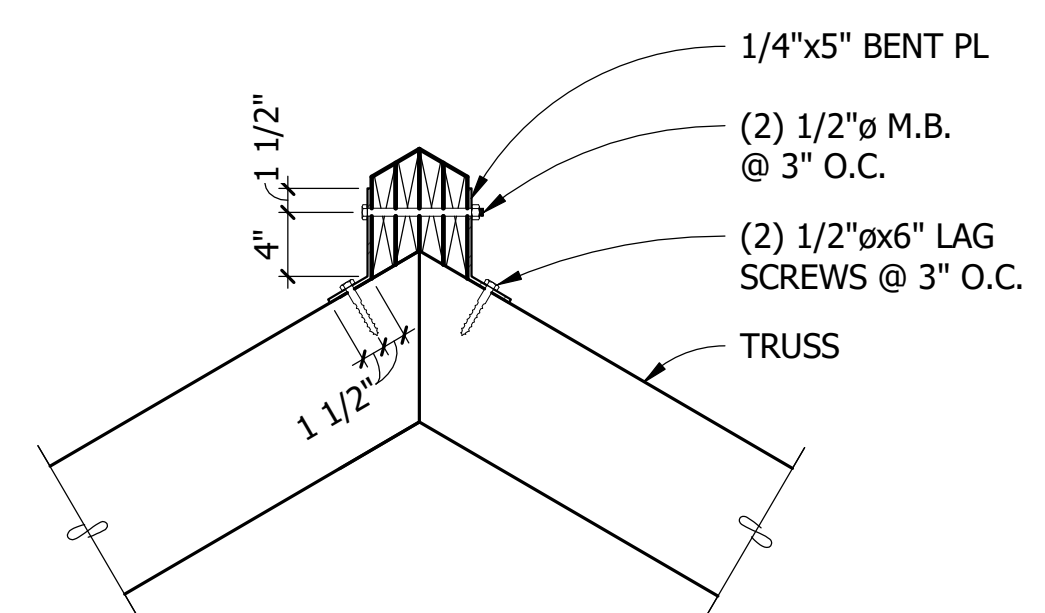
5 SECTION
S4.08 1" = 1'-0"



6 SECTION
S4.08 1" = 1'-0"



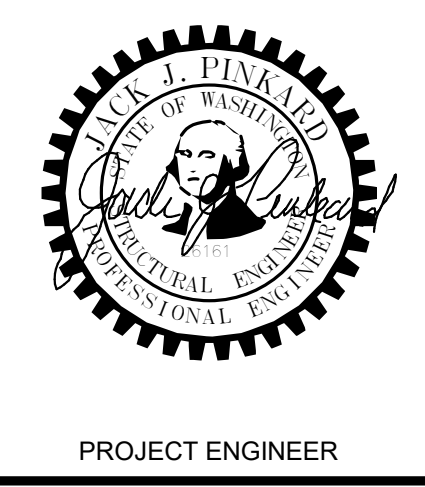
7 SECTION
S4.08 1" = 1'-0"



8 SECTION
S4.08 1" = 1'-0"

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CHECKED (HDQTS.)		



WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

WELCOME CENTER

ROOF FRAMING DETAILS

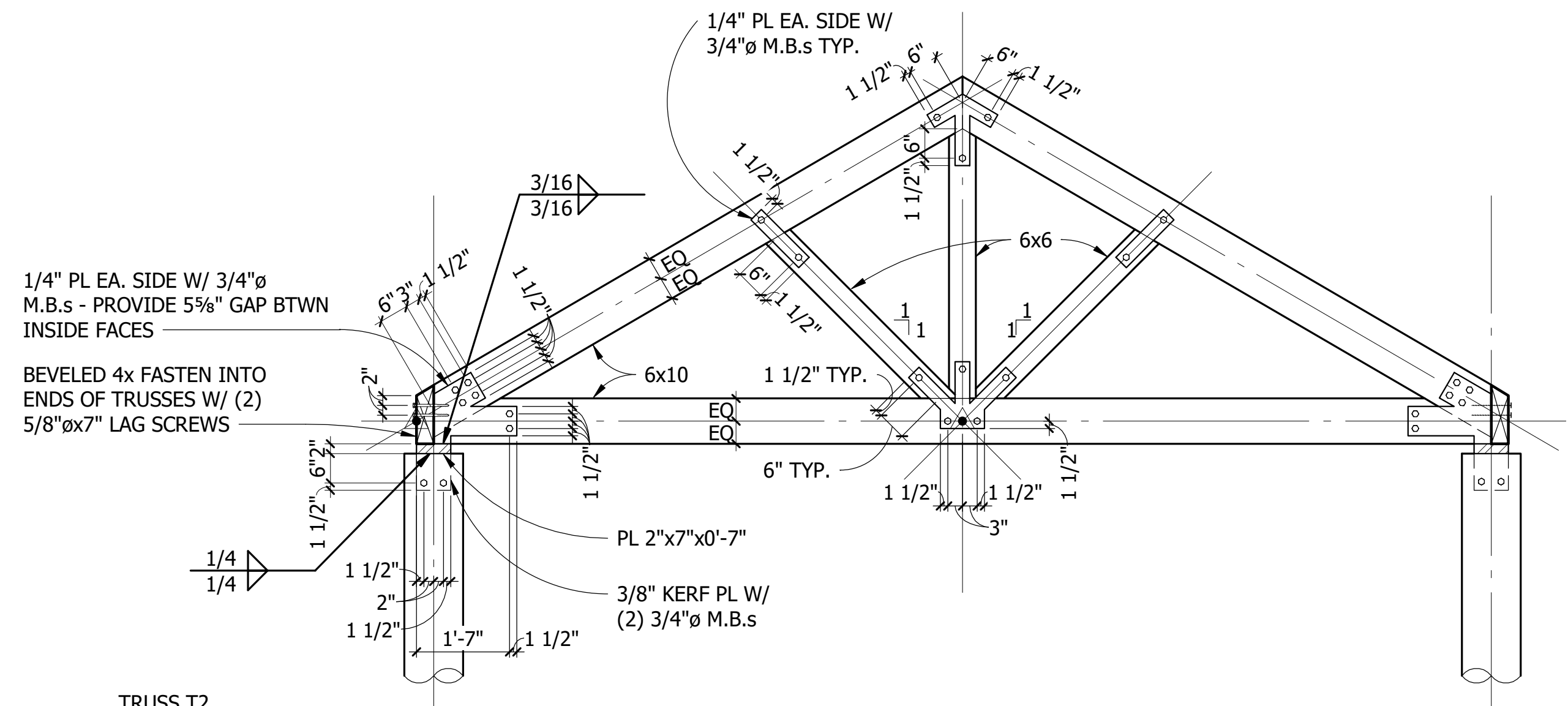
S4.08

SCALE: AS NOTED

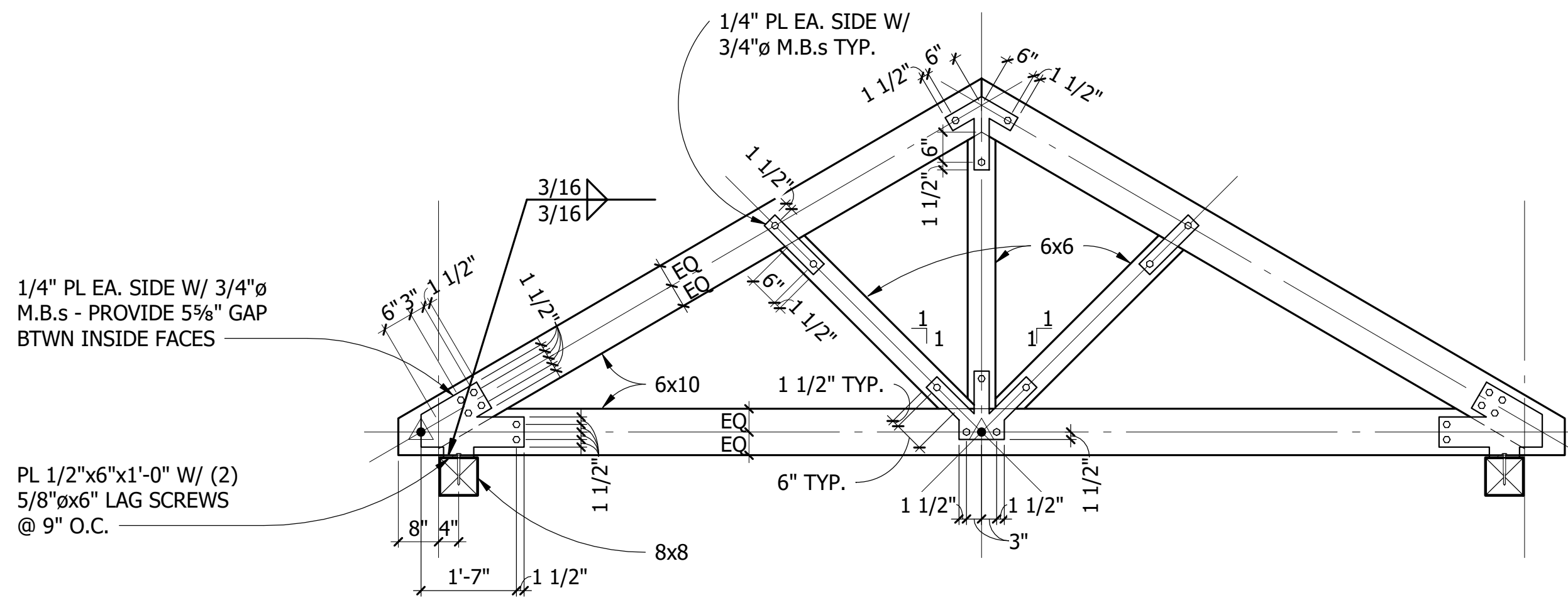
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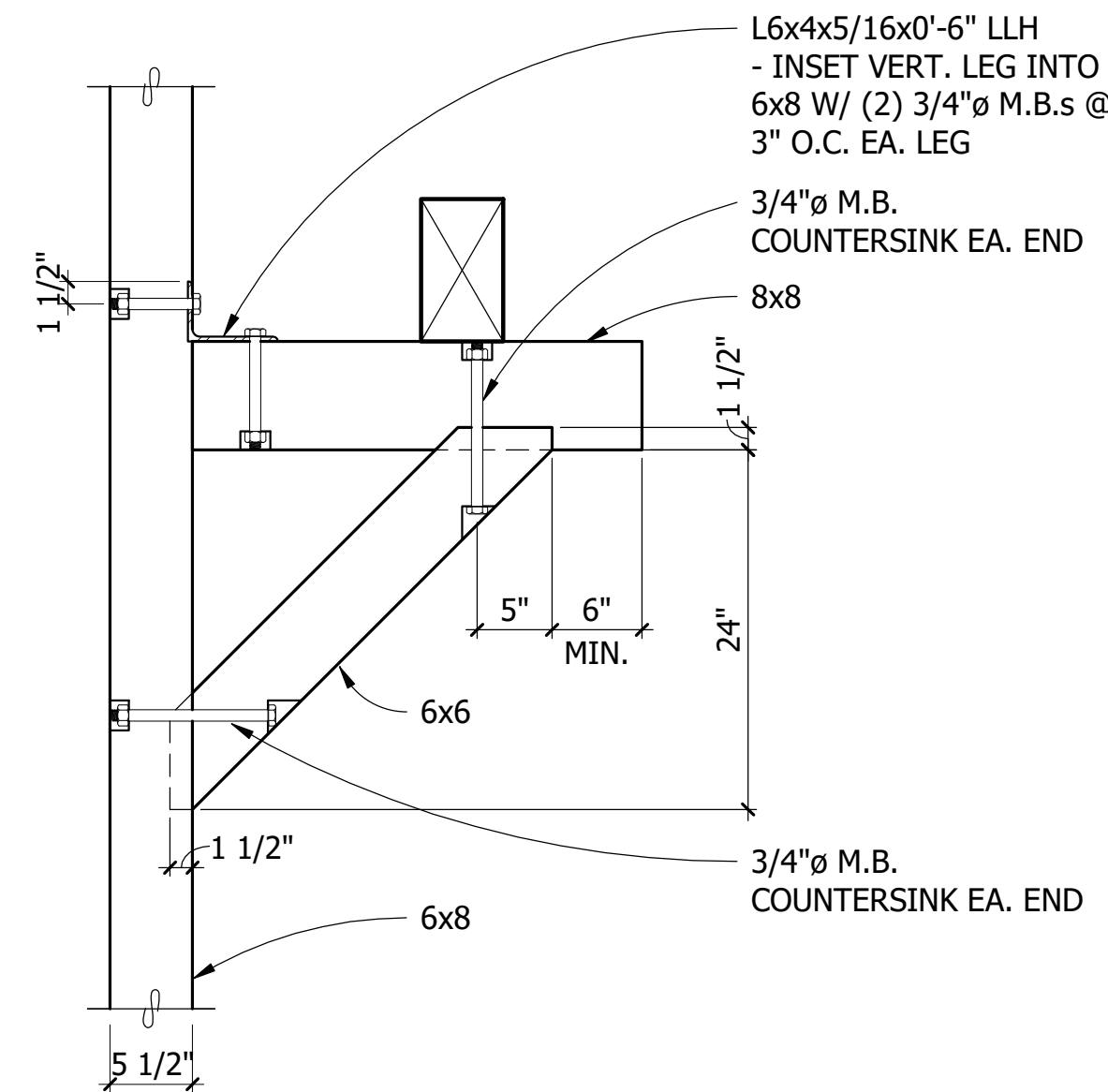
C:_Revit Models\190116 Kopachuck St Park - Welcome Center v2018 (Central)_DanH-PCS.rvt 11/13/2023 1:04:25 PM



TRUSS T2
ELEVATION
 1
 S5.04 1/2" = 1'-0"



TRUSS T3
ELEVATION
 2
 S5.04 1/2" = 1'-0"

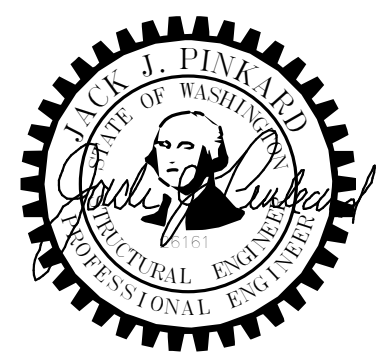


SECTION
 3
 S5.04 1" = 1'-0"

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PROJECT ENGINEER

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KOPACHUCK
STATE PARK

WELCOME
CENTER

TRUSS ELEVATION
AND DETAILS

S5.04



SCALE

AS NOTED

SHEET 30 of 40

BID SET PARKS FILE#

11/13/2023 1:04:28 PM C:_Revit Models\190116 Kopachuck St Park - Welcome Center v2018 (Central)_DanH-PCS.rvt

ENERGY CODE REQUIREMENTS

- A. HVAC EQUIPMENT SHALL MEET THE MINIMUM EFFICIENCIES (EER) LISTED IN THE WASHINGTON STATE ENERGY CODE TABLES C403.3.2.
- B. HEAT PUMP CONTROLS TO INCLUDE 7 DAY PROGRAMMING CAPABILITY, 5' DEADBAND, OPTIMUM START AND STOP CONTROL, UNOCCUPIED SETBACK, PART LOAD COOLING, AND 45°F OUTDOOR AIR LOCKOUT. CONTROLS SHALL NOT ALLOW SIMULTANEOUS HEATING AND COOLING.
- C. DAMPER LOCATIONS, LEAKAGE RATE, CONTROL TYPE, AND MAX CLEARANCE TO COMPLY WITH SECTION C403.7.8 OF THE W.S.E.C.
- D. PROVIDE AN OCCUPANCY SENSOR FOR CONTROL OF OUTDOOR AIR WHEN NOT OCCUPIED PER C403.7.2 OF THE W.S.E.C.
- E. INSULATE ALL DUCTS IN CONDITIONED SPACE TO R-3.3. INSULATE DUCTS IN UNCONDITIONED SPACE TO R-8. INSULATE OUTSIDE AIR DUCTS WITH R-21.
- F. INSULATE REFRIGERANT GAS PIPING WITH 1" U=0.27 INSULATION.
- G. ALL DUCTWORK SHOWN SHALL BE CONSTRUCTED TO 1" PRESSURE CLASSIFICATION PER SMACNA.
- H. ALL DUCT WORK SHALL BE SEALED. SEAL ALL TRANSVERSE JOINTS AND LONGITUDINAL SEAMS AS REQUIRED BY 603.90 OF THE INTERNATIONAL MECHANICAL CODE.
- I. PROVIDE ENERGY EFFICIENT MOTORS ON THE HVAC EQUIPMENT AS REQUIRED IN WASHINGTON STATE ENERGY CODE PARAGRAPH C405.8. MOTORS LESS THAN 1HP SHALL HAVE A MINIMUM EFFICIENCY OF 70%.
- J. ALL FANS SHALL HAVE A FAN EFFICIENCY GRADE (FEG) OF 67 OR HIGHER PER C403.8.3 OF THE W.S.E.C.
- K. TEST AND BALANCE EACH HVAC SYSTEM. ADJUST REGISTERS AND DAMPERS FOR AIR FLOW INDICATED ON DRAWINGS. ADJUST FAN SPEED FOR TOTAL AIR FLOW.
- L. COMMISSIONING NOT REQUIRED PER WSEC SECTION C408.1. SYSTEMS ARE LESS THAN 240,000 BTU/HR COOLING AND 300,000 BTU/HR HEATING.
- M. PROVIDE RECORD DRAWING, OWNERS MANUALS, BALANCING REPORT AND COMMISSIONING REPORT TO OWNER AT COMPLETION OF PROJECT. SEE C103.6 OF THE W.S.E.C.
- N. PROVIDE SYSTEMS OPERATIONS TRAINING TO THE BUILDING OWNER PER WSEC PARAGRAPH C103.6.4.

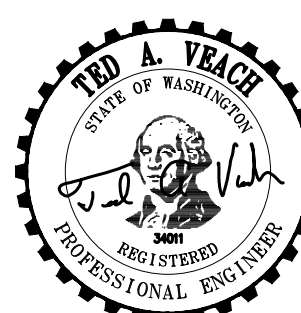
HVAC LEGEND

SYMBOL	DESCRIPTION	ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
— C —	CONDENSATE LINE	AAV	AUTOMATIC AIR VENT	MAX	MAXIMUM
— RG —	REFRIGERANT GAS	AFF	ABOVE FINISHED FLOOR	MBH	THOUSAND BTUH
— RL —	REFRIGERANT LIQUID	APPROX	APPROXIMATELY	MCA	MINIMUM CIRCUIT AMPS
	DUCT (FIRST FIGURE, SIDE SHOWN)	ARCH	ARCHITECTURAL	MECH	MECHANICAL
	LINED DUCT - DIM. FOR NET FREE AREA EOL = END OF LINING	AUTO	AUTOMATIC	MFR	MANUFACTURER
	RISE: R OR DROP: D ARROW IN DIRECTION OF FLOW	BLDG	BUILDING	MIN	MINIMUM
	DUCT SECTION (SUPPLY)	B.O.D	BOTTOM OF DUCT	NO	NORMALLY OPEN
	DUCT SECTION (EXHAUST OR RETURN)	BTU	BRITISH THERMAL UNIT	NO.	NUMBER
	ROUND DUCT	BTUH	BRITISH THERMAL UNIT/HOUR	NTS	NOT TO SCALE
	VOLUME DAMPER (MANUAL)	CAP	CAPACITY	OA	OUTSIDE AIR
	MOTORIZED DAMPER	CFM	CUBIC FEET PER MINUTE	OBD	OPPOSED BLADE DAMPER
	FLEXIBLE CONNECTION	CLG	CEILING	PD	PRESSURE DROP
	FIRE DAMPER	COMP	COMPRESSOR	PH	PHASE
	COMBINATION FIRE/SMOKE DAMPER	CONN	CONNECTION	P.O.C.	POINT OF CONNECTION
	FLEXIBLE DUCT	CONT	CONTINUE, CONTINUATION	RA	RETURN AIR
	TURNING VANES	COP	COEFFICIENT OF PERFORMANCE	REF	REFERENCE
	THERMOSTAT G = WITH GUARD, A = AVERAGED WITH OTHER	DB	DRY BULB	REQ'D	REQUIRED
	SWITCH	DEG F	DEGREE FAHRENHEIT	RLA	RATED LOAD AMPS
	TIME CLOCK BYPASS	DIA, Ø	DIAMETER	RM	ROOM
	INTERVAL TIMER	DL	DOOR LOUVER	RPM	REVOLUTIONS PER MINUTE
	THERMAL WELL	DN	DOWN	SA	SUPPLY AIR
	PRESSURE TEMPERATURE TEST PORT "PETE'S PLUG"	DWG	DRAWING	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
	DETAIL IDENTIFICATION NUMBER SHEET ON WHICH DETAIL IS SHOWN	(E)	EXISTING	S.O.	SCREENED OPENING
	SECTION IDENTIFICATION LETTER SHEET ON WHICH SECTION IS SHOWN	EA	EACH	TD	TRANSFER DUCT
		EAT	ENTERING AIR TEMPERATURE	TEMP	TEMPERATURE
		EDB	ENTERING DRY BULB	TG	TRANSFER GRILLE
		EER	ENERGY EFFICIENCY RATING	TYP	TYPICAL
		EFF	EFFICIENCY	U.C.	UNDERCUT DOOR
		ELEC	ELECTRICAL, ELECTRIC	UNO	UNLESS NOTED OTHERWISE
		EOL	END OF LINING	V	VOLTS, VOLTAGE
		ESP	EXTERNAL STATIC PRESSURE	VTR	VENT THROUGH ROOF
		EWB	ENTERING WET BULB	W	WATT
		EXH	EXHAUST	W/	WITH
		EXIST	EXISTING	WB	WET BULB
		FL	FLOOR	WCO	WALL CLEAN OUT
		FLA	FULL LOAD AMPS		
		FLEX	FLEXIBLE		
		FPM	FEET PER MINUTE		
		FV	FACE VELOCITY		
		GAL	GALLON		
		GALV.	GALVANIZED		
		HP	HORSE POWER		
		I.E.	INVERT ELEVATION		
		IN	INCH		
		INTEGR.	INTEGRAL		
		KW	KILOWATT		
		LAT	LEAVING AIR TEMPERATURE		
		LDB	LEAVING DRY BULB		
		LWB	LEAVING WET BULB		
		LWT	LEAVING WATER TEMPERATURE		

HVAC GENERAL NOTES

1. UNSIZED DUCTS SHALL MATCH THE SIZE OF THE LARGEST ADJACENT DUCT THAT IS SIZED. WHERE THE ADJACENT DUCT SIZE IS NOT SHOWN, PROVIDE THE FOLLOWING SIZED DUCTS (OR EQUIVALENT RECTANGULAR).
2. WHERE DUCT SIZES ARE NOT SHOWN, SIZE DUCTS FOR A MAXIMUM VELOCITY OF 500 FT/MIN.
3. VERIFY LOCATIONS OF ITEMS WITH ARCHITECTURAL PLANS PRIOR TO BEGINNING WORK. NOTIFY ARCHITECT/OWNER OF DISCREPANCIES.
4. CONTRACTOR SHALL CAREFULLY COORDINATE WORK W/ ALL OTHER TRADES, ESPECIALLY IN CEILING SPACES WHERE SPACE IS TIGHT.
5. ALL DUCTWORK SHOWN IS SCHEMATIC, CONTRACTOR SHALL PROVIDE ALL OFFSETS/ELBOWS AS REQ'D TO ALLOW ROUTING AROUND STRUCTURE, ELECTRICAL, & OTHER INTERFERENCES.
6. ALL DUCT WALL PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE PROVIDED WITH CLOSURE COLLARS AND BE TIGHTLY SEALED TO PREVENT THE TRANSMISSION OF NOISE.
7. SHIFT AIR INLETS/OUTLETS FROM LOCATIONS SHOWN AS REQ'D TO AVOID CONFLICTS W/STRUCTURE & OTHER ITEMS. SUCH SHIFTS SHALL MAINTAIN SYMMETRY OF AIR TERMINALS & SHALL HAVE PRIOR APPROVAL OF ARCHITECT/ENGINEER.
8. PROVIDE MANUAL VOLUME DAMPERS IN ALL BRANCH DUCTS AND SPLITS IN MAIN DUCTS AND WHERE REQ'D BY BALANCERS.
9. PROVIDE PRIMARY CONDENSATE DRAINS FOR AIR CONDITIONING COIL IN ACCORDANCE WITH IMC REQUIREMENTS & AS SHOWN ON PLANS.

VEACH Consulting Engineers L.L.C.
12202 Pacific Ave. S Suite B Tacoma, WA 98444
 Ph: 253-274-5701 Fax: 253-274-5688 Proj# 2326



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**KOPACHUCK
STATE PARK**

WELCOME CENTER

**MECHANICAL
LEGEND &
NOTES**

M0.1

SCALE

AS NOTED

SHEET 31 OF 40

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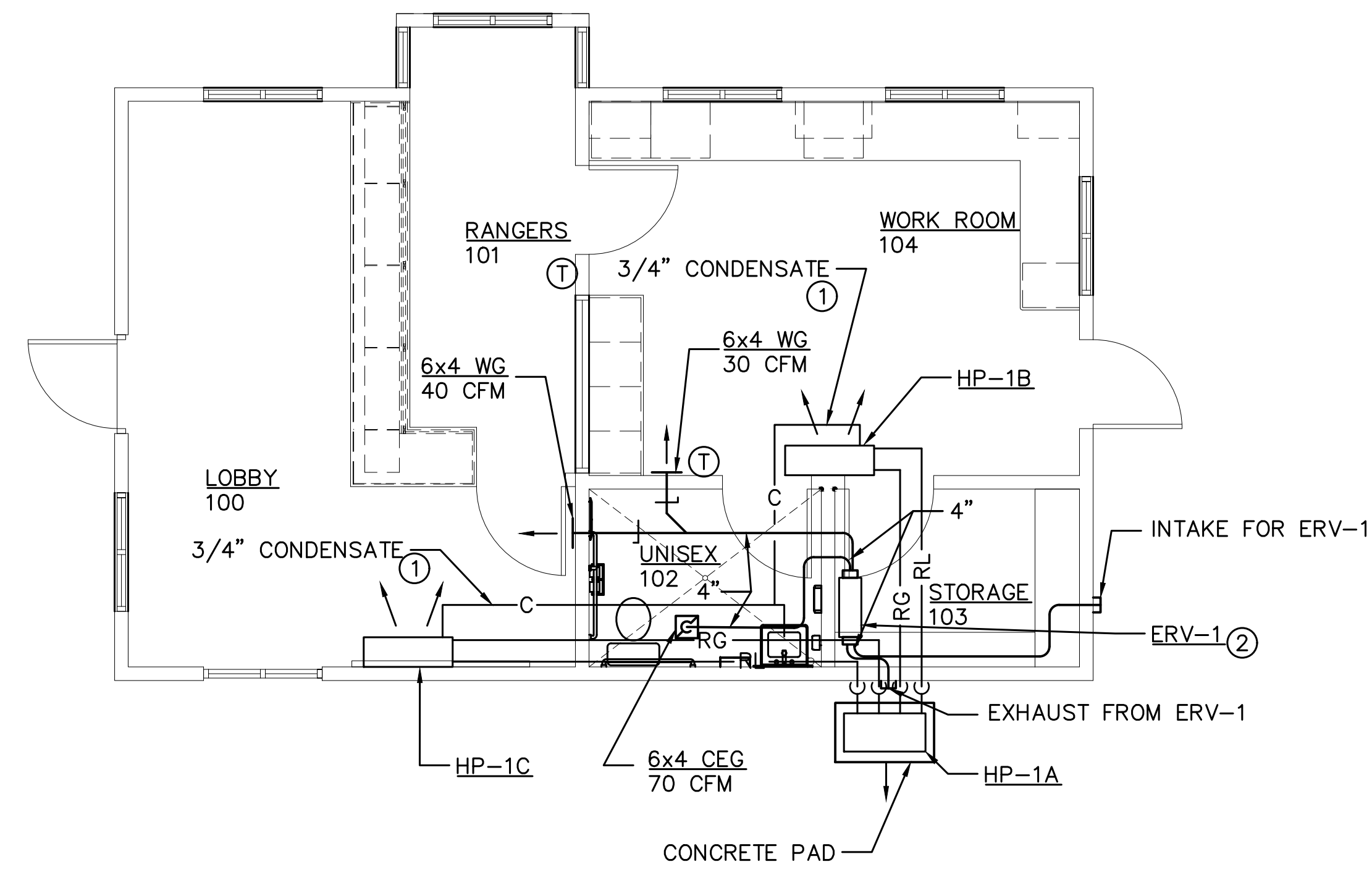
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DESIGNED	TV	08/21/23
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CHECKED (FIELD)		
CHECKED (HQDTS.)		

DRAWING NOTES:

1. CONTRACTOR SHALL COORDINATE DUCT INSTALLATION AND OFFSET DUCTS AROUND BUILDING FEATURES, INCLUDING LIGHTS, PLUMBING, CONDUIT, FIRE SPRINKLER PIPING, AND OTHERS.
2. PROVIDE 45° CHAMFERED DUCT TAPS FOR ALL RECTANGULAR BRANCH DUCTS. PROVIDE 45° CONICAL TAPS FOR ALL ROUND BRANCH DUCTS.
3. SEE ENERGY CODE NOTES ON SHEET M0.1 AND SPECIFICATION 15900 FOR HVAC CONTROL WORK.
4. AIR BALANCING CONTRACTOR SHALL VERIFY SUPPLY AIR FLOW, RETURN AIR FLOW, AND OUTSIDE AIR QUANTITIES FOR EACH NEW HVAC UNIT. ADJUST DAMPER POSITIONS AND FAN SPEED TO ACHIEVE AIR FLOWS LISTED ON SCHEDULES.



KEYED NOTES:

- ① CONNECT CONDENSATE TO LAVATORY PER DETAIL 3/M0.2.
- ② MOUNT HIGH ON WALL, SEE ARCHITECTURAL ELEVATIONS.

HVAC PLAN - WELCOME CENTER
 SCALE: 1/4" = 1' - 0"

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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK
 WELCOME CENTER
 HVAC PLAN
 M1.0

SCALE AS NOTED

ENERGY CODE REQUIREMENTS

- A. WATER HEATERS SHALL MEET THE MINIMUM EFFICIENCIES (EER) LISTED IN THE 2018 WASHINGTON STATE ENERGY CODE TABLE C404.2.
- B. INSULATE DOMESTIC HOT WATER PIPING WITH U=0.27 INSULATION. UNDER 1-1/2" DIAMETER: 1" INSULATION. 1-1/2" AND OVER: 1-1/2" INSULATION.
- C. COMMISSIONING IS NOT REQUIRED PER WSEC PARAGRAPH C408.1. WATER HEATING SYSTEM IS LESS THAN 200,000 BTU/HR.
- D. PROVIDE RECORD DRAWING, OWNERS MANUALS, BALANCING REPORT AND COMMISSIONING REPORT TO OWNER AT COMPLETION OF PROJECT. SEE C103.6 OF THE W.S.E.C.
- E. PROVIDE SYSTEMS OPERATIONS TRAINING TO THE BUILDING OWNER PER WSEC PARAGRAPH C103.6.4.

PIPING MATERIAL SCHEDULE

PIPING	LOCATION	MATERIAL	JOINT
COLD WATER	ABOVE GROUND	COPPER TYPE L	LEAD FREE SOLDER
		COPPER TYPE L	PROGRESS MECH JOINT
HOT WATER	ABOVE GROUND	COPPER TYPE L	LEAD FREE SOLDER
		COPPER TYPE L	PROGRESS MECH JOINT
WASTE	ALL	ABS/PVC SOLID CORE	
VENT	ALL	ABS/PVC SOLID CORE	GLUE

PLUMBING GENERAL NOTES

1. VERIFY LOCATIONS OF ITEMS WITH ARCHITECTURAL PLANS PRIOR TO BEGINNING WORK. NOTIFY ARCHITECT/OWNER OF DISCREPANCIES.
2. MECHANICAL EQUIPMENT 1/2 HP AND LESS SHALL HAVE STARTER/CONTROL RELAY PROVIDED BY DIVISION 23. STARTERS FOR MECHANICAL EQUIPMENT LARGER THAN 1/2 HP PROVIDED BY DIVISION 26.
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 SHOWN IS SCHEMATIC, CONTRACTOR SHALL PROVIDE ALL OFFSETS/ELBOWS AS REQ'D TO ALLOW ROUTING AROUND STRUCTURE, ELECTRICAL, & OTHER INTERFERENCES.
5. UNSIZED PLUMBING PIPING 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.
6. MATERIALS, METHODS, AND INSTALLATION SHALL COMPLY WITH THE PROVISIONS OF THE 2018 EDITION OF THE UNIFORM PLUMBING CODE, AND 2018 INTERNATIONAL MECHANICAL CODE.
7. ALL PIPE SIZES NOTED ON DRAWINGS ARE MINIMUMS.
8. SLOPE ALL WASTE PIPING AT 2% UNLESS OTHERWISE NOTED ON DRAWINGS. OBTAIN APPROVAL FROM CODE AUTHORITY BEFORE INSTALLING WASTE PIPING AT LESS THAN 2% (EVEN IF LESSER SLOPE IS INDICATED ON DRAWINGS).
9. HANGERS AND SUPPORTS FOR PIPING SHALL BE IN ACCORDANCE WITH SECTION 314 OF THE 2018 UNIFORM PLUMBING CODE.
10. PIPING PENETRATIONS OF FIRE RATED WALLS OR FLOORS SHALL BE SLEEVED AND FIRE STOPPED WITH LISTED MATERIALS SO AS TO MAINTAIN THE INTEGRITY AND RATING OF THE FLOOR OR WALL.
11. FOR EXACT ROUGH-IN LOCATIONS AND ELEVATIONS OF PLUMBING FIXTURES REFER TO ARCHITECTURAL DRAWINGS.
12. PROVIDE STOPS OR ANGLE VALVES AT ALL FIXTURES.
13. PROVIDE DIELECTRIC CONNECTIONS BETWEEN DISSIMILAR METALS.
14. CLEANOUTS SHALL BE INSTALLED SO THEY ARE EASILY ACCESSIBLE.
15. PLUMBING EQUIPMENT, VALVES AND TRAP PRIMERS SHALL BE LOCATED IN EASILY ACCESSIBLE LOCATIONS. UNLESS SHOWN ON ARCHITECTURAL DRAWINGS, REQUIRED ACCESS PANELS SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
16. THE PLUMBER SHALL PROVIDE AND LOCATE ALL REQUIRED FLOOR, WALL, AND FOOTING SLEEVES.

PLUMBING LEGEND

SYMBOL	DESCRIPTION	ABBREV.	DESCRIPTION
—	WASTE OR SOIL (W)	AFF	ABOVE FINISHED FLOOR
—	VENT (V)	APPROX	APPROXIMATELY
—	COLD WATER (CW)	ARCH	ARCHITECTURAL
—	HOT WATER (HW)	AUTO	AUTOMATIC
—	HOT WATER CIRCULATING (HWC)	BLDG	BUILDING
—	FIRE LINE	BTU	BRITISH THERMAL UNIT
— F —	FIRE LINE	BTUH	BRITISH THERMAL UNIT/HOUR
— C —	CONDENSATE LINE	CAP	CAPACITY
— D —	DRAIN LINE	CLG	CEILING
— G —	GAS LINE	CO	CLEANOUT
— X —	ISOLATION GATE TYPE VALVE (EXCEPT WHERE INDICATED)	COMP	COMPRESSOR
— GLOBE —	GLOBE VALVE	CONN	CONNECTION
— BALL —	BALL VALVE	CONT	CONTINUE, CONTINUATION
— Q —	TEMPERING VALVE	COP	COEFFICIENT OF PERFORMANCE
— ANGLE —	ANGLE VALVE	DB	DRY BULB
— COMB —	COMBINATION SHUT-OFF & BALANCING VALVE	DEG F°	DEGREE FAHRENHEIT
— CHECK —	CHECK VALVE	DIA, Ø	DIAMETER
— BUTTERFLY —	BUTTERFLY VALVE	DN	DOWN
— SOLENOID —	SOLENOID VALVE	DWG	DRAWING
— GAS SEISMIC —	GAS SEISMIC SHUT-OFF VALVE	(E)	EXISTING
— GAS REGULATOR —	GAS REGULATOR	EA	EACH
— UNION —	UNION	EFF	EFFICIENCY
— RELIEF —	RELIEF VALVE OR SAFETY VALVE	ELEC	ELECTRICAL, ELECTRIC
— STRAINER —	STRAINER	EXIST	EXISTING
— CONSTANT FLOW —	CONSTANT FLOW VALVE	FCO	FLOOR CLEAN OUT
— CONCENTRIC REDUCER —	CONCENTRIC REDUCER	FL	FLOOR
— ECCENTRIC REDUCER —	ECCENTRIC REDUCER	FLA	FULL LOAD AMPS
— HOSE BIBB —	HOSE BIBB	FLEX	FLEXIBLE
— PIPE / DUCT TURN UP —	PIPE / DUCT TURN UP	FPM	FEET PER MINUTE
— PIPE / DUCT TURN DOWN —	PIPE / DUCT TURN DOWN	GAL	GALLON
— PIPE / DUCT POINT OF CONNECTION —	PIPE / DUCT POINT OF CONNECTION	GALV.	GALVANIZED
— WATER HAMMER ARRESTOR (P.D.I. SIZE AS SHOWN) —	WATER HAMMER ARRESTOR (P.D.I. SIZE AS SHOWN)	HP	HORSE POWER
— PRESSURE GAUGE —	PRESSURE GAUGE	I.E.	INVERT ELEVATION
— THERMOMETER —	THERMOMETER	IN	INCH
— THERMAL WELL —	THERMAL WELL	INTEGR.	INTEGRAL
— PRESSURE TEMPERATURE TEST PORT "PETE'S PLUG" —	PRESSURE TEMPERATURE TEST PORT "PETE'S PLUG"	KW	KILOWATT
— 1 M3 —	DETAIL IDENTIFICATION NUMBER SHEET ON WHICH DETAIL IS SHOWN	LWT	LEAVING WATER TEMPERATURE
— A M3 —	SECTION IDENTIFICATION LETTER SHEET ON WHICH SECTION IS SHOWN	MAX	MAXIMUM
		MBH	THOUSAND BTUH
		MECH	MECHANICAL
		MFR	MANUFACTURER
		MIN	MINIMUM
		NO	NORMALLY OPEN
		NO.	NUMBER
		NTS	NOT TO SCALE
		PD	PRESSURE DROP
		P.D.I.	PLUMBING AND DRAINAGE INST.
		P.O.C.	POINT OF CONNECTION
		REF	REFERENCE
		REQ'D	REQUIRED
		RLA	RATED LOAD AMPS
		RM	ROOM
		RPM	REVOLUTIONS PER MINUTE
		SCO	SURFACE CLEAN OUT
		TEMP	TEMPERATURE
		TYP	TYPICAL
		UNO	UNLESS OTHERWISE NOTED
		V	VOLTS, VOLTAGE
		VTR	VENT THROUGH ROOF
		W	WATT
		W/	WITH
		WCO	WALL CLEAN OUT

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SHEET 34 OF 40

BID SET

CAD NO.

DATE	APP.	REVISIONS	INC.

ACTION	BY	DATE
DESIGNED	TV	08/21/23
DRAWN	AH	08/21/23
CHECKED (FIELD)		
CHECKED (HQTS.)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

WELCOME CENTER

PLUMBING LEGEND & NOTES

P0.1

SCALE

AS NOTED

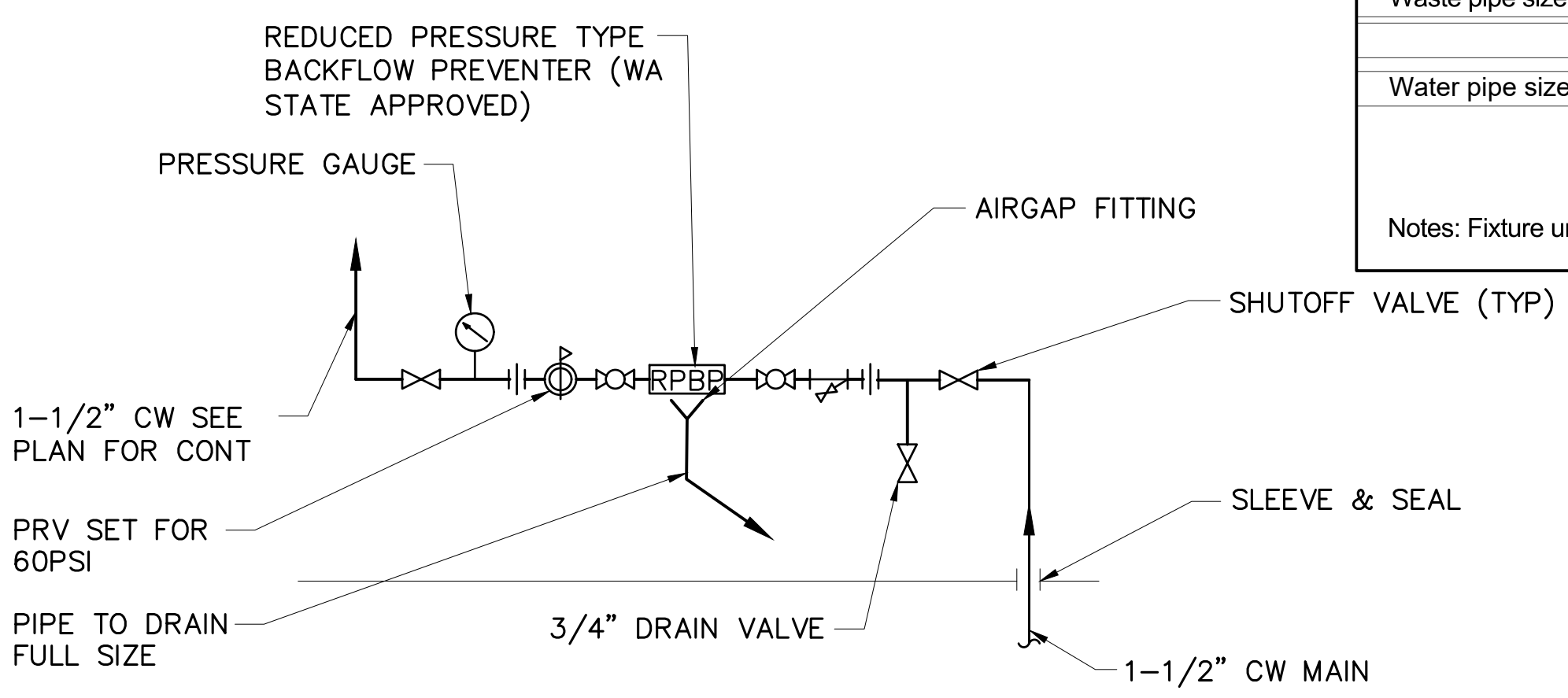
PARKS FILE#

WATER HEATER SCHEDULE											
SYMBOL	SPECIFIED MFR. AND MODEL NO.	TYPE	AREA SERVED	INPUT RATING	STORAGE (GAL)	DOMESTIC HW			ELECTRICAL		REMARKS
						GPH	EWT	LWT	FLA	VOLTS/PH	
WH-1	AO SMITH DEL-6	ELECTRIC TANK	WELCOME CENTER	1500W	6	8	50	120	6.3	240/1	-

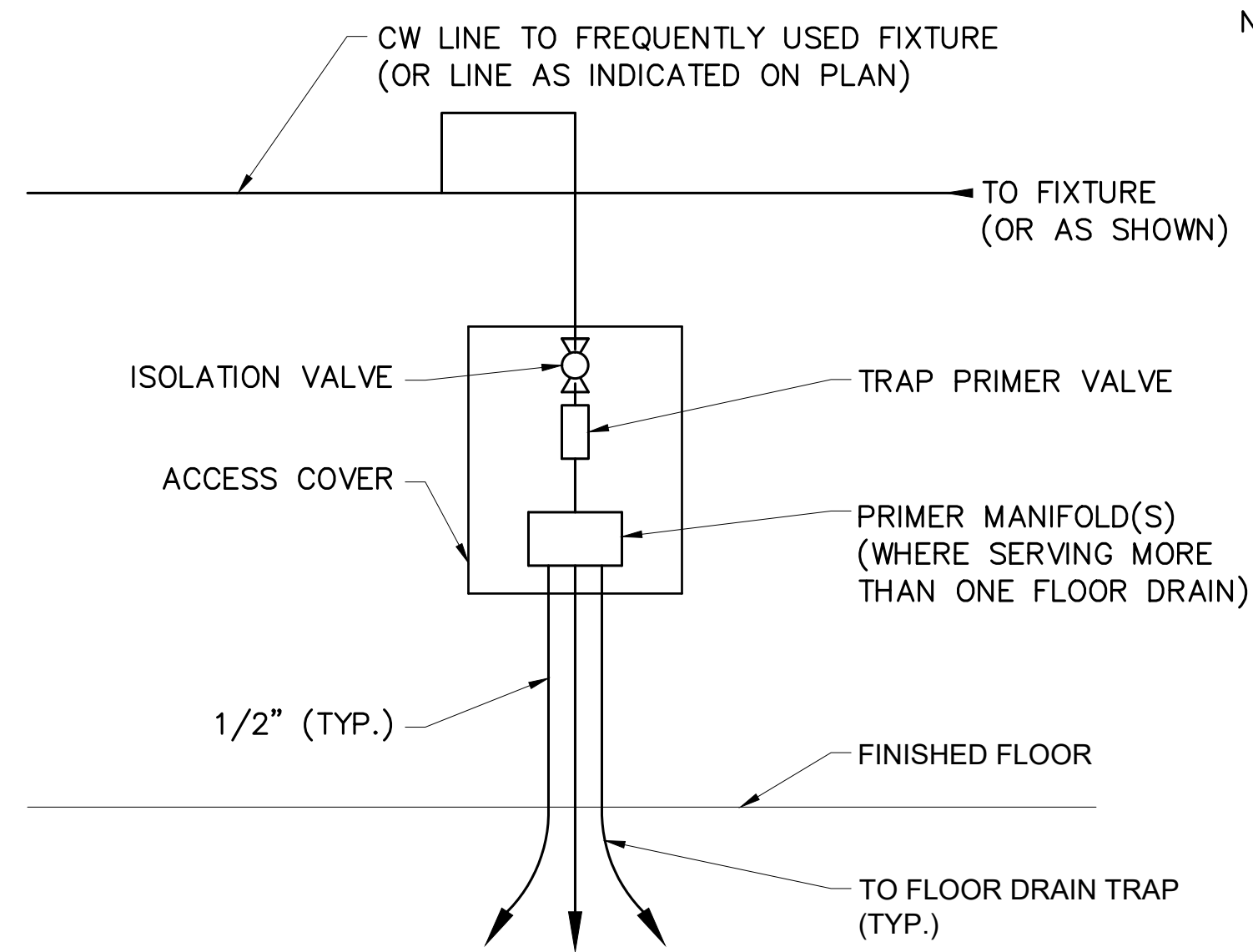
PLUMBING FIXTURE SCHEDULE						
SYMBOL	DESCRIPTION	W	V	CW	HW	REMARKS
P-1A	WATER CLOSET	4"	2"	1"	-	WALL MOUNT HANDICAP ACCESSIBLE
P-3A	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	WALL MOUNT HANDICAP ACCESSIBLE
P-10A	WALL HYDRANT	-	-	1/2"	1/2"	HOT AND COLD MIXING WITH HOSE CONNECTION
P-10B	WALL HYDRANT	-	-	1/2"	-	FREEZE PROOF VANDAL RESISTANT KEY OPERATED
P-11A	FLOOR DRAIN	2"	1 1/2"	-	-	W/ TRAP PRIMER

PLUMBING Waste / Water Sizing							
Project: Kopachuck State Park				Date: 8/21/2018			
Area: Welcome Center				By: Andrew H.			
Fixture	Qty	DFU		WSFU		CW	HW
		Each	Total	Each	Total		
Water Closet	1	3	3	5	5	5	0
Lavatory	1	1	1	1	1	0.75	0.75
Floor Drain	2	0	0	0	0	0	0
Hose Bib (First)	1	0	0	2.5	2.5	2.5	0
Hose Bib (Add'l)	1	0	0	1	1	1	0
TOTALS			4		10	9	1
Waste pipe size per UPC:		Total		4	DFU	4	Inch
					SLOPE	2%	
Water pipe size per UPC:		Total	10 WSFU	27	gpm=	1-1/2 inch	
		CW	9 WSFU	26	gpm=	1-1/2 inch	
		HW	1 WSFU	1	gpm=	1/2 inch	

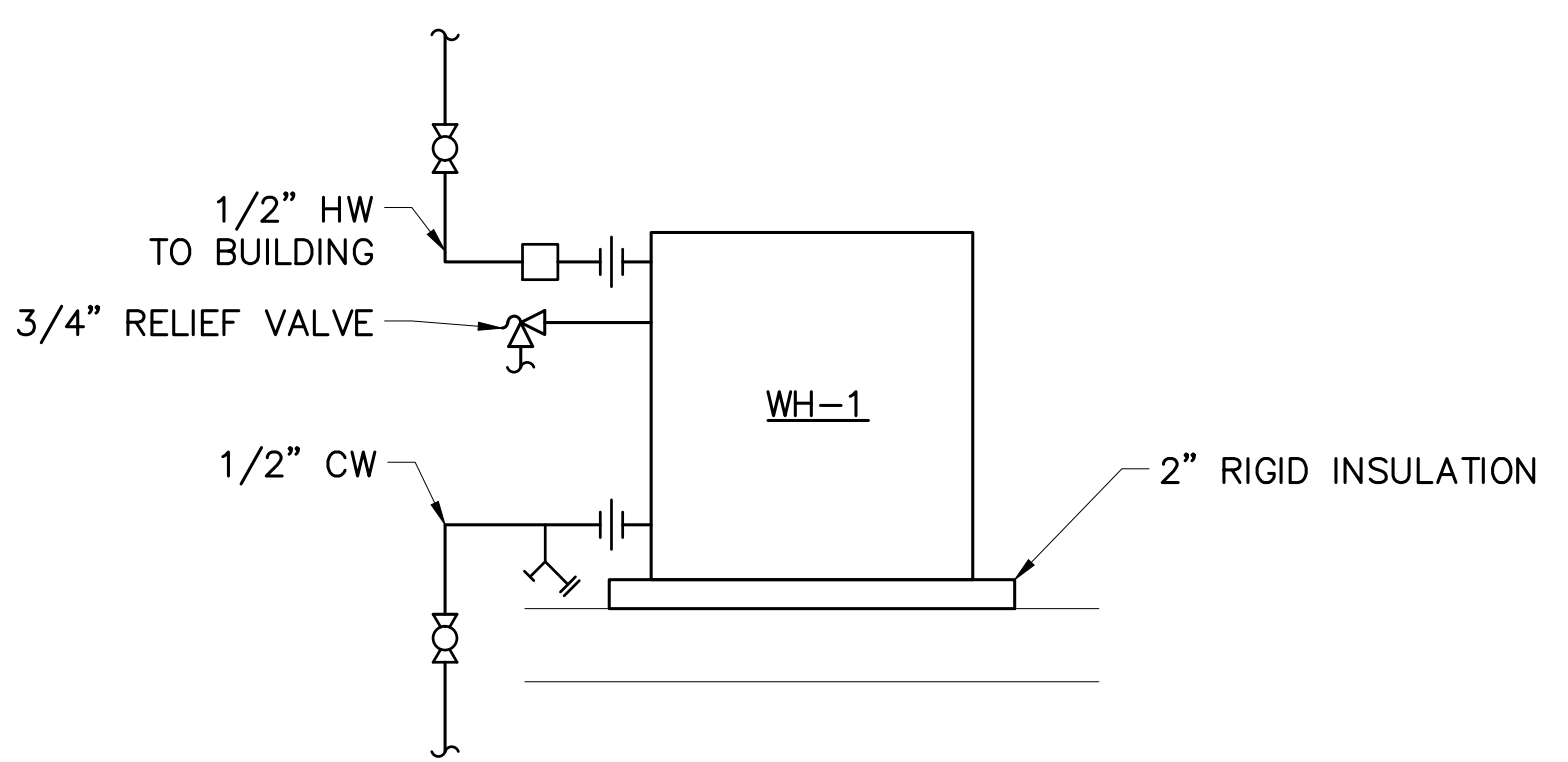
Notes: Fixture units based on 2018 UPC Appendix A.



COLD WATER HEADER DETAIL 1 P0.2
NOT TO SCALE



TRAP PRIMER DETAIL 3 P0.2
NTS

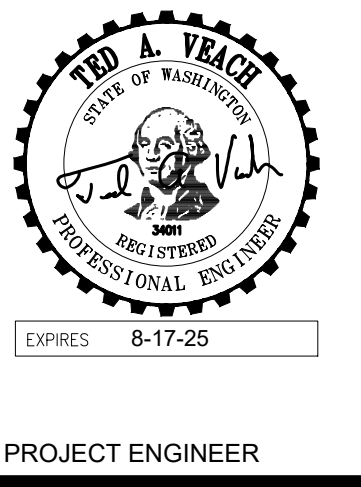


WATER HEATER DETAIL 2 P0.2
NTS

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CHECKED (HDQTS.)		

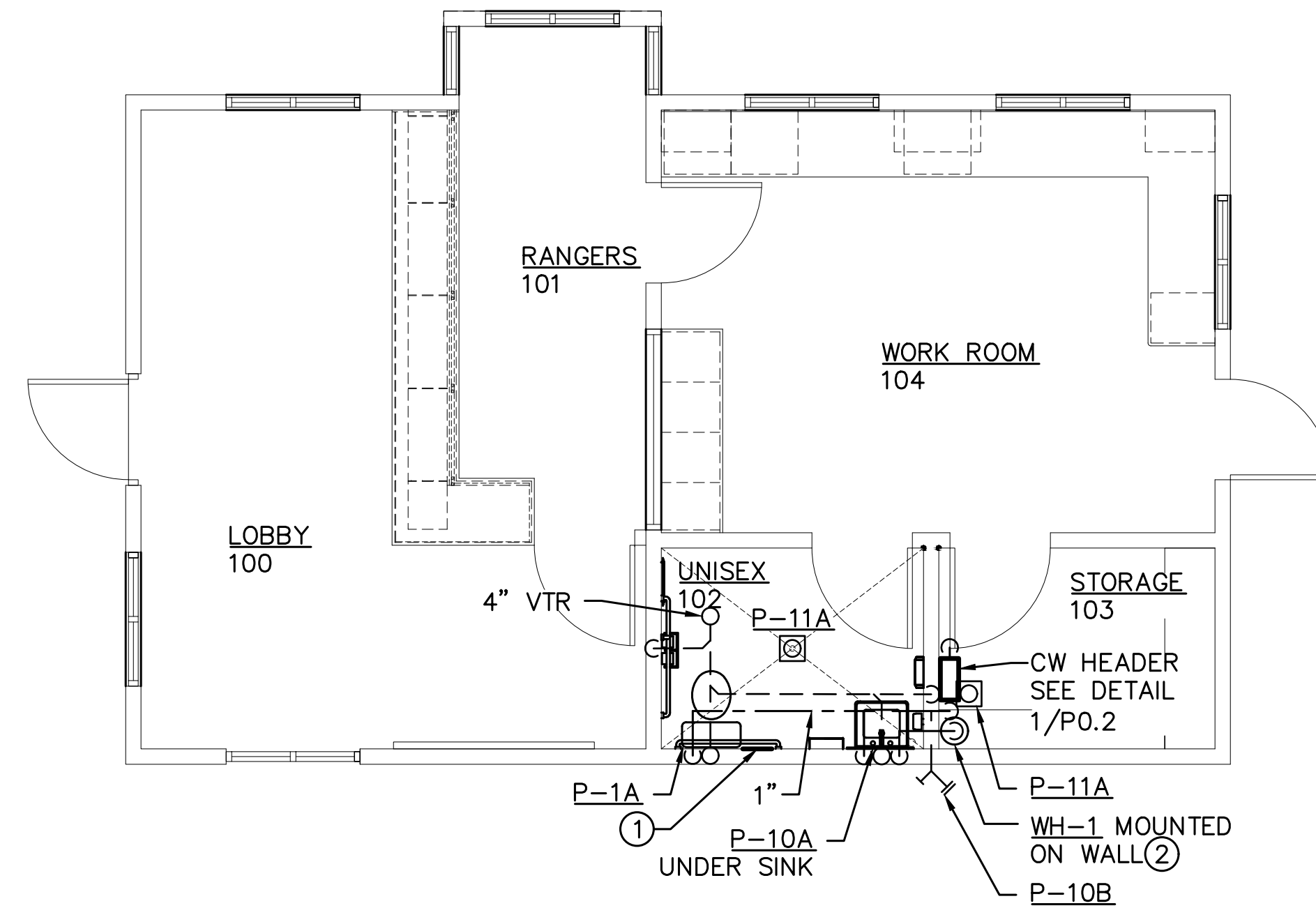


WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK
WELCOME CENTER

SCHEDULES & DETAILS

P0.2



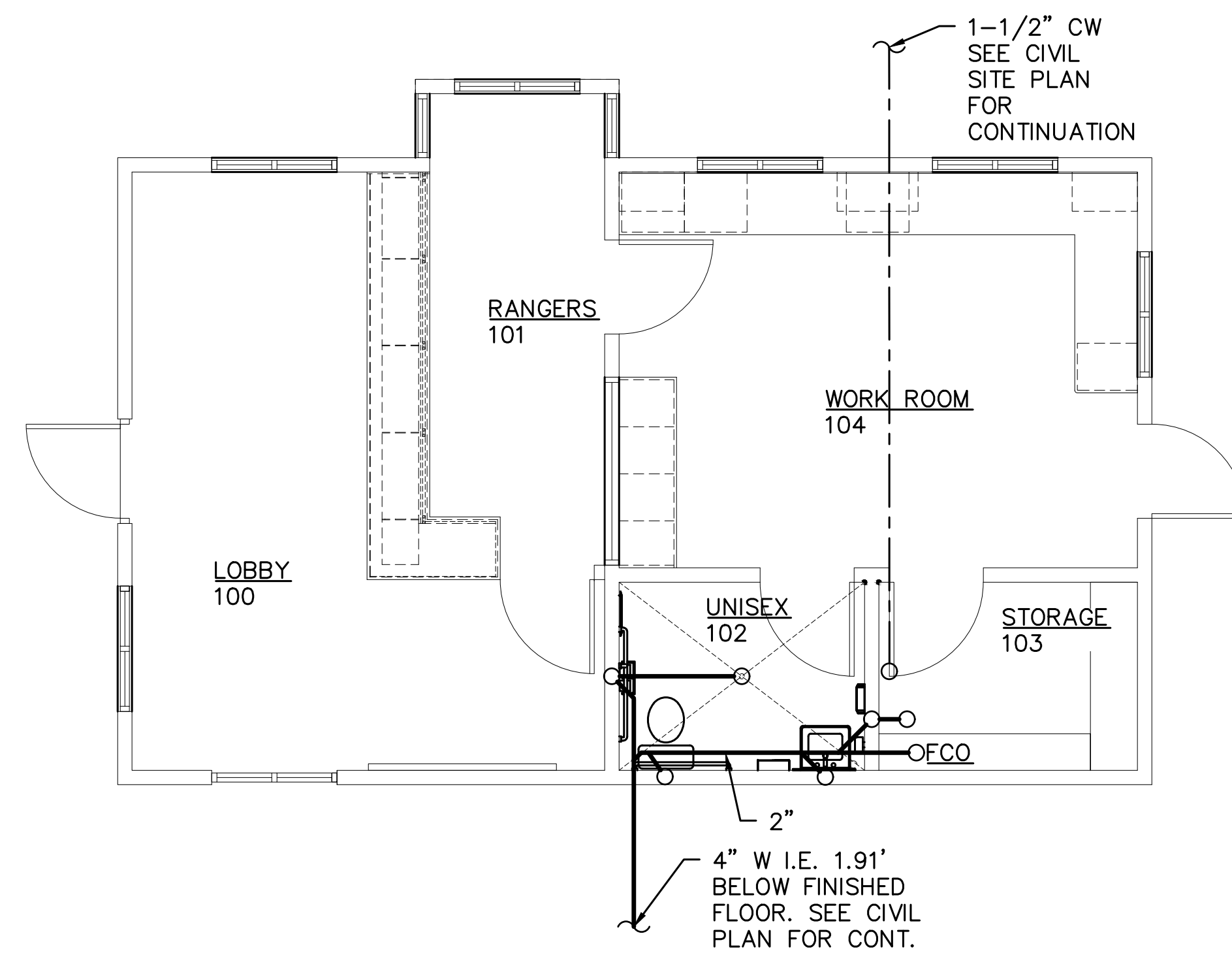
PLUMBING PLAN
SCALE: 1/4" = 1' - 0"

DRAWING NOTES:

1. ALL PLUMBING INSTALLATION SHALL BE PER 2018 UNIFORM PLUMBING CODE.
2. PROVIDE WALL CLEANOUTS WHERE SHOWN AND AS REQUIRED TO MEET CODE.
3. FOR PIPING SIZES TO INDIVIDUAL PLUMBING FIXTURES SEE PLUMBING FIXTURE SCHEDULE.
4. OFFSET WASTE PIPING AS REQUIRED TO AVOID FOOTINGS, FOUNDATIONS, ELECTRICAL SERVICE, AND OTHER OBSTRUCTIONS. SEE STRUCTURAL AND ELECTRICAL DRAWINGS.
5. INVERT ELEVATIONS SHOWN ARE BASED ON FINISHED FLOOR ELEVATION AND 1/4" PER FOOT SLOPE.
6. ALL ISOLATION VALVES SHALL BE ACCESSIBLE. LOCATE VALVE HANDLES TO TURN FULLY WITHOUT OBSTRUCTION.
7. SEE WATER HEATER DETAIL 2/P0.2 FOR CONNECTION OF WATER HEATERS.

KEYED NOTES:

- ① TRAP PRIMER AND WATER HAMMER BEHIND KEYED ACCESS DOOR. SEE DETAIL 3/P0.2
- ② SEE WATER HEATER DETAIL 2/P0.2

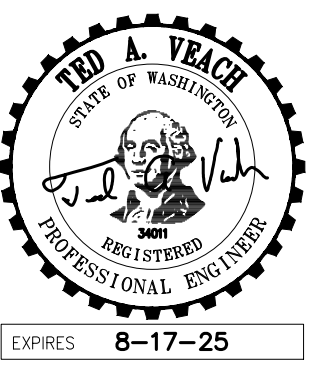


FOUNDATION PLUMBING PLAN
SCALE: 1/4" = 1' - 0"

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ACTION	BY	DATE
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DRAWN	AH	08/21/23
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CHECKED (HDQTS.)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK
WELCOME CENTER
PLUMBING PLAN



P1.0

SCALE AS NOTED

SYMBOLS AND ABBREVIATIONS














CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

PANELBOARDS






-  208V SYSTEM PANELBOARD
-  480V SYSTEM PANELBOARD

CIRCUITS
EMERGENCY NORMAL















LIGHTING

- N/A  LOWER-CASE LETTER NEAR FIXTURE DENOTES SWITCH LEG, TYP
-  RECESSED RECTANGULAR FIXTURE, DRAWN TO SCALE
-  SURFACE MOUNTED RECTANGULAR FIXTURE, DRAWN TO SCALE
-  WALL MOUNTED RECTANGULAR FIXTURE, LENGTH TO SCALE (NUMBER OF MOUNTING POINTS WILL VARY WITH FIXTURE LENGTH AND ARE NOT INDICATED)
-  RECESSED DOWNLIGHT FIXTURE
-  PENDANT MOUNTED FIXTURE
-  LINEAR PENDANT MOUNTED FIXTURE, LENGTH TO SCALE (NUMBER OF MOUNTING POINTS WILL VARY WITH FIXTURE LENGTH AND ARE NOT INDICATED)
-  WALL MOUNTED FIXTURE
-  EXIT SIGN, FILLED SIDES ARE ILLUMINATED, DIRECTIONAL ARROWS AS INDICATED
- N/A  EMERGENCY BATTERY PACK
- N/A  EXIT WITH EMERGENCY BATTERY PACK
- N/A  CEILING MOUNTED WALL WASH FIXTURE, OPEN AREA INDICATES DIRECTION OF ILLUMINATION
-  FIXTURE IDENTIFICATION, SEE LIGHTING FIXTURE SCHEDULE

LIGHTING SWITCHES AND CONTROLS





-  LOWER-CASE LETTER NEAR SWITCH DENOTES CIRCUIT CONTROLLED (TYP)
-  SINGLE POLE SWITCH
-  3-WAY SWITCH
-  OCCUPANCY SENSOR SWITCH
-  DIMMER SWITCH

CIRCUITS




-  RACEWAY CONCEALED IN CEILING OR WALL. HASH MARKS INDICATE NUMBER OF WIRES. #12 AWG WIRE UNLESS OTHERWISE NOTED. EXPOSED RACEWAY IS ALLOWED ONLY WHERE NOTED.
-  HOT (SHORT HASH MARK)
-  NEUTRAL (LONG HASH MARK)
-  GROUND WIRE (JOGGED HASH MARK)
-  EXISTING RACEWAY (IF HASH MARKS ARE SHOWN, PULL NEW CONDUCTORS)
-  RACEWAY BELOW SLAB OR UNDERGROUND
-  RACEWAY UP
-  RACEWAY DOWN
-  RACEWAY STUB-OUT WITH BUSHING
-  CIRCUIT CONTINUATION
-  HOME RUN TO PANEL OR LOCATION NOTED
-  JUNCTION BOX
-  PULL BOX
-  TA-38 COMM VAULT

CIRCUITS
EMERGENCY NORMAL

RECEPTACLES

-  DUPLEX RECEPTACLE, 120V, 20A
-  GFCI DUPLEX RECEPTACLE, 120V, 20A
-  WEATHERPROOF, GFCI DUPLEX RECEPTACLE, 120V, 20A
-  DOUBLE DUPLEX RECEPTACLE, 120V, 20A

RECEPTACLE TYPES

-  MOUNTED 3" ABOVE COUNTER BACKSPASH
-  GROUND FAULT CIRCUIT INTERRUPTER
-  GROUND FAULT CIRCUIT INTERRUPTER WITH WEATHER PROOF COVER
















CONTROLS

-  FUSED DISCONNECT SWITCH (FUSE RATING INDICATED)

EQUIPMENT

-  EQUIPMENT CONNECTION, E = EMERGENCY POWER

WORK DEFINITION

-  FLAG NOTE
-  REVISION IDENTIFICATION
-  EQUIPMENT IDENTIFICATION
-  EQUIPMENT IDENTIFICATION
-  DETAIL REFERENCE
-  DETAIL REFERENCE W/ORIGINATING SHEET REFERENCE
-  SECTION REFERENCE
-  SECTION REFERENCE W/ORIGINATING SHEET REFERENCE
-  ELEVATION REFERENCE
-  PROJECT NORTH REFERENCE
-  PROJECT NORTH REFERENCE W/TRUE NORTH REFERENCE
-  NEW WORK
-  EXISTING
-  FUTURE
-  REMOVE EXISTING ELECTRICAL EQUIPMENT

OUTLET MOUNTING HEIGHTS

SPECIAL OUTLET HEIGHTS ARE SHOWN ON THE ELECTRICAL DRAWINGS OR ON THE ARCHITECTURAL DRAWINGS. IF SPECIAL OUTLET HEIGHTS ARE NOT SHOWN OR REQUIRED, THEN LOCATE OUTLETS AS NOTED BELOW. OUTLET HEIGHTS ARE MEASURED FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE OUTLET UNLESS OTHERWISE NOTED.

RECEPTACLES	18 INCHES (460 mm) VERTICALLY MOUNTED
SWITCHES	43 INCHES (1095 mm) VERTICALLY MOUNTED
PANELBOARDS	72 INCHES (1830 mm) TO TOP OF PANELBOARD IF BOX < 68 INCHES (1730 mm) HIGH, OTHERWISE PER NEC 404.8

GENERAL NOTES

- COMPLY WITH THE NATIONAL ELECTRICAL CODE AS ADOPTED AND AMENDED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- THE LOCATIONS OF ELECTRICAL DEVICES OR LIGHTING FIXTURES INDICATED ON ARCHITECTURAL PLANS ELEVATIONS OR SECTIONS TAKE PRECEDENCE OVER LOCATIONS INDICATED ON THE ELECTRICAL DRAWINGS.
- REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LIGHTING FIXTURE LOCATIONS.
- FOR LIGHTING CONTROLS WHICH INCLUDE OCCUPANT SENSING AUTOMATIC CONTROLS, AUTOMATIC SHUT-OFF CONTROLS, OCCUPANCY SENSORS, OR AUTOMATIC TIME SWITCHES THE LIGHTING CONTROLS SHALL BE TESTED TO ENSURE THAT CONTROL DEVICES, COMPONENTS, EQUIPMENT, AND SYSTEMS ARE CALIBRATED, ADJUSTED, AND OPERATE IN ACCORDANCE WITH PROJECT PLANS AND SPECIFICATIONS. SEQUENCE OF OPERATION SHALL ALSO BE FUNCTIONALLY TESTED TO ENSURE IT IS OPERATING IN ACCORDANCE WITH PROJECT PLANS AND SPECIFICATIONS. A COMPLETE REPORT OF TEST PROCEDURES AND RESULTS SHALL BE PREPARED AND FILED WITH THE OWNER.

DATE	APP.	INT.	NO.

ACTION	BY	DATE
DESIGNED	CBF	NOV. 2023
DRAWN	JTW	NOV. 2023
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PROJECT ENGINEER

WASHINGTON
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KOPACHUCK
STATE PARK

WELCOME CENTER

SYMBOLS AND
ABBREVIATIONS

E0.00

SCALE

AS NOTED

PARKS FILE#



3400 188th Street SW Suite 285
Lynnwood Washington 98037-4772
(206) 667-0555

SHEET 37 OF 40

BID SET

	DATE
	APP.
	INT.
	REVISIONS
	NO.

ACTION	BY	DATE
DESIGNED	CBF	NOV. 2023
DRAWN	JTW	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

KOPACHUCK STATE PARK

WELCOME CENTER

FLOOR PLAN - LIGHTING

E2.11

SCALE AS NOTED

PARKS FILE#

GENERAL NOTES:

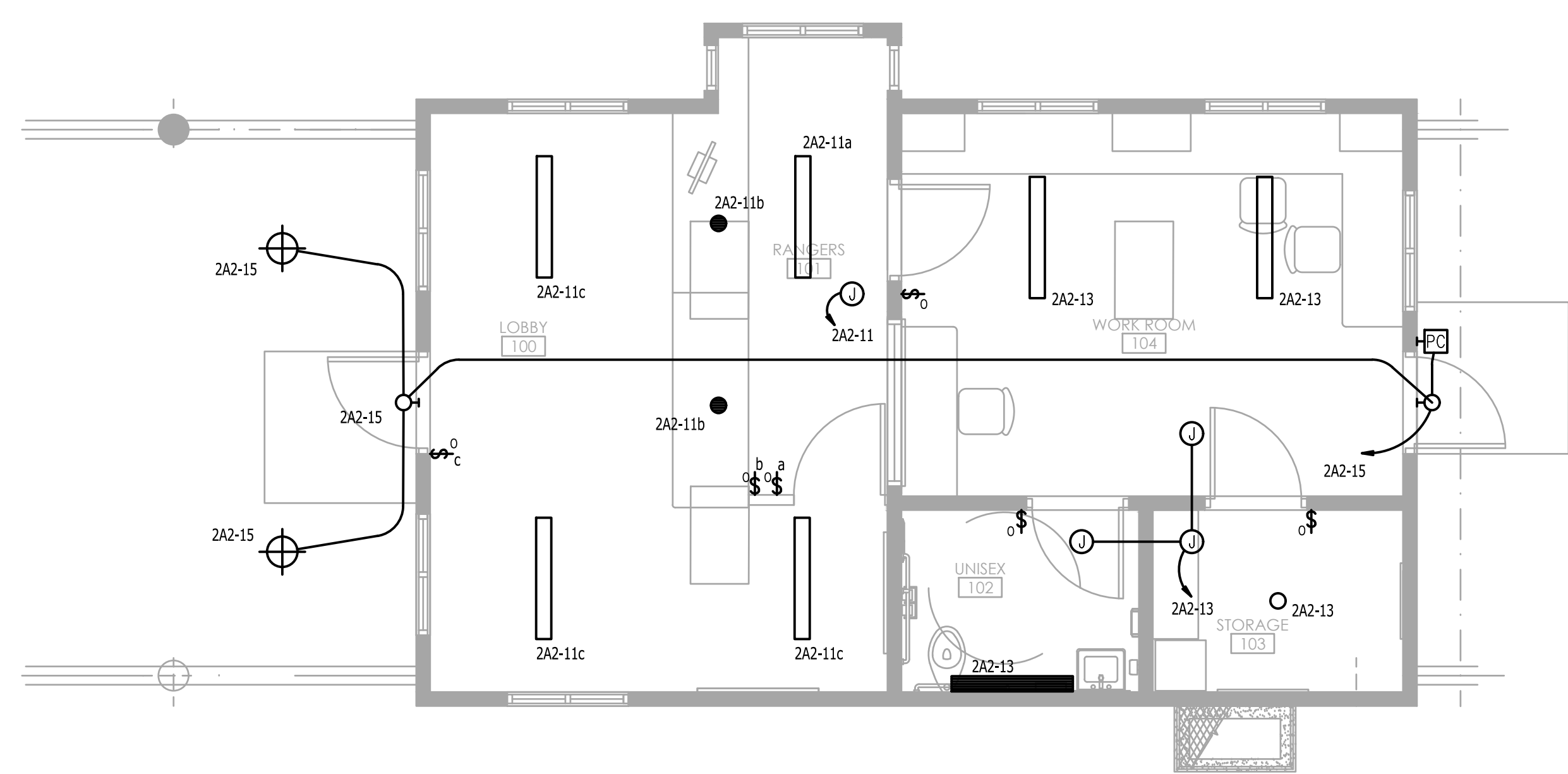
1. REQUIRED RACEWAY, CONDUCTORS, AND JUNCTION BOXES ARE NOT SHOWN ON PLANS IN THEIR ENTIRETY. CONTRACTOR SHALL PROVIDE ALL DEVICES AND APPURTENANCES REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM. JUNCTION BOXES SHOWN IN HARD LID CEILING ARE SHOWN TO COMMUNICATE DESIGN INTENT ONLY.

FLAG NOTES:

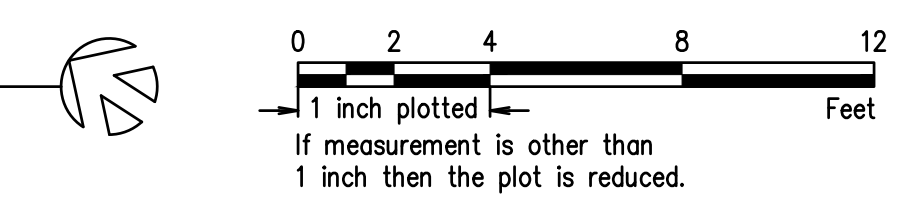
- NOT USED.

LEGEND

- PENDANT MOUNTED LED, NARROW LINEAR FIXTURE, 3" WIDE, LENGTHS AS SHOWN. PINNACLE EDGE EX, 3500K CCT, 695 LUMENS/FT, 120V, 8.6W/FT
- LED SURFACE MOUNT LIGHT FIXTURE, WEATHER & VANDAL RESISTANT. NOMINALLY 8" X 48". 100 WATT LED WITH 0-10V DIMMING DRIVER, 120 VOLT. LUMINAIRE LED #VPF8-4-100WHP-3500K-GRY.
- EXTERIOR WALL MOUNTED LANTERN SCONCE, SEA GULL LIGHTING SEBRING 1, 120V, 1000 LUMENS, 14W
- EXTERIOR PENDANT MOUNTED LED, SEA GULL LIGHTING DIVISION STREET 15" WIDE, 120V, (1) 42W CFL BULB
- INTERIOR PENDANT LIGHT, 120 VOLT, 3500K



WELCOME CENTER FLOOR PLAN - LIGHTING
SCALE: AS INDICATED



SHEET 38 OF 40
BID SET

V:\2048\ACTIVE\204820753\CAD-BIM\E211 Dec. 20, 2023 10:55 AM By: JMT/MER

	DATE
	APP.
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ACTION	BY	DATE
DESIGNED	CBF	NOV. 2023
DRAWN	JTW	NOV. 2023
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CHECKED (HDQTS.)		

GENERAL NOTES:

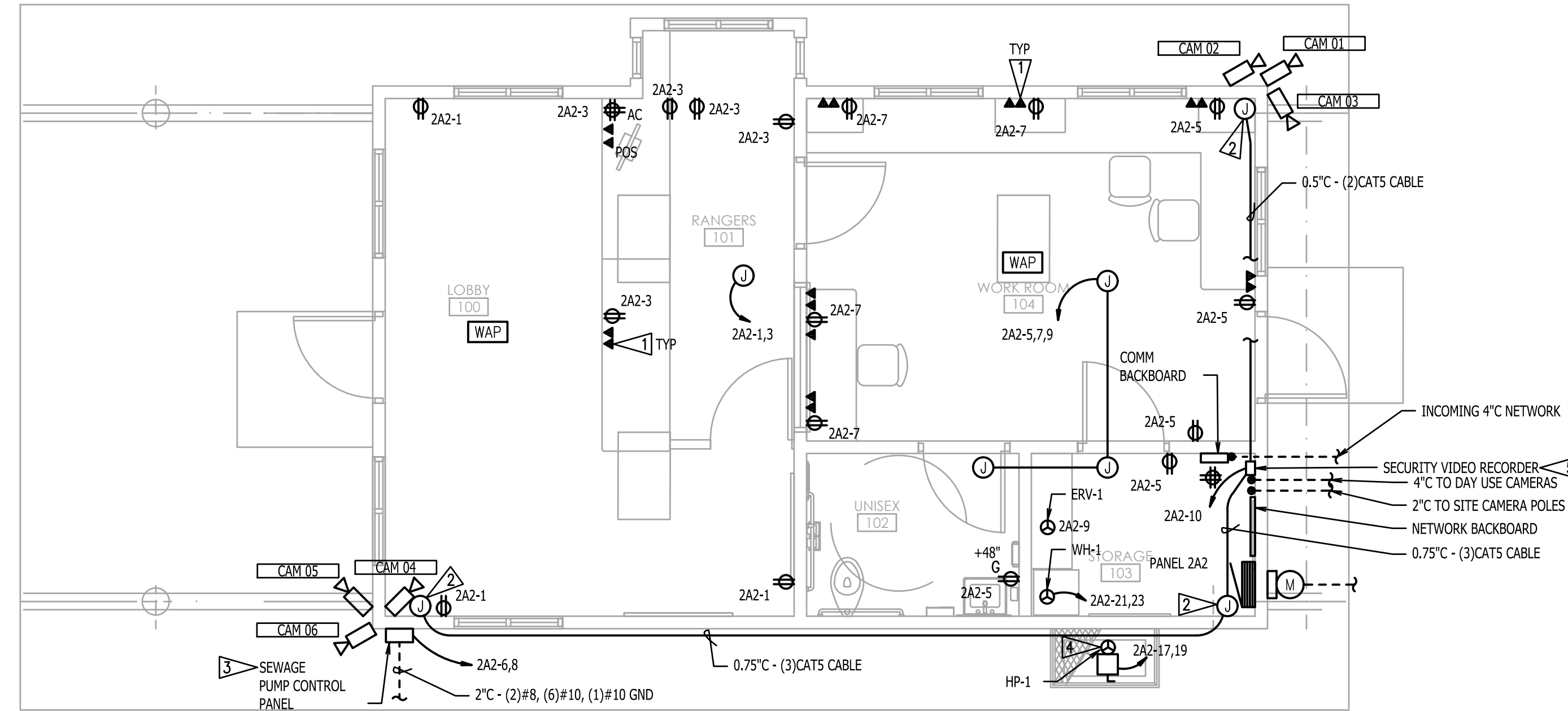
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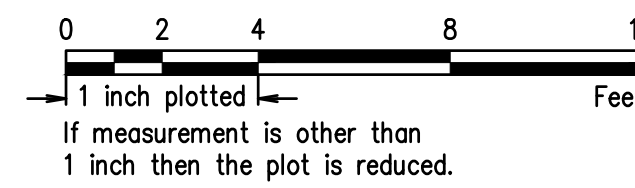
- 1 ▷ PROVIDE RACEWAY FROM EACH OUTLET TO NETWORK BACKBOARD LOCATED IN MAIN ELECTRICAL ROOM LOCATED IN BASEMENT.
- 2 ▷ PROVIDE RACEWAY AND JUNCTION BOXES BACK TO CAMERA SWITCH RACK LOCATED IN BASEMENT MECHANICAL ROOM. PROVIDE (1) CAT5 CABLE FOR EACH CAMERA.
- 3 ▷ PROVIDE FLOAT CONTROL HOA AND WARNING LIGHTS PER MANUFACTURER'S RECOMMENDATIONS.
- 4 ▷ OUTDOOR UNIT POWERS TWO INDOOR UNITS.
- 5 ▷ REFER TO SPECIFICATION SECTION 282300 FOR PROVISION OF ALL CAMERAS AND RELATED EQUIPMENT.

LEGEND

- DUPLEX RECEPTACLE, 120V, 20A
- GFCI DUPLEX RECEPTACLE, 120V, 20A
- WEATHERPROOF, GFCI DUPLEX RECEPTACLE, 120V, 20A
- EQUIPMENT CONNECTION
- FUSED DISCONNECT
- WIRELESS ACCESS POINT
- DATA OUTLET - SINGLE JACK
- 120/240V ELECTRICAL PANEL



WELCOME CENTER FLOOR PLAN - POWER
SCALE: AS INDICATED



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION



KOPACHUCK STATE PARK

WELCOME CENTER

FLOOR PLAN - POWER

E3.11

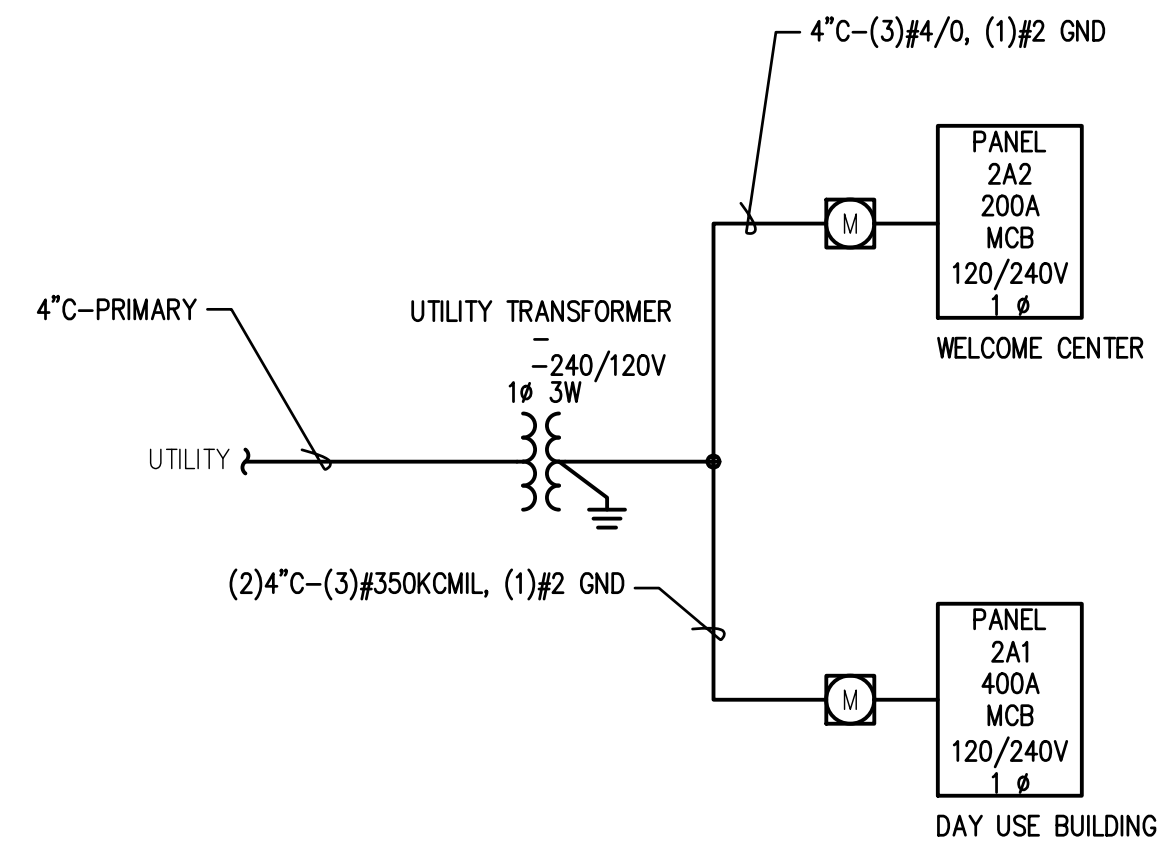
SCALE
AS NOTED

PARKS FILE#



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SHEET 39 OF 40
BID SET



1 ONE-LINE DIAGRAM
SCALE: NONE
E4.03

Stantec										Panel
Name	2A2	120/240V	1PH	3W	200A	Main CB				Type: Panelboard
Location	WELCOME CENTER						Surface Mounted		22,000 AIC	
Serves:										
#	Description	Load	CB	*	A	B	CB	Load	Description	#
1	Recept LOBBY 100	0.54	20/1	CB	X		20/2	CB	0.17	Lighting ROADWAY LIGHTING
3	Recept RANGERS DESK 101	1.08	20/1	CB	X				0.17	ROADWAY LIGHTING
5	Recept BATH, STORAGE, WRK RM	0.90	20/1	CB	X		20/2	CB	0.30	Lighting PARKING LOT LIGHTING
7	Recept WORK ROOM	0.72	20/1	CB	X				0.30	PARKING LOT LIGHTING
9	Mech WELCOME CTR ERV-1	0.10	20/1	CB	X		20/2	CB	1.00	Mech SEWAGE PUMP
11	Lighting WELCOME CTR LTG - FRONT	0.17	20/1	CB	X				1.00	SEWAGE PUMP
13	Lighting WELCOME CTR LTG - BACK	0.13	20/1	CB	X		20/1	CB	0.20	Equip SECURITY VIDEO RECORDER
15	Lighting WELCOME CTR LTG - EXT.	0.05	20/1	CB	X		40/2	CB	3.84	Equip VEHICLE CHARGING STATIONS
17	Mech HEAT PUMP	3.07	40/2	CB	X				3.84	VEHICLE CHARGING STATIONS
19	HEAT PUMP	3.07				X	20/1	CB	1.00	Recept FESTIVAL POWER BOX 120V
21	Mech WH-1	0.76	20/2	CB	X		30/2	CB	2.16	Recept FESTIVAL POWER BOX 240V
23	WH-1	0.76				X			2.16	FESTIVAL POWER BOX 240V
25	Space	0.00	0/1		X		20/1	CB	0.08	Lighting FLAG POLE LTS
27	Space	0.00	0/1		X		20/1	CB	0.20	Equip BEACH AREA GATE
29	Space	0.00	0/1		X		20/1	CB	0.20	Recept CAMERA RECEPT POLE P1
31	Space	0.00	0/1		X		20/1	CB	0.20	Recept CAMERA RECEPT POLE P3
33	Space	0.00	0/1		X		20/1	CB	0.20	Recept CAMERA RECEPT POLE R5
35	Space	0.00	0/1		X		20/2	CB	0.90	Equip UPS
37	Space	0.00	0/1		X				0.90	UPS
39	Space	0.00	0/1		X		0/1		0.00	Space
41	Space	0.00	0/1		X		0/1		0.00	Space
42	Space	0.00	0/1		X		0/1		0.00	Space
Rev: PH A PH B Revised Ckts Marked * Existing Ckts Marked # Connected KVA 14.54 15.61 File: V:\2048\ACTIVE\204820753\Design\Sched\Kopachuck St Pk.PNL * Circuit Breaker Code G = GFCI H = HID Rated S = Shunt Trip C = HACR Rated D = Switching Duty # = See Note A = AFCI										
Notes:										
Load Type	Conn KVA	NEC Demand Factor	Dem.		KVA Dem. Amf		NEC Feed %		NEC Feed Amps	
Equip	9.88	x 100%	9.88	41	x 100%	41	100%		41	
Lighting	1.37	x 100%	1.37	6	x 125%	6	125%		7	
Mech	9.75	x 100%	9.75	41	125% of Largest	41	125%		47	
Recept	9.16	10 KVA @ 100%, rest @ 50%	9.16	38	x 100%	38	100%		38	
	30.15	126 Amps	30.15	126		126			133	

2 PANEL SCHEDULES
SCALE: NONE
E4.03

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME		
	DATE	
	APP.	
	INT.	
	REVISIONS	
	NO.	

ACTION	BY	DATE
DESIGNED	CBF	NOV. 2023
DRAWN	JTW	NOV. 2023
CHECKED (FIELD)		
CHECKED (HDQTS.)		



PROJECT ENGINEER

WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION



KOPACHUCK
STATE PARK

WELCOME CENTER

PANEL SCHEDULES &
ONE-LINE

E4.03

SCALE
AS NOTED



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(206) 667-0555

SHEET 40 OF 40
BID SET

PARKS FILE#

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