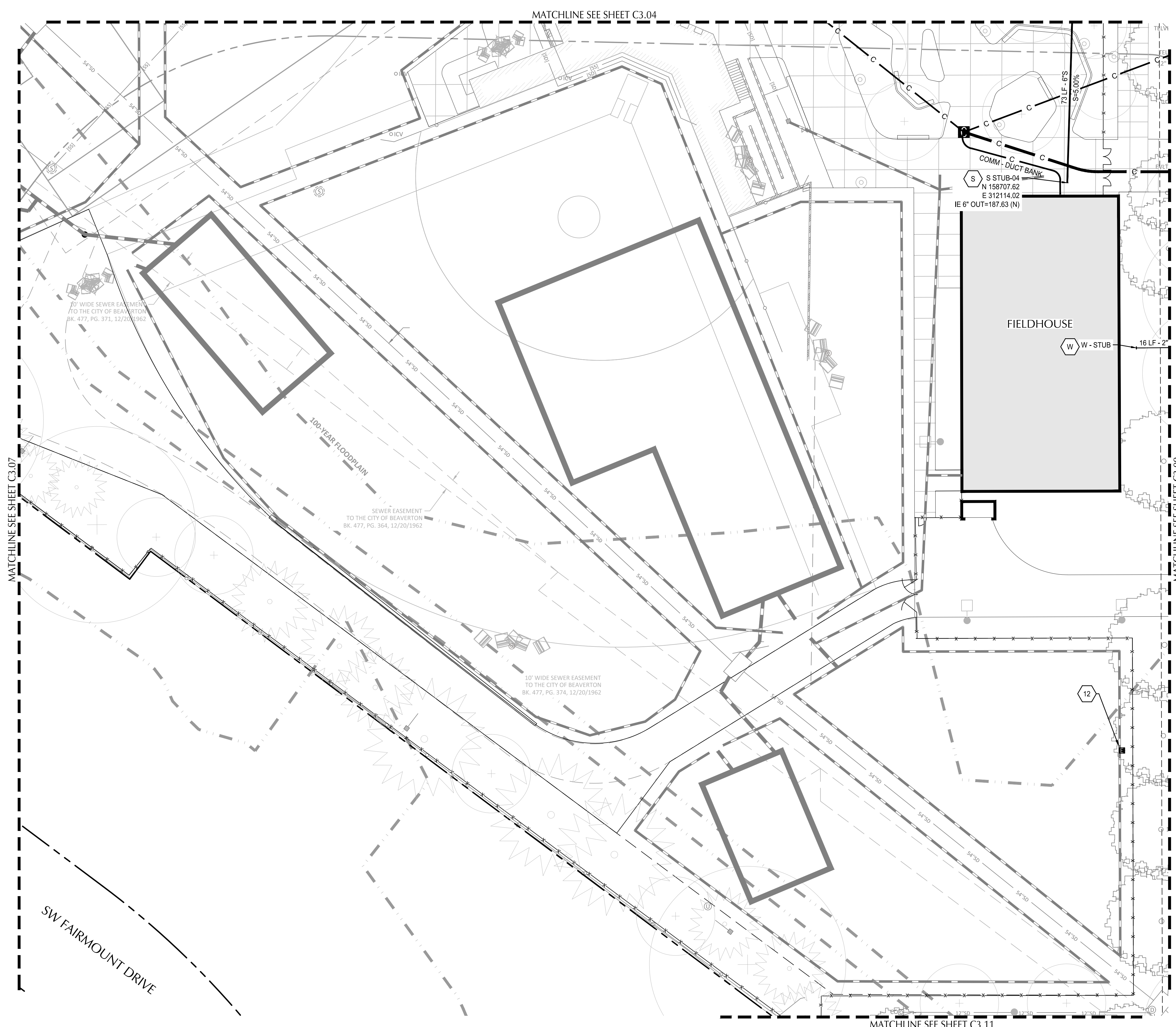


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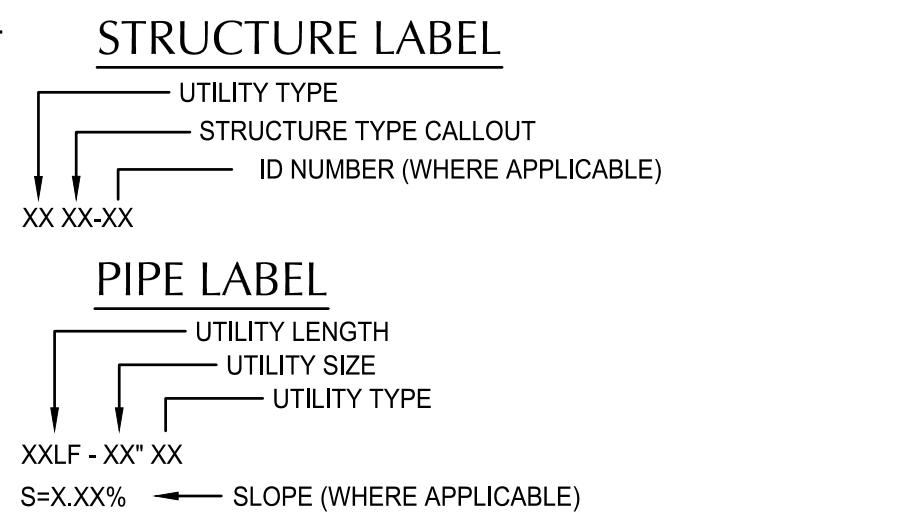
SHEET NOTES

- PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER DETAIL 300/C5.05.
- STRUCTURES LOCATIONS ARE BASED ON CENTER OF STRUCTURE.

KEY NOTES

- | NOTE | DESCRIPTION | DETAIL REF. |
|------|---|-------------|
| 1 | KILL EXISTING WATER SERVICE, BY WATER BUREAU. | |
| 2 | INSTALL BUILDING MOUNTED FIRE HYDRANT. REFERENCE FIRE PROTECTION PLANS. | |
| 3 | INSTALL BUILDING MOUNTED POST INDICATOR VALVE FOR BUILDING MOUNTED FIRE HYDRANT. VALVE IS TO REMAIN OPEN AT ALL TIMES. REFERENCE FIRE PROTECTION PLANS. | |
| 4 | REPLACE EXISTING SANITARY LATERAL. | |
| 5 | BUILDING CONNECTION FOR ELECTRICAL CONDUITS. REFERENCE ELECTRICAL PLANS FOR NUMBER AND SIZE OF CONDUITS. | |
| 6 | INSTALL 4" RPBA | |
| 7 | INSTALL 2" NATURAL GAS SERVICE. CONTRACTOR TO COORDINATE WITH NORTHWEST NATURAL. | |
| 8 | RE-ROUTE ELECTRICAL AND TELECOMMUNICATION CONDUITS BETWEEN EXISTING SCHOOL BUILDING AND PROPOSED SCHOOL BUILDING. ELECTRICAL AND TELECOMMUNICATIONS CONDUITS ARE TO BE PLACED IN SEPARATE 15' WIDE EASEMENTS. | |
| 9 | PROTECT EXISTING FIRE HYDRANT | |
| 10 | CONNECT NEW ELECTRICAL FEED FOR CAFETERIA BUILDING TO EXISTING METER. REFERENCE ELECTRICAL PLANS. | |
| 11 | FIELD VERIFY LOCATION AND IE OF EXISTING 6" FIRE PROTECTION LINE. CONNECT TO EXISTING 6" FIRE PROTECTION LINE WITH 90° BEND. | |
| 12 | ELECTRICAL VAULT. REFERENCE ELECTRICAL PLANS FOR COMPONENTS AND CONNECTION INFORMATION. | |
| 13 | INSTALL DOUBLE CHECK VAULT ASSEMBLY AND VAULT CONNECT TO PUBLIC SANITARY. REFERENCE PUBLIC IMPROVEMENT PLANS FOR PUBLIC SANITARY INFORMATION. | |
| 14 | CONNECT TO EXISTING SANITARY LINE. CONTRACTOR TO POTHOLE EXISTING LINE AT POINT OF CONNECTION PRIOR TO INSTALLATION OF NEW LINE AND NOTIFY ENGINEER OF ANY DISCREPANCIES. | |
| 15 | INSTALL AREA DRAIN AT CENTER OF GARBAGE ENCLOSURE. | |
| 16 | AUXILIARY POTABLE WATER CONNECTION | |
| 17 | CONNECT TO FIRE PROTECTION SYSTEM. SIZE AS NOTED. SEE PLUMBING PLANS FOR CONTINUATION. | 1/C5.9 |
| FP | CONNECT TO GAS METER. CONTRACTOR TO COORDINATE WITH GAS COMPANY. SEE PLUMBING PLANS FOR CONTINUATION. | |
| G | CONNECT TO WASTE LINE. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AS NOTED. | |
| S | CONNECT TO COLD WATER SYSTEM. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AS NOTED. | |
| W | UTILITY CROSSING. PROVIDE 12" MIN. CLEARANCE, U.N.O. | |
| !! | | |

UTILITY LABEL LEGEND



STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AD	AREA DRAIN	
BV	BUTTERFLY VALVE	
CO	CLEAN OUT	
DCVA	DOUBLE CHECK VALVE ASSEMBLY	
DDCV	DOUBLE DETECTOR CHECK VALVE	
FH	FIRE HYDRANT	
GM	GAS METER	
GV	GATE VALVE	
HB	HORIZONTAL BEND	
MH	MANHOLE	
STUB	STUB	
TB	THRUST BLOCK	
TEE	TEE CONNECTION	
WM	WATER METER	
WYE	WYE CONNECTION	



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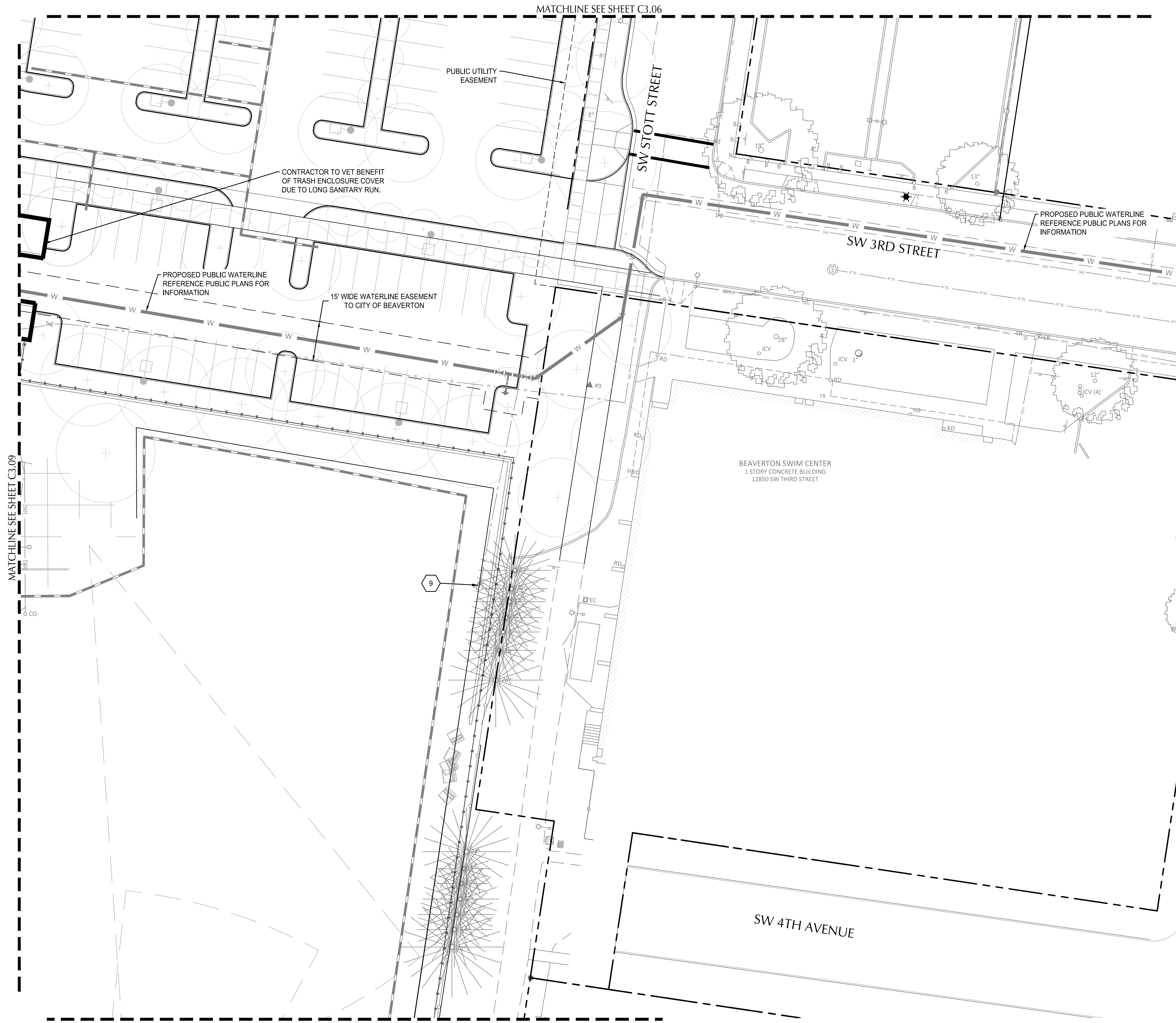
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revisions	

phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016

UTILITY PLAN
C3.08

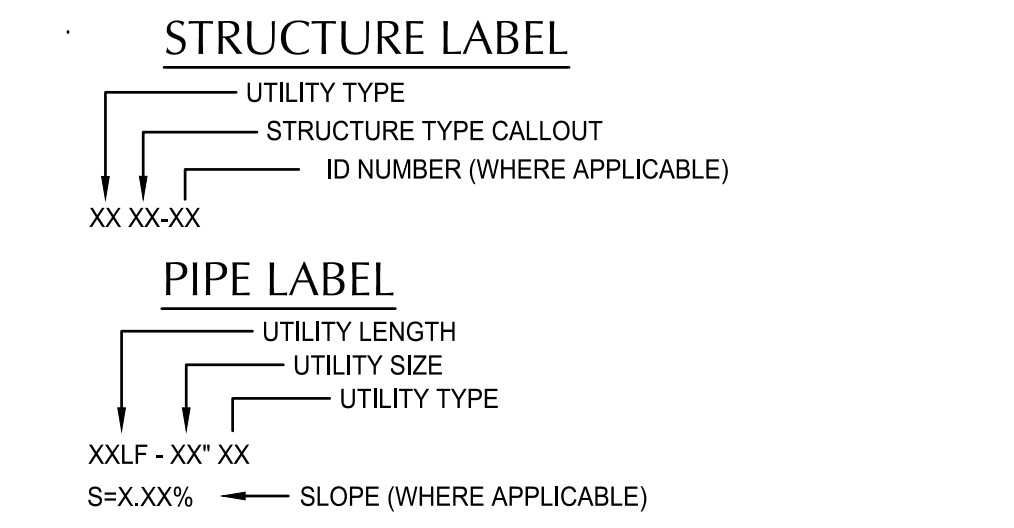
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SHEET NOTES

1. PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER DETAIL 300/C5.05.
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| 4 | REPLACE EXISTING SANITARY LATERAL. | |
| 5 | BUILDING CONNECTION FOR ELECTRICAL CONDUITS. REFERENCE ELECTRICAL PLANS FOR NUMBER AND SIZE OF CONDUITS. | |
| 6 | INSTALL 4" RPBA | |
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| 8 | RE-ROUTE ELECTRICAL AND TELECOMMUNICATION CONDUITS BETWEEN EXISTING SCHOOL BUILDING AND PROPOSED SCHOOL BUILDING. ELECTRICAL AND TELECOMMUNICATIONS CONDUITS ARE TO BE PLACED IN SEPARATE 15' WIDE EASEMENTS. | |
| 9 | PROTECT EXISTING FIRE HYDRANT | |
| 10 | CONNECT NEW ELECTRICAL FEED FOR CAFETERIA BUILDING TO EXISTING METER. REFERENCE ELECTRICAL PLANS. | |
| 11 | FIELD VERIFY LOCATION AND IE OF EXISTING 6" FIRE PROTECTION LINE. CONNECT TO EXISTING 6" FIRE PROTECTION LINE WITH 90° BEND. | |
| 12 | ELECTRICAL VAULT. REFERENCE ELECTRICAL PLANS FOR COMPONENTS AND CONNECTION INFORMATION. | |
| 13 | INSTALL DOUBLE CHECK VAULT ASSEMBLY AND VAULT CONNECT TO PUBLIC SANITARY. REFERENCE PUBLIC IMPROVEMENT PLANS FOR PUBLIC SANITARY INFORMATION. | |
| 14 | CONNECT TO EXISTING SANITARY LINE. CONTRACTOR TO PATCH EXISTING LINE AT POINT OF CONNECTION PRIOR TO INSTALLATION OF NEW LINE AND NOTIFY ENGINEER OF ANY DISCREPANCIES. | |
| 15 | INSTALL AREA DRAIN AT CENTER OF GARBAGE ENCLOSURE. | |
| 16 | AUXILIARY POTABLE WATER CONNECTION | 1/C5.9 |
| FP | CONNECT TO FIRE PROTECTION SYSTEM. SIZE AS NOTED. SEE PLUMBING PLANS FOR CONTINUATION. | |
| G | CONNECT TO GAS METER. CONTRACTOR TO COORDINATE WITH GAS COMPANY. SEE PLUMBING PLANS FOR CONTINUATION. | |
| S | CONNECT TO WASTE LINE. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AS NOTED. | |
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UTILITY LABEL LEGEND



STRUCTURE TYPE

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CO	CLEAN OUT	
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HB	HORIZONTAL BEND	
MH	MANHOLE	
STUB	STUB	
TB	THRUST BLOCK	
TEE	TEE CONNECTION	
WM	WATER METER	
WYE	WYE CONNECTION	

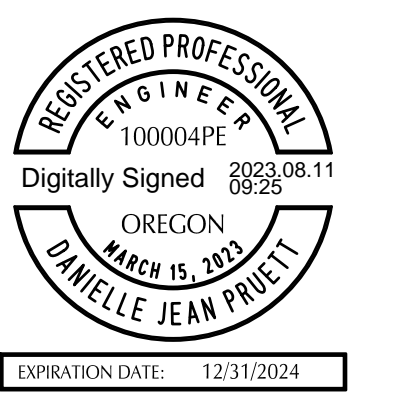


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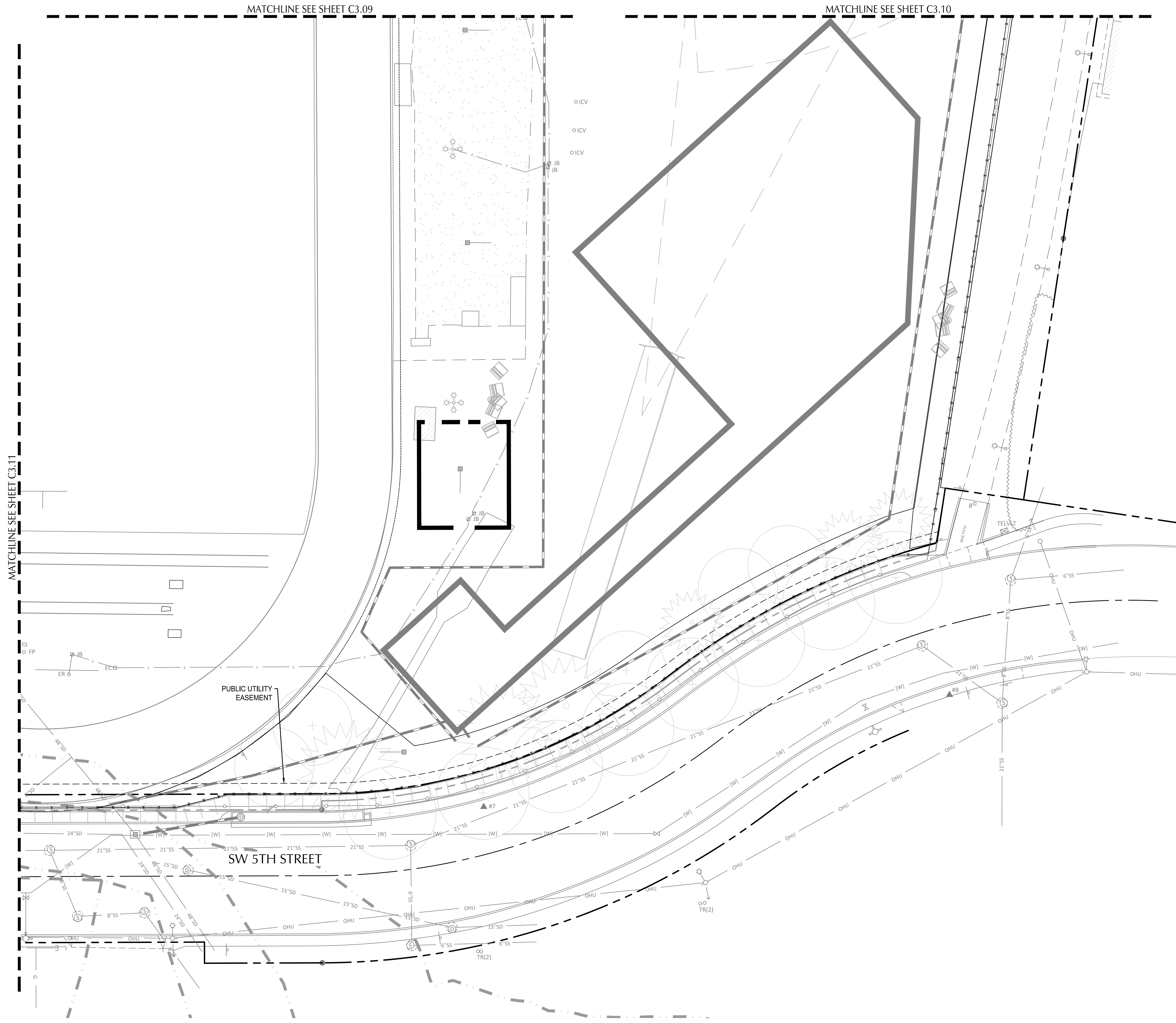
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BEAVERTON SCHOOL DISTRICT
 T 503-356-4500



revisions	
phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016

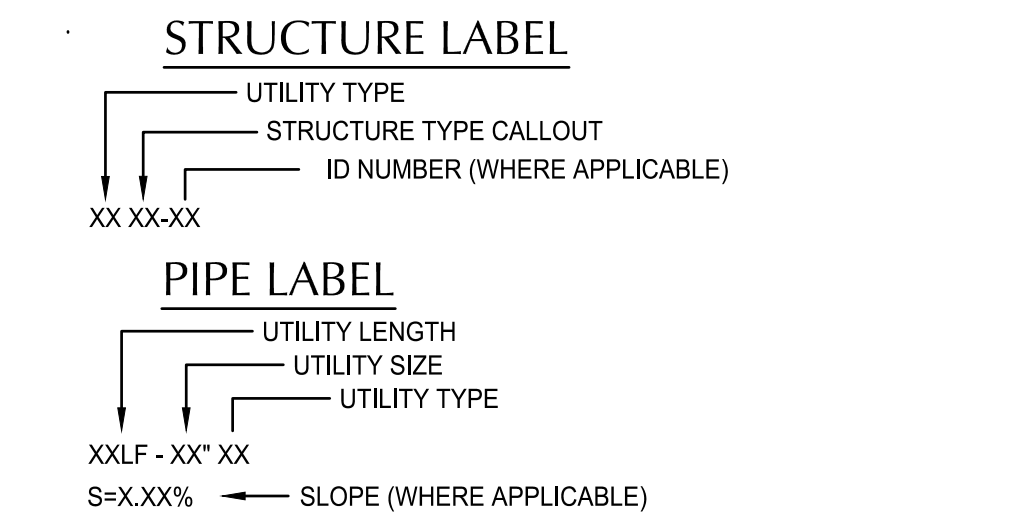
UTILITY PLAN
C3.10



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UTILITY LABEL LEGEND



STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
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CO	CLEAN OUT	
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MH	MANHOLE	
STUB	STUB	
TB	THRUST BLOCK	
TEE	TEE CONNECTION	
WM	WATER METER	
WYE	WYE CONNECTION	

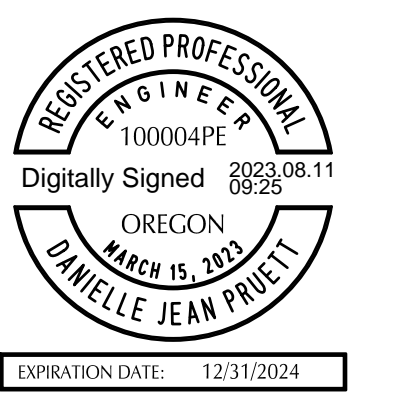


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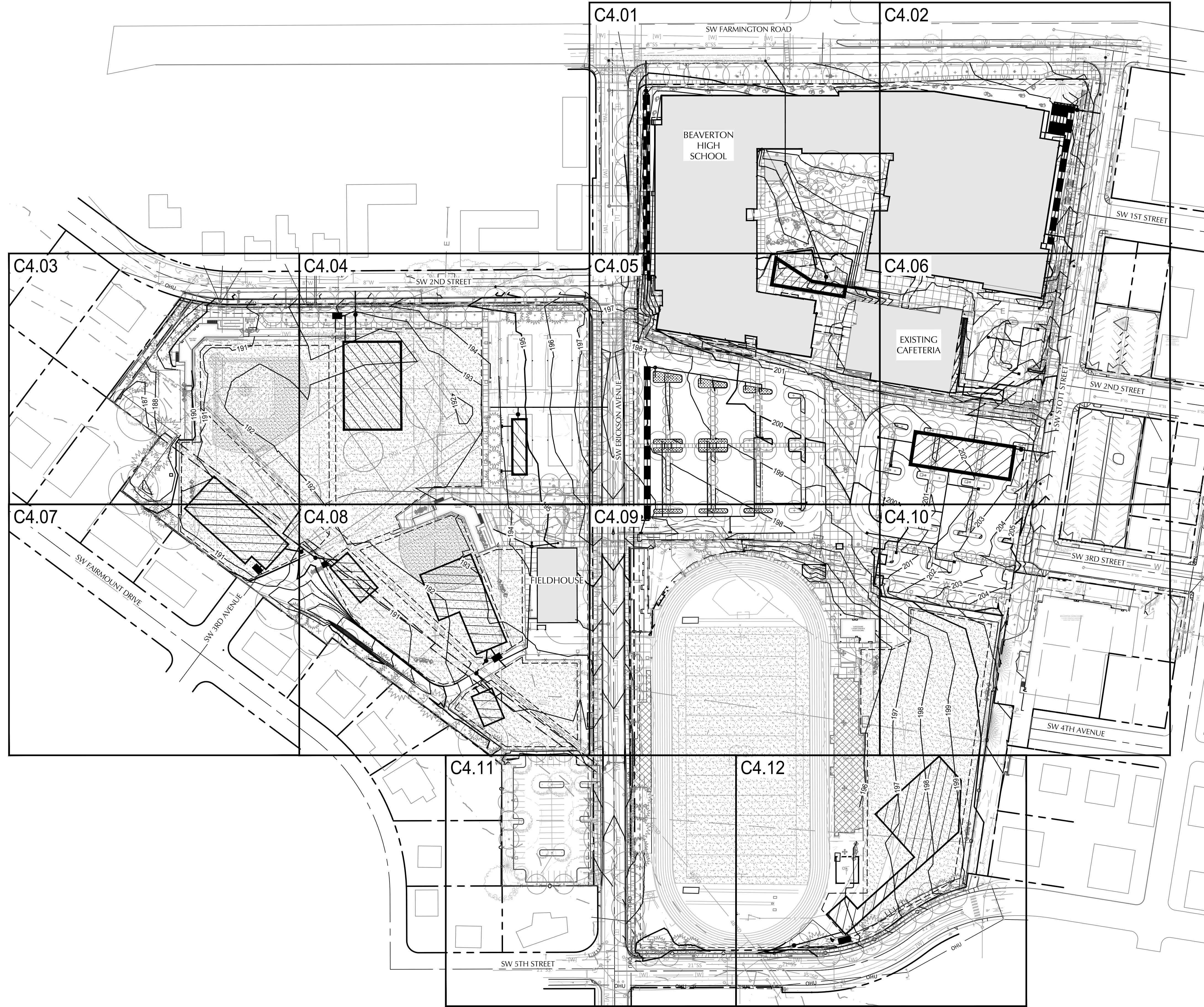


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phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016

UTILITY PLAN
C3.12

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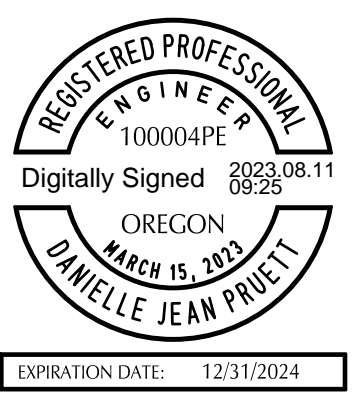


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BEAVERTON HIGH SCHOOL REBUILD

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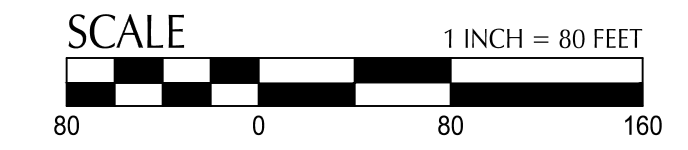
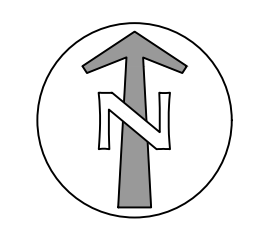


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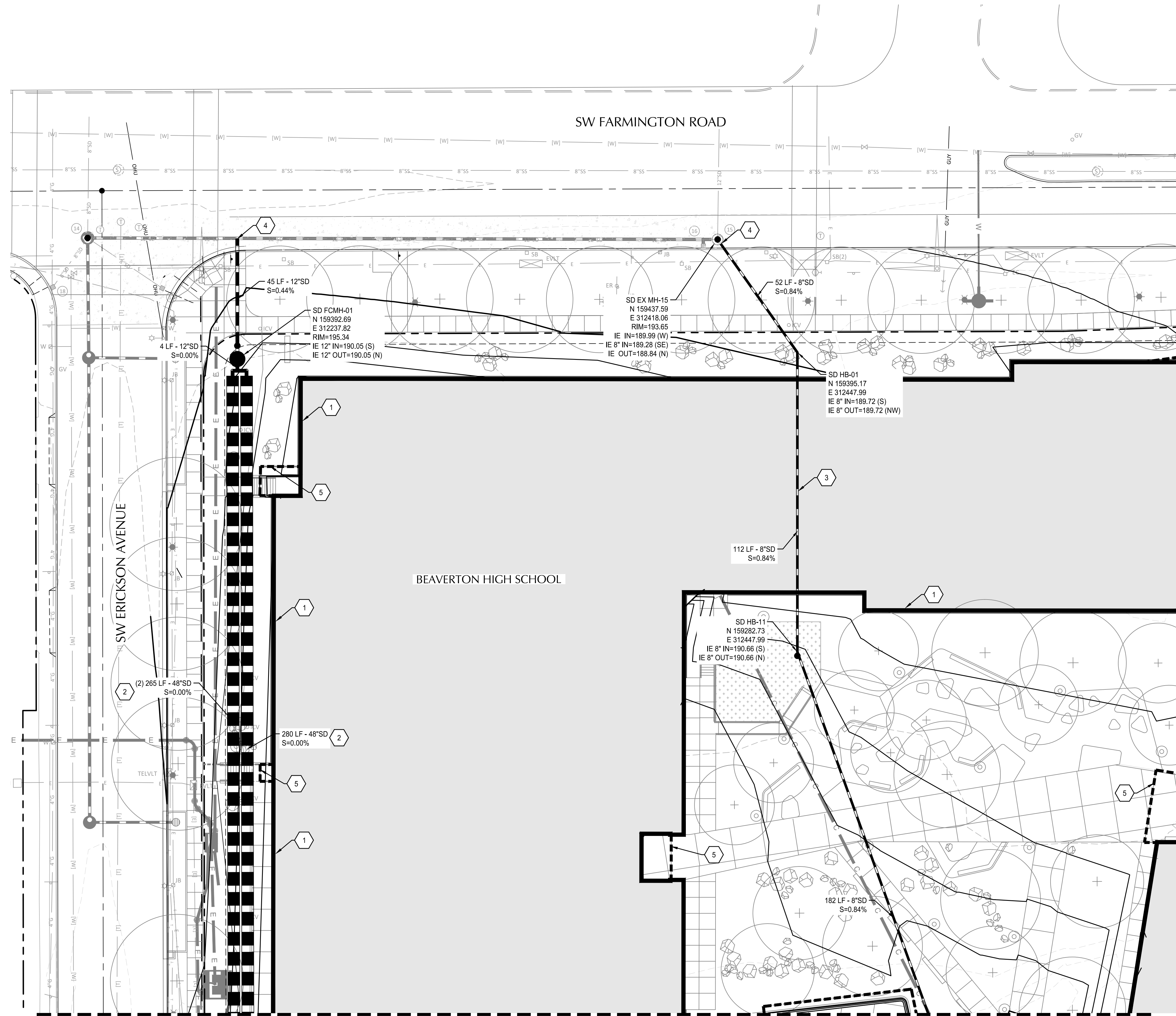
phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016

STORM OVERVIEW

C4.00



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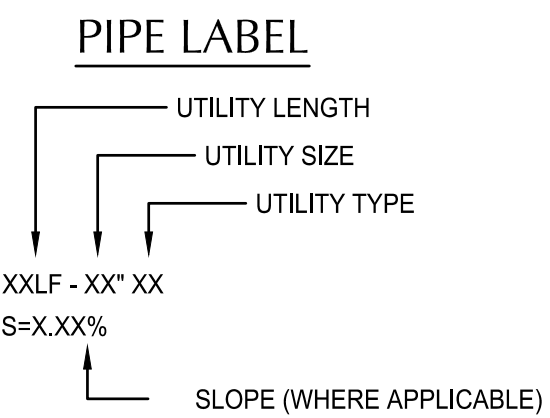
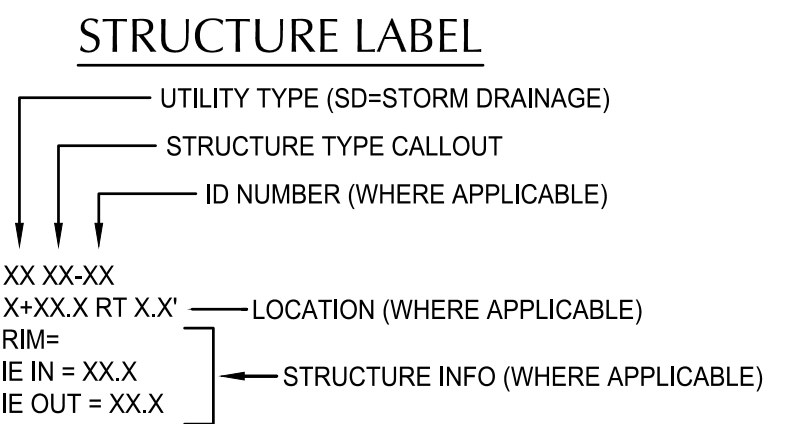
SHEET NOTES

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- NORTHINGS & EASTINGS SHOWN ON STRUCTURES ARE SHOWN AT CENTER OF STRUCTURE.

KEY NOTES

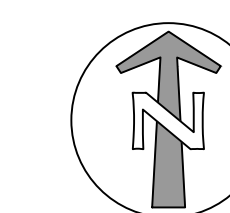
NOTE	DESCRIPTION	DETAIL REF.
1	DOWNSPOUT WITH CLEANOUT	
2	UNDERGROUND STORMWATER MANAGEMENT FACILITIES. LAYOUT SHOWN FOR REFERENCE ONLY - FINAL LAYOUT SHALL BE PER CONTRACTOR PROVIDED SHOP DRAWINGS APPROVED BY THE ENGINEER. CONTRACTOR TO PROVIDE INSPECTION AND MAINTENANCE STRUCTURES EVERY 100' OR PER MANUFACTURERS RECOMMENDATION	C5.03 & C5.22
3	ROUTE STORM DRAIN LINE BELOW BUILDING	
4	CONNECT PRIVATE STORM LINE TO PUBLIC STORM SYSTEM	
5	CONNECT CANOPY DRAIN TO STORM DRAINAGE SYSTEM WITH CLEANOUT	
6	CONSTRUCT NEW LIDA PLANTER	
7	MAINTAIN FLOW TO EXISTING LIDA FACILITY	
8	CONNECT SPORT FIELD UNDERDRAIN STORM SYSTEM TO SITE STORM SYSTEM	
9	CONNECT PROPOSED STORM SYSTEM TO EXISTING PIPE CONVEYANCE OF ERICKSON CREEK. LOCATION IS APPROXIMATE. FIELD VERIFY POINT OF CONNECTION	

UTILITY LABEL LEGEND



STRUCTURE TYPE

CALLOUT	SYMBOL	DESCRIPTION	DETAIL REF.
CB	■	CATCH BASIN	
CO	•	CLEANOUT TO GRADE	340/C5.06
DI	■	DITCH INLET	
FCMH	●	FLOW CONTROL MANHOLE	C5.21
MH	○	MANHOLE	330,335/C5.05
OF	<	OUTFALL	250/C5.02
SD	—	STORM DRAIN LINE	
SD	- - -	PERFORATED STORM PIPE. SEE SHEET SERIES C4.50	C5.24
	- - -	PROPOSED OFF SITE STORM LINE	
WQCB	■	WATER QUALITY CATCH BASIN	C5.22
WQCB(X)	■	WATER QUALITY CATCH BASIN (X REPRESENTS # OF FILTERS)	C5.21
WQV(X)	■	WATER QUALITY VAULT (X REPRESENTS # OF FILTERS)	C5.21
	—	LIDA PLANTER	370/C5.06
	—	DETENTION FACILITY	SEE C5.03

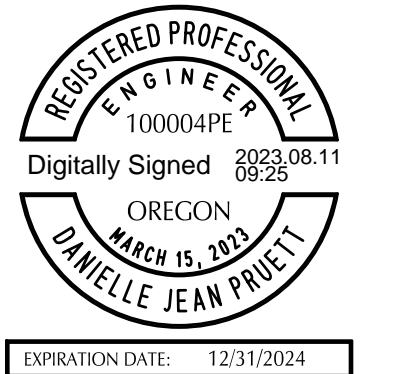


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revisions	

phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016

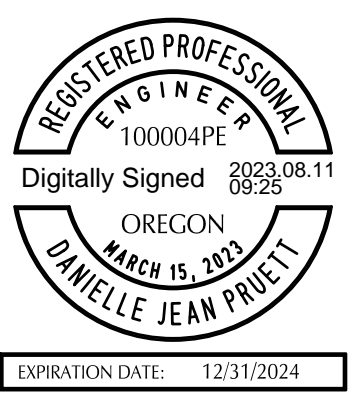
STORM PLAN

C4.01

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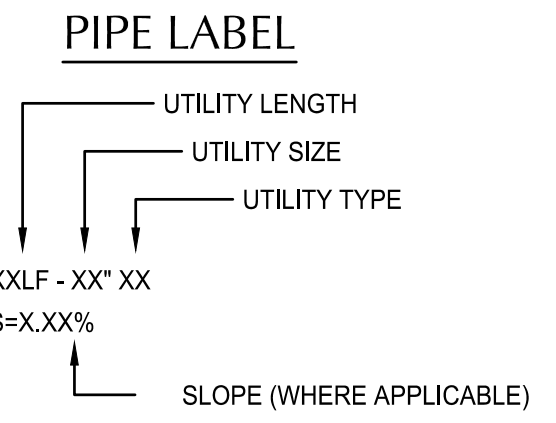
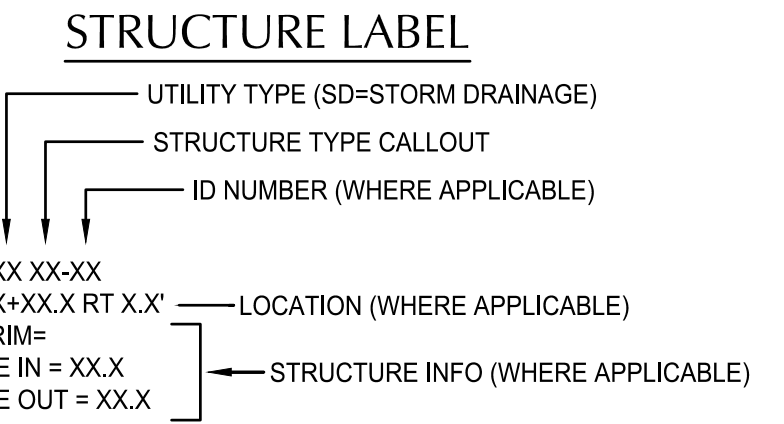
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KEY NOTES

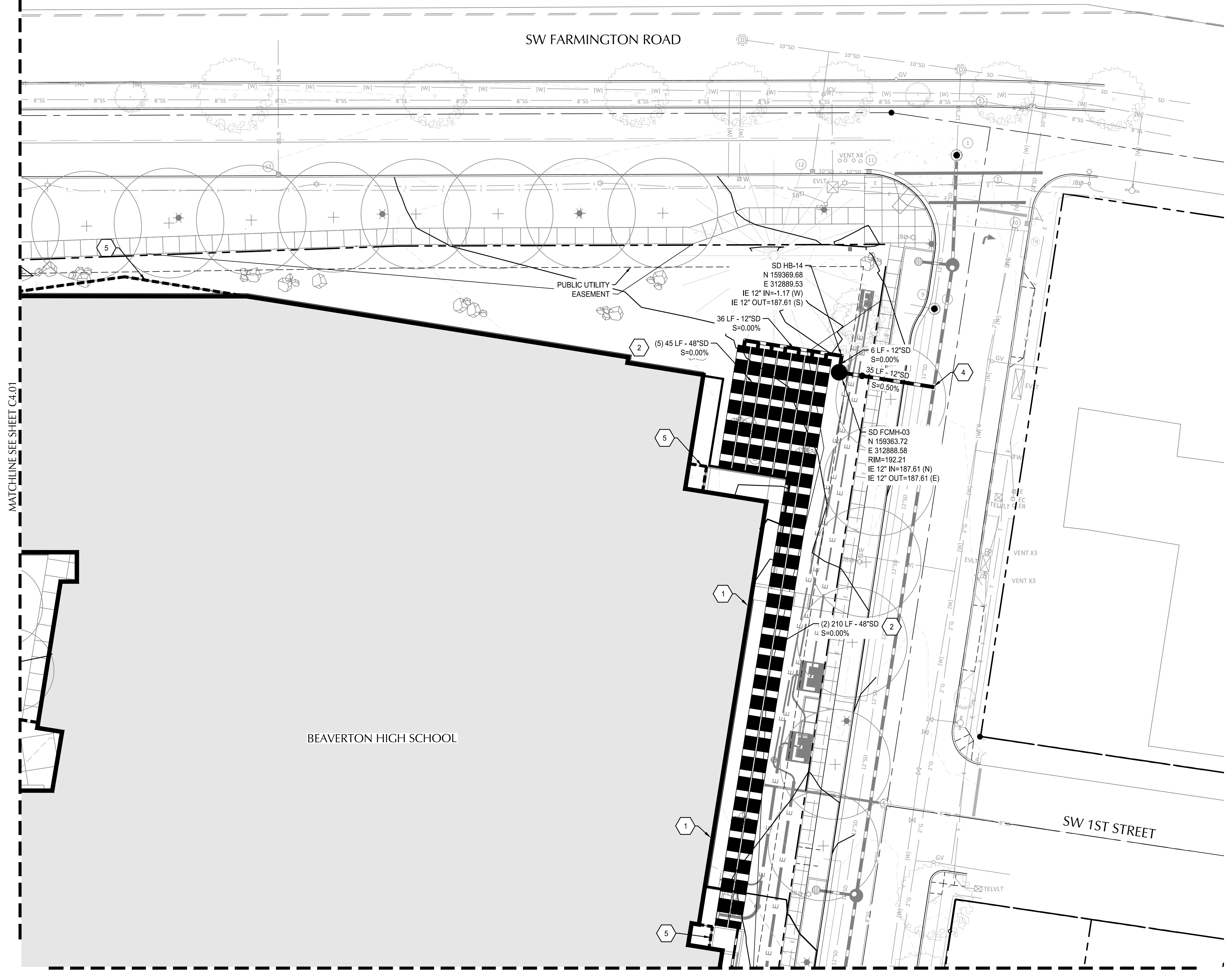
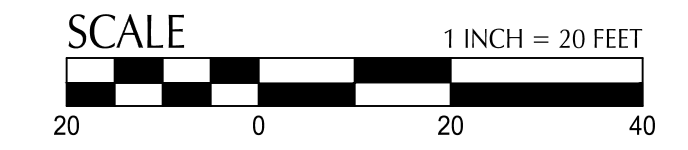
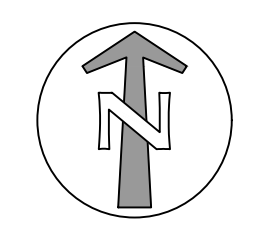
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3	ROUTE STORM DRAIN LINE BELOW BUILDING	
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5	CONNECT CANOPY DRAIN TO STORM DRAINAGE SYSTEM WITH CLEANOUT	
6	CONSTRUCT NEW LIDA PLANTER	
7	MAINTAIN FLOW TO EXISTING LIDA FACILITY	
8	CONNECT SPORT FIELD UNDERDRAIN STORM SYSTEM TO SITE STORM SYSTEM	
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UTILITY LABEL LEGEND



STRUCTURE TYPE

CALLOUT	SYMBOL	DESCRIPTION	DETAIL REF.
CB	■	CATCH BASIN	
CO	•	CLEANOUT TO GRADE	340/C5.06
DI	■	DITCH INLET	
FCMH	●	FLOW CONTROL MANHOLE	C5.21
MH	●	MANHOLE	330,335/C5.05
OF	<	OUTFALL	250/C5.02
SD	—	STORM DRAIN LINE	
SD	- - -	PERFORATED STORM PIPE. SEE SHEET SERIES C4.50	C5.24
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	⊠	LIDA PLANTER	370/C5.06
	▭	DETENTION FACILITY	SEE C5.03



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Plotted: 8/9/23 at 3:42pm By: dneadecker

revisions	

phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016

STORM PLAN
C4.02

File: N:\c\2023\12\100178-hs\beaverton-hs\CAD\LOT2\100178-C-4.1-STRM.dwg TAB.C4.03
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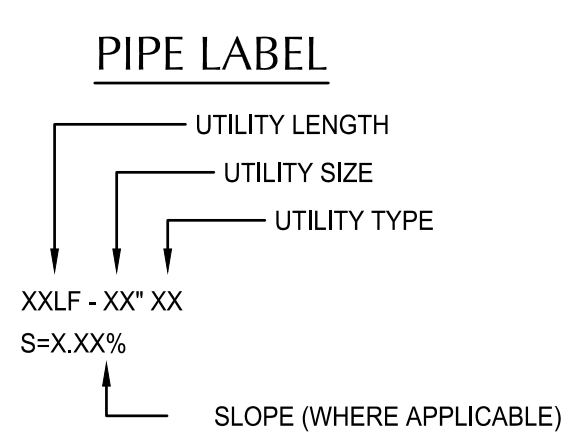
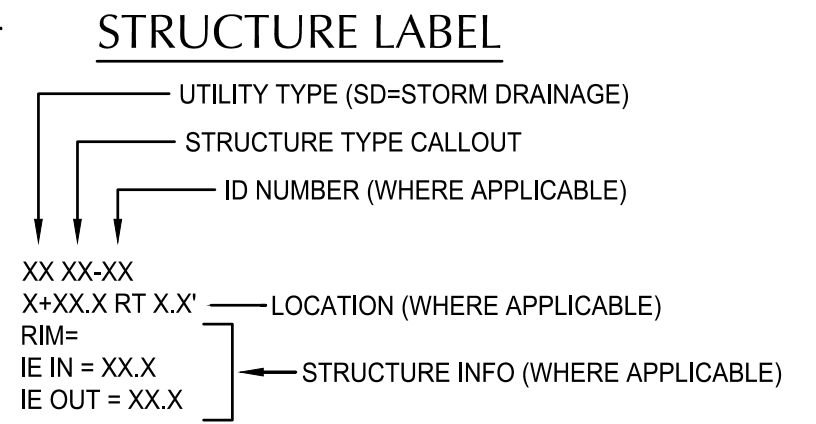
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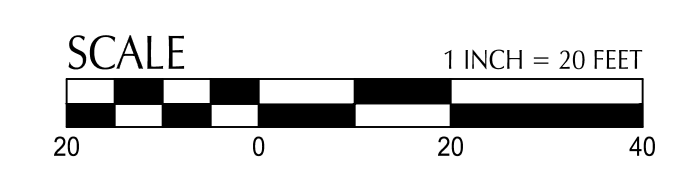
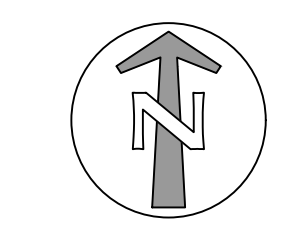
NOTE	DESCRIPTION	DETAIL REF.
1	DOWNSPOUT WITH CLEANOUT	
2	UNDERGROUND STORMWATER MANAGEMENT FACILITIES. LAYOUT SHOWN FOR REFERENCE ONLY - FINAL LAYOUT SHALL BE PER CONTRACTOR PROVIDED SHOP DRAWINGS APPROVED BY THE ENGINEER. CONTRACTOR TO PROVIDE INSPECTION AND MAINTENANCE STRUCTURES EVERY 100' OR PER MANUFACTURERS RECOMMENDATION	C5.03 & C5.22
3	ROUTE STORM DRAIN LINE BELOW BUILDING	
4	CONNECT PRIVATE STORM LINE TO PUBLIC STORM SYSTEM	
5	CONNECT CANOPY DRAIN TO STORM DRAINAGE SYSTEM WITH CLEANOUT	
6	CONSTRUCT NEW LIDA PLANTER	
7	MAINTAIN FLOW TO EXISTING LIDA FACILITY	
8	CONNECT SPORT FIELD UNDERDRAIN STORM SYSTEM TO SITE STORM SYSTEM	
9	CONNECT PROPOSED STORM SYSTEM TO EXISTING PIPE CONVEYANCE OF ERICKSON CREEK. LOCATION IS APPROXIMATE. FIELD VERIFY POINT OF CONNECTION	

UTILITY LABEL LEGEND



STRUCTURE TYPE

CALLOUT	SYMBOL	DESCRIPTION	DETAIL REF.
CB	■	CATCH BASIN	
CO	•	CLEANOUT TO GRADE	340/C5.06
DI	⊓	DITCH INLET	
FCMH	●	FLOW CONTROL MANHOLE	C5.21
MH	○	MANHOLE	330,335/C5.05
OF	<	OUTFALL	250/C5.02
SD	—	STORM DRAIN LINE	
SD	- - -	PERFORATED STORM PIPE. SEE SHEET SERIES C4.50	C5.24
	- - -	PROPOSED OFF SITE STORM LINE	
WQCB	■	WATER QUALITY CATCH BASIN	C5.22
WQCB(X)	■	WATER QUALITY CATCH BASIN (X REPRESENTS # OF FILTERS)	C5.21
WQV(X)	■	WATER QUALITY VAULT (X REPRESENTS # OF FILTERS)	C5.21
	⊓	LIDA PLANTER	370/C5.06
	▭	DETENTION FACILITY	SEE C5.03



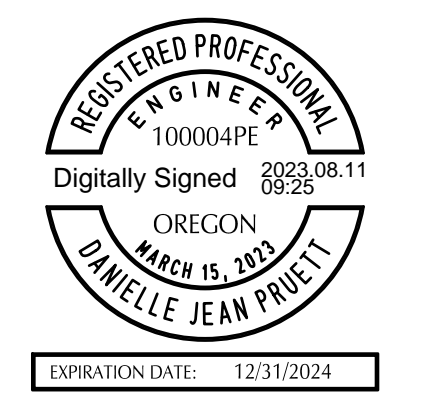
111 SW Fifth Ave., Suite 2600
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 BEAVERTON, OREGON 97005

BEAVERTON SCHOOL DISTRICT

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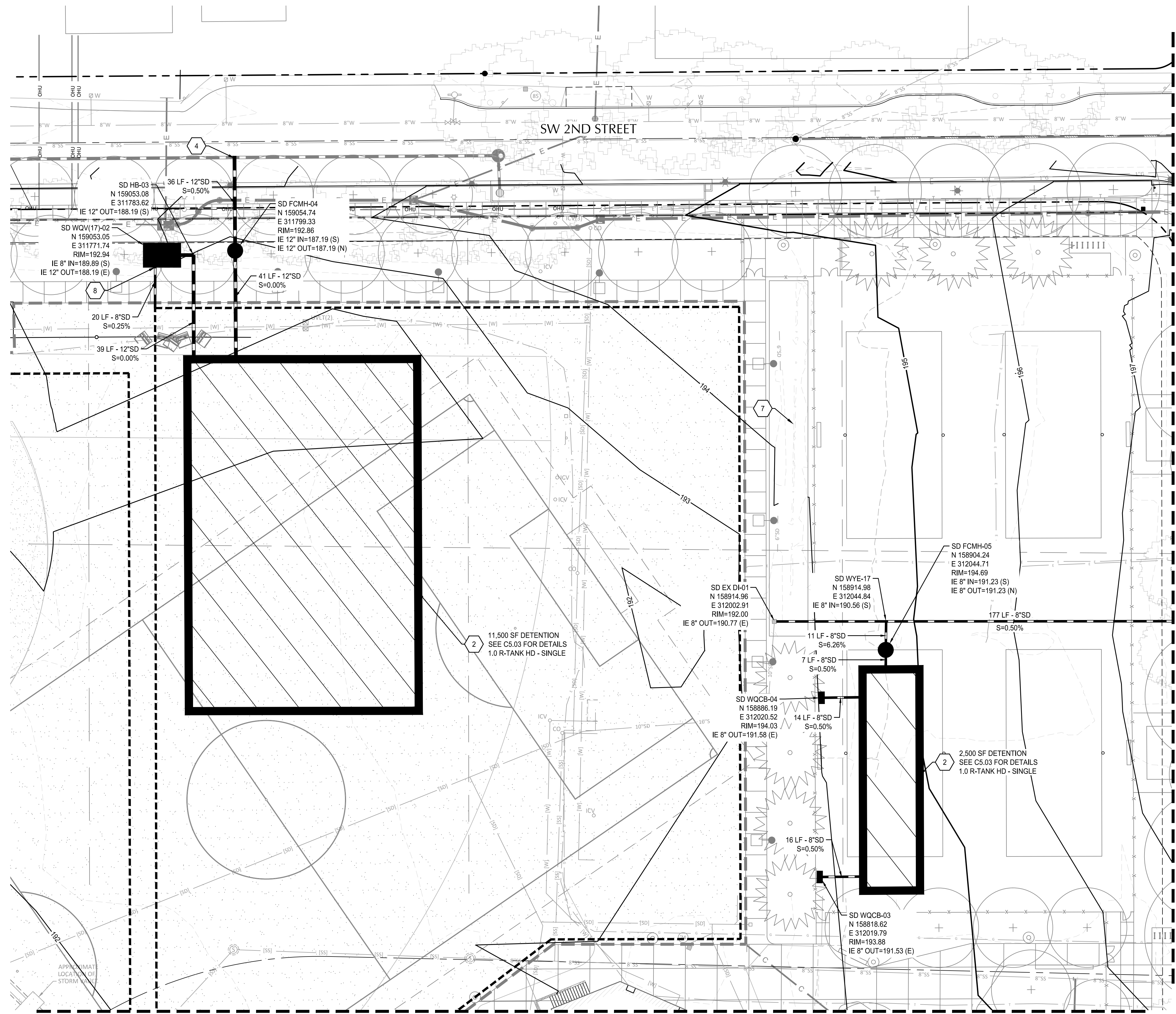


revisions	

phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016

STORM PLAN
C4.03

File: N:\cs\2023\12\01\78-hs-beaverton-hs\CAD\1\20178-C-4.1-STRM.dwg TAB:C4.04
 Plotted: 3/9/23 at 3:43pm By: dneadecker



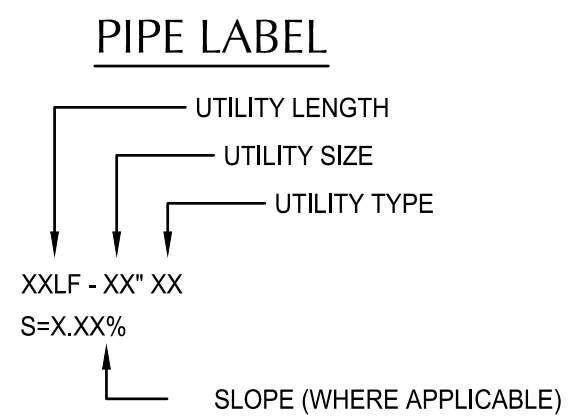
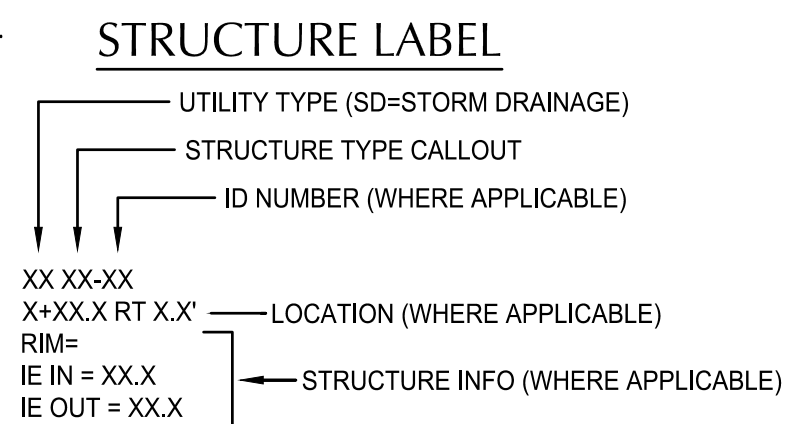
SHEET NOTES

- PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER DETAIL 300/C505.
- STATIONS AND OFFSETS SHOWN ON STRUCTURES ARE SHOWN AT CENTER OF STRUCTURE.
- NORTHINGS & EASTINGS SHOWN ON STRUCTURES ARE SHOWN AT CENTER OF STRUCTURE.

KEY NOTES

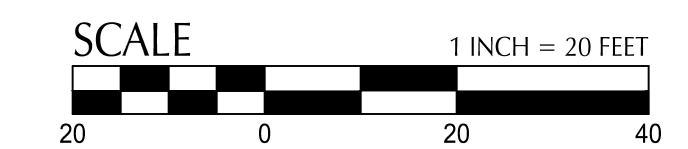
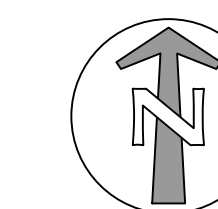
NOTE	DESCRIPTION	DETAIL REF.
1	DOWNSPOUT WITH CLEANOUT	
2	UNDERGROUND STORMWATER MANAGEMENT FACILITIES. LAYOUT SHOWN FOR REFERENCE ONLY - FINAL LAYOUT SHALL BE PER CONTRACTOR PROVIDED SHOP DRAWINGS APPROVED BY THE ENGINEER. CONTRACTOR TO PROVIDE INSPECTION AND MAINTENANCE STRUCTURES EVERY 100' OR PER MANUFACTURERS RECOMMENDATION	C5.03 & C5.22
3	ROUTE STORM DRAIN LINE BELOW BUILDING	
4	CONNECT PRIVATE STORM LINE TO PUBLIC STORM SYSTEM	
5	CONNECT CANOPY DRAIN TO STORM DRAINAGE SYSTEM WITH CLEANOUT	
6	CONSTRUCT NEW LIDA PLANTER	
7	MAINTAIN FLOW TO EXISTING LIDA FACILITY	
8	CONNECT SPORT FIELD UNDERDRAIN STORM SYSTEM TO SITE STORM SYSTEM	
9	CONNECT PROPOSED STORM SYSTEM TO EXISTING PIPE CONVEYANCE OF ERICKSON CREEK. LOCATION IS APPROXIMATE. FIELD VERIFY POINT OF CONNECTION	

UTILITY LABEL LEGEND



STRUCTURE TYPE

CALLOUT	SYMBOL	DESCRIPTION	DETAIL REF.
CB		CATCH BASIN	
CO		CLEANOUT TO GRADE	340/C5.06
DI		DITCH INLET	
FCMH		FLOW CONTROL MANHOLE	C5.21
MH		MANHOLE	330,335/C5.05
OF		OUTFALL	250/C5.02
SD		STORM DRAIN LINE	
SD		PERFORATED STORM PIPE. SEE SHEET SERIES C4.50	C5.24
		PROPOSED OFF SITE STORM LINE	
WQCB		WATER QUALITY CATCH BASIN	C5.22
WQCB(X)		WATER QUALITY CATCH BASIN (X REPRESENTS # OF FILTERS)	C5.21
WQV(X)		WATER QUALITY VAULT (X REPRESENTS # OF FILTERS)	C5.21
		LIDA PLANTER	370/C5.06
		DETENTION FACILITY	SEE C5.03



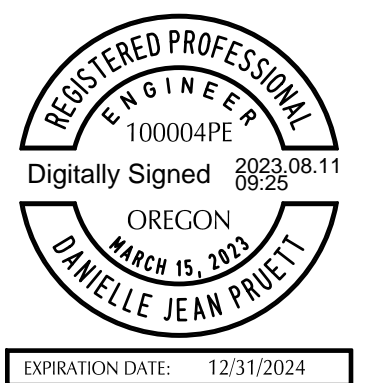
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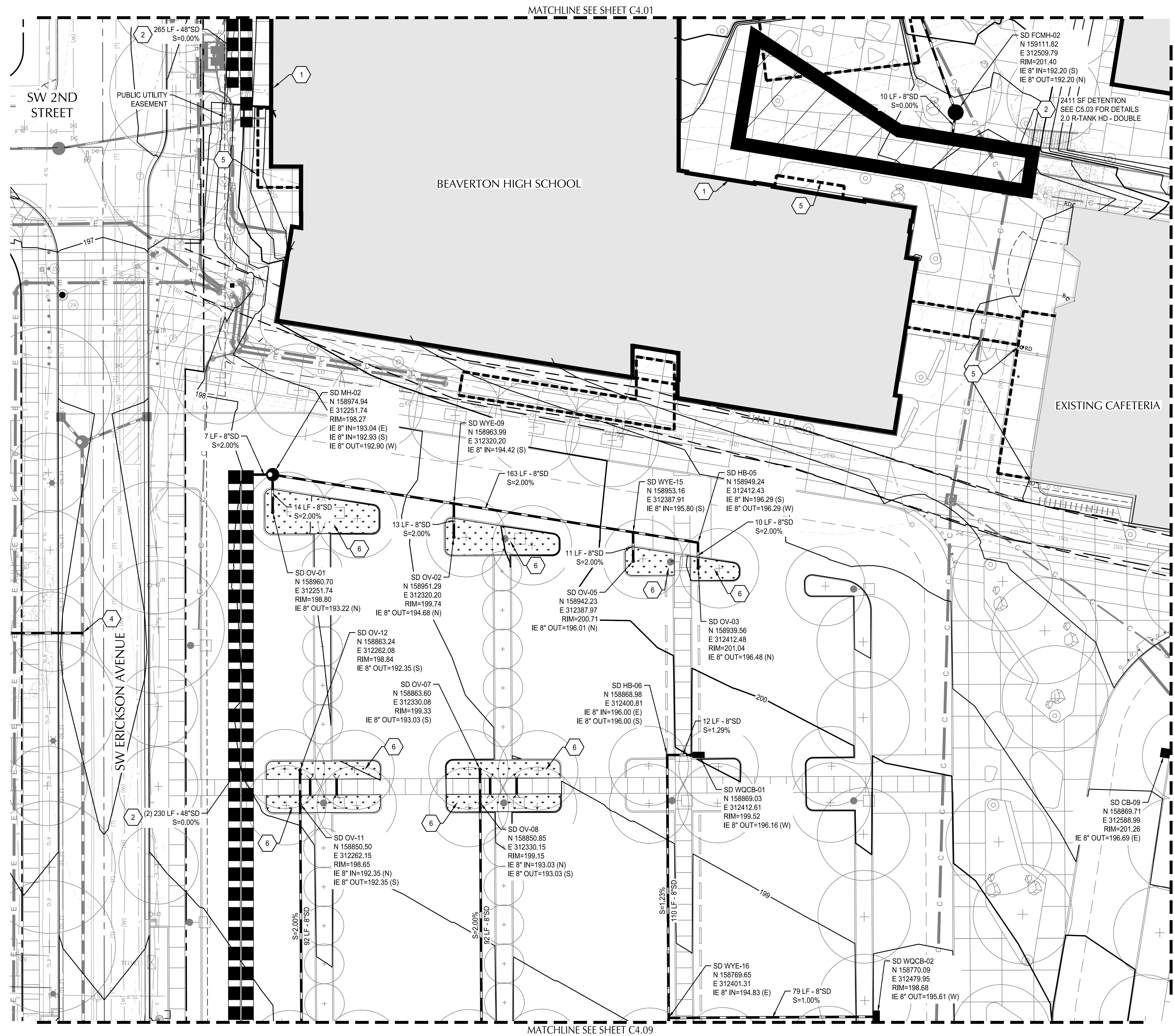
revisions	

phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016

STORM PLAN

C4.04

File: N:\c\2023\12\100178-hs\beaverton-hs\CAD\PL02100178-C4.1-STRM.dwg TAB.C4.05
 Plotted: 3/9/23 at 3:43pm By: dneadecker



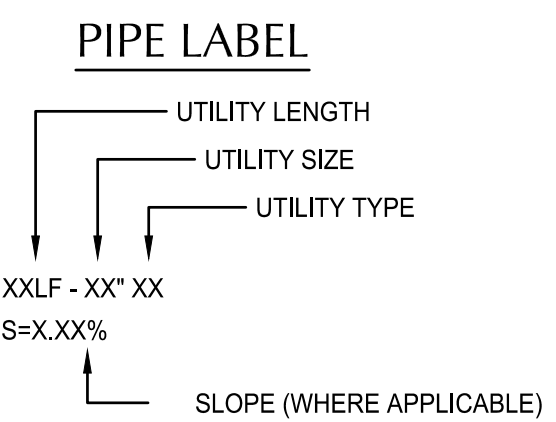
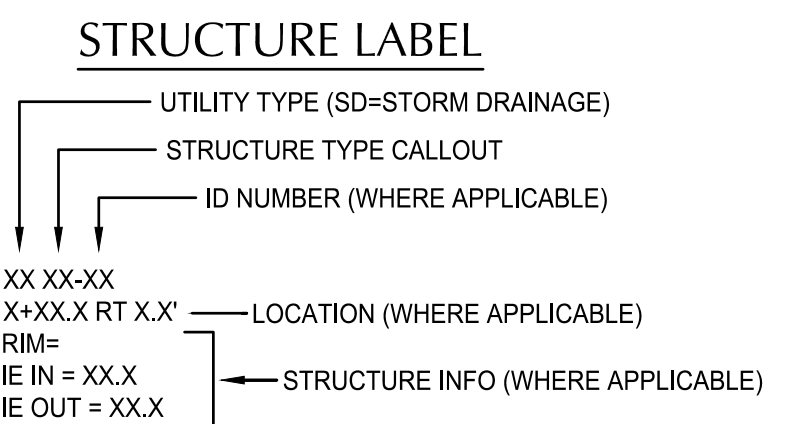
SHEET NOTES

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KEY NOTES

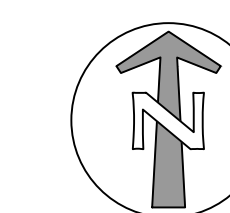
NOTE	DESCRIPTION	DETAIL REF.
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5	CONNECT CANOPY DRAIN TO STORM DRAINAGE SYSTEM WITH CLEANOUT	
6	CONSTRUCT NEW LIDA PLANTER	
7	MAINTAIN FLOW TO EXISTING LIDA FACILITY	
8	CONNECT SPORT FIELD UNDERDRAIN STORM SYSTEM TO SITE STORM SYSTEM	
9	CONNECT PROPOSED STORM SYSTEM TO EXISTING PIPE CONVEYANCE OF ERICKSON CREEK. LOCATION IS APPROXIMATE. FIELD VERIFY POINT OF CONNECTION	

UTILITY LABEL LEGEND



STRUCTURE TYPE

CALLOUT	SYMBOL	DESCRIPTION	DETAIL REF.
CB	■	CATCH BASIN	
CO	•	CLEANOUT TO GRADE	340/C5.06
DI	▣	DITCH INLET	
FCMH	●	FLOW CONTROL MANHOLE	C5.21
MH	○	MANHOLE	330,335/C5.05
OF	<	OUTFALL	250/C5.02
SD	—	STORM DRAIN LINE	
SD	- - -	PROPOSED STORM PIPE. SEE SHEET SERIES C4.50	C5.24
	- - -	PROPOSED OFF SITE STORM LINE	
WQCB	■	WATER QUALITY CATCH BASIN	C5.22
WQCB(X)	■	WATER QUALITY CATCH BASIN (X REPRESENTS # OF FILTERS)	C5.21
WQV(X)	■	WATER QUALITY VAULT (X REPRESENTS # OF FILTERS)	C5.21
	▨	LIDA PLANTER	370/C5.06
	▩	DETENTION FACILITY	SEE C5.03

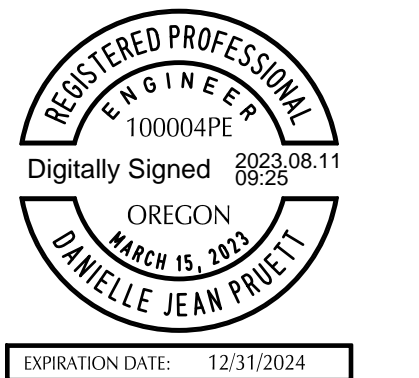


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revisions	

phase

LAND USE RESUBMITTAL SET

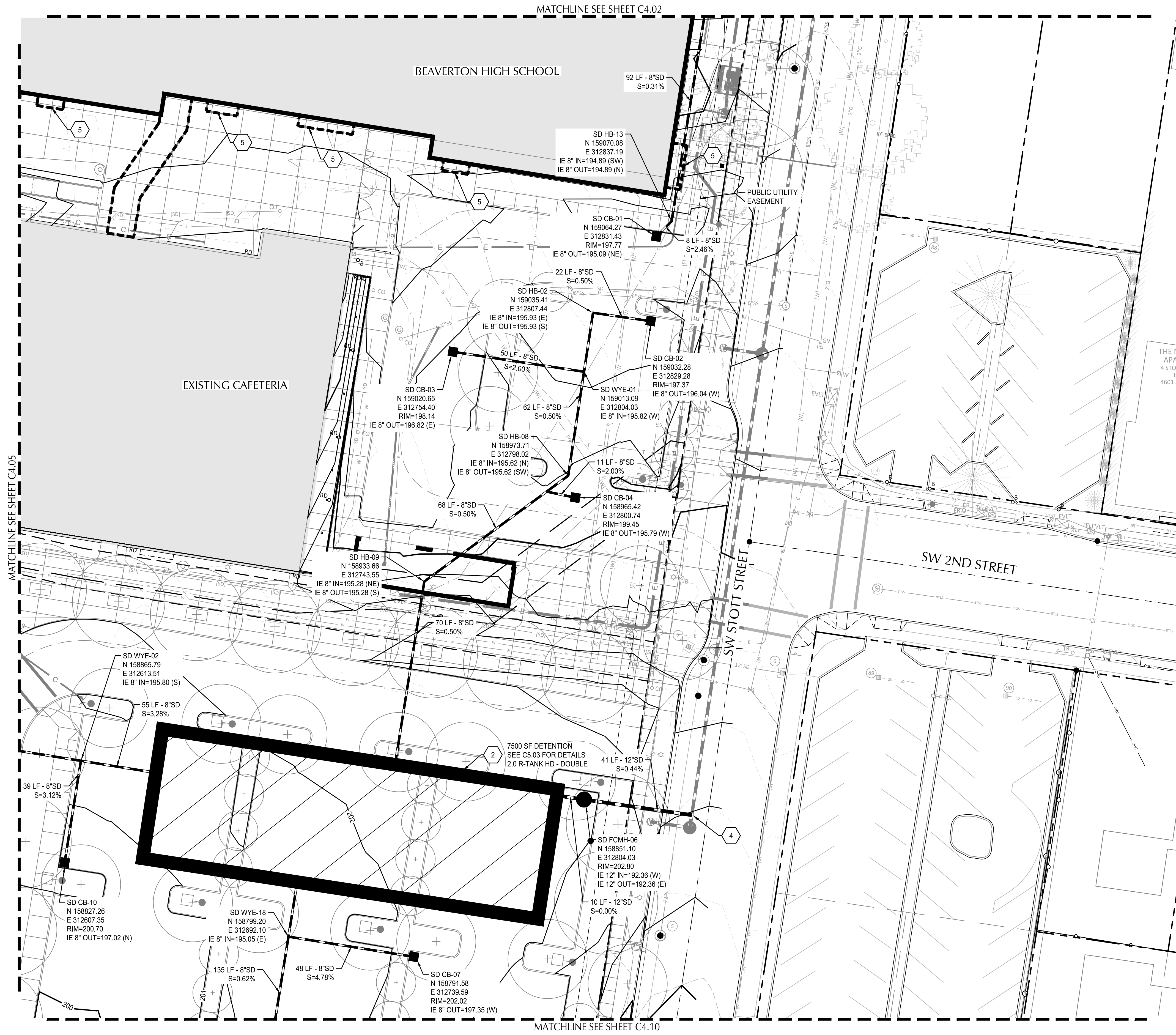
date 08/11/2023

project 21016

STORM PLAN

C4.05

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 Plotted: 8/9/23 at 3:43pm By: dneadecker



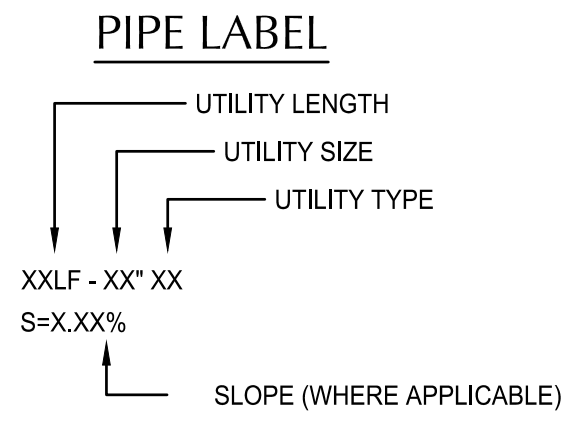
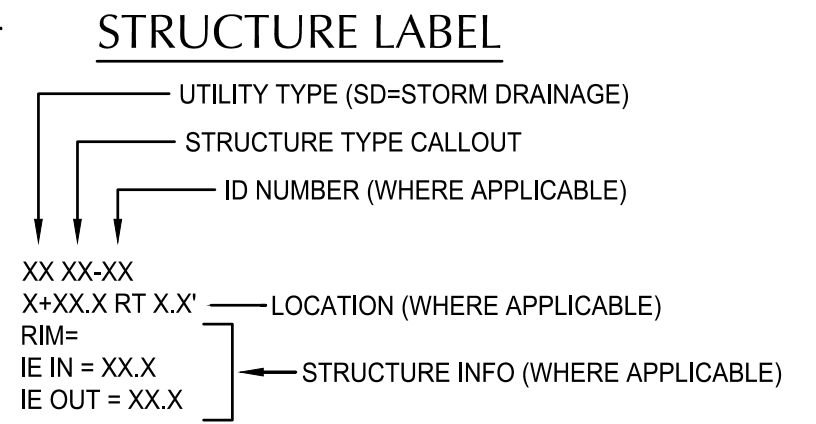
SHEET NOTES

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KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
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3	ROUTE STORM DRAIN LINE BELOW BUILDING	
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UTILITY LABEL LEGEND



STRUCTURE TYPE

CALLOUT	SYMBOL	DESCRIPTION	DETAIL REF.
CB	■	CATCH BASIN	
CO	•	CLEANOUT TO GRADE	340/C5.06
DI	■	DITCH INLET	
FCMH	●	FLOW CONTROL MANHOLE	C5.21
MH	●	MANHOLE	330,335/C5.05
OF	<	OUTFALL	250/C5.02
SD	—	STORM DRAIN LINE	
SD	- - -	PERFORATED STORM PIPE. SEE SHEET SERIES C4.50	C5.24
	- - -	PROPOSED OFF SITE STORM LINE	
WQCB	■	WATER QUALITY CATCH BASIN	C5.22
WQCB(X)	■	WATER QUALITY CATCH BASIN (X REPRESENTS # OF FILTERS)	C5.21
WQV(X)	■	WATER QUALITY VAULT (X REPRESENTS # OF FILTERS)	C5.21
	—	LIDA PLANTER	370/C5.06
	—	DETENTION FACILITY	SEE C5.03

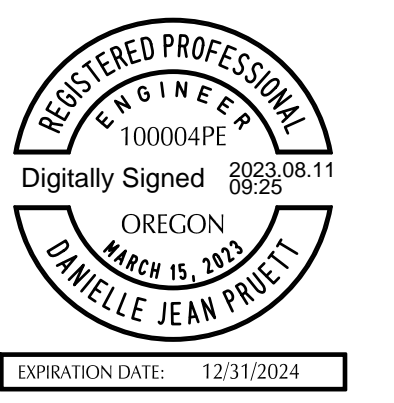


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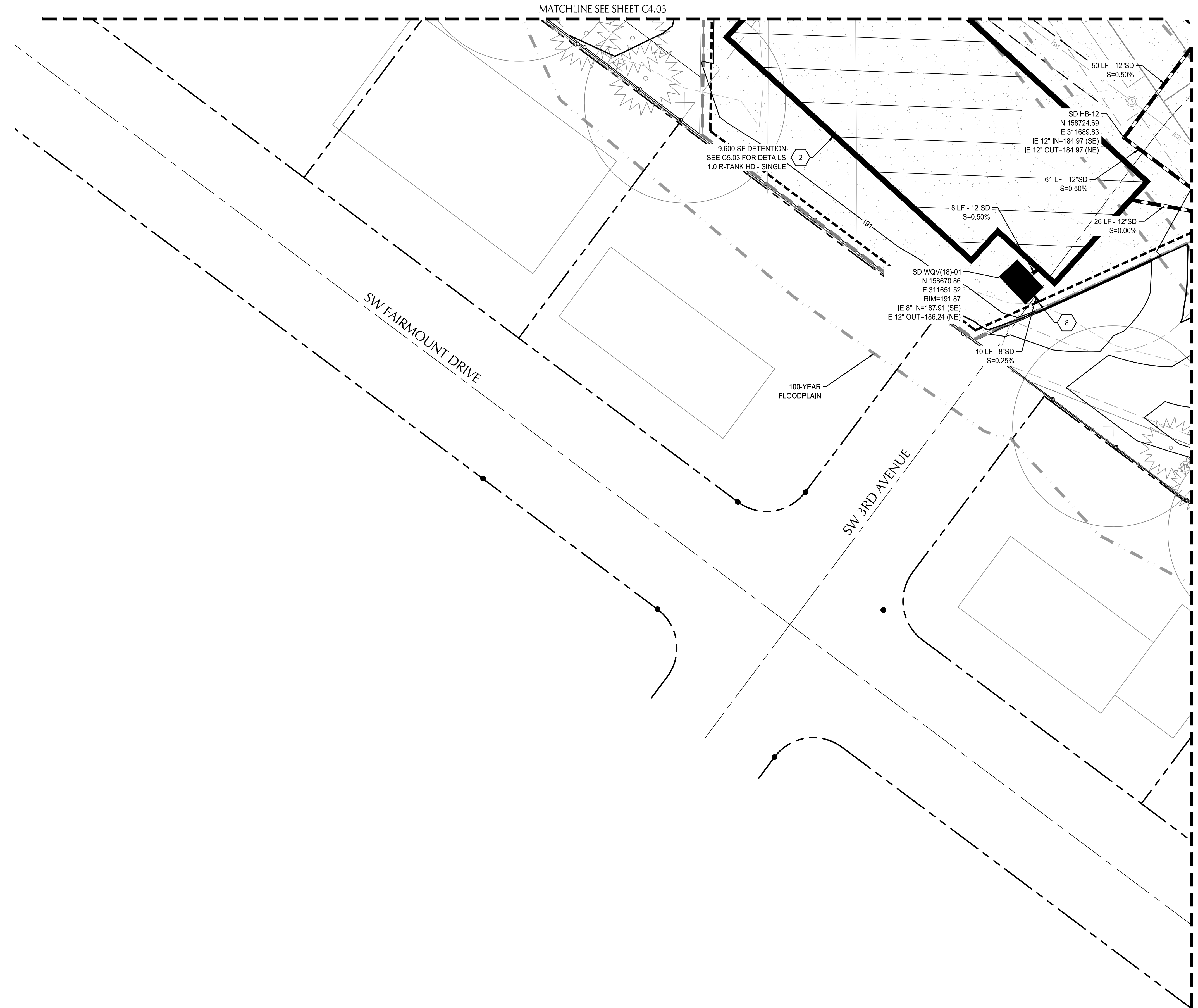


revisions	

phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016

STORM PLAN
C4.06

File: N:\c\2023\12\10078-hs\beaverton-hs\CAD\PL02\10078-C-4.1-STRM.dwg TAB: C4.07
 Plotted: 8/9/23 at 3:43pm By: dneidecker



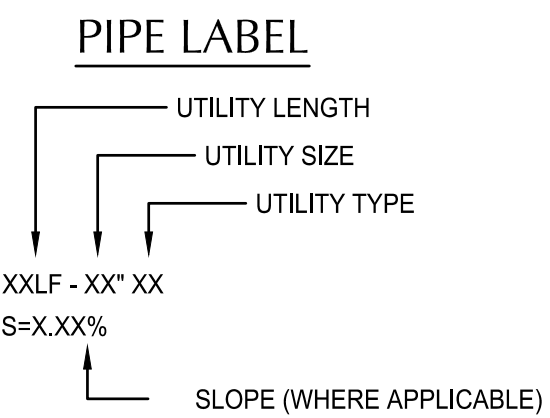
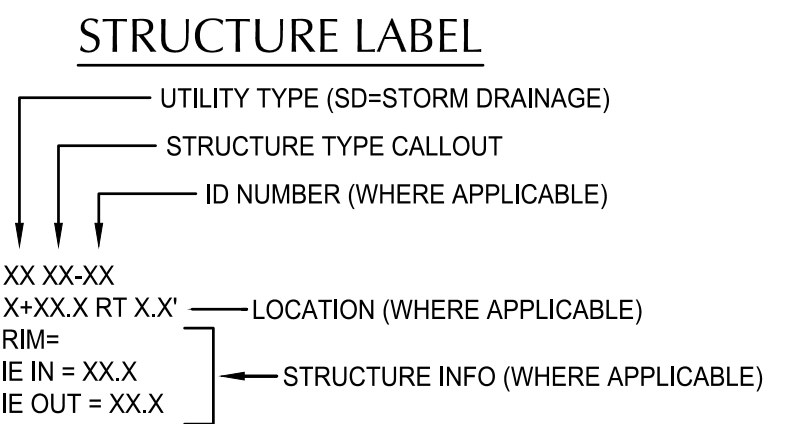
SHEET NOTES

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KEY NOTES

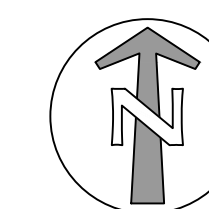
NOTE	DESCRIPTION	DETAIL REF.
1	DOWNSPOUT WITH CLEANOUT	
2	UNDERGROUND STORMWATER MANAGEMENT FACILITIES. LAYOUT SHOWN FOR REFERENCE ONLY - FINAL LAYOUT SHALL BE PER CONTRACTOR PROVIDED SHOP DRAWINGS APPROVED BY THE ENGINEER. CONTRACTOR TO PROVIDE INSPECTION AND MAINTENANCE STRUCTURES EVERY 100' OR PER MANUFACTURERS RECOMMENDATION	C5.03 & C5.22
3	ROUTE STORM DRAIN LINE BELOW BUILDING	
4	CONNECT PRIVATE STORM LINE TO PUBLIC STORM SYSTEM	
5	CONNECT CANOPY DRAIN TO STORM DRAINAGE SYSTEM WITH CLEANOUT	
6	CONSTRUCT NEW LIDA PLANTER	
7	MAINTAIN FLOW TO EXISTING LIDA FACILITY	
8	CONNECT SPORT FIELD UNDERDRAIN STORM SYSTEM TO SITE STORM SYSTEM	
9	CONNECT PROPOSED STORM SYSTEM TO EXISTING PIPE CONVEYANCE OF ERICKSON CREEK. LOCATION IS APPROXIMATE. FIELD VERIFY POINT OF CONNECTION	

UTILITY LABEL LEGEND



STRUCTURE TYPE

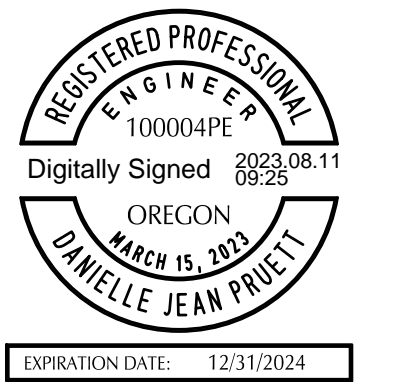
CALLOUT	SYMBOL	DESCRIPTION	DETAIL REF.
CB	■	CATCH BASIN	
CO	•	CLEANOUT TO GRADE	340/C5.06
DI	■	DITCH INLET	
FCMH	●	FLOW CONTROL MANHOLE	C5.21
MH	●	MANHOLE	330,335/C5.05
OF	<	OUTFALL	250/C5.02
SD	—	STORM DRAIN LINE	
SD	- - -	PERFORATED STORM PIPE. SEE SHEET SERIES C4.50	C5.24
	- - -	PROPOSED OFF SITE STORM LINE	
WQCB	■	WATER QUALITY CATCH BASIN	C5.22
WQCB(X)	■	WATER QUALITY CATCH BASIN (X REPRESENTS # OF FILTERS)	C5.21
WQV(X)	■	WATER QUALITY VAULT (X REPRESENTS # OF FILTERS)	C5.21
	—	LIDA PLANTER	370/C5.06
	—	DETENTION FACILITY	SEE C5.03



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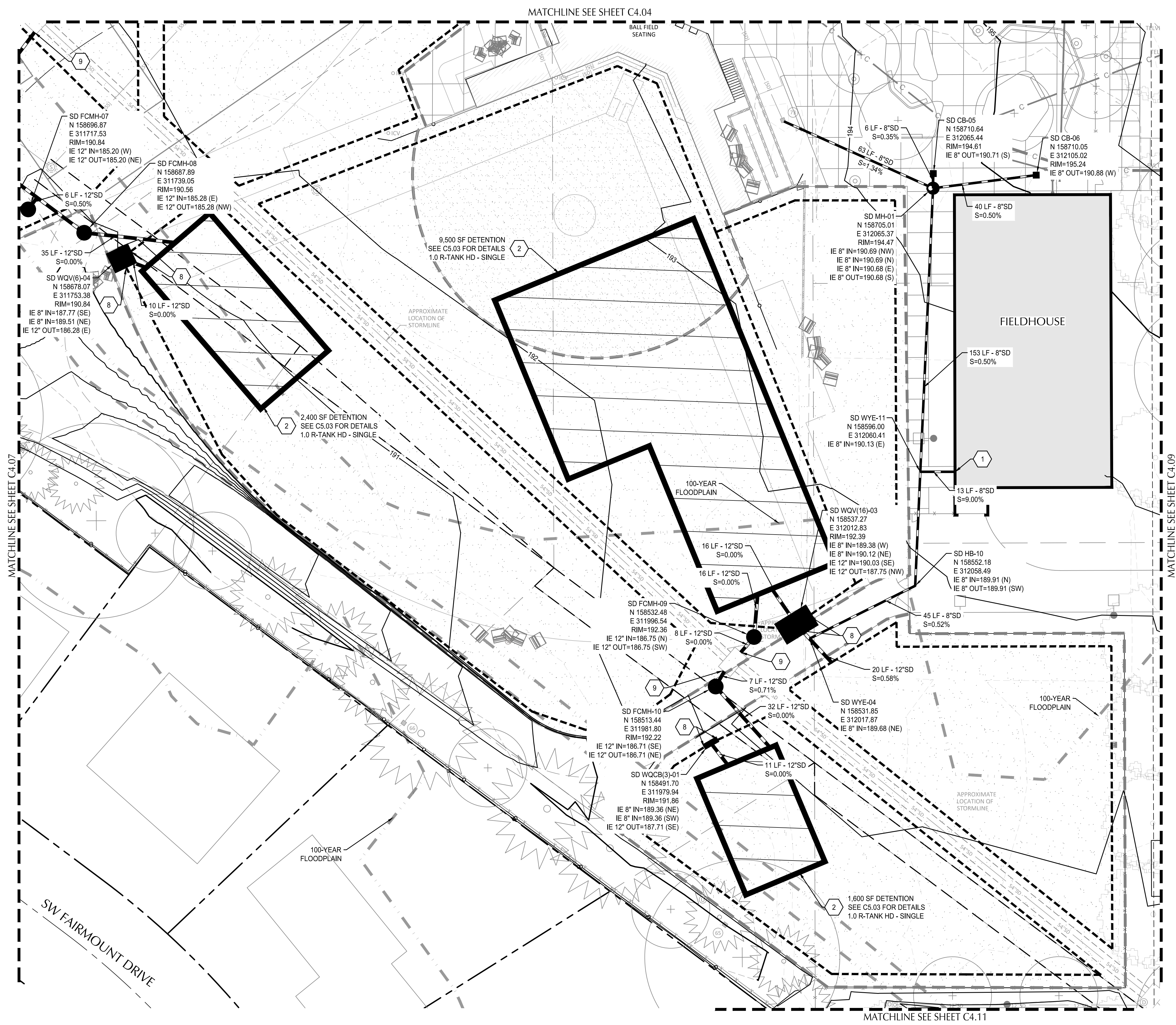


revisions	

phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016

STORM PLAN
C4.07

File: N:\c\2023\12\100178-hs\beaverton-hs\CAD\Plot\2100178-C-4.1-STRM.dwg TAB: C4.08
 Plotted: 3/9/23 at 3:43pm By: dneidecker



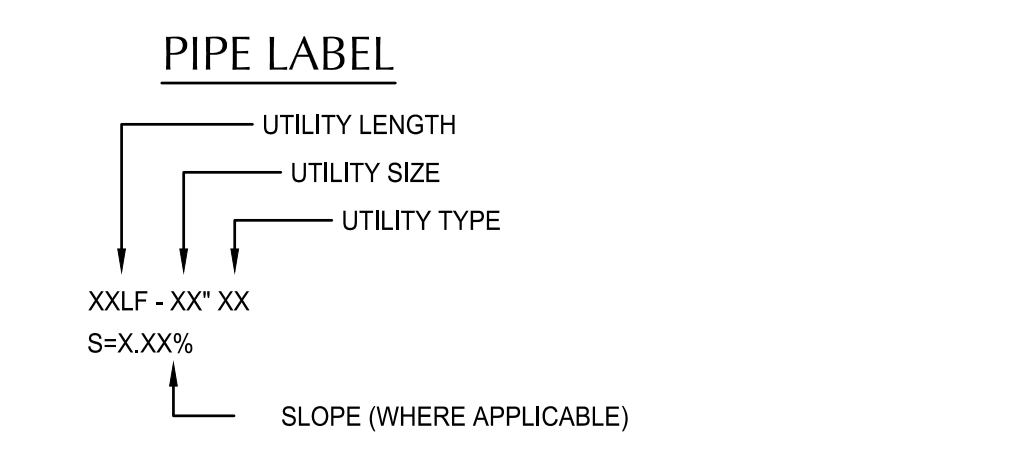
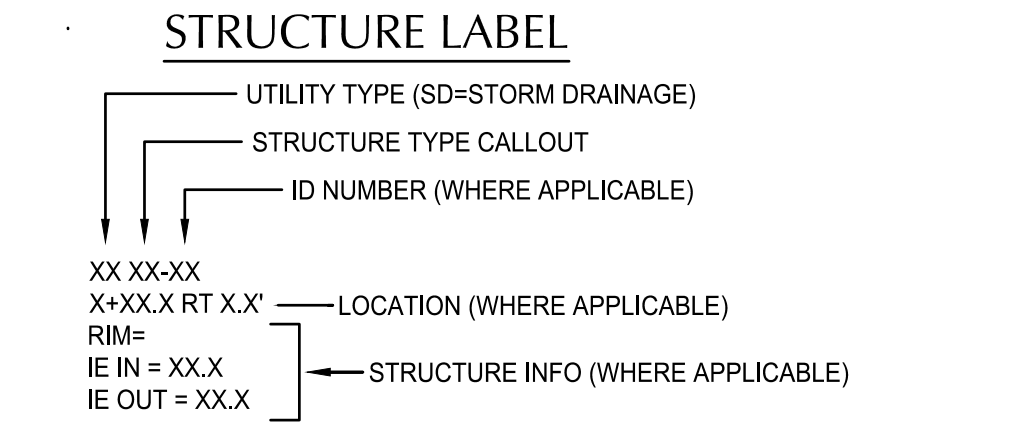
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KEY NOTES

- | NOTE | DESCRIPTION | DETAIL REF. |
|------|--|---------------|
| 1 | DOWNSPOUT WITH CLEANOUT | |
| 2 | UNDERGROUND STORMWATER MANAGEMENT FACILITIES. LAYOUT SHOWN FOR REFERENCE ONLY - FINAL LAYOUT SHALL BE PER CONTRACTOR PROVIDED SHOP DRAWINGS APPROVED BY THE ENGINEER. CONTRACTOR TO PROVIDE INSPECTION AND MAINTENANCE STRUCTURES EVERY 100' OR PER MANUFACTURERS RECOMMENDATION | C5.03 & C5.22 |
| 3 | ROUTE STORM DRAIN LINE BELOW BUILDING | |
| 4 | CONNECT PRIVATE STORM LINE TO PUBLIC STORM SYSTEM | |
| 5 | CONNECT CANOPY DRAIN TO STORM DRAINAGE SYSTEM WITH CLEANOUT | |
| 6 | CONSTRUCT NEW LIDA PLANTER | |
| 7 | MAINTAIN FLOW TO EXISTING LIDA FACILITY | |
| 8 | CONNECT SPORT FIELD UNDERDRAIN STORM SYSTEM TO SITE STORM SYSTEM | |
| 9 | CONNECT PROPOSED STORM SYSTEM TO EXISTING PIPE CONVEYANCE OF ERICKSON CREEK. LOCATION IS APPROXIMATE. FIELD VERIFY POINT OF CONNECTION | |

UTILITY LABEL LEGEND



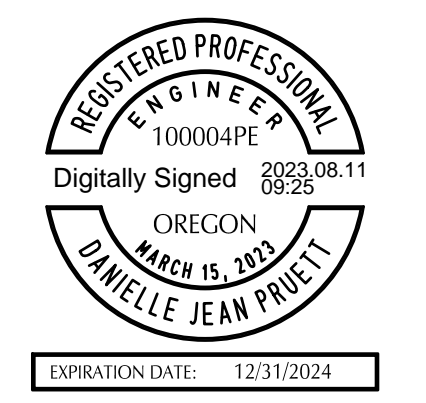
STRUCTURE TYPE

CALLOUT	SYMBOL	DESCRIPTION	DETAIL REF.
CB	■	CATCH BASIN	
CO	•	CLEANOUT TO GRADE	340/C5.06
DI	▣	DITCH INLET	
FCMH	●	FLOW CONTROL MANHOLE	C5.21
MH	○	MANHOLE	330,335/C5.05
OF	<	OUTFALL	250/C5.02
SD	—	STORM DRAIN LINE	
SD	- - -	PERFORATED STORM PIPE. SEE SHEET SERIES C4.50	C5.24
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WQCB(X)	■	WATER QUALITY CATCH BASIN (X REPRESENTS # OF FILTERS)	C5.21
WQV(X)	■	WATER QUALITY VAULT (X REPRESENTS # OF FILTERS)	C5.21
	▨	LIDA PLANTER	370/C5.06
	▩	DETENTION FACILITY	SEE C5.03

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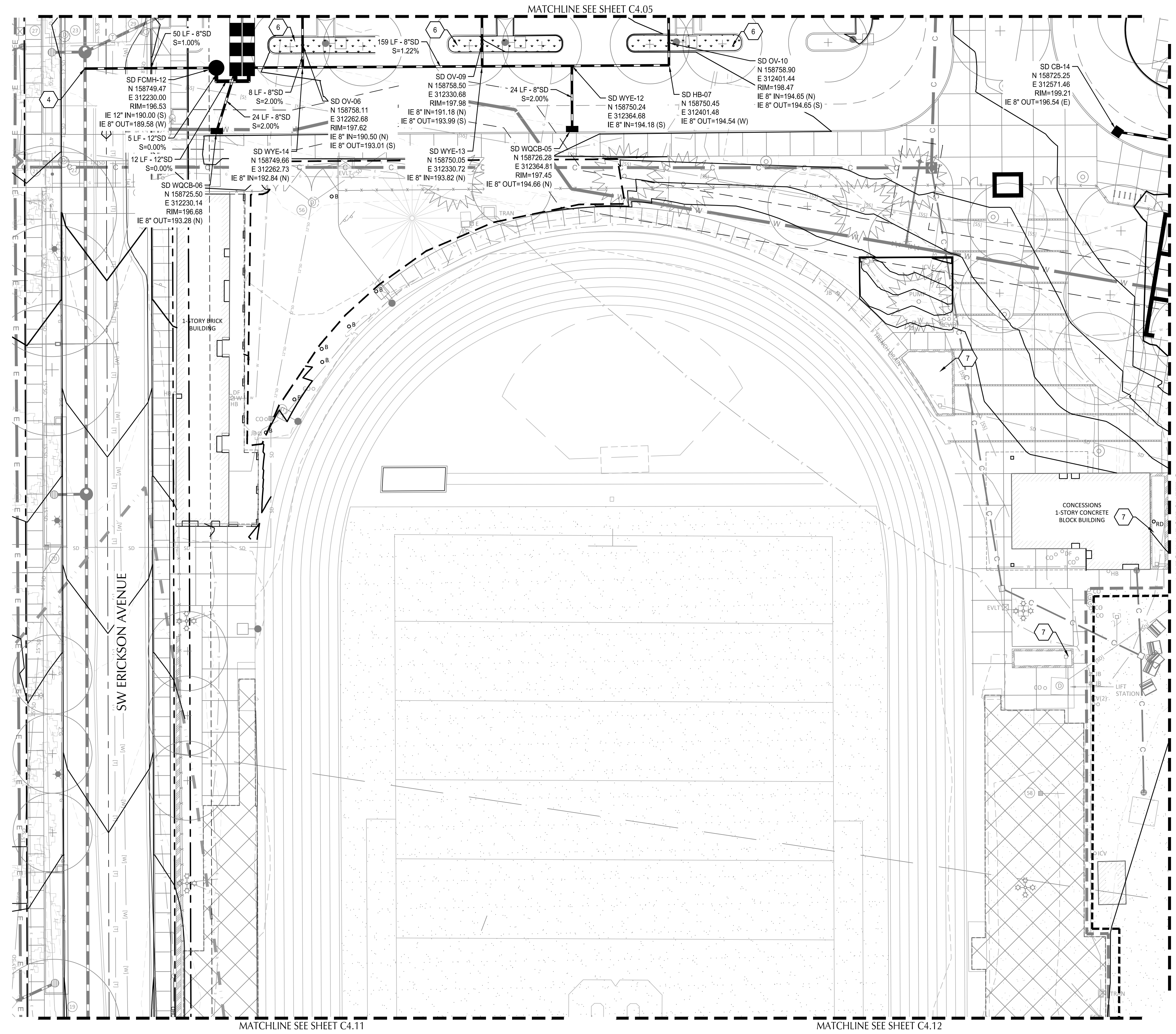
revisions	

phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016

STORM PLAN C4.08



File: N:\c\2023\12\10078-hs\beaverton-hs\CAD\Plot\210078-C-4.1-STRM.dwg TAB.C4.09
 Plotted: 8/9/23 at 3:43pm By: dneadecker



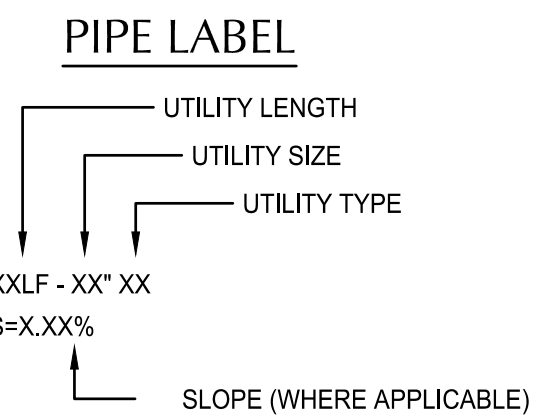
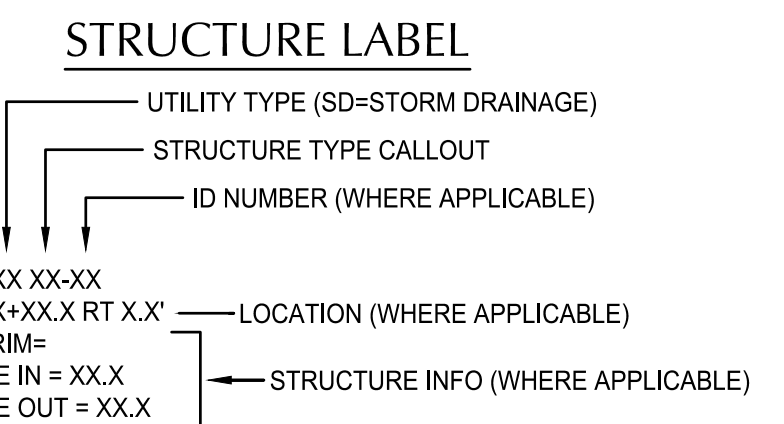
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KEY NOTES

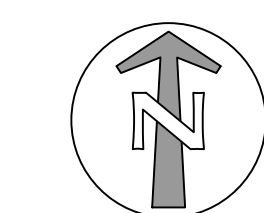
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7	MAINTAIN FLOW TO EXISTING LIDA FACILITY	
8	CONNECT SPORT FIELD UNDERDRAIN STORM SYSTEM TO SITE STORM SYSTEM	
9	CONNECT PROPOSED STORM SYSTEM TO EXISTING PIPE CONVEYANCE OF ERICKSON CREEK. LOCATION IS APPROXIMATE. FIELD VERIFY POINT OF CONNECTION	

UTILITY LABEL LEGEND



STRUCTURE TYPE

CALLOUT	SYMBOL	DESCRIPTION	DETAIL REF.
CB	■	CATCH BASIN	
CO	•	CLEANOUT TO GRADE	340/C5.06
DI	■	DITCH INLET	
FCMH	●	FLOW CONTROL MANHOLE	C5.21
MH	○	MANHOLE	330,335/C5.05
OF	<	OUTFALL	250/C5.02
SD	—	STORM DRAIN LINE	
SD	- - -	PERFORATED STORM PIPE. SEE SHEET SERIES C4.50	C5.24
	- - -	PROPOSED OFF SITE STORM LINE	
WQCB	■	WATER QUALITY CATCH BASIN	C5.22
WQCB(X)	■	WATER QUALITY CATCH BASIN (X REPRESENTS # OF FILTERS)	C5.21
WQV(X)	■	WATER QUALITY VAULT (X REPRESENTS # OF FILTERS)	C5.21
	⊠	LIDA PLANTER	370/C5.06
	▭	DETENTION FACILITY	SEE C5.03

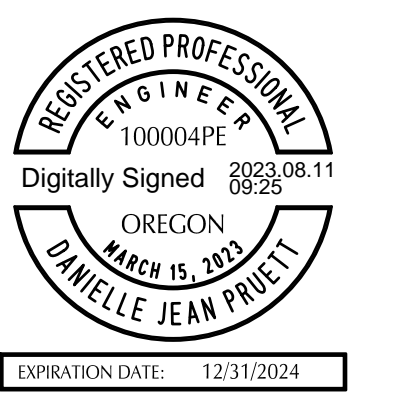


111 SW Fifth Ave., Suite 2600
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revisions	

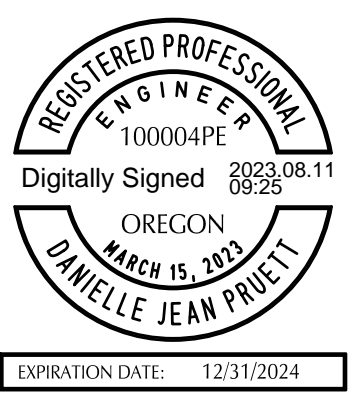
phase LAND USE RESUBMITTAL SET
 date 08/11/2023
 project 21016

STORM PLAN
C4.09

BEAVERTON HIGH SCHOOL REBUILD

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SHEET NOTES

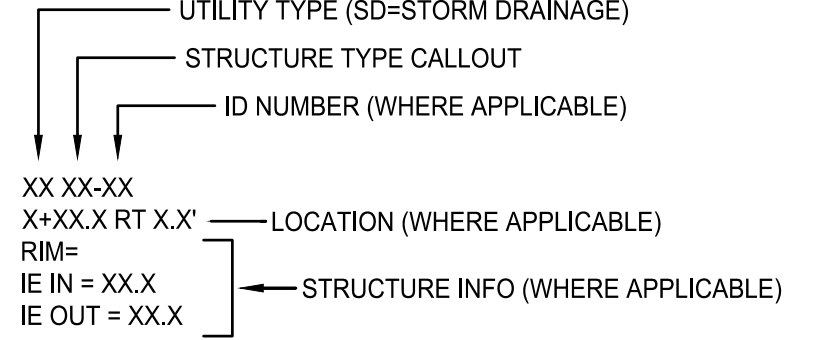
- PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER DETAIL 300/C5.05.
- STATIONS AND OFFSETS SHOWN ON STRUCTURES ARE SHOWN AT CENTER OF STRUCTURE.
- NORTHINGS & EASTINGS SHOWN ON STRUCTURES ARE SHOWN AT CENTER OF STRUCTURE.

KEY NOTES

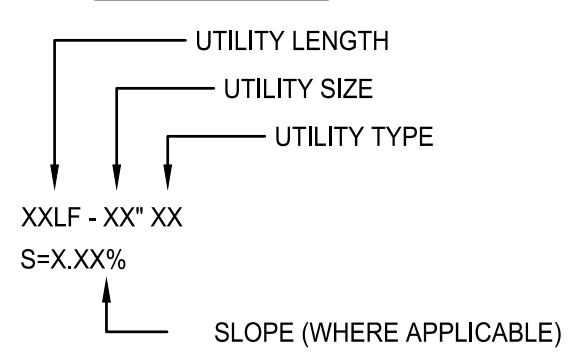
NOTE	DESCRIPTION	DETAIL REF.
1	DOWNSPOUT WITH CLEANOUT	
2	UNDERGROUND STORMWATER MANAGEMENT FACILITIES. LAYOUT SHOWN FOR REFERENCE ONLY - FINAL LAYOUT SHALL BE PER CONTRACTOR PROVIDED SHOP DRAWINGS APPROVED BY THE ENGINEER. CONTRACTOR TO PROVIDE INSPECTION AND MAINTENANCE STRUCTURES EVERY 100' OR PER MANUFACTURERS RECOMMENDATION	C5.03 & C5.22
3	ROUTE STORM DRAIN LINE BELOW BUILDING	
4	CONNECT PRIVATE STORM LINE TO PUBLIC STORM SYSTEM	
5	CONNECT CANOPY DRAIN TO STORM DRAINAGE SYSTEM WITH CLEANOUT	
6	CONSTRUCT NEW LIDA PLANTER	
7	MAINTAIN FLOW TO EXISTING LIDA FACILITY	
8	CONNECT SPORT FIELD UNDERDRAIN STORM SYSTEM TO SITE STORM SYSTEM	
9	CONNECT PROPOSED STORM SYSTEM TO EXISTING PIPE CONVEYANCE OF ERICKSON CREEK. LOCATION IS APPROXIMATE. FIELD VERIFY POINT OF CONNECTION	

UTILITY LABEL LEGEND

STRUCTURE LABEL



PIPE LABEL



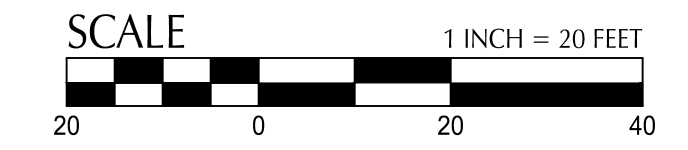
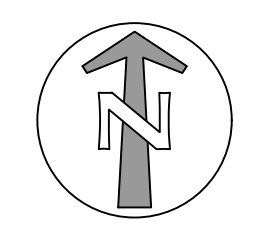
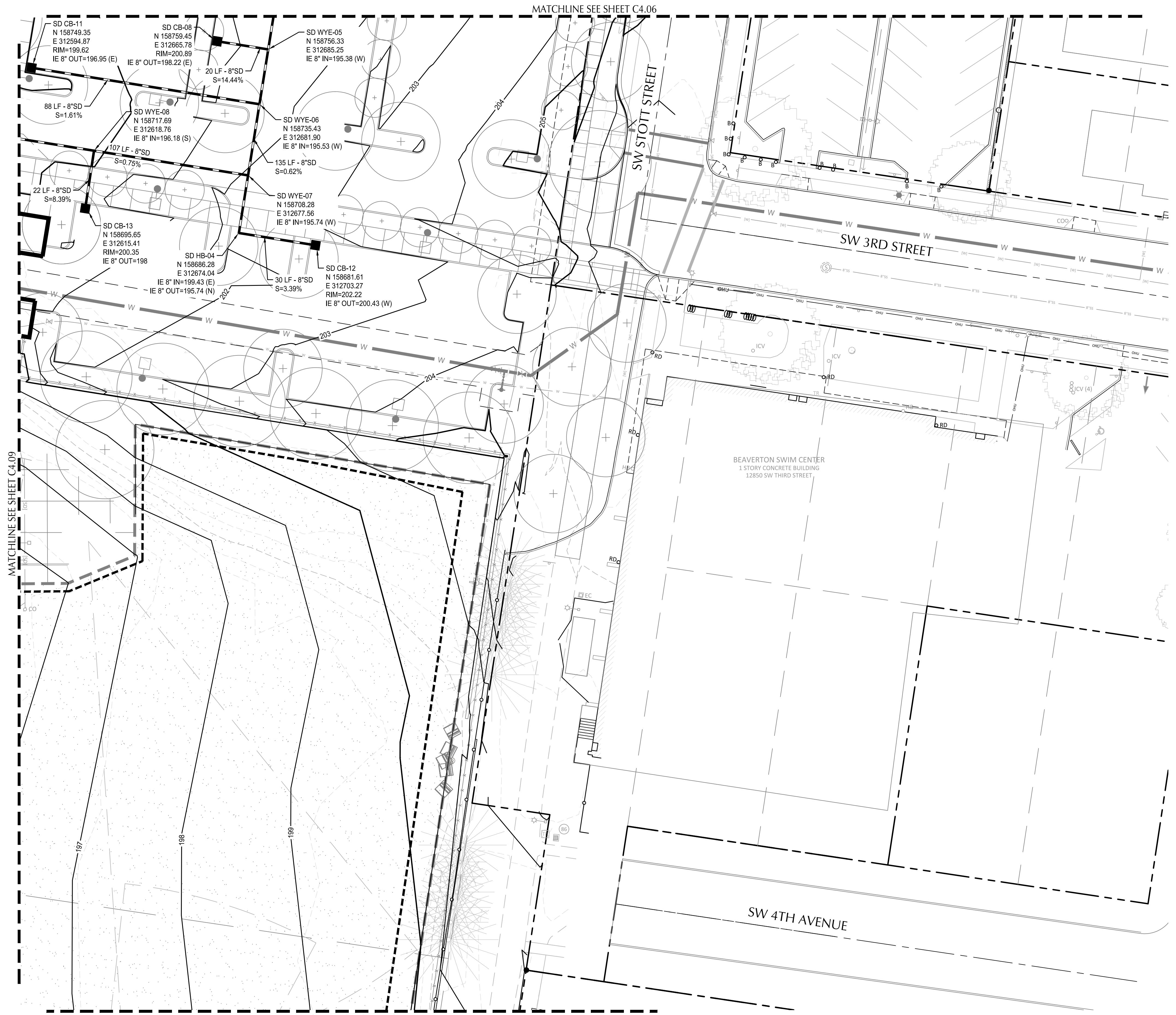
STRUCTURE TYPE

CALLOUT	SYMBOL	DESCRIPTION	DETAIL REF.
CB	■	CATCH BASIN	
CO	•	CLEANOUT TO GRADE	340/C5.06
DI	■	DITCH INLET	
FCMH	●	FLOW CONTROL MANHOLE	C5.21
MH	○	MANHOLE	330,335/C5.05
OF	<	OUTFALL	250/C5.02
SD	—	STORM DRAIN LINE	
SD	- - -	PERFORATED STORM PIPE. SEE SHEET SERIES C4.50	C5.24
	- - -	PROPOSED OFF SITE STORM LINE	
WQCB	■	WATER QUALITY CATCH BASIN	C5.22
WQCB(X)	■	WATER QUALITY CATCH BASIN (X REPRESENTS # OF FILTERS)	C5.21
WQV(X)	■	WATER QUALITY VAULT (X REPRESENTS # OF FILTERS)	C5.21
	□	LIDA PLANTER	370/C5.06
	▬	DETENTION FACILITY	SEE C5.03

revisions	

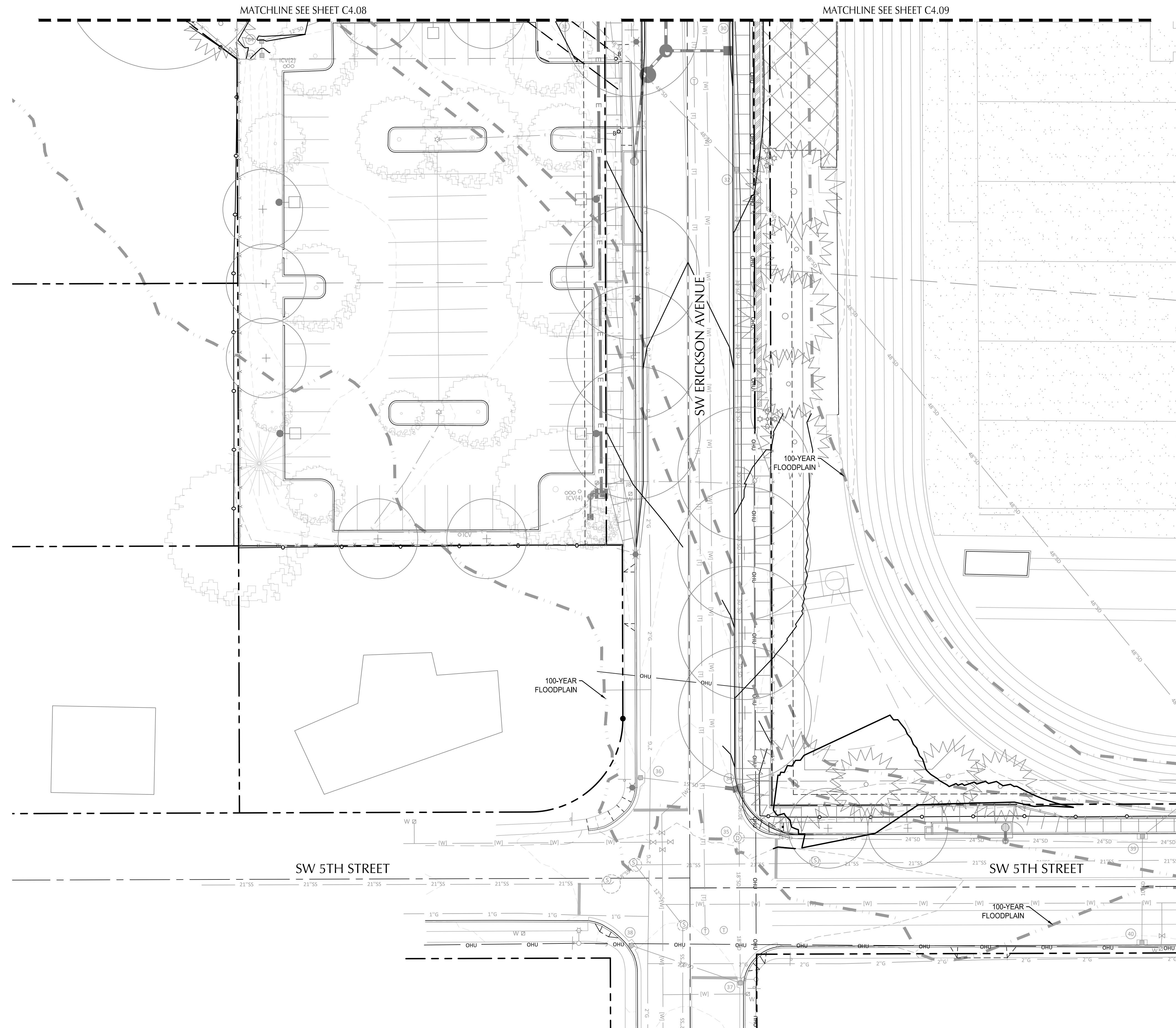
phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016

STORM PLAN
C4.10



File: N:\c\2023\12\100178-hs\beaverton-hs\CAD\PL02\100178-C-4.1-STRM.dwg TAB.C4.10
Plotted: 8/9/23 at 3:44pm By: dneadecker

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 Plotted: 8/9/23 at 3:44pm By: dneidecker



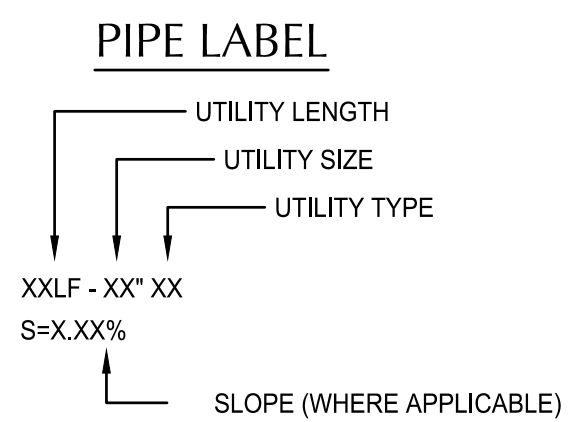
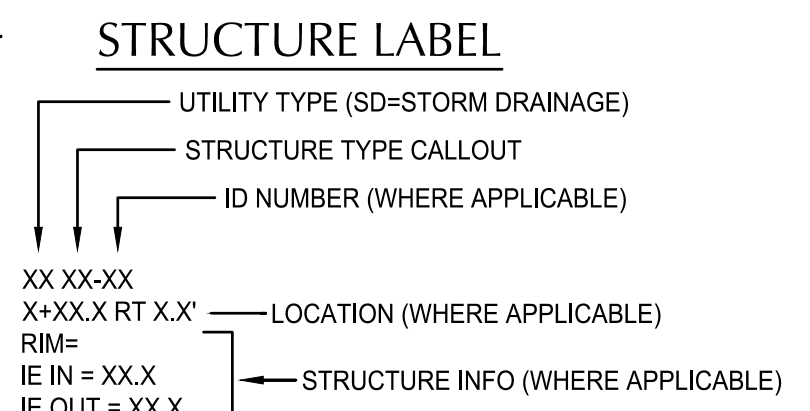
SHEET NOTES

- PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER DETAIL 300/C505.
- STATIONS AND OFFSETS SHOWN ON STRUCTURES ARE SHOWN AT CENTER OF STRUCTURE.
- NORTHINGS & EASTINGS SHOWN ON STRUCTURES ARE SHOWN AT CENTER OF STRUCTURE.

KEY NOTES

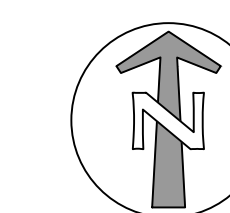
NOTE	DESCRIPTION	DETAIL REF.
1	DOWNSPOUT WITH CLEANOUT	
2	UNDERGROUND STORMWATER MANAGEMENT FACILITIES. LAYOUT SHOWN FOR REFERENCE ONLY - FINAL LAYOUT SHALL BE PER CONTRACTOR PROVIDED SHOP DRAWINGS APPROVED BY THE ENGINEER. CONTRACTOR TO PROVIDE INSPECTION AND MAINTENANCE STRUCTURES EVERY 100' OR PER MANUFACTURERS RECOMMENDATION	C5.03 & C5.22
3	ROUTE STORM DRAIN LINE BELOW BUILDING	
4	CONNECT PRIVATE STORM LINE TO PUBLIC STORM SYSTEM	
5	CONNECT CANOPY DRAIN TO STORM DRAINAGE SYSTEM WITH CLEANOUT	
6	CONSTRUCT NEW LIDA PLANTER	
7	MAINTAIN FLOW TO EXISTING LIDA FACILITY	
8	CONNECT SPORT FIELD UNDERDRAIN STORM SYSTEM TO SITE STORM SYSTEM	
9	CONNECT PROPOSED STORM SYSTEM TO EXISTING PIPE CONVEYANCE OF ERICKSON CREEK. LOCATION IS APPROXIMATE. FIELD VERIFY POINT OF CONNECTION	

UTILITY LABEL LEGEND



STRUCTURE TYPE

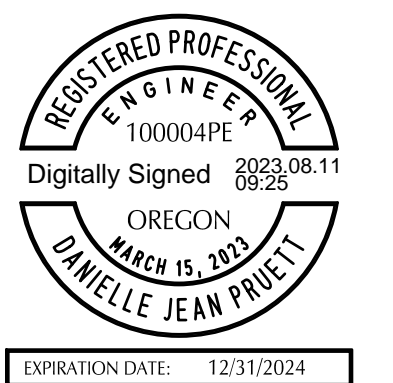
CALLOUT	SYMBOL	DESCRIPTION	DETAIL REF.
CB	■	CATCH BASIN	
CO	•	CLEANOUT TO GRADE	340/C5.06
DI	■	DITCH INLET	
FCMH	●	FLOW CONTROL MANHOLE	C5.21
MH	●	MANHOLE	330,335/C5.05
OF	<	OUTFALL	250/C5.02
SD	—	STORM DRAIN LINE	
SD	- - -	PERFORATED STORM PIPE. SEE SHEET SERIES C4.50	C5.24
	- - -	PROPOSED OFF SITE STORM LINE	
WQCB	■	WATER QUALITY CATCH BASIN	C5.22
WQCB(X)	■	WATER QUALITY CATCH BASIN (X REPRESENTS # OF FILTERS)	C5.21
WQV(X)	■	WATER QUALITY VAULT (X REPRESENTS # OF FILTERS)	C5.21
	□	LIDA PLANTER	370/C5.06
	□	DETENTION FACILITY	SEE C5.03



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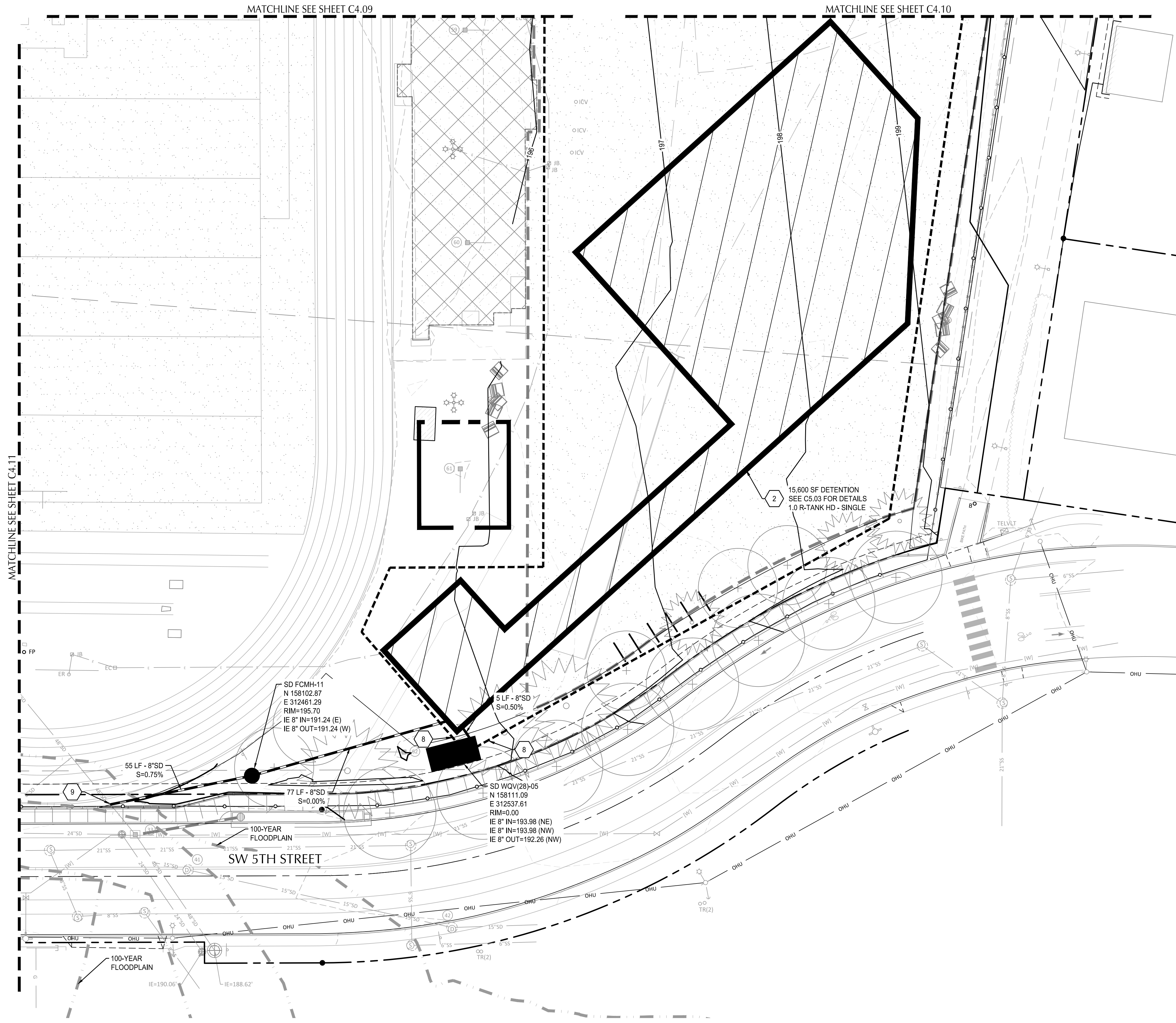
date 08/11/2023

project 21016

STORM PLAN

C4.11

File: N:\c\2023\12100178-hsd-beaverton-hs\CAD\PROJECT\100178-C4.1-STRM.dwg TAB.C4.12
 Plotted: 8/9/23 at 3:44pm By: dmsdecker



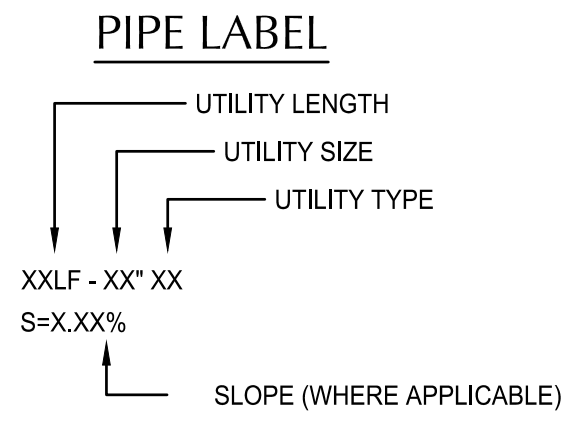
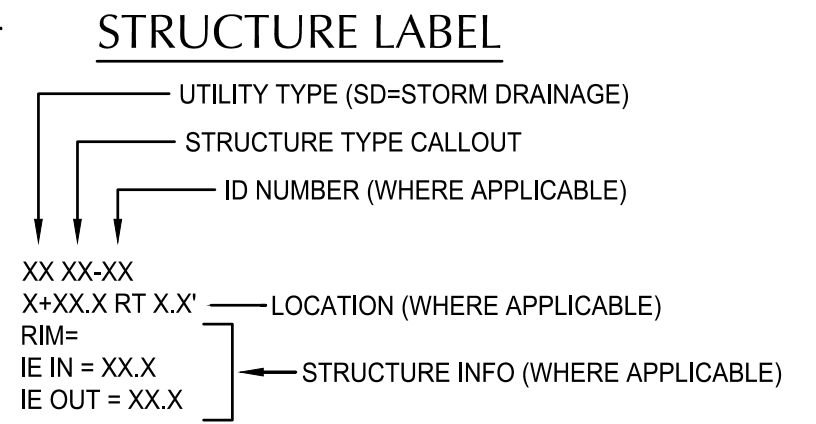
SHEET NOTES

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KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
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2	UNDERGROUND STORMWATER MANAGEMENT FACILITIES. LAYOUT SHOWN FOR REFERENCE ONLY - FINAL LAYOUT SHALL BE PER CONTRACTOR PROVIDED SHOP DRAWINGS APPROVED BY THE ENGINEER. CONTRACTOR TO PROVIDE INSPECTION AND MAINTENANCE STRUCTURES EVERY 100' OR PER MANUFACTURERS RECOMMENDATION	C5.03 & C5.22
3	ROUTE STORM DRAIN LINE BELOW BUILDING	
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UTILITY LABEL LEGEND



STRUCTURE TYPE

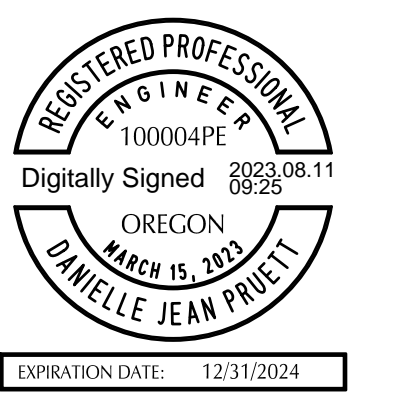
CALLOUT	SYMBOL	DESCRIPTION	DETAIL REF.
CB	■	CATCH BASIN	
CO	•	CLEANOUT TO GRADE	340/C5.06
DI	⊙	DITCH INLET	
FCMH	●	FLOW CONTROL MANHOLE	C5.21
MH	○	MANHOLE	330,335/C5.05
OF	<	OUTFALL	250/C5.02
SD	—	STORM DRAIN LINE	
SD	- - -	PERFORATED STORM PIPE. SEE SHEET SERIES C4.50	C5.24
	- - -	PROPOSED OFF SITE STORM LINE	
WQCB	■	WATER QUALITY CATCH BASIN	C5.22
WQCB(X)	■	WATER QUALITY CATCH BASIN (X REPRESENTS # OF FILTERS)	C5.21
WQV(X)	■	WATER QUALITY VAULT (X REPRESENTS # OF FILTERS)	C5.21
	⊠	LIDA PLANTER	370/C5.06
	▭	DETENTION FACILITY	SEE C5.03



BEAVERTON HIGH SCHOOL REBUILD

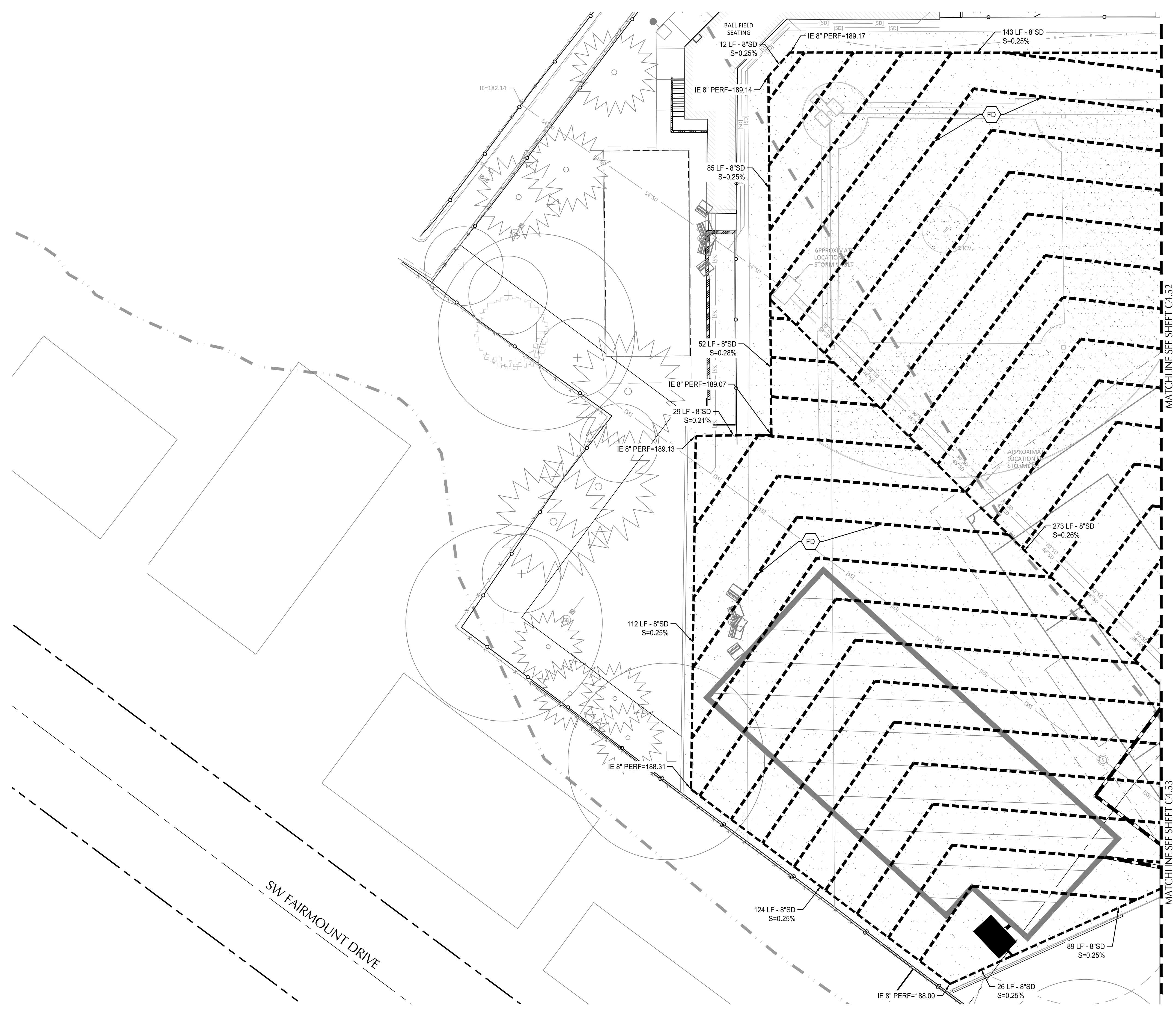
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revisions	
phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016
STORM PLAN	
C4.12	

File: N:\c\2023\12\100178-hs\beaverton-hs\CAD\LOT2\100178-C4.5-SPRT-DRNG.dwg TAB C4.51
 Plotted: 8/9/23 at 3:45pm By: dneadecker



SHEET NOTES

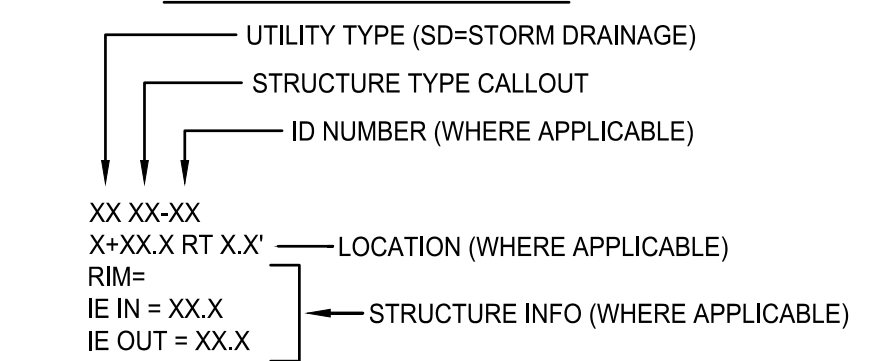
- PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER DETAIL 300/C505.

KEY NOTES

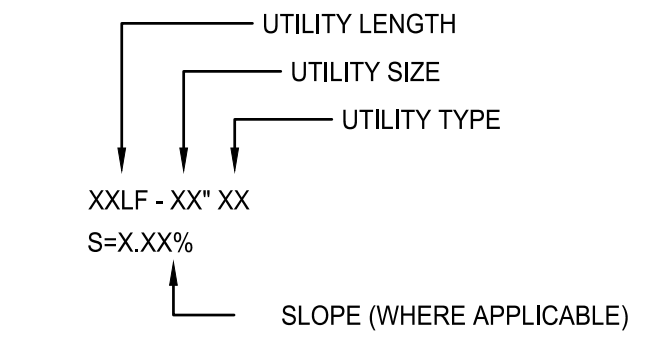
NOTE	DESCRIPTION	DETAIL REF.
FD	FIELD DRAINAGE	

UTILITY LABEL LEGEND

STRUCTURE LABEL

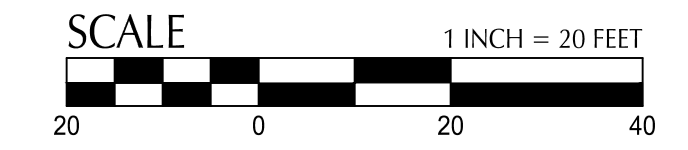
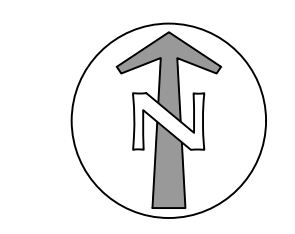


PIPE LABEL



STRUCTURE TYPE

CALLOUT	SYMBOL	DESCRIPTION	DETAIL REF.
CO	●	CLEANOUT TO GRADE	
FCMH	●	FLOW CONTROL MANHOLE	
SD	—	STORM DRAIN LINE	
SD	- - -	PERFORATED STORM PIPE	C5.24
WQCB	■	WATER QUALITY CATCH BASIN	
WQV	■	WATER QUALITY VAULT	



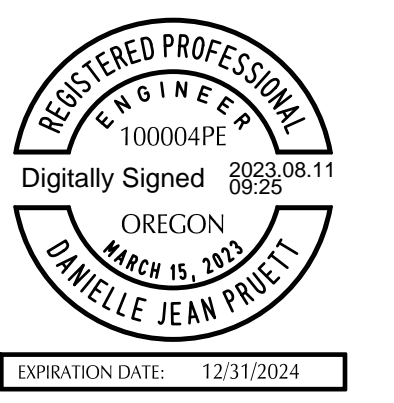
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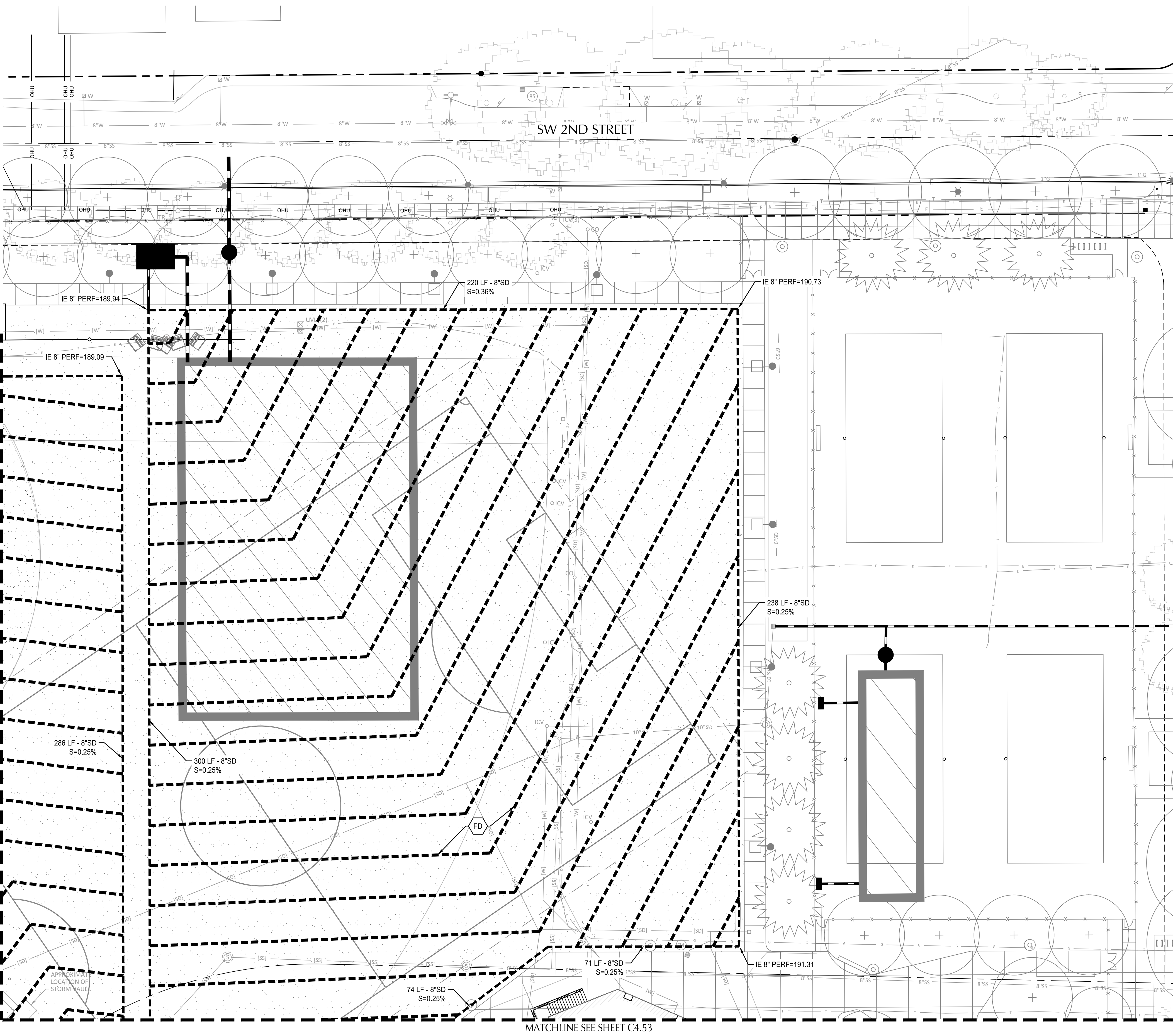


revisions	

phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016

SPORTS FIELD DRAINAGE

C4.51



SHEET NOTES

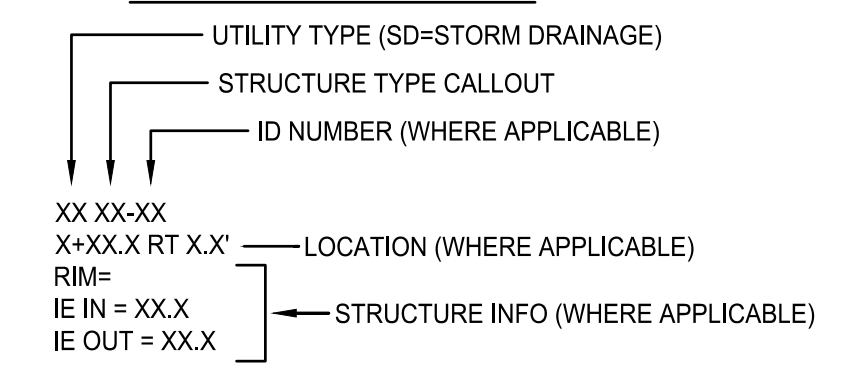
- PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER DETAIL 300/C505.

KEY NOTES

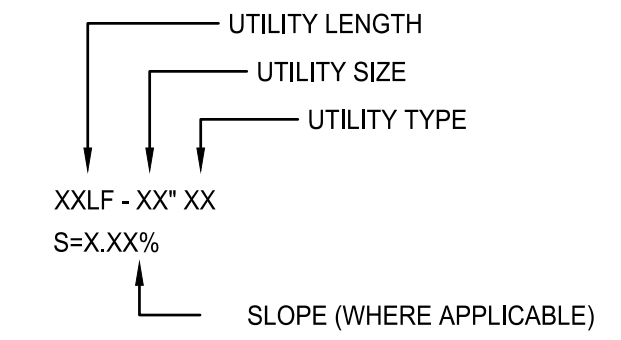
NOTE	DESCRIPTION	DETAIL REF.
FD	FIELD DRAINAGE	

UTILITY LABEL LEGEND

STRUCTURE LABEL



PIPE LABEL



STRUCTURE TYPE

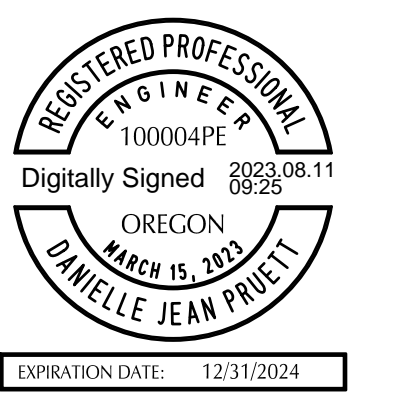
CALLOUT	SYMBOL	DESCRIPTION	DETAIL REF.
CO	●	CLEANOUT TO GRADE	
FCMH	●	FLOW CONTROL MANHOLE	
SD	—	STORM DRAIN LINE	
SD	- - -	PERFORATED STORM PIPE	C5.24
WQCB	■	WATER QUALITY CATCH BASIN	
WQV	■	WATER QUALITY VAULT	

BEAVERTON HIGH SCHOOL REBUILD

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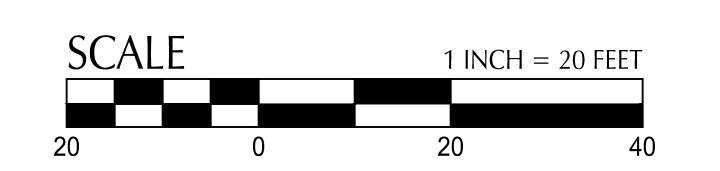
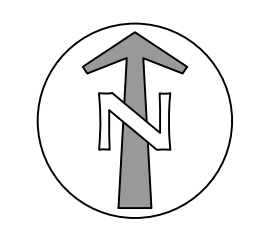


revisions	

phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016

SPORTS FIELD DRAINAGE

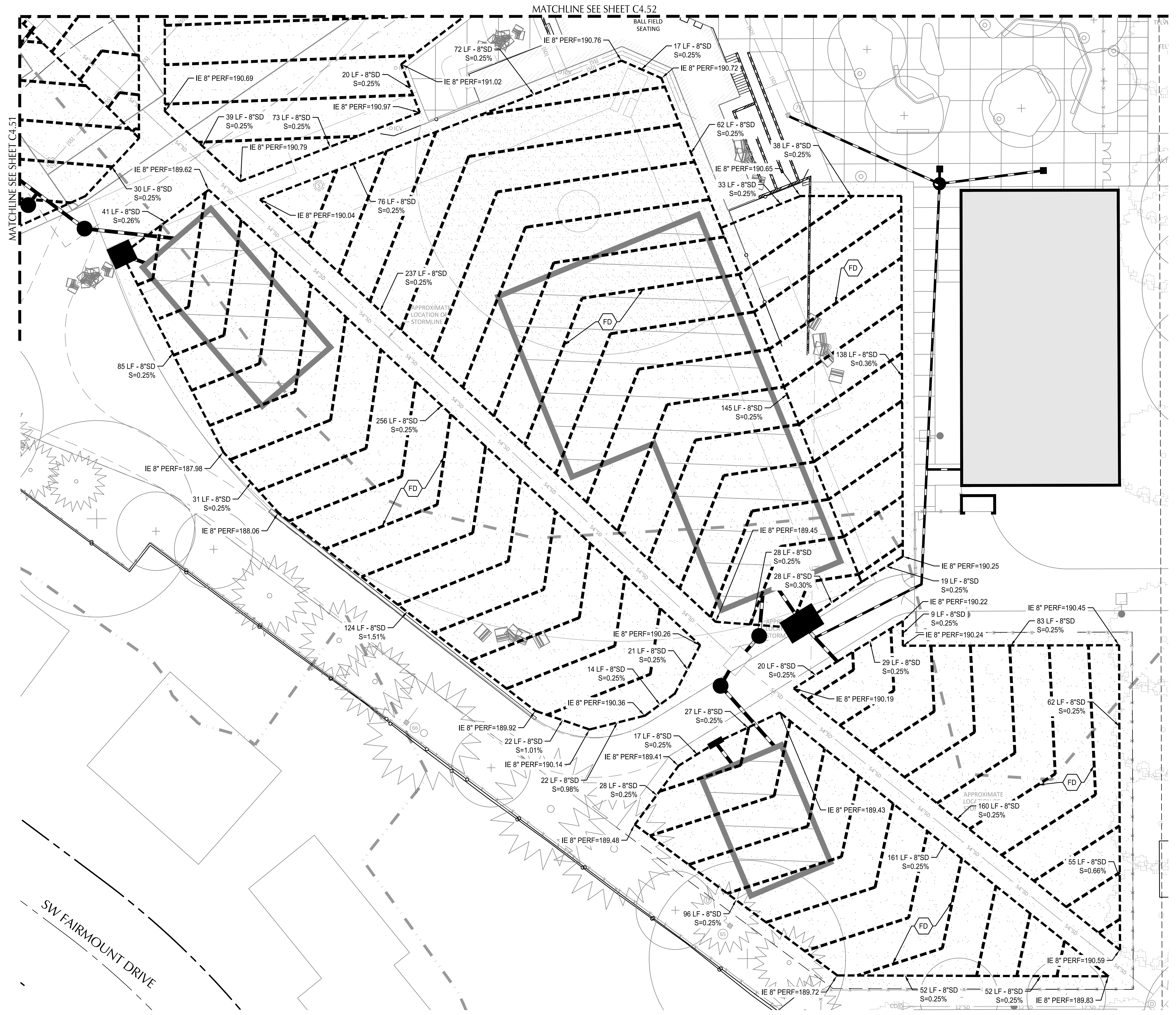
C4.52



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Plotted: 8/9/23 at 3:46pm By: dneadecker

MATCHLINE SEE SHEET C4.51

MATCHLINE SEE SHEET C4.53



SHEET NOTES

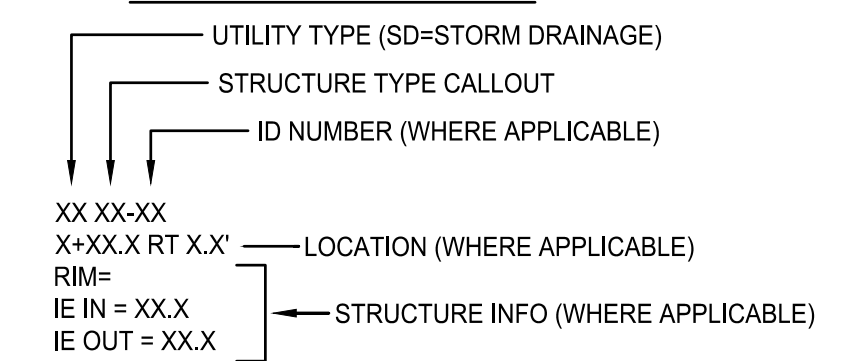
- PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER DETAIL 300/C505.

KEY NOTES

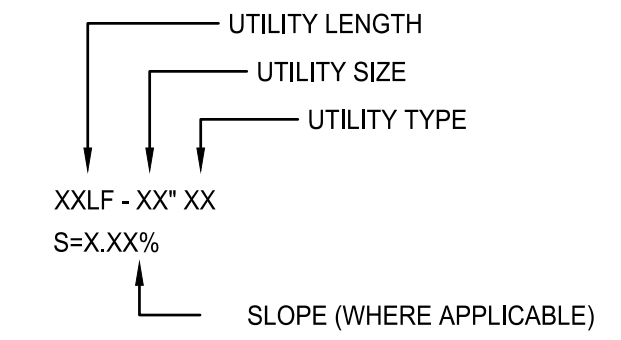
NOTE	DESCRIPTION	DETAIL REF.
FD	FIELD DRAINAGE	

UTILITY LABEL LEGEND

STRUCTURE LABEL



PIPE LABEL



STRUCTURE TYPE

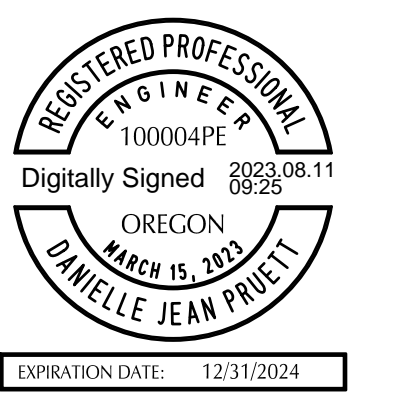
CALLOUT	SYMBOL	DESCRIPTION	DETAIL REF.
CO	●	CLEANOUT TO GRADE	
FCMH	●	FLOW CONTROL MANHOLE	
SD	—	STORM DRAIN LINE	
SD	- - -	PERFORATED STORM PIPE	C5.24
WQCB	■	WATER QUALITY CATCH BASIN	
WQV	■	WATER QUALITY VAULT	

BEAVERTON HIGH SCHOOL REBUILD

13000 SW 2ND STREET
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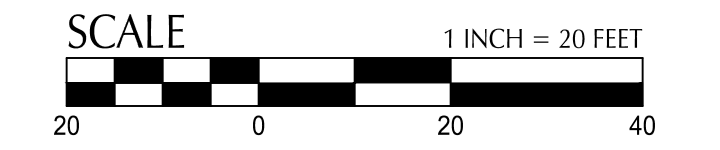
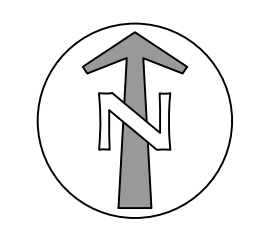


revisions	

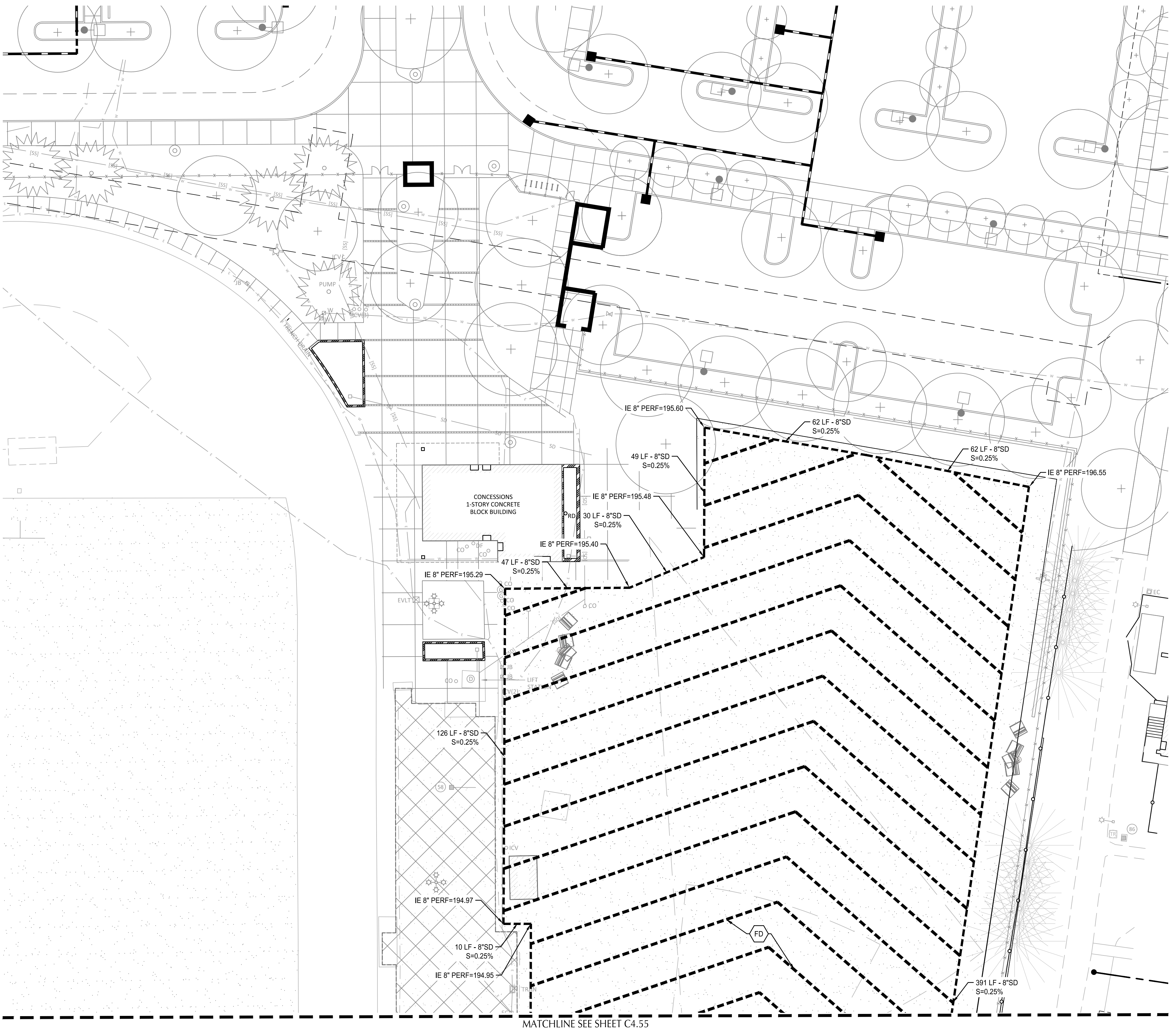
phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016

SPORTS FIELD DRAINAGE

C4.53



File: N:\c\2023\12\100178-hs-beaverton-hs\CAD\PL02\100178-C4.5-SPRT-DRNG.dwg TAB:C4.53
Plotter: 9/9/23 at 3:46pm By: dneadecker



SHEET NOTES

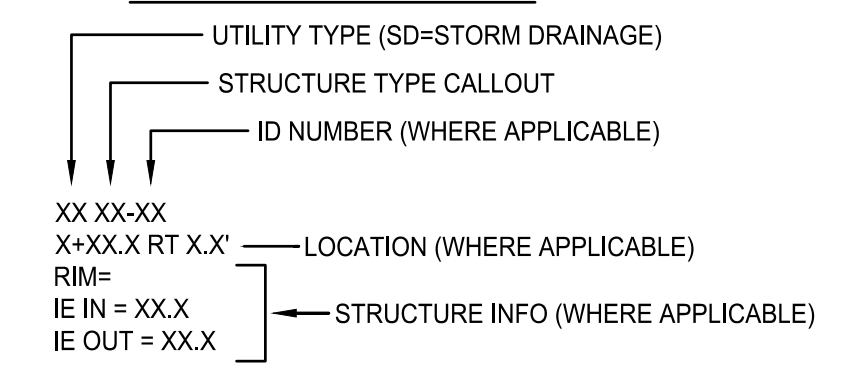
- PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER DETAIL 300/C505.

KEY NOTES

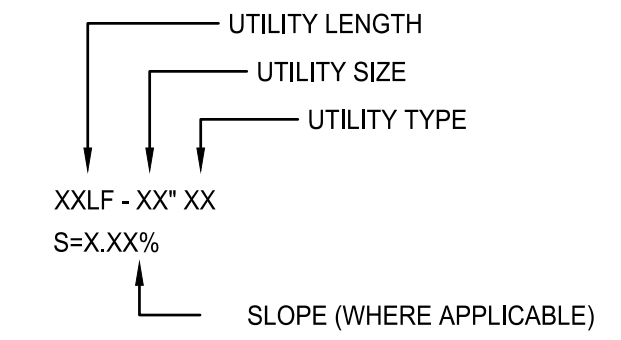
NOTE	DESCRIPTION	DETAIL REF.
FD	FIELD DRAINAGE	

UTILITY LABEL LEGEND

STRUCTURE LABEL



PIPE LABEL



STRUCTURE TYPE

CALLOUT	SYMBOL	DESCRIPTION	DETAIL REF.
CO	●	CLEANOUT TO GRADE	
FCMH	●	FLOW CONTROL MANHOLE	
SD	—	STORM DRAIN LINE	
SD	- - -	PERFORATED STORM PIPE	C5.24
WQCB	■	WATER QUALITY CATCH BASIN	
WQV	■	WATER QUALITY VAULT	

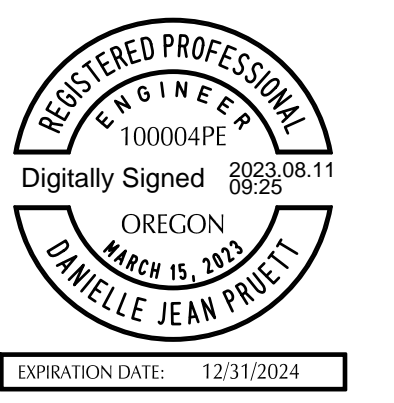


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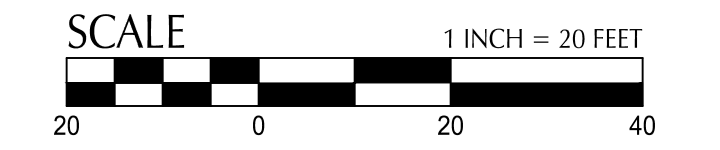
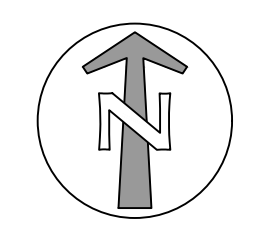


revisions	

phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016

SPORTS FIELD DRAINAGE

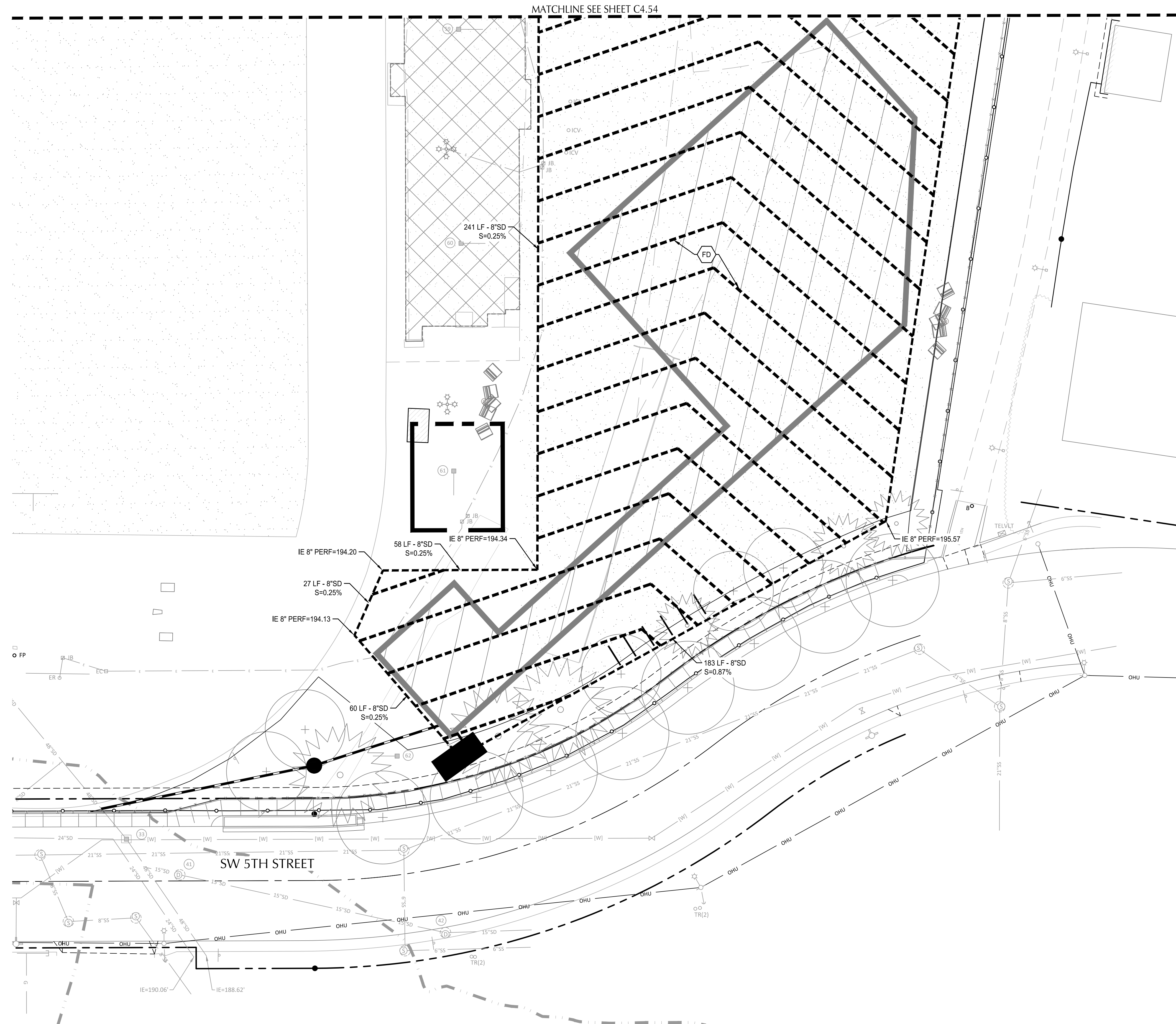
C4.54



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 Plotted: 8/9/23 at 3:46pm By: dneidecker

MATCHLINE SEE SHEET C4.55

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 Plotted: 8/9/23 at 3:46pm By: dneadecker



SHEET NOTES

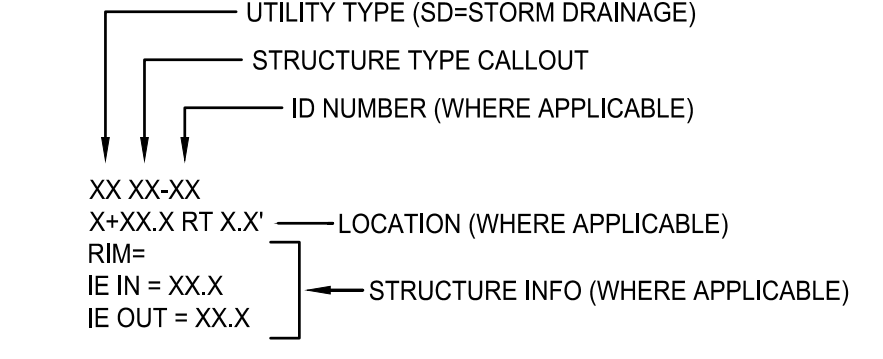
- PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER DETAIL 300/C505.

KEY NOTES

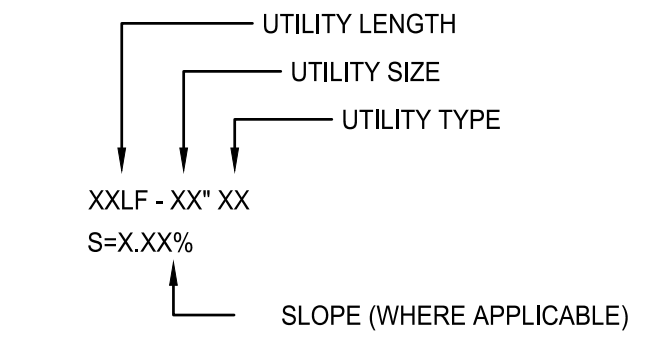
NOTE	DESCRIPTION	DETAIL REF.
FD	FIELD DRAINAGE	

UTILITY LABEL LEGEND

STRUCTURE LABEL



PIPE LABEL



STRUCTURE TYPE

CALLOUT	SYMBOL	DESCRIPTION	DETAIL REF.
CO	●	CLEANOUT TO GRADE	
FCMH	●	FLOW CONTROL MANHOLE	
SD	—	STORM DRAIN LINE	
SD	- - -	PERFORATED STORM PIPE	C5.24
WQCB	■	WATER QUALITY CATCH BASIN	
WQV	■	WATER QUALITY VAULT	



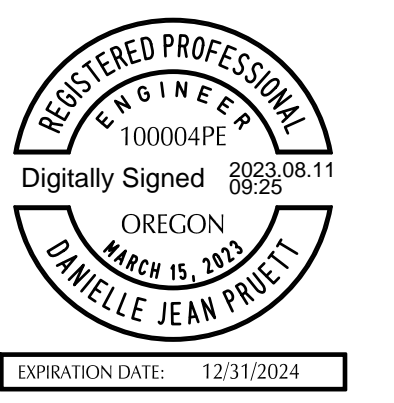
111 SW Fifth Ave., Suite 2600
 Portland, OR 97204
 O: 503.542.3869 F: 503.274.4681
www.kpff.com

BEAVERTON HIGH SCHOOL REBUILD

13000 SW 2ND STREET
 BEAVERTON, OREGON 97005

BEAVERTON SCHOOL DISTRICT

T 503-356-4500

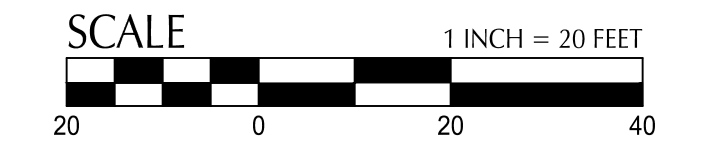
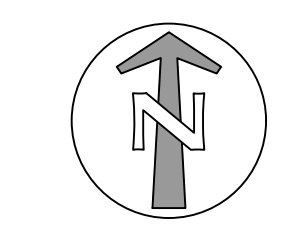


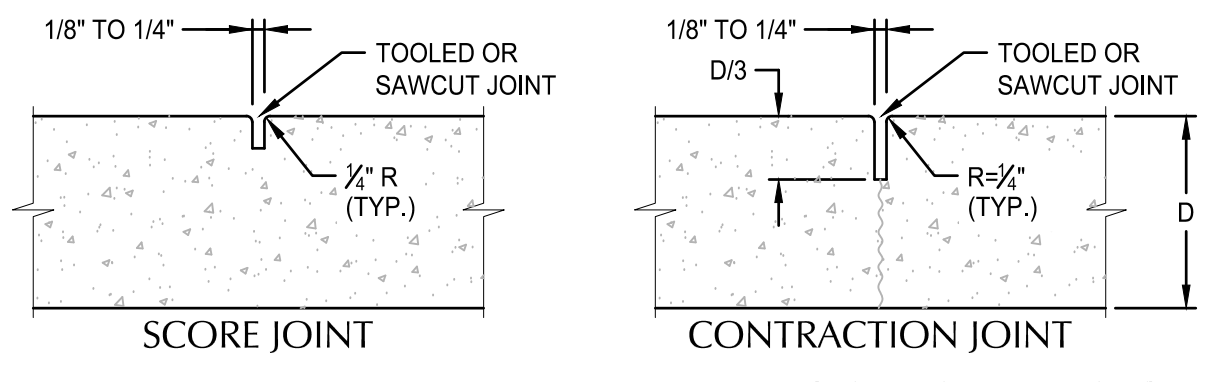
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phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016

SPORTS FIELD DRAINAGE

C4.55

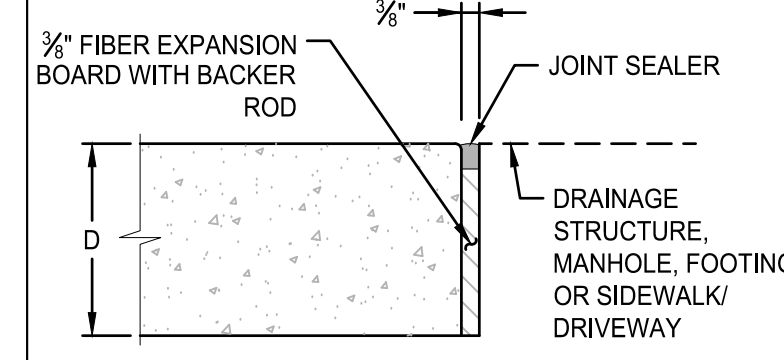




JOINT INTERVALS TABLE

TYPE	SPACING	OR AT...
SCORE	5' TYP.	LOCATIONS SHOWN ON PLANS
CONTRACTION	15' MAX.	END OF RAMPS AND DRIVEWAYS
EXPANSION/ISOLATION	200'	POINTS OF TANGENCY AND AT ENDS OF EACH DRIVEWAY OR OTHER FIXED OBJECTS

* MONOLITHIC CURB AND SIDEWALK SHALL BE 45' MAX.

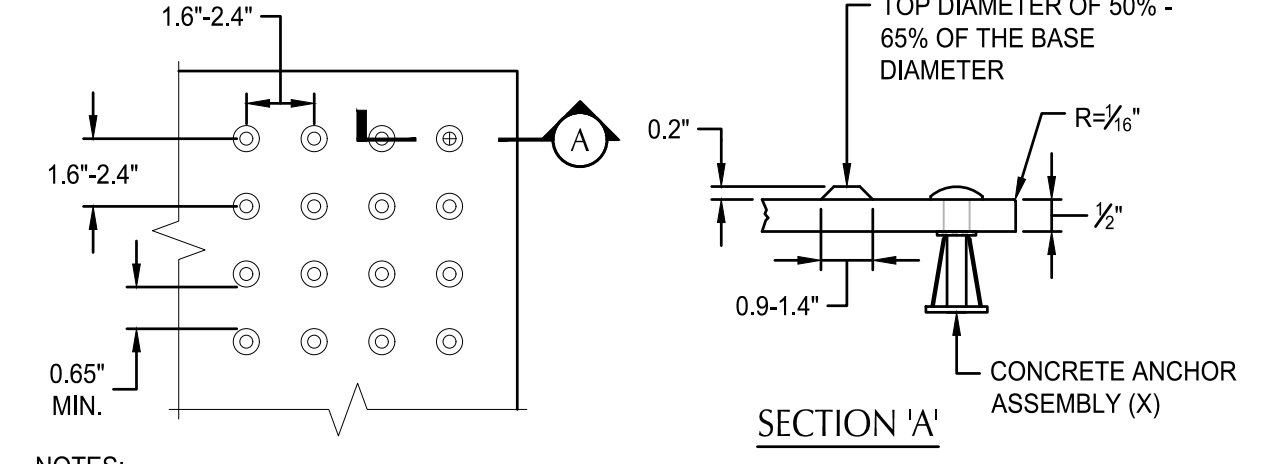


EXPANSION / ISOLATION JOINT

- NOTES:**
- CONTRACTION JOINTS MAY BE USED IN PLACE OF SCORE JOINTS.
 - CONSTRUCTION COLD JOINTS MAY BE USED IN PLACE OF CONTRACTION JOINTS.
 - PROVIDE MEDIUM BROOM FINISH WITH NO TOOL MARKS.

7 SIDEWALK JOINTS

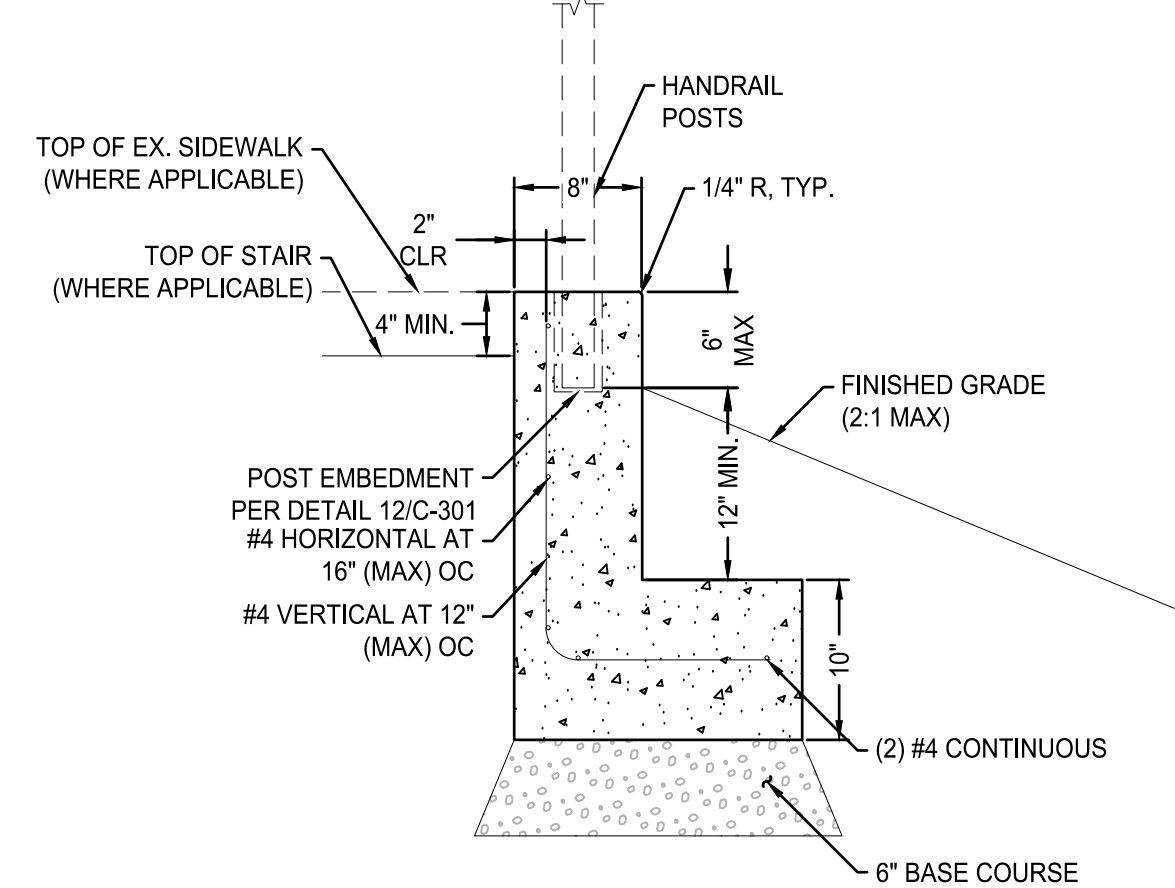
SCALE: NTS



- NOTES:**
- DETECTABLE WARNINGS SHALL BE INSTALLED AS SHOWN IN PLANS AND DETAILS AND TO THE FULL WIDTH OF CURB RAMP OR FLUSH SURFACE. THE DETECTABLE WARNING SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE OR OTHER POTENTIAL HAZARD IS 6 TO 8 INCHES FROM THE CURB LINE OR OTHER POTENTIAL HAZARD.
 - DETECTABLE WARNING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
 - MANUFACTURER OF DETECTABLE WARNING: ARMORCAST CAST IN PLACE DETECTABLE WARNING PANELS
PH: (818) 982-3600 - ARMORCASTPROD.COM
COLOR: SAFETY YELLOW OR APPROVED EQUAL

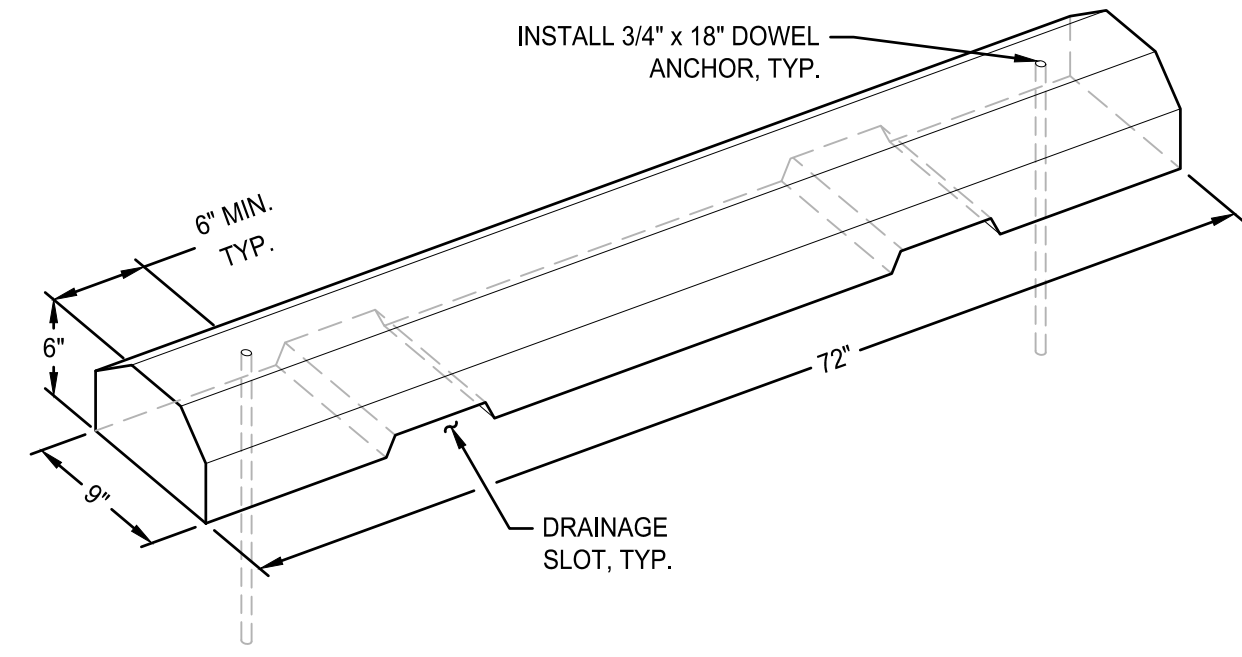
8 DETECTABLE WARNING

SCALE: NTS



9 CONCRETE WALL/CHEEK WALL

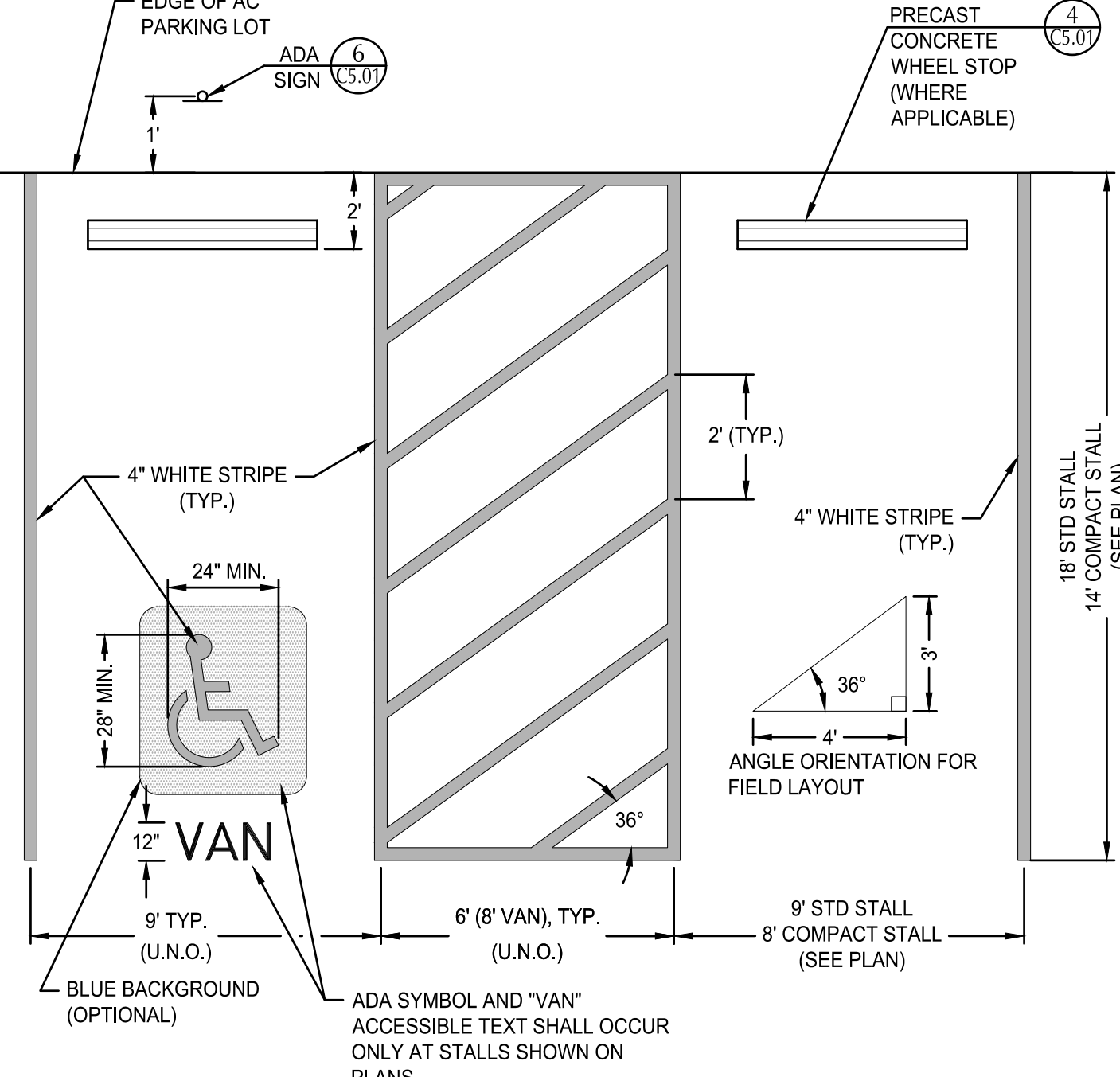
SCALE: NTS



- NOTES:**
- DIMENSIONS ARE NOMINAL AND MAY VARY TO CONFORM TO MANUFACTURER'S PRODUCTS APPROVED BY ENGINEER.

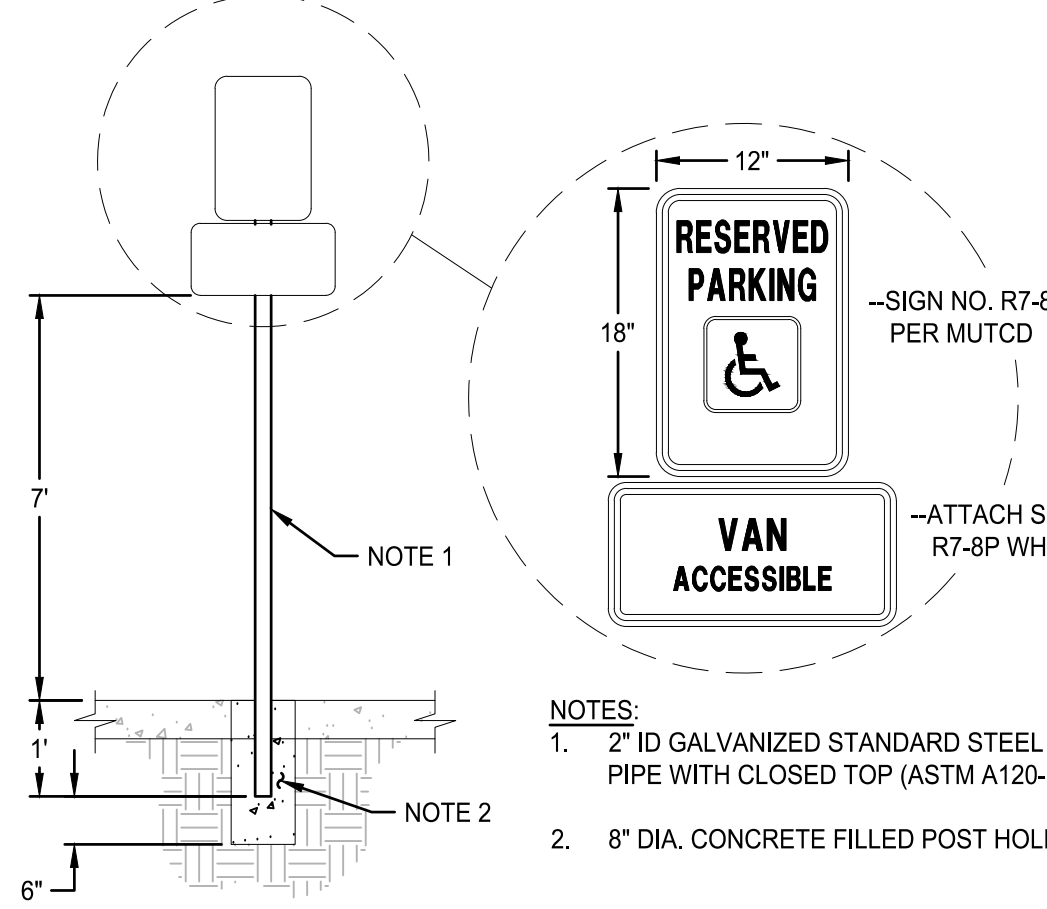
4 PRECAST CONCRETE WHEEL STOP

SCALE: NTS



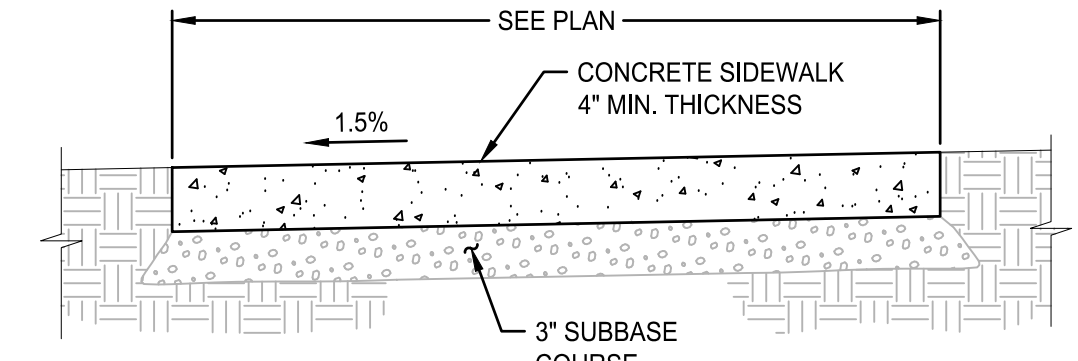
5 TYPICAL PARKING LAYOUT

SCALE: NTS



6 ADA PARKING SIGN - TYPE 1

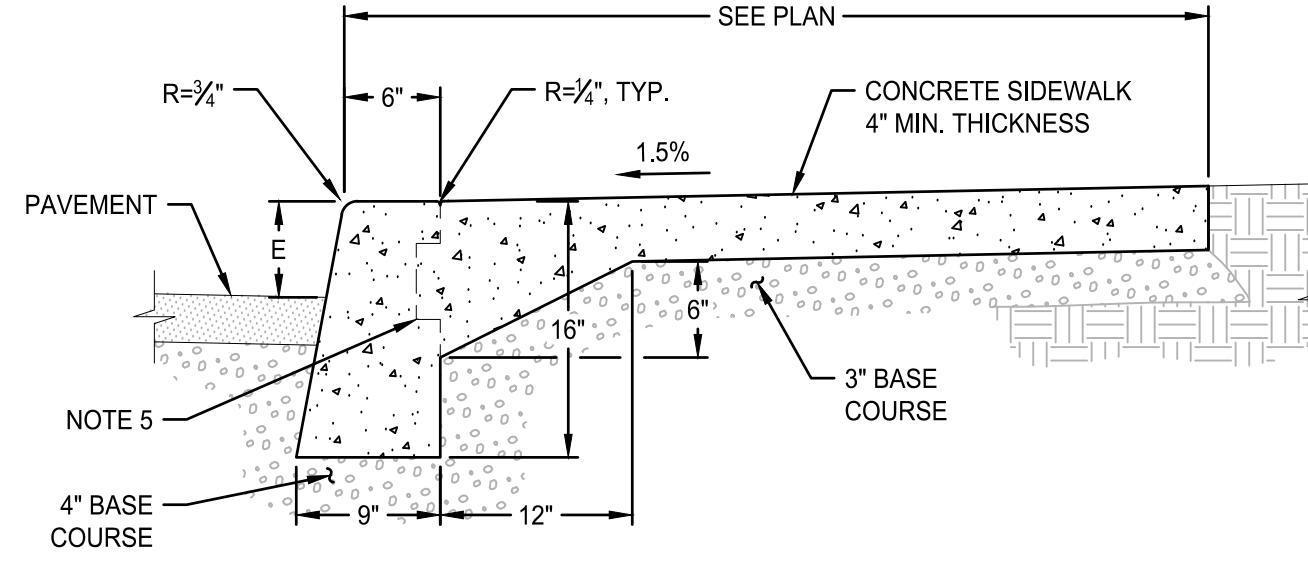
SCALE: NTS



- NOTES:**
- CONSTRUCT CONTRACTION JOINTS AT 15' MAX. SPACING AND AT RAMPS. CONSTRUCT EXPANSION JOINTS AT 200' MAX SPACING, AT POINTS OF TANGENCY AND AT ENDS OF EACH DRIVEWAY, UNLESS NOTED OTHERWISE.

3A CONCRETE SIDEWALK

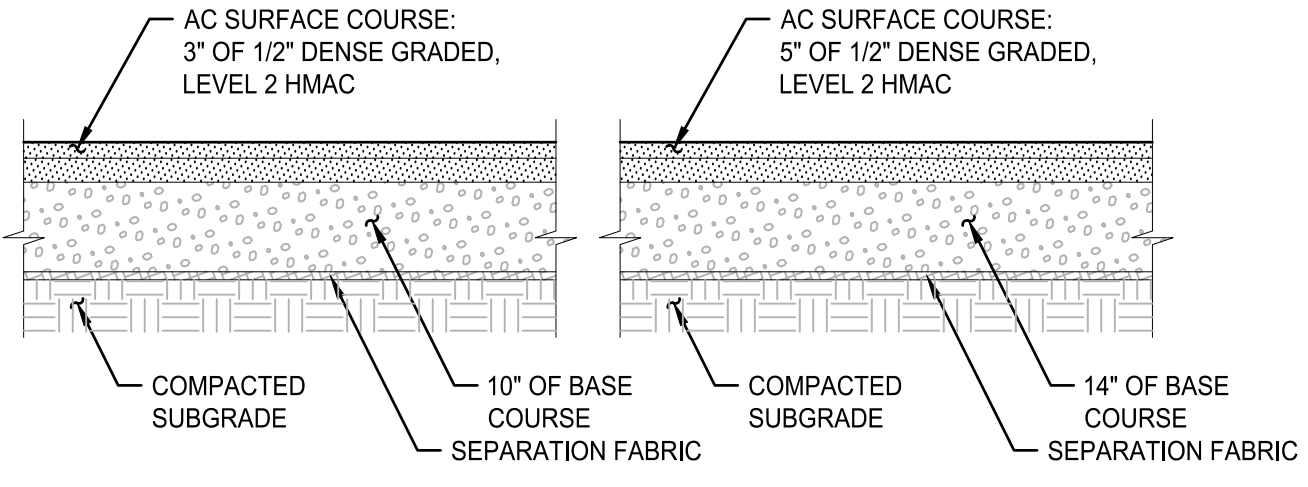
SCALE: NTS



- NOTES:**
- CURB EXPOSURE 'E' = 6", TYP. VARY AS SHOWN ON PLANS OR AS DIRECTED.
 - CONSTRUCT JOINTS PER TYP. SIDEWALK JOINTS DETAIL ON THIS SHEET.
 - TOPS OF ALL CURBS SHALL SLOPE TOWARD THE ROADWAY AT 2% UNLESS OTHERWISE SHOWN OR AS DIRECTED.
 - DIMENSIONS ARE NOMINAL AND MAY VARY TO CONFORM WITH CURB MACHINE AS APPROVED BY THE ENGINEER.
 - IF NEEDED, CURB AND SIDEWALK CAN BE CONSTRUCTED SEPARATELY USING INSTALL TAPERED 2"x4" KEYWAY FORMED IN CURB AS SHOWN.

3B CURB & SIDEWALK - MONOLITHIC

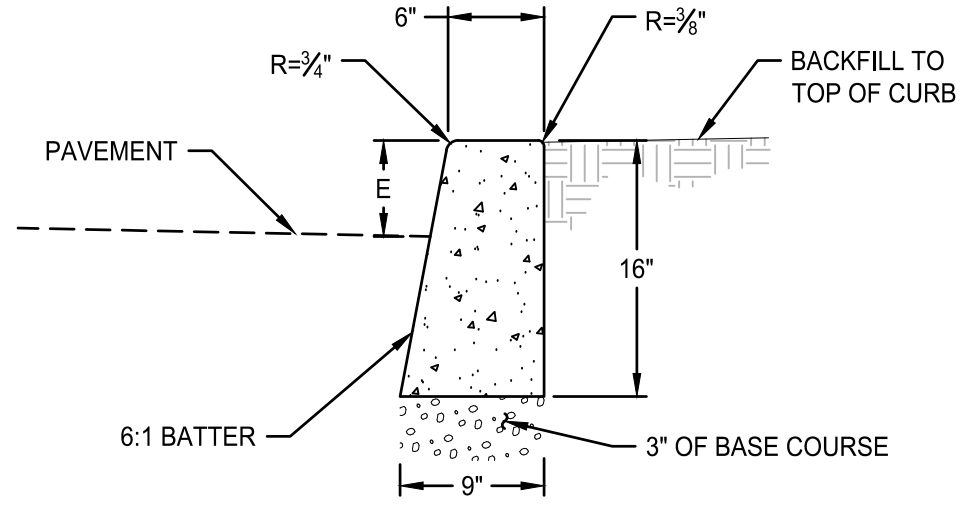
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STANDARD SECTION HEAVY SECTION

1A ASPHALT PAVEMENT SECTION

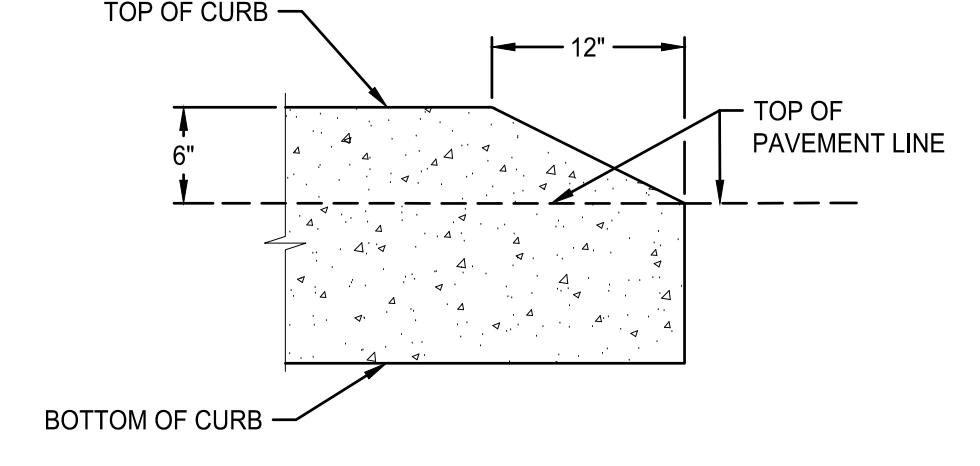
SCALE: NTS



- NOTES:**
- CURB EXPOSURE 'E' = 6", TYP. VARY AS SHOWN ON PLANS OR AS DIRECTED.
 - CONSTRUCT CONTRACTION JOINTS AT 15' MAX. SPACING AND AT RAMPS. CONSTRUCT EXPANSION JOINTS AT 200' MAX SPACING AT POINTS OF TANGENCY AND AT ENDS OF EACH DRIVEWAY.
 - TOPS OF ALL CURBS SHALL SLOPE TOWARD THE ROADWAY AT 2% UNLESS OTHERWISE SHOWN OR AS DIRECTED.
 - DIMENSIONS ARE NOMINAL AND MAY VARY TO CONFORM WITH CURB MACHINE AS APPROVED BY THE ENGINEER.

2A CONCRETE CURB - STANDARD

SCALE: NTS



2B CONCRETE CURB - ENDING

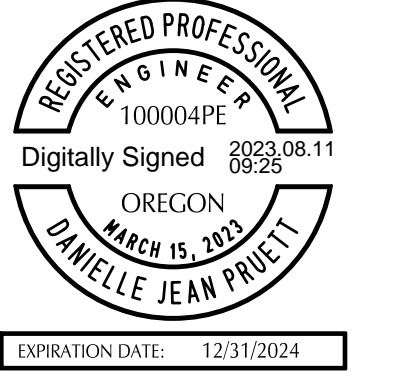
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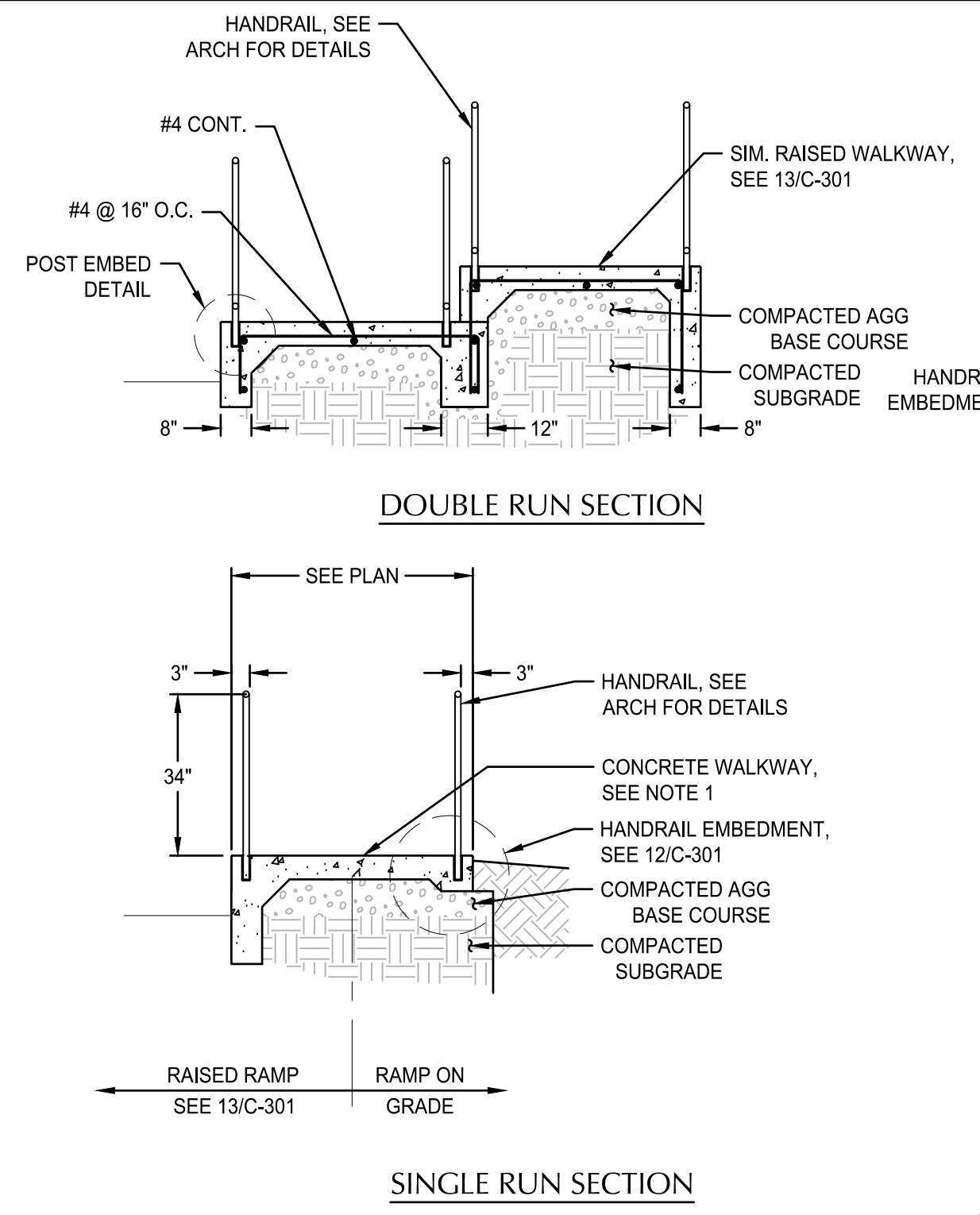


revisions	

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DETAILS

C5.01



NOTE:
1. STEEL PIPE HANDRAIL - SEE ARCH PLANS

11 CONCRETE STAIR

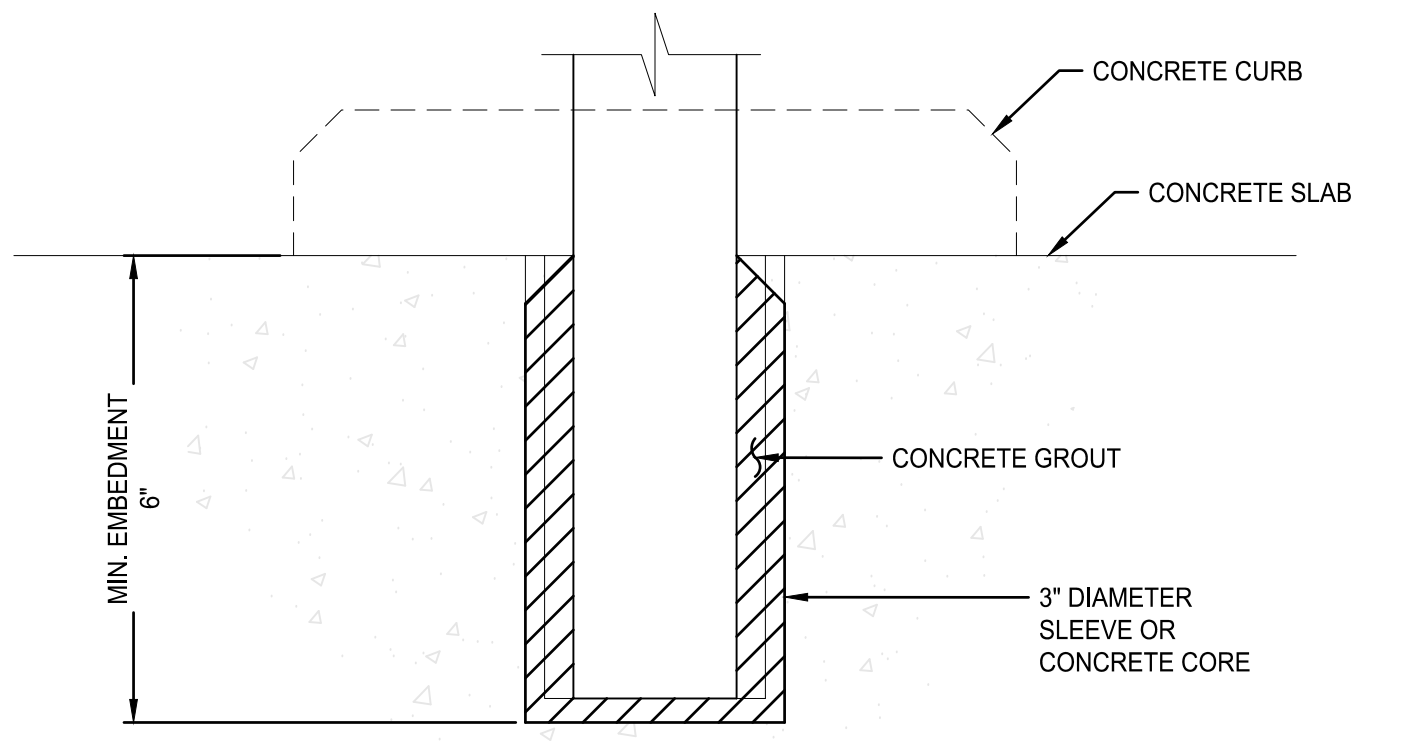
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NOTES:
1. CONSTRUCT JOINT SPACING PER SIDEWALK JOINT DETAIL.

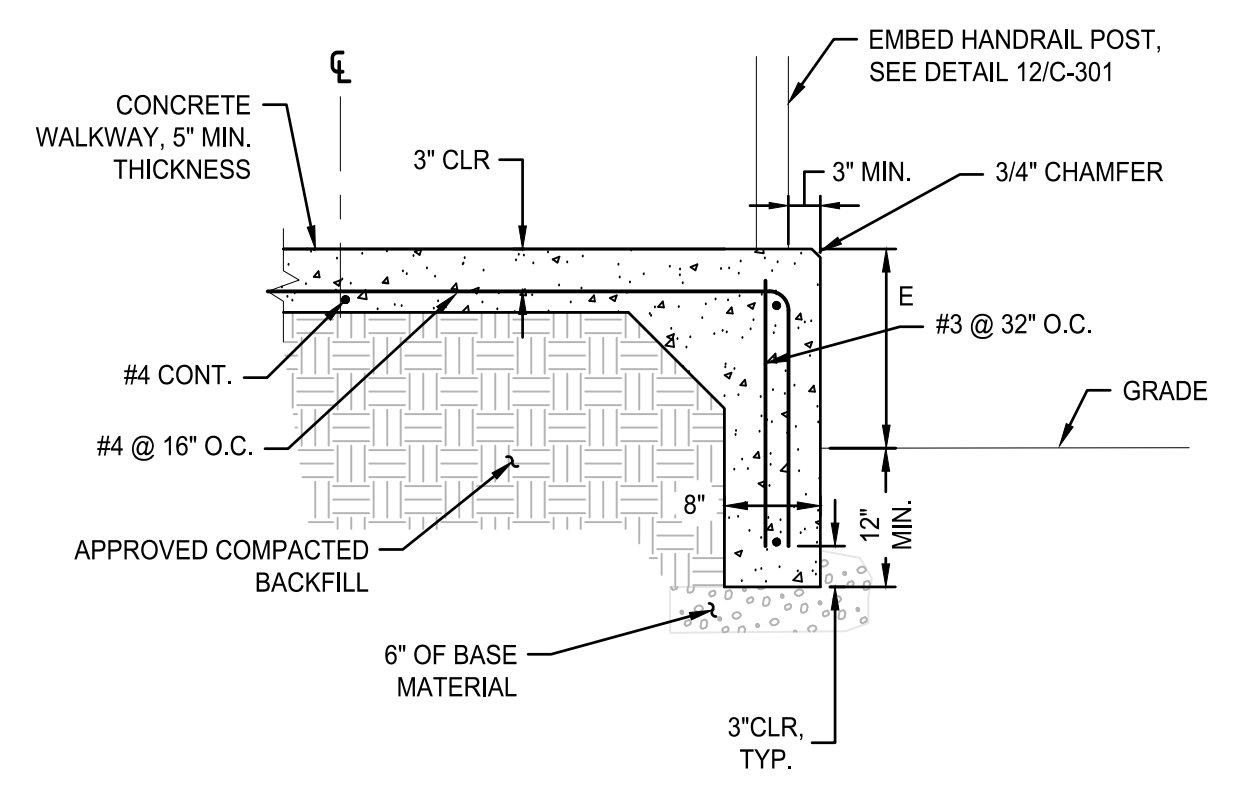
14 RAMP WITH HANDRAILS

SCALE: NTS



12 HANDRAIL EMBEDMENT

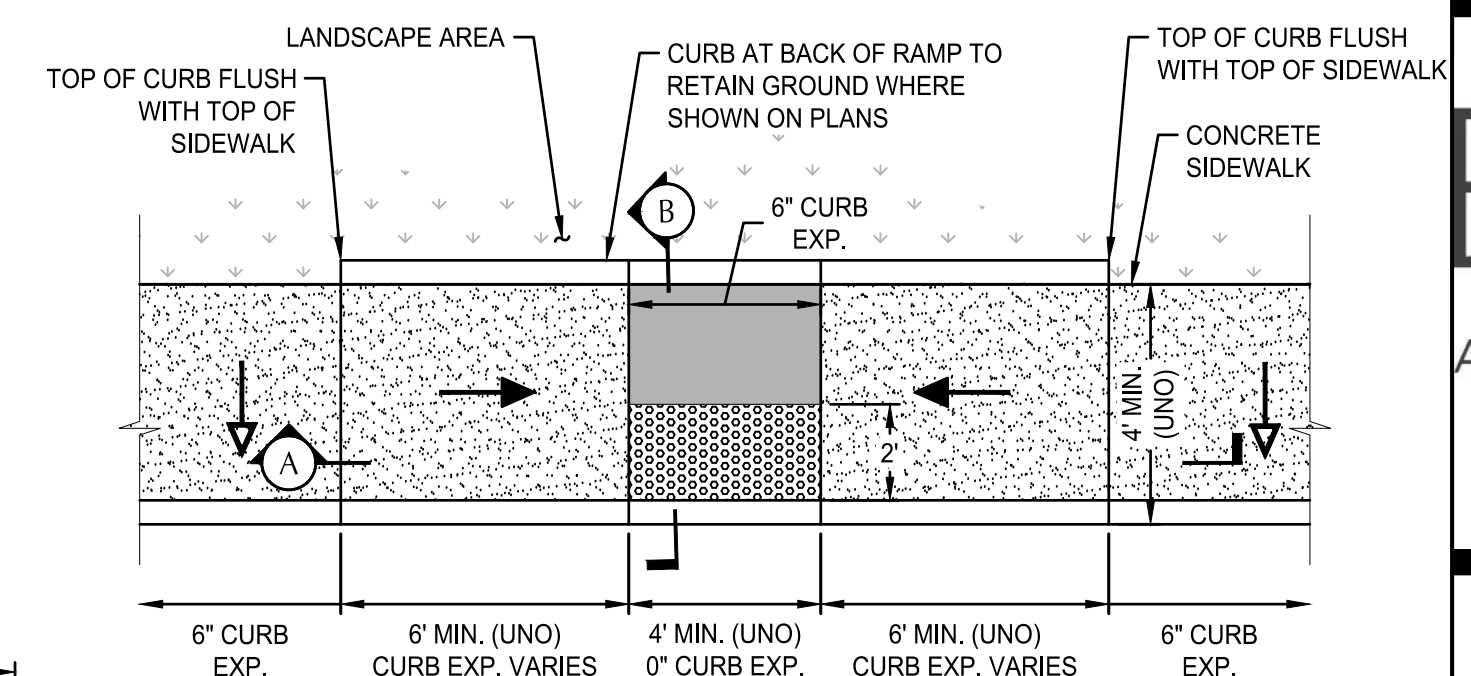
SCALE: NTS



NOTES:
1. WALL EXPOSURE 'E' = 0" TO 30". VARIES, SEE PLAN.
2. CONSTRUCT JOINT SPACING PER SIDEWALK JOINT DETAIL.

13 RAISED CONCRETE WALKWAY

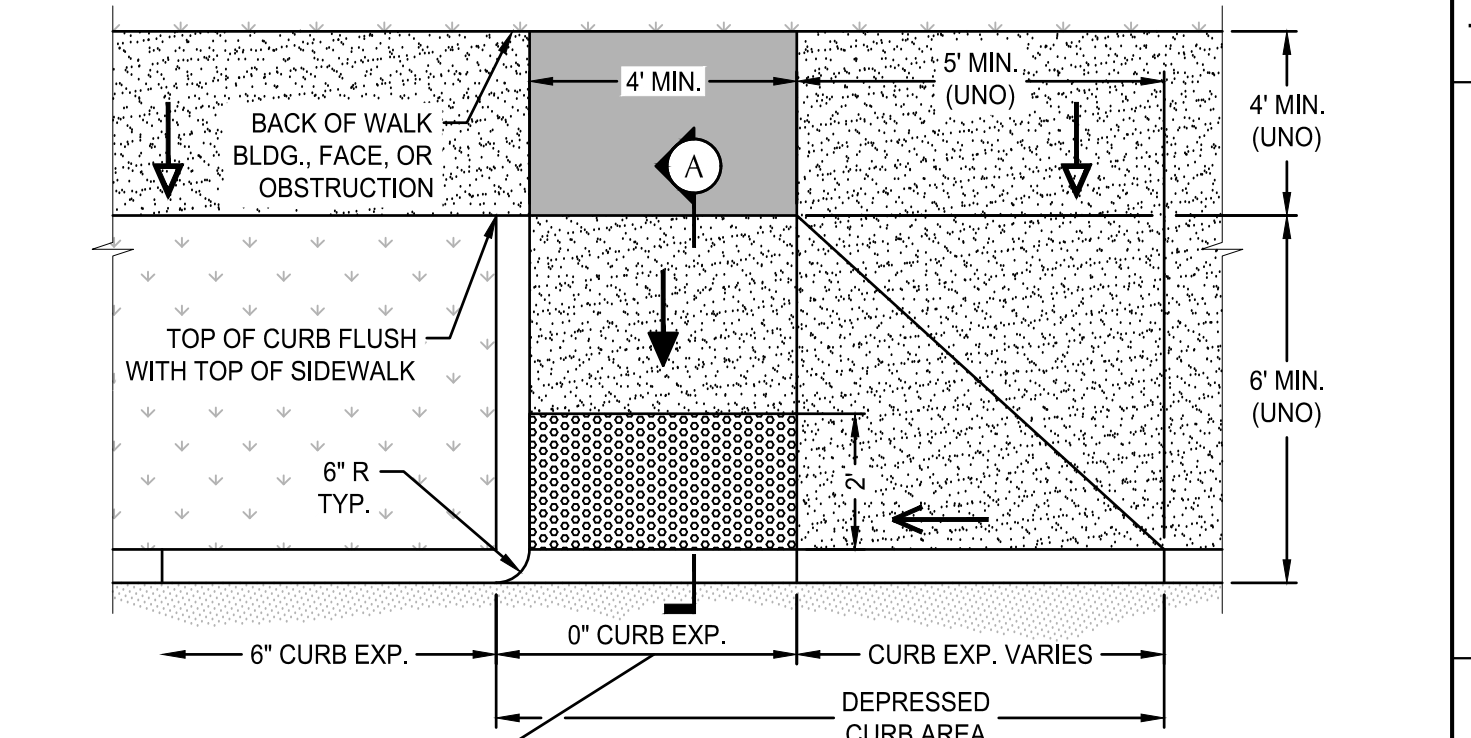
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NOTES:
1. REFER TO DETAIL X/CX.X FOR RAMP NOTES & LEGEND

10B CURB RAMP - TYPE 5

SCALE: NTS



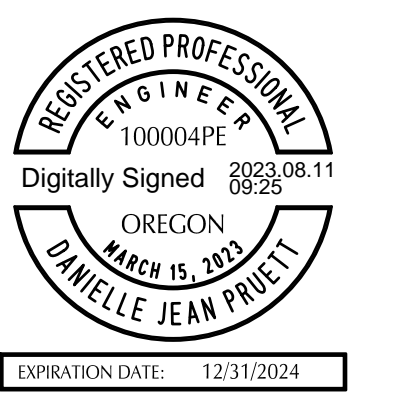
NOTES:
1. SEE PLAN FOR PROJECT SPECIFIC DIMENSIONS.
2. MAXIMUM GRADE BREAK FROM RAMP TO PAVEMENT SHALL BE 11% MAXIMUM. MAXIMUM COUNTERSLOPE OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE CURB RAMP SHALL NOT BE STEEPER THAN 5.0%.
3. WHERE THE LANDING SPACE IS CONSTRAINED AT THE BACK OF WALK, THE MIN. LEVEL AREA SHALL BE 4.0' X 5.0'. THE 5.0' DIMENSION SHALL BE PROVIDED IN THE DIRECTION OF THE RAMP RUN.
4. GRADE BREAKS AT THE TOP AND BOTTOM OF CURB RAMP RUNS SHALL BE PERPENDICULAR TO THE DIRECTION OF THE RAMP RUN.

LEGEND:
 ← RAMP SLOPE: 7.5% MAX. SLOPE (8.3% MAX. FINISHED SURFACE)
 ← CROSS SLOPE: 1.5% MAX. SLOPE (2.0% MAX. FINISHED SURFACE)
 ← RAMP WING: 9.5% MAX. SLOPE (10.0% MAX. FINISHED SURFACE)
 █ LANDING SPACE: MIN. LEVEL AREA 4.0' X 4.0', A 2.0% MAX. FINISHED SURFACE IN ANY DIRECTION IS CONSIDERED LEVEL, SEE NOTE 3
 █ SIDEWALK: 4.5% MAX. RUNNING SLOPE (5.0% MAX. FINISHED SURFACE), 1.5% MAX. CROSS SLOPE (2.0% MAX. FINISHED SURFACE)
 █ DETECTABLE WARNING SURFACE, SEE 8/C5.01
 █ LANDSCAPING

10A CURB RAMP - TYPE 1

SCALE: NTS

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Plotter: 9/9/23 at 3:47 pm By: dmsdecor



revisions	

phase	LAND USE RESUBMITTAL SET
date project	08/11/2023 21016

DETAILS
C5.02

(5) SMALL PLATES

MODULE DATA

GEOMETRY: LENGTH = 28.15 IN. (715 MM)
 WIDTH = 15.75 IN. (400 MM)
 HEIGHT = 33.86 IN. (860 MM)
 TANK VOLUME = 8.69 CF
 STORAGE VOLUME = 8.25 CF
 VOID INTERNAL VOLUME: 95%
 VOID SURFACE AREA: 90%

LOAD RATING: 33.4 PSI. (MODULE ONLY)
 HS20/HS25 - SEE SPEC FOR COVER REQUIREMENTS

MATERIAL: 100% RECYCLED POLYPROPYLENE

SMALL PLATES REQUIRED: 5/SEGMENT, 10/MODULE

NOT TO SCALE 05/16/2022

FERGUSON WATERWORKS

FOR ADDITIONAL INFORMATION PLEASE CONTACT:
 FERGUSON WATERWORKS, 1-800-448-3636, www.ferguson.com

R-TANK^{HD} DOUBLE MODULE

(5) SMALL PLATES

MODULE DATA

GEOMETRY: LENGTH = 28.15 IN. (715 MM)
 WIDTH = 15.75 IN. (400 MM)
 HEIGHT = 42.52 IN. (1080 MM)
 TANK VOLUME = 10.91 CF
 STORAGE VOLUME = 10.36 CF
 VOID INTERNAL VOLUME: 95%
 VOID SURFACE AREA: 90%

LOAD RATING: 33.4 PSI. (MODULE ONLY)
 HS20/HS25 - SEE SPEC FOR COVER REQUIREMENTS

MATERIAL: 100% RECYCLED POLYPROPYLENE

SMALL PLATES REQUIRED: 5/SEGMENT, 15/MODULE

NOT TO SCALE 05/16/2022

FERGUSON WATERWORKS

FOR ADDITIONAL INFORMATION PLEASE CONTACT:
 FERGUSON WATERWORKS, 1-800-448-3636, www.ferguson.com

R-TANK^{HD} DOUBLE+MINI MODULE

NOTES:

- For use along medians, gutters may be reduced when preapproved by City Engineer.
- Concrete to have compressive strength of 4,000 psi at 28 days.
- Expansion joints to be provided at each:
 - Point of tangency.
 - Cold joint.
 - Side of inlet structures.
 - Side of driveways.
- Expansion joint material to be pre-molded, asphalt impregnated, non-extruding, with a thickness of 1/2 inch.
- Contraction joints shall have:
 - Spacing of not more than 15 feet.
 - Depth of joint of at least 1/2 inches.
- Base rock 1 1/2\"-0 or 3/4\"-0, 95% (AASHTO T-180) compaction. Base rock shall be to subgrade of street structure or 7.5 inches, whichever is greater, and shall extend 12 inches behind the curb.
- Drainage weep hole shall be:
 - 3-inch diameter I.D. plastic pipe with coupling and beveled outlet end to match face of curb.
 - Centered with contraction joints.
 - Core-drilled through existing curbs for drainage access.
- Proof roll subgrade and base rock section prior to placement of curb.

Beaverton ENGINEERING	STANDARD MONOLITHIC CURB AND GUTTER	SCALE: NONE	205
		DATE: JUNE 2018	

(5) SMALL PLATES

MODULE DATA

GEOMETRY: LENGTH = 28.15 IN. (715 MM)
 WIDTH = 15.75 IN. (400 MM)
 HEIGHT = 17.32 IN. (440 MM)
 TANK VOLUME = 4.44 CF
 STORAGE VOLUME = 4.22 CF
 VOID INTERNAL VOLUME: 95%
 VOID SURFACE AREA: 90%

LOAD RATING: 33.4 PSI. (MODULE ONLY)
 HS20/HS25 - SEE SPEC FOR COVER REQUIREMENTS

MATERIAL: 100% RECYCLED POLYPROPYLENE

SMALL PLATES REQUIRED: 5/SEGMENT, 5/MODULE

NOT TO SCALE 05/16/2022

FERGUSON WATERWORKS

FOR ADDITIONAL INFORMATION PLEASE CONTACT:
 FERGUSON WATERWORKS, 1-800-448-3636, www.ferguson.com

R-TANK^{HD} SINGLE MODULE

NOTES:

- Mountable curb and gutter **REQUIRES PREAPPROVAL** by the City Engineer. This curb design is limited to use in cul-de-sacs and other special circumstances specifically approved.
- Weepholes for downspout drain pipes are not allowed with this curb type, but weepholes for vault drain pipes are allowed. See *Beaverton Standard Dwg 202*. Vault drain pipe shall be 3\" I.D. plastic pipe with coupling.
- Concrete to have compressive strength of 4,000 psi at 28 days.
- Expansion joints to be provided at each:
 - Point of tangency.
 - Cold joint.
 - Side of inlet structures.
 - Side of driveways.
- Expansion joint material to be pre-molded, asphalt impregnated, non-extruding, with a thickness of 1/2 inch.
- Contraction Joints shall have:
 - Spacing of not more than 15 feet.
 - Depth of joint of at least 1/2 inches.
- Base Rock 1 1/2\"-0 or 3/4\"-0, 95% (AASHTO T-180) compaction. Base rock shall be to subgrade of street structure or 7.5 inches, whichever is greater, and shall extend 12 inches behind the curb.

Beaverton ENGINEERING	MOUNTABLE CURB AND GUTTER	SCALE: NONE	206
		DATE: JUNE 2018	

NOTES:

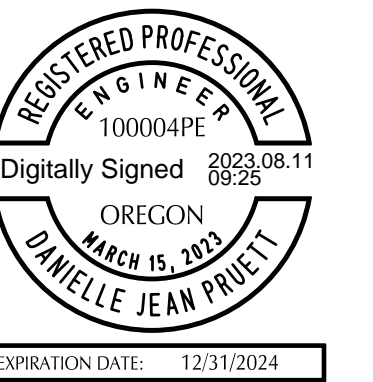
- Type 'A' curb **REQUIRES PREAPPROVAL** by the City Engineer. For use ONLY when replacing similar curb. This curb is not intended for new construction.
- Concrete to have compressive strength of 4,000 psi at 28 days.
- Expansion joints to be provided at each:
 - Point of tangency.
 - Cold joint.
 - Side of inlet structures.
 - Side of driveways.
- Expansion joint material to be pre-molded, asphalt impregnated, non-extruding, with a thickness of 1/2 inch.
- Contraction joints shall have:
 - Spacing of not more than 15 feet.
 - Depth of joint of at least 1/2 inches.
- Base rock 1 1/2\"-0 or 3/4\"-0, 95% (AASHTO T-180) compaction. Base rock shall be to subgrade of street structure or 7.5 inches, which ever is greater, and shall extend 12 inches behind the curb.
- Drainage weep hole shall be:
 - 3 inch I.D. plastic pipe with coupling and beveled outlet end to match face of curb.
 - Centered with contraction joints.

Beaverton ENGINEERING	TYPE \"A\" REPLACEMENT CURB	SCALE: NONE	208
		DATE: JUNE 2018	

BEAVERTON HIGH SCHOOL REBUILD

13000 SW 2ND STREET
 BEAVERTON, OREGON 97005

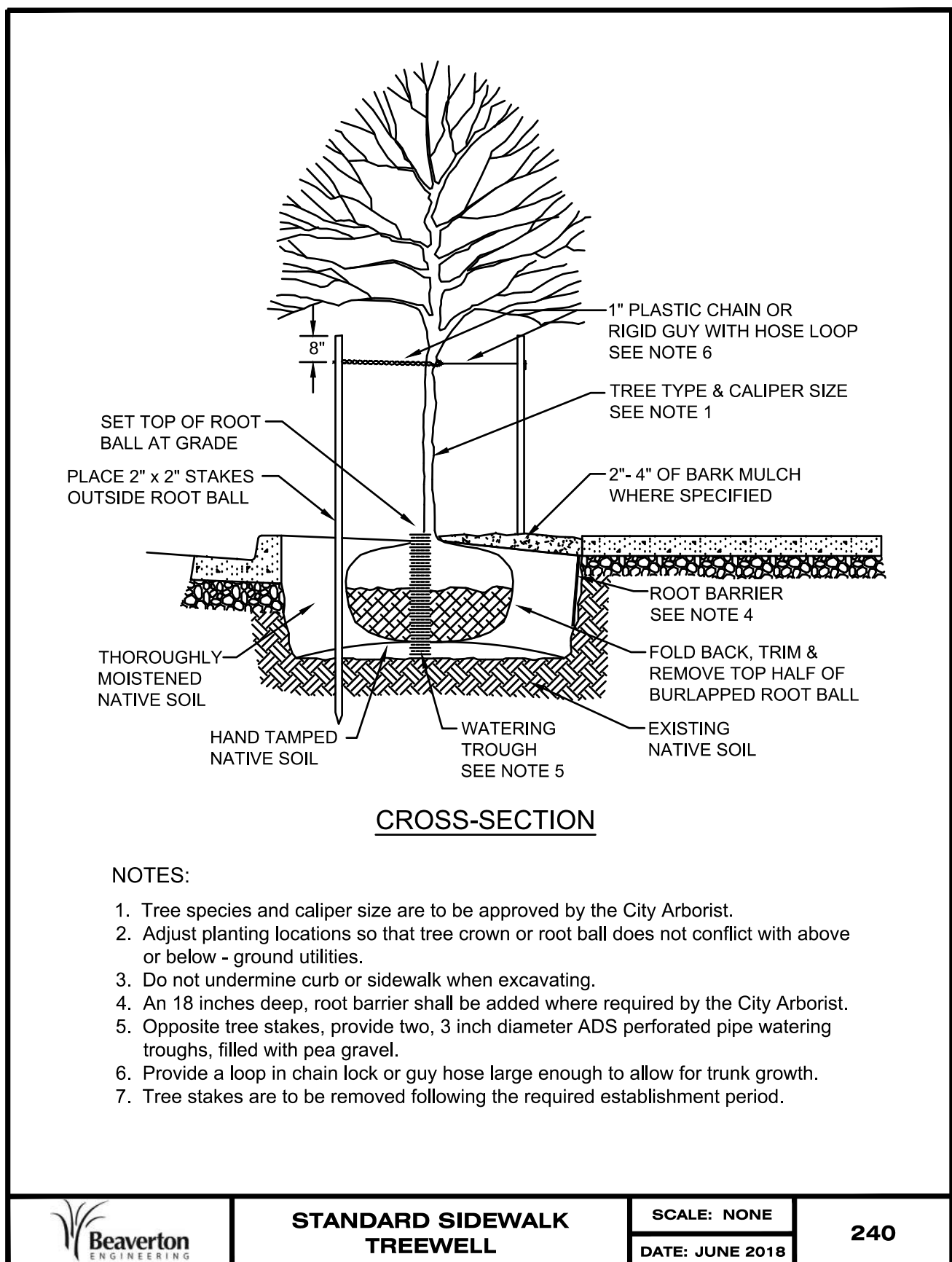
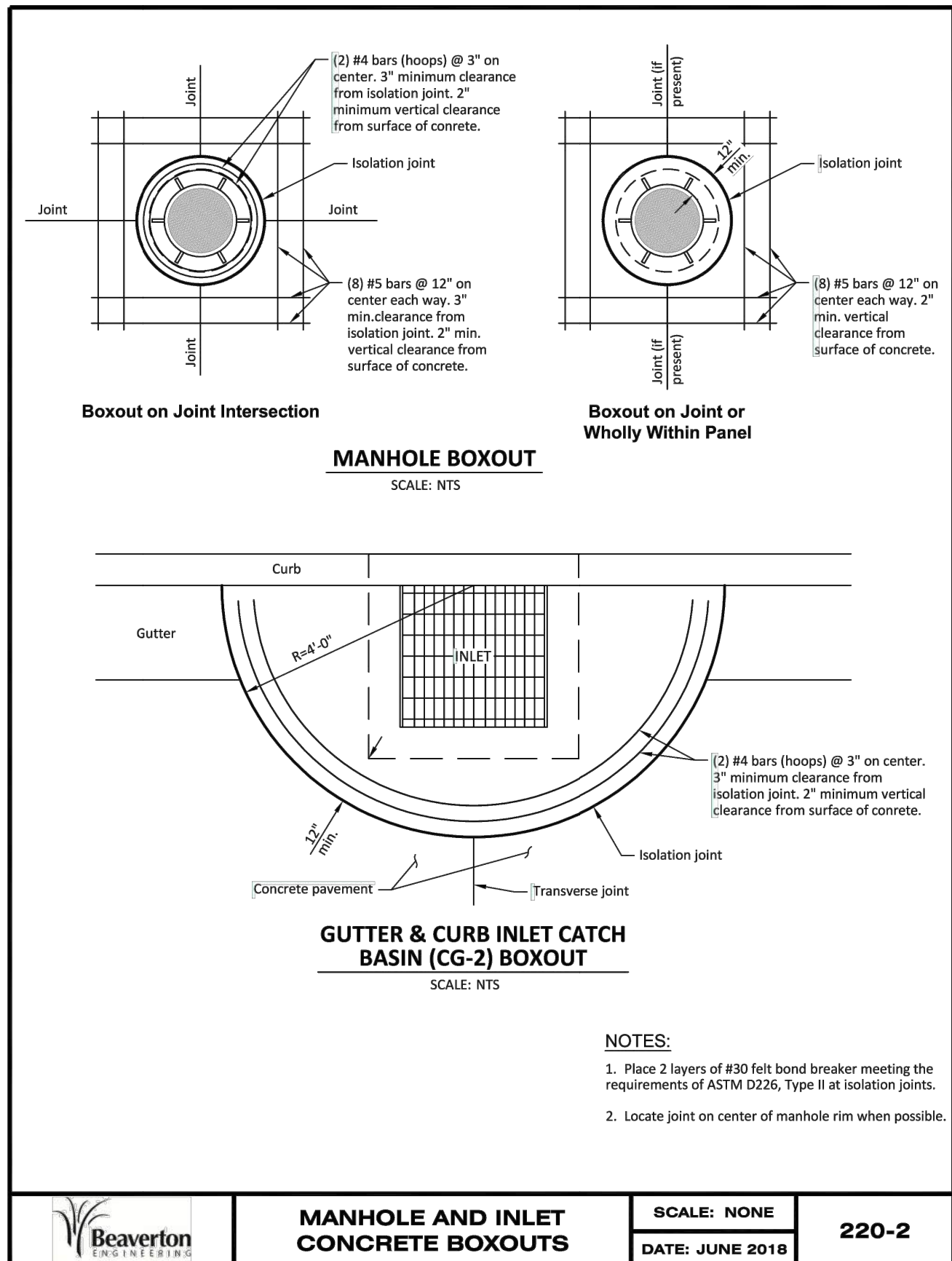
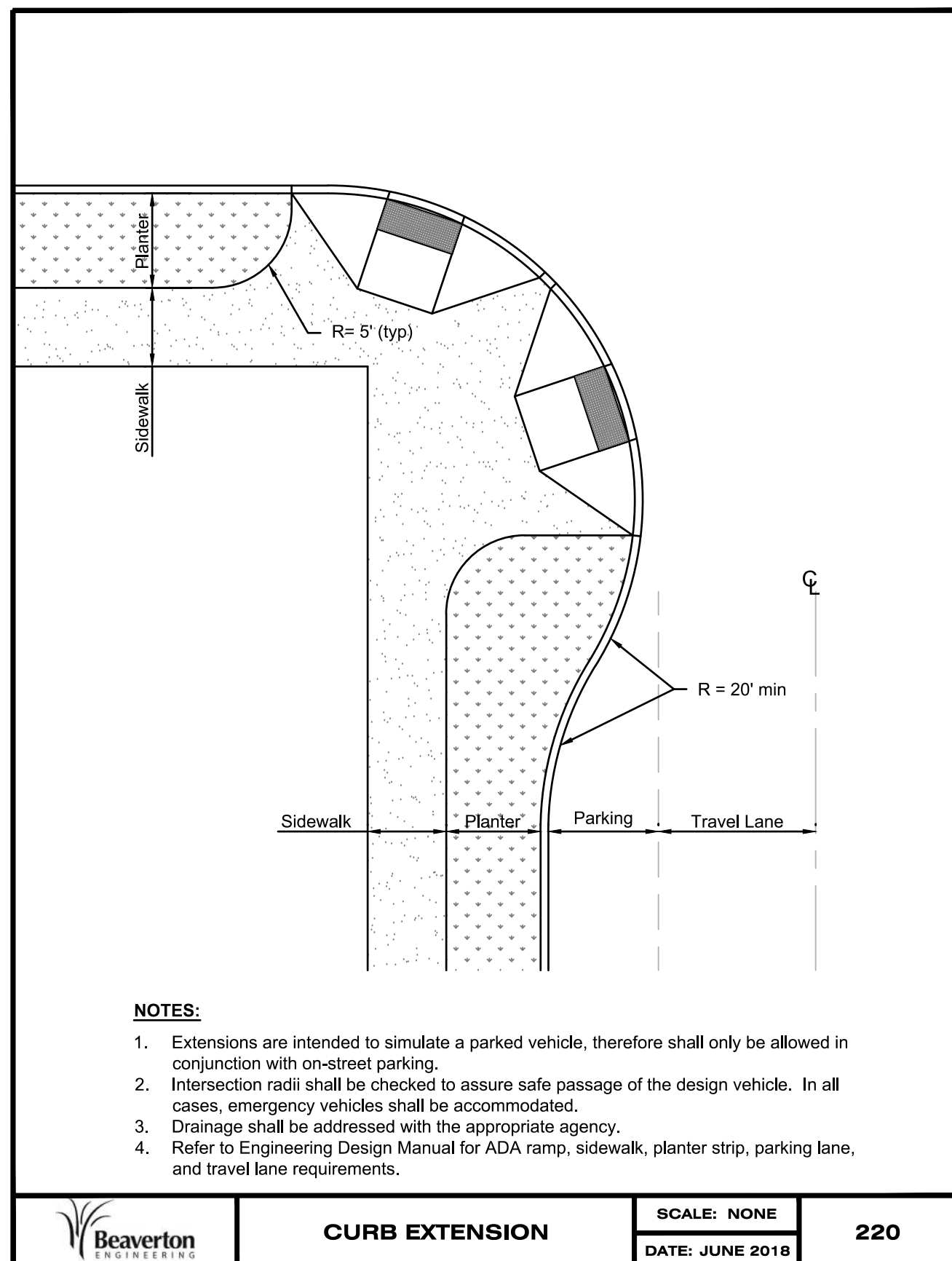
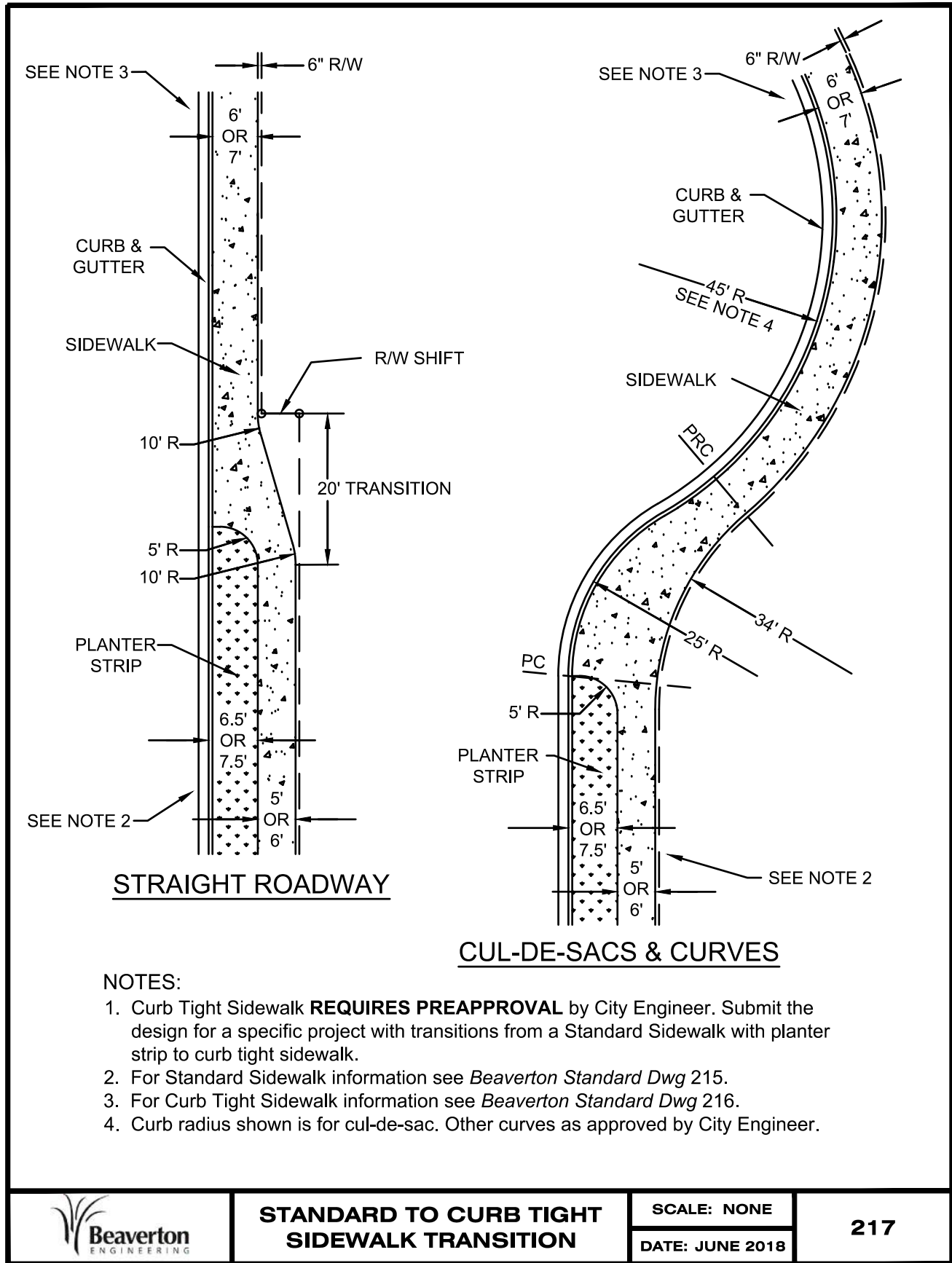
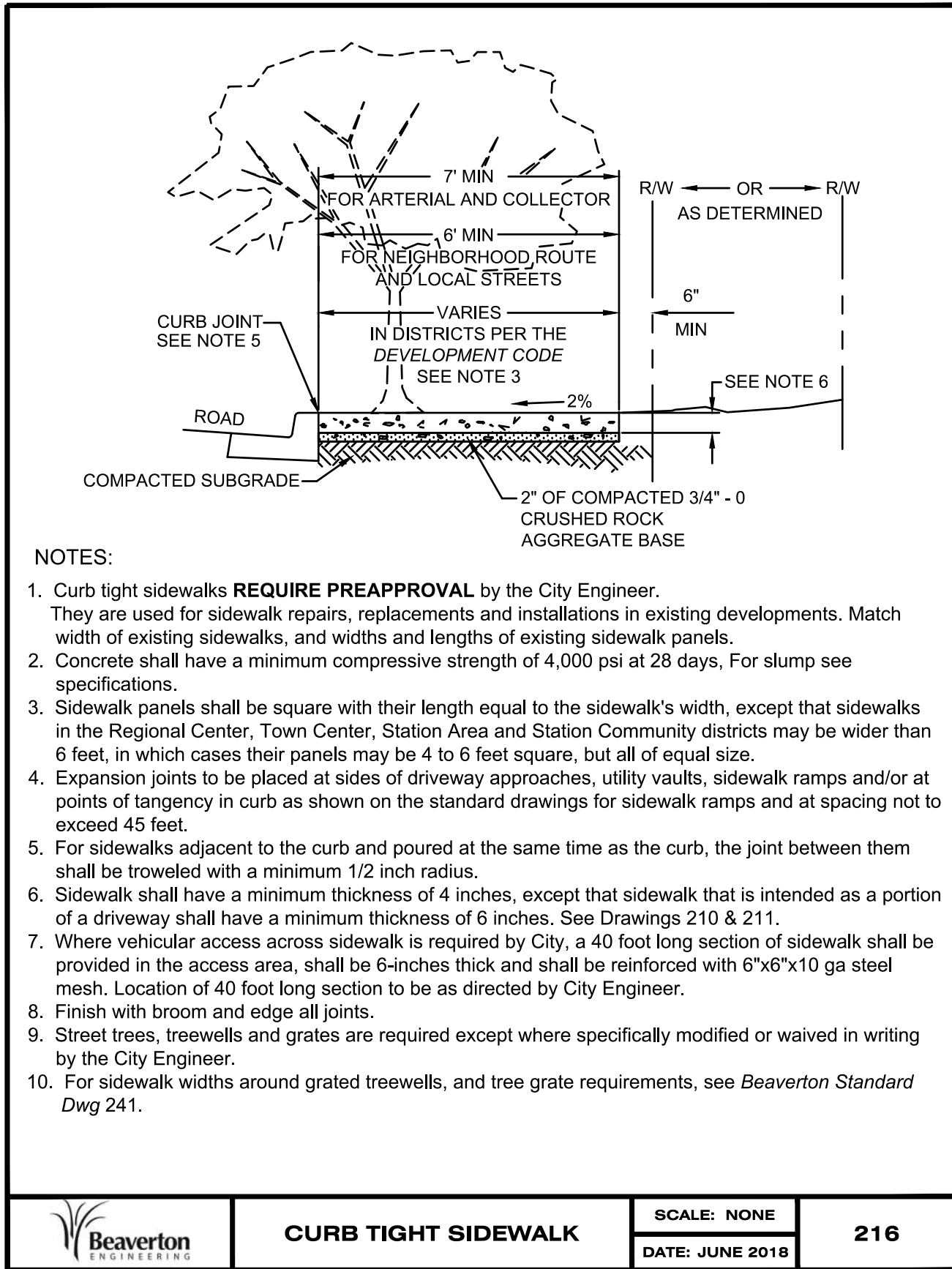
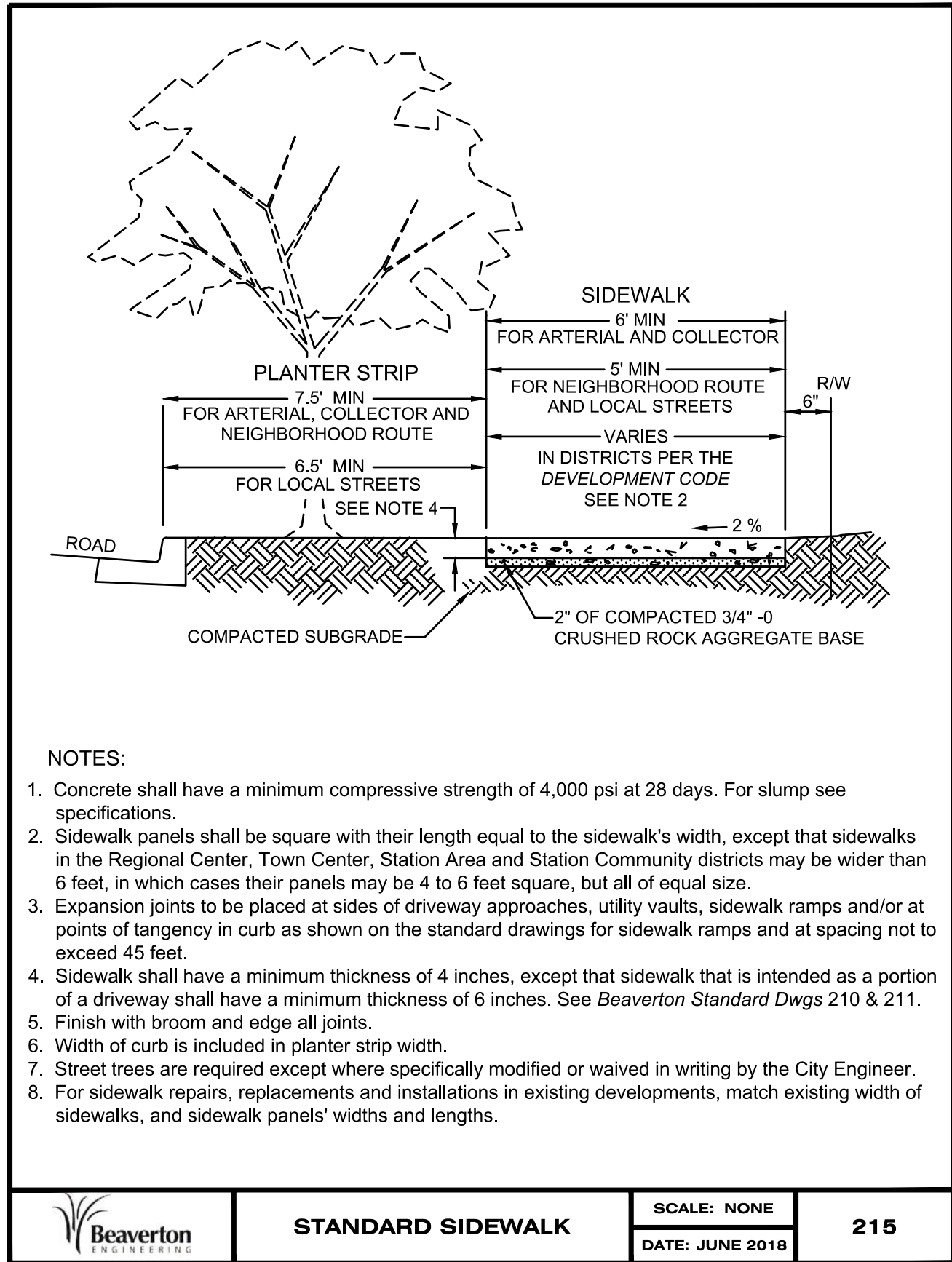
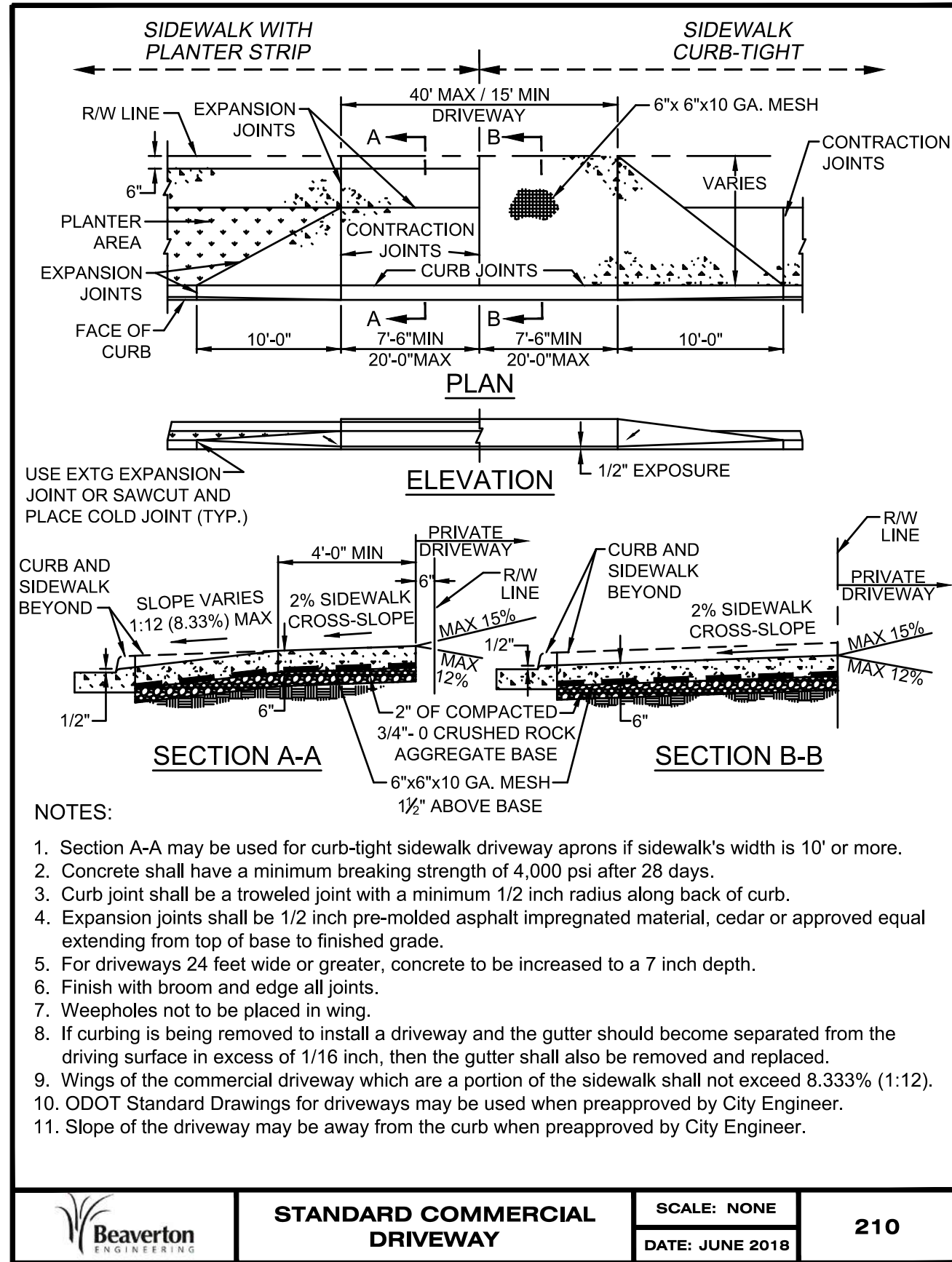
BEAVERTON SCHOOL DISTRICT
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revisions	
phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016

DETAILS

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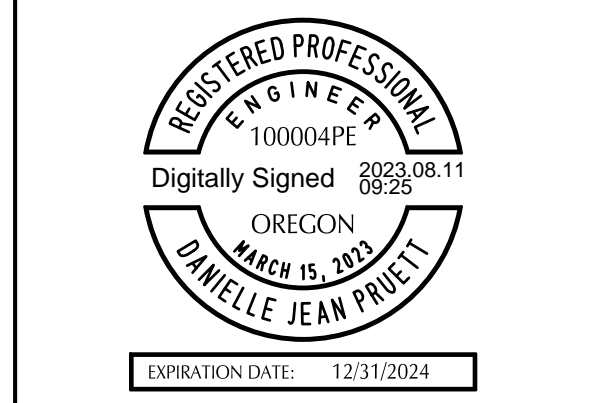


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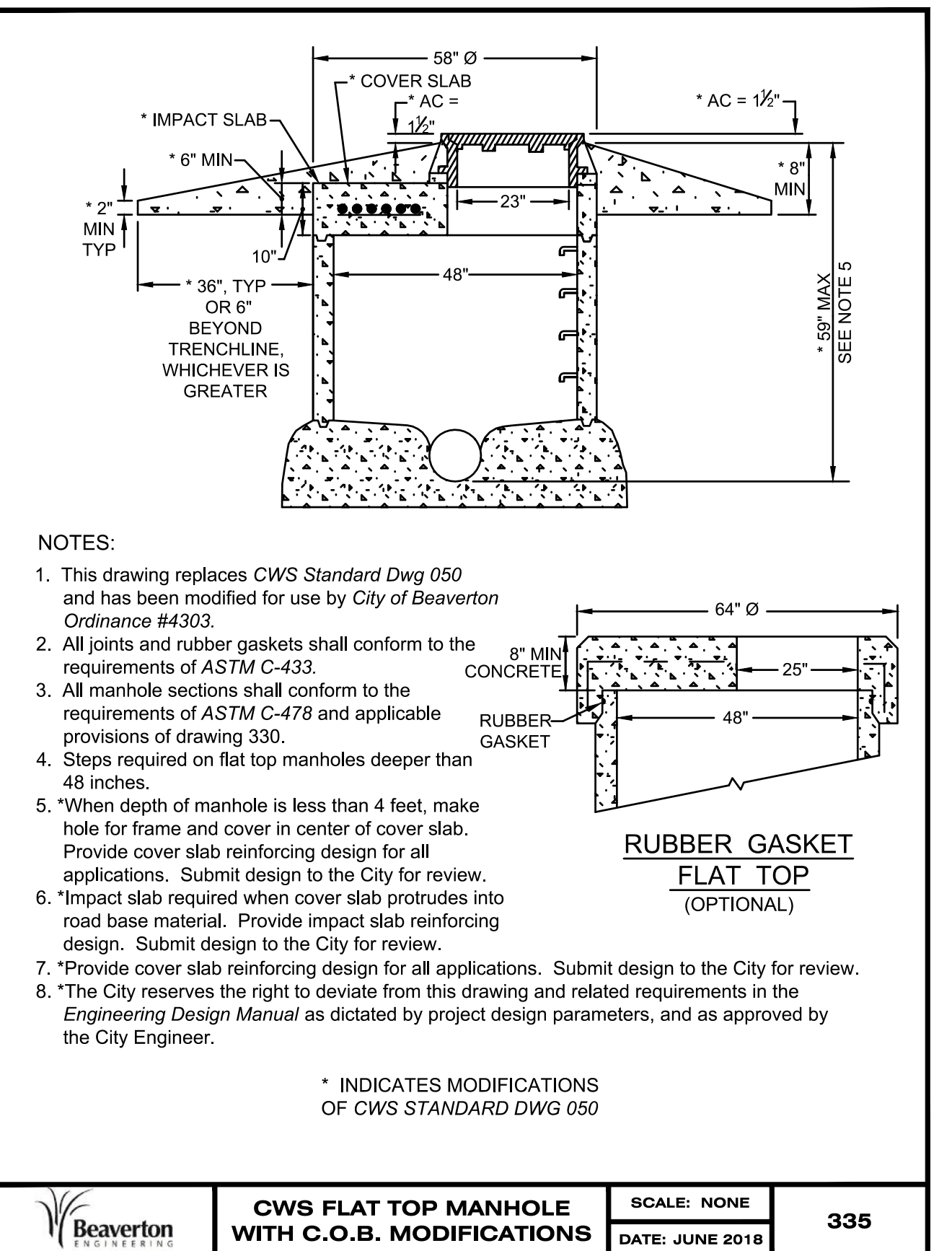
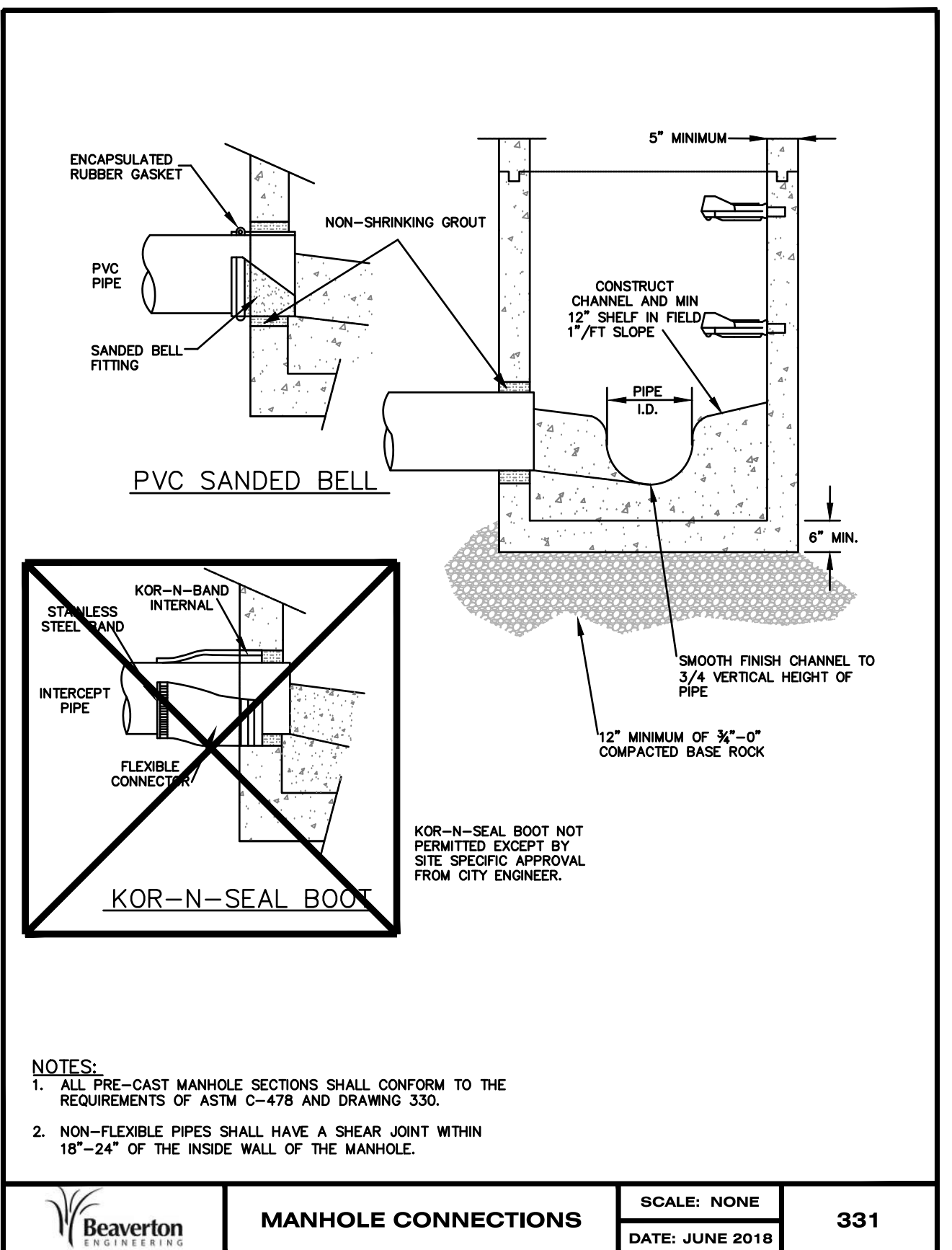
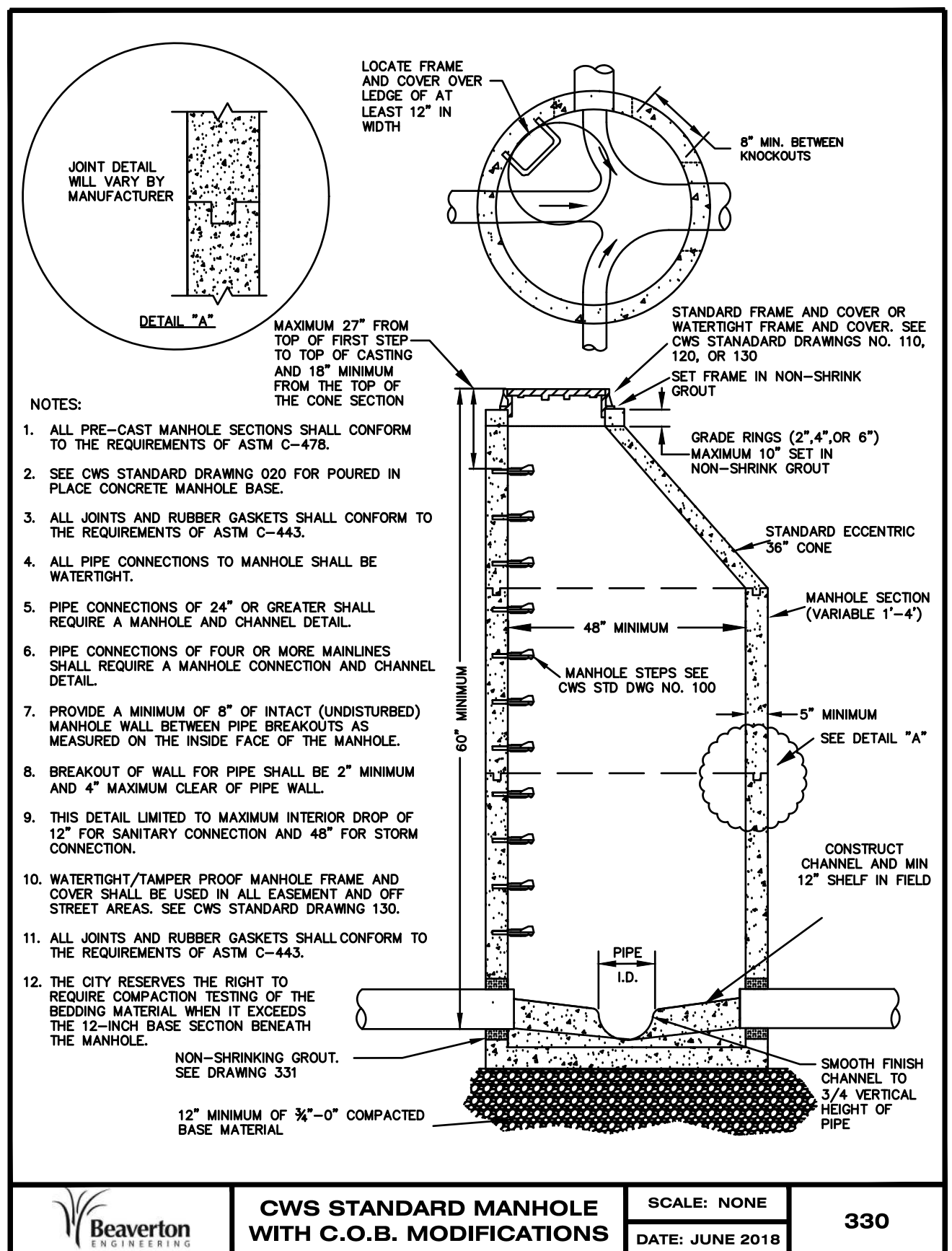
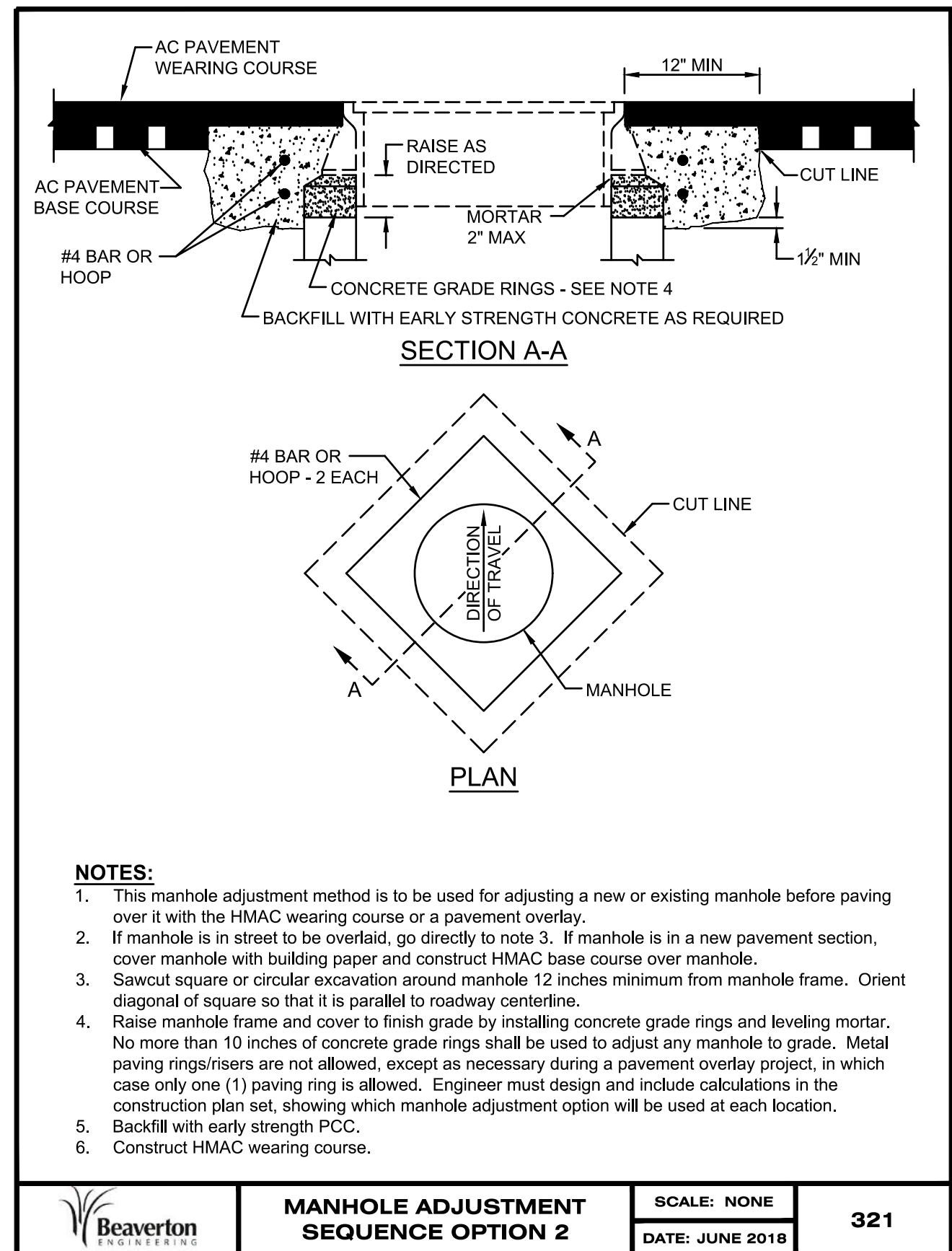
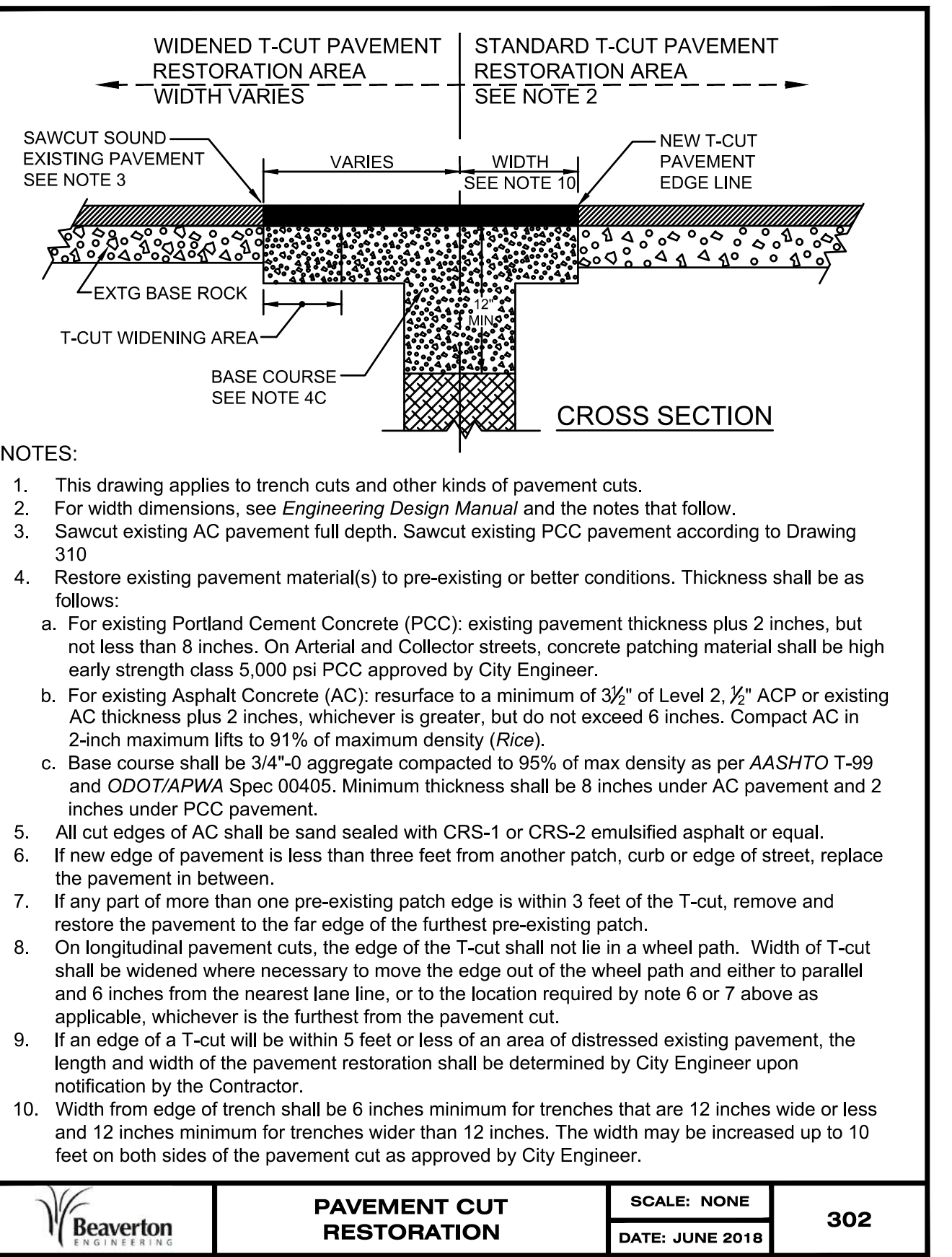
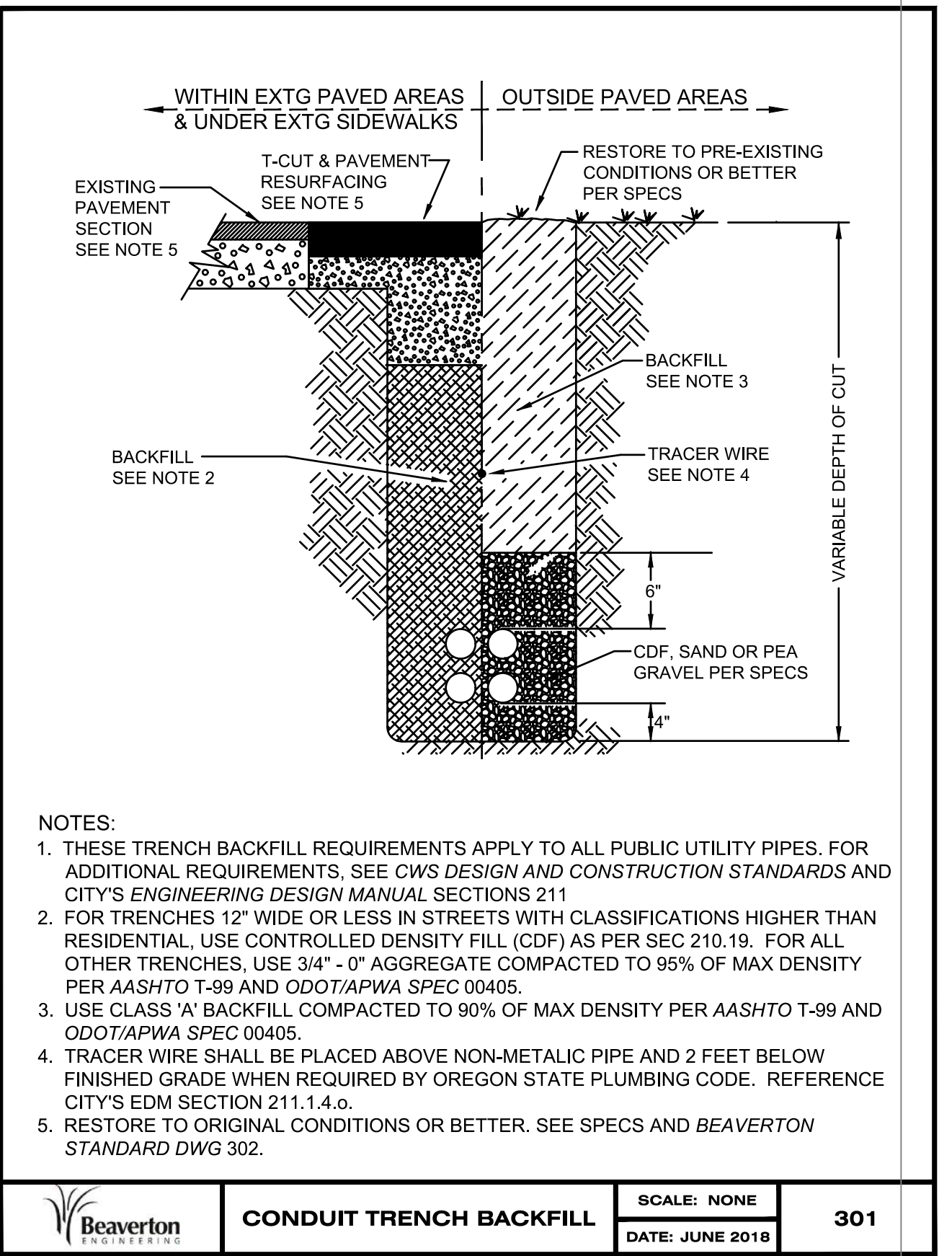
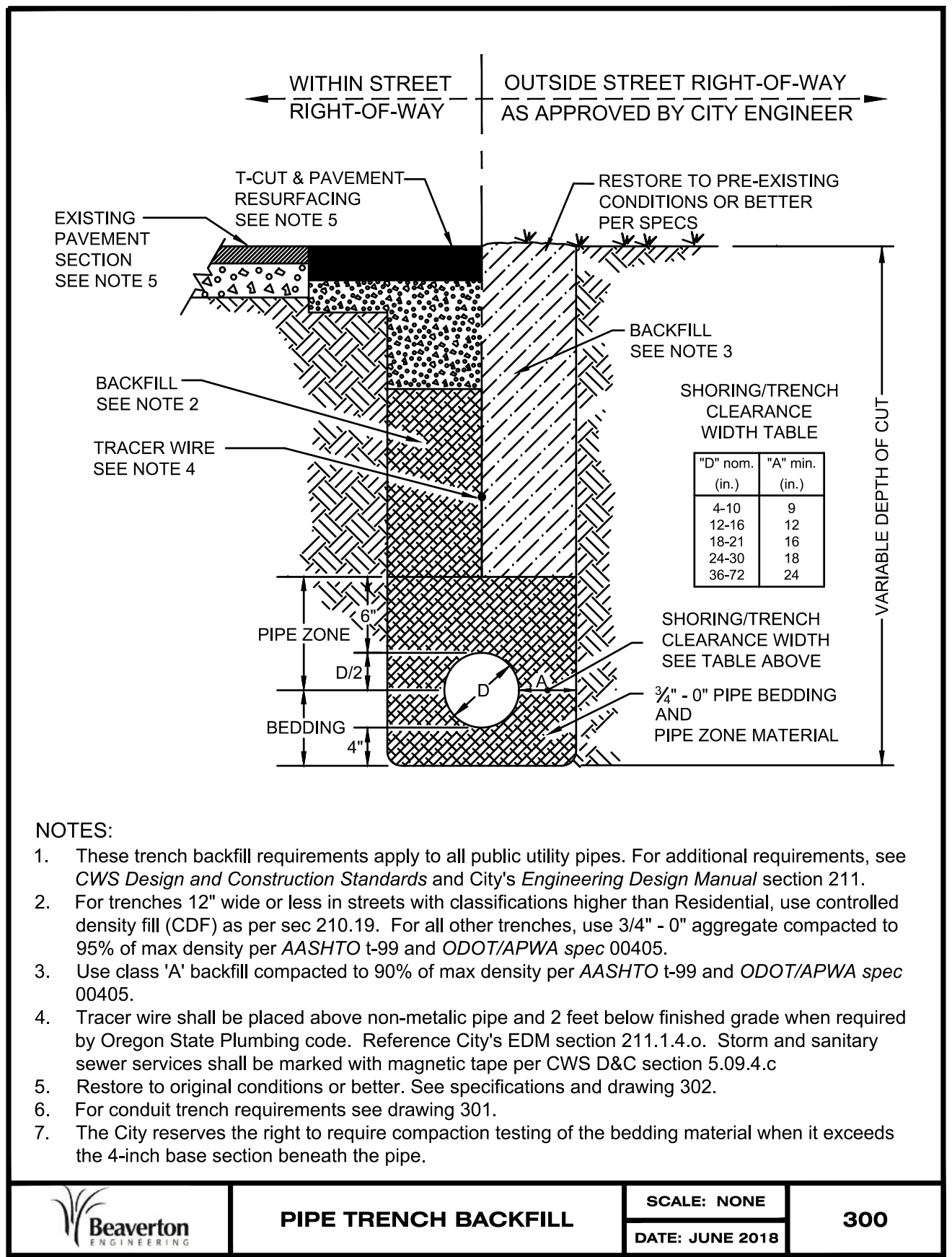
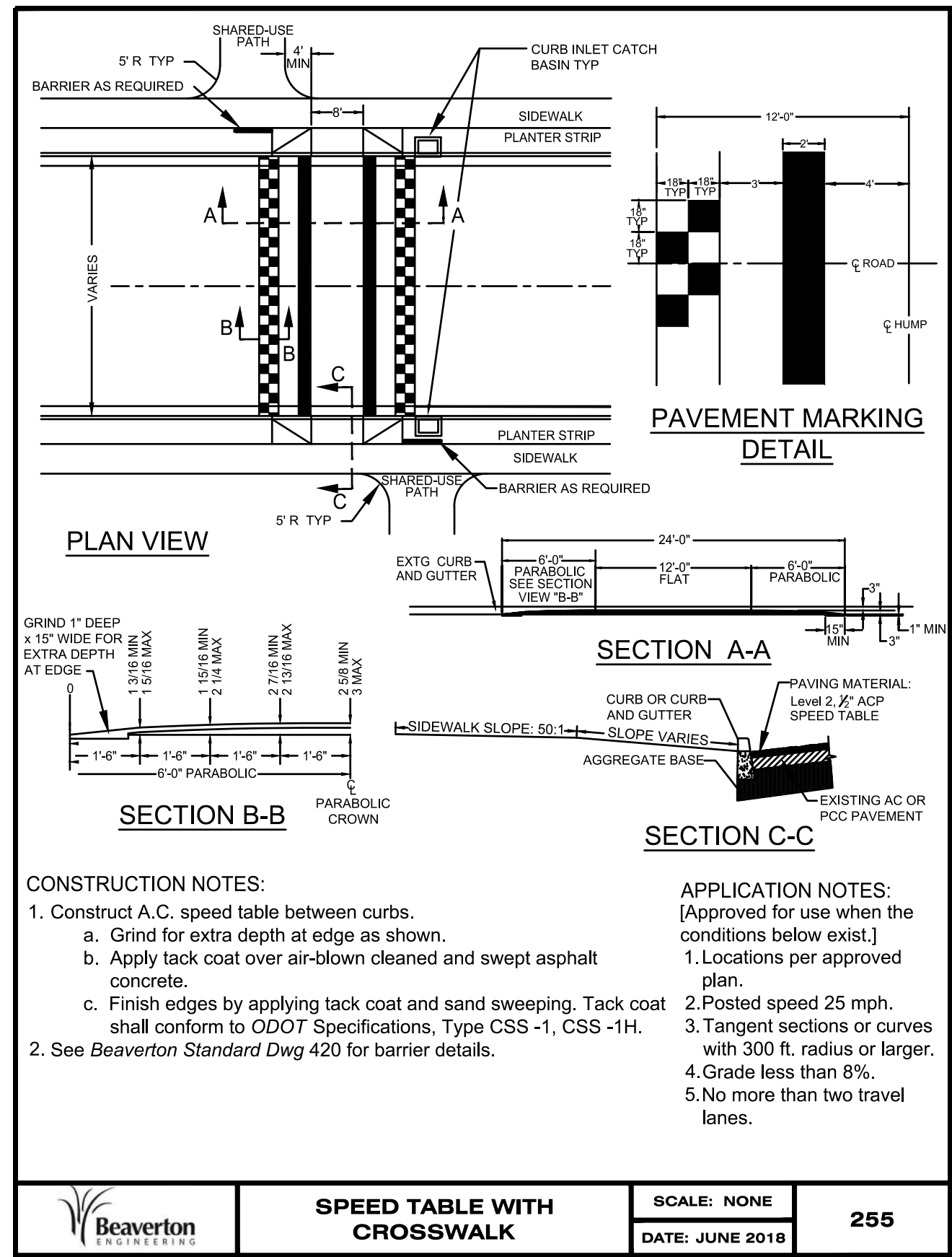
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revisions	phase	date	project
	LAND USE RESUBMITTAL SET	08/11/2023	21016

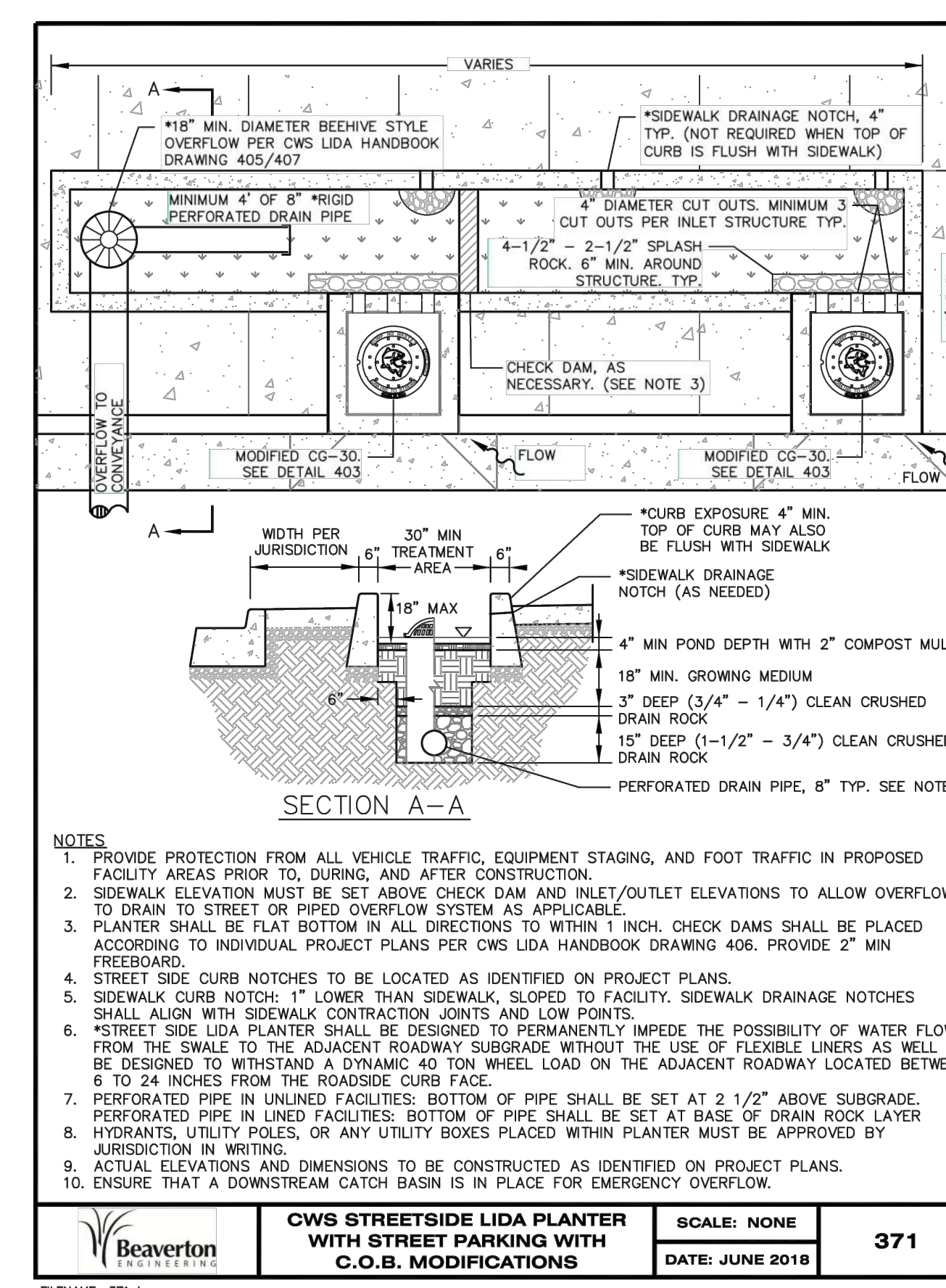
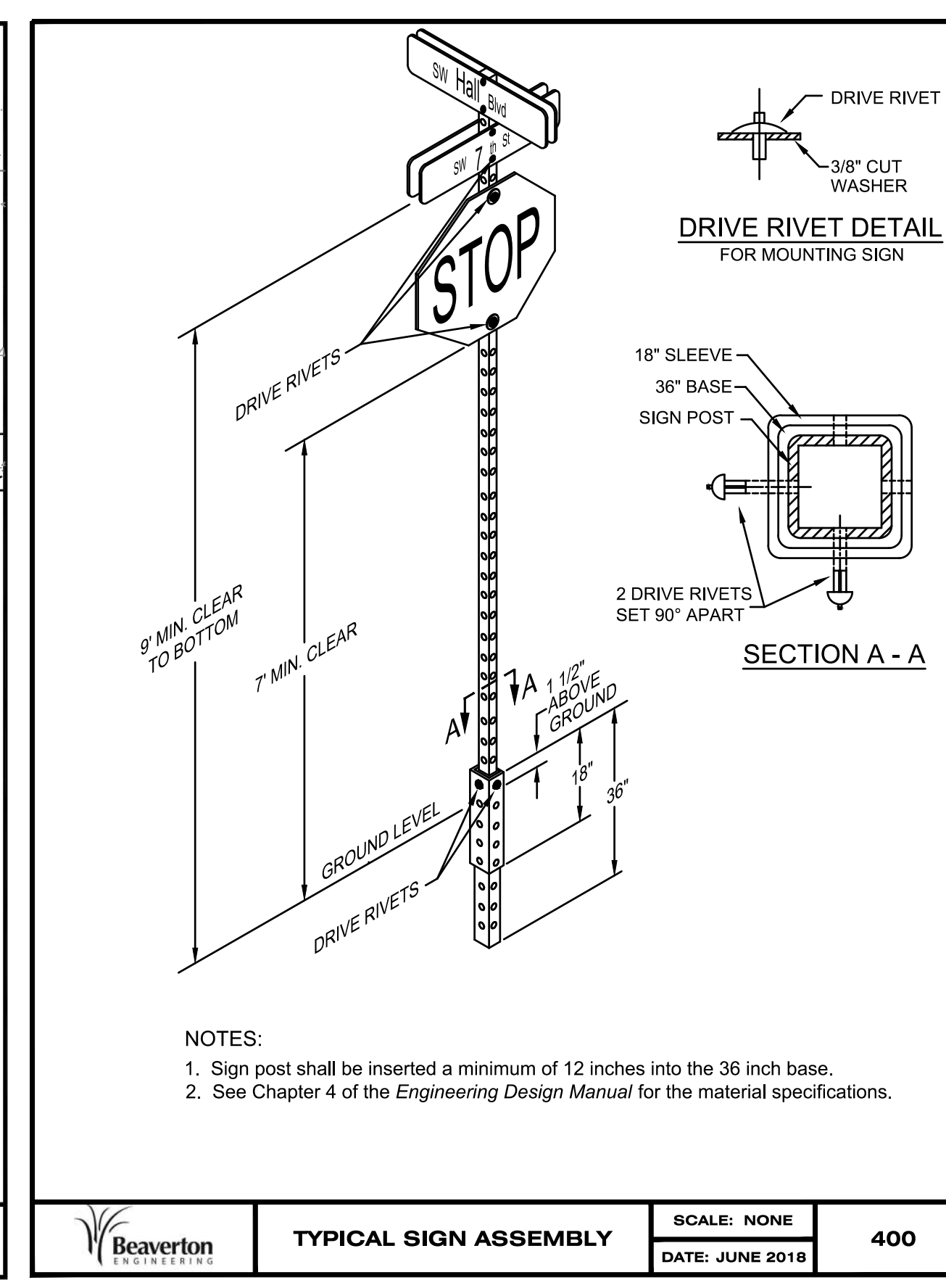
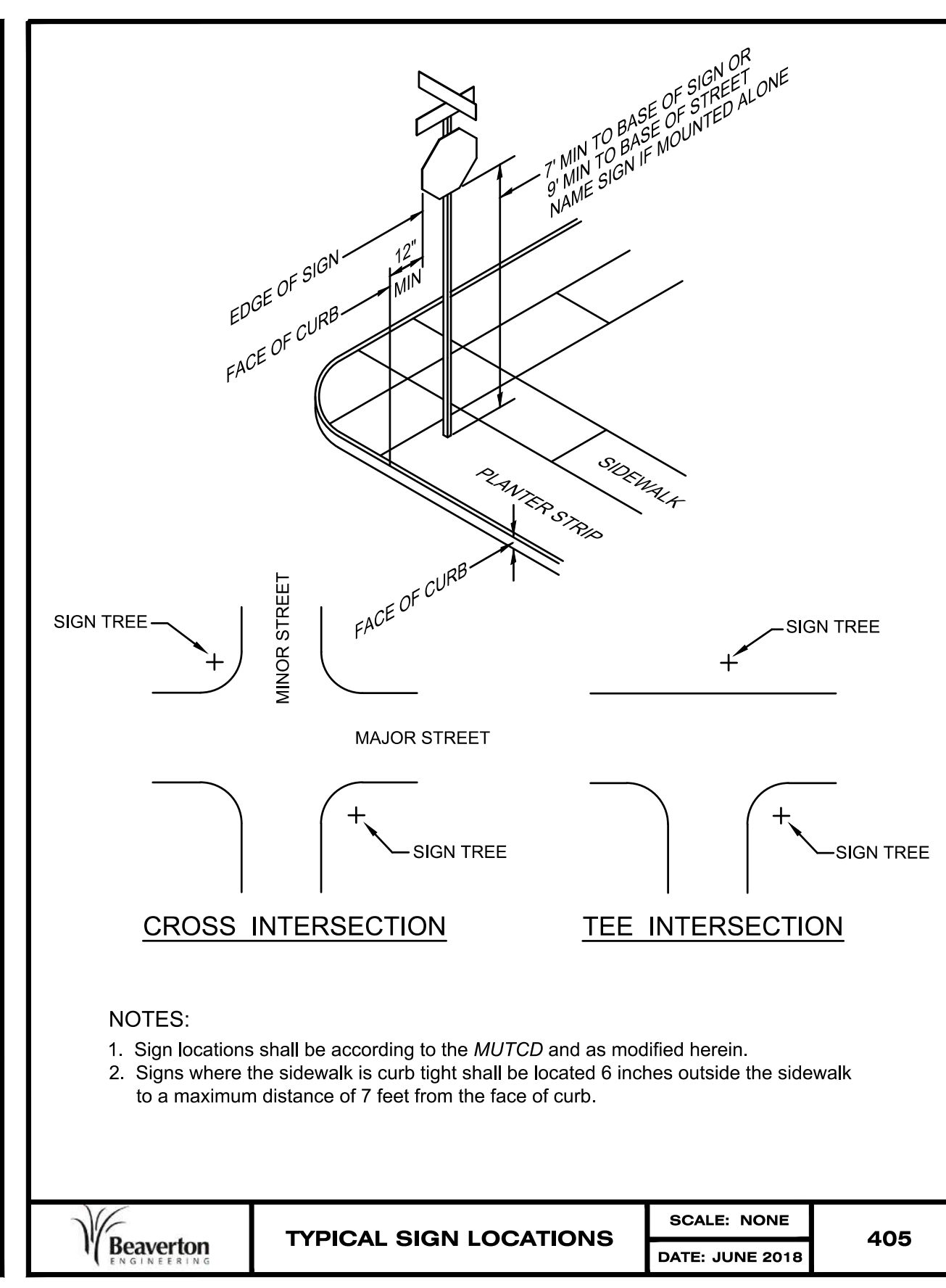
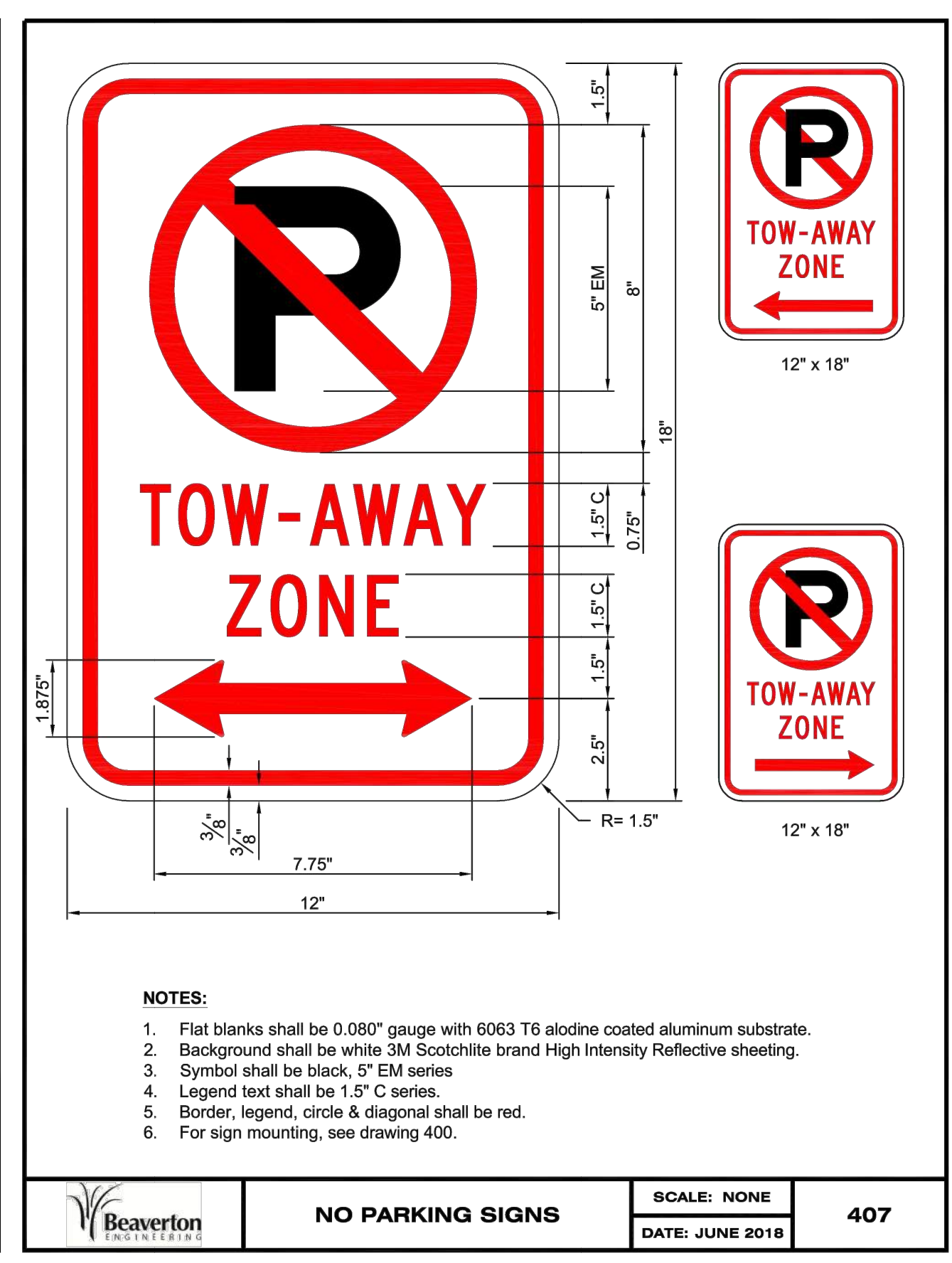
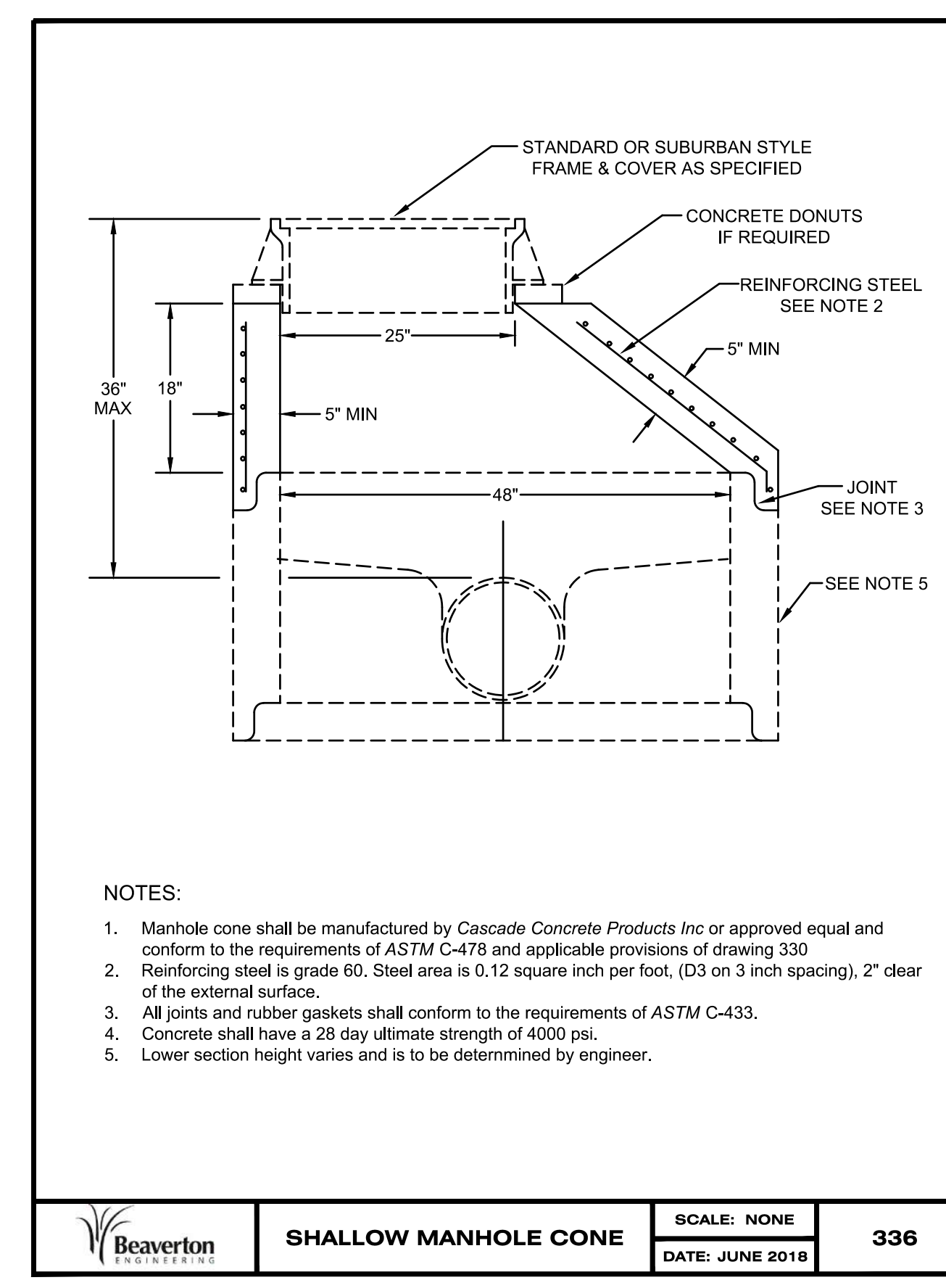
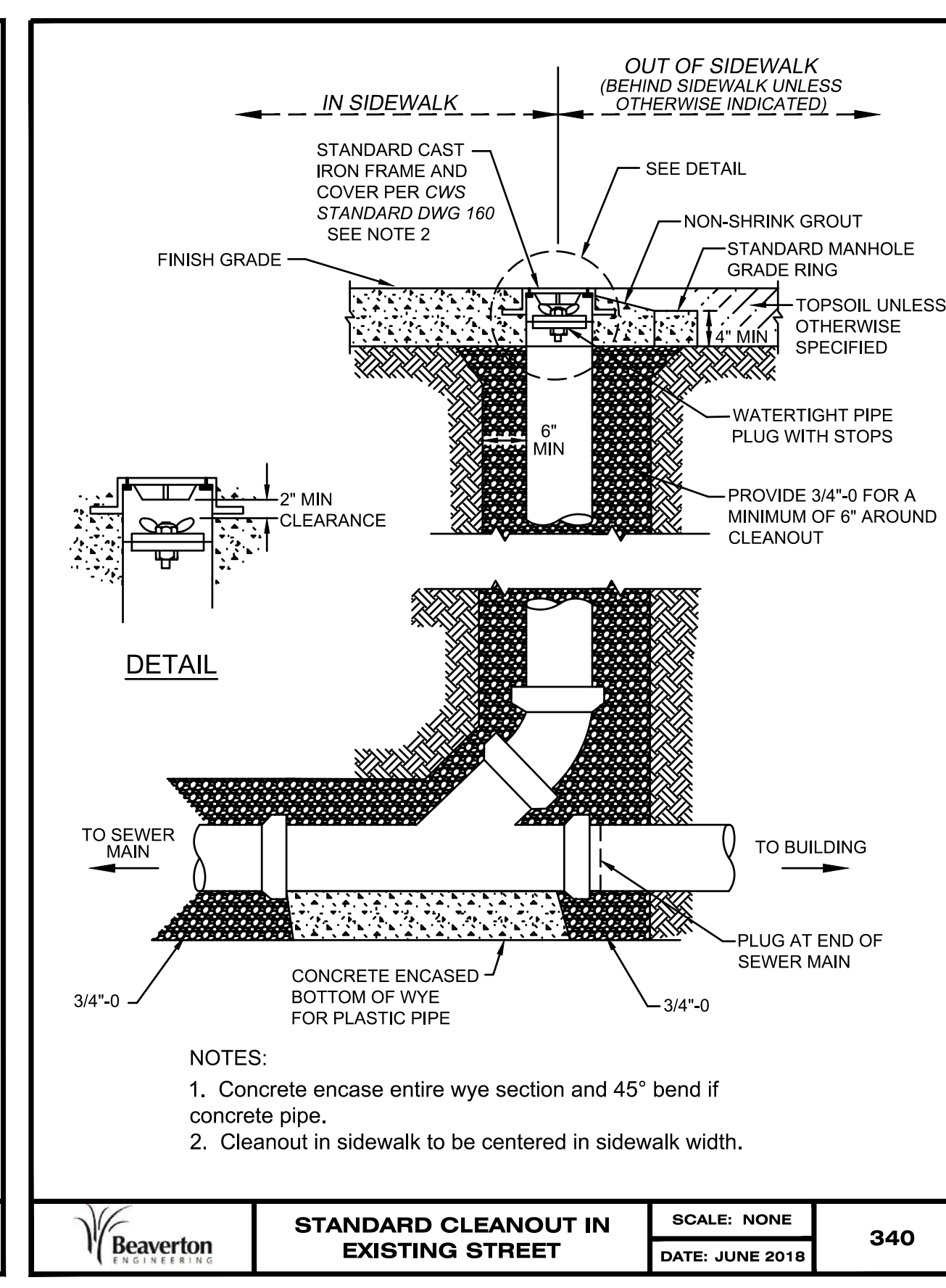
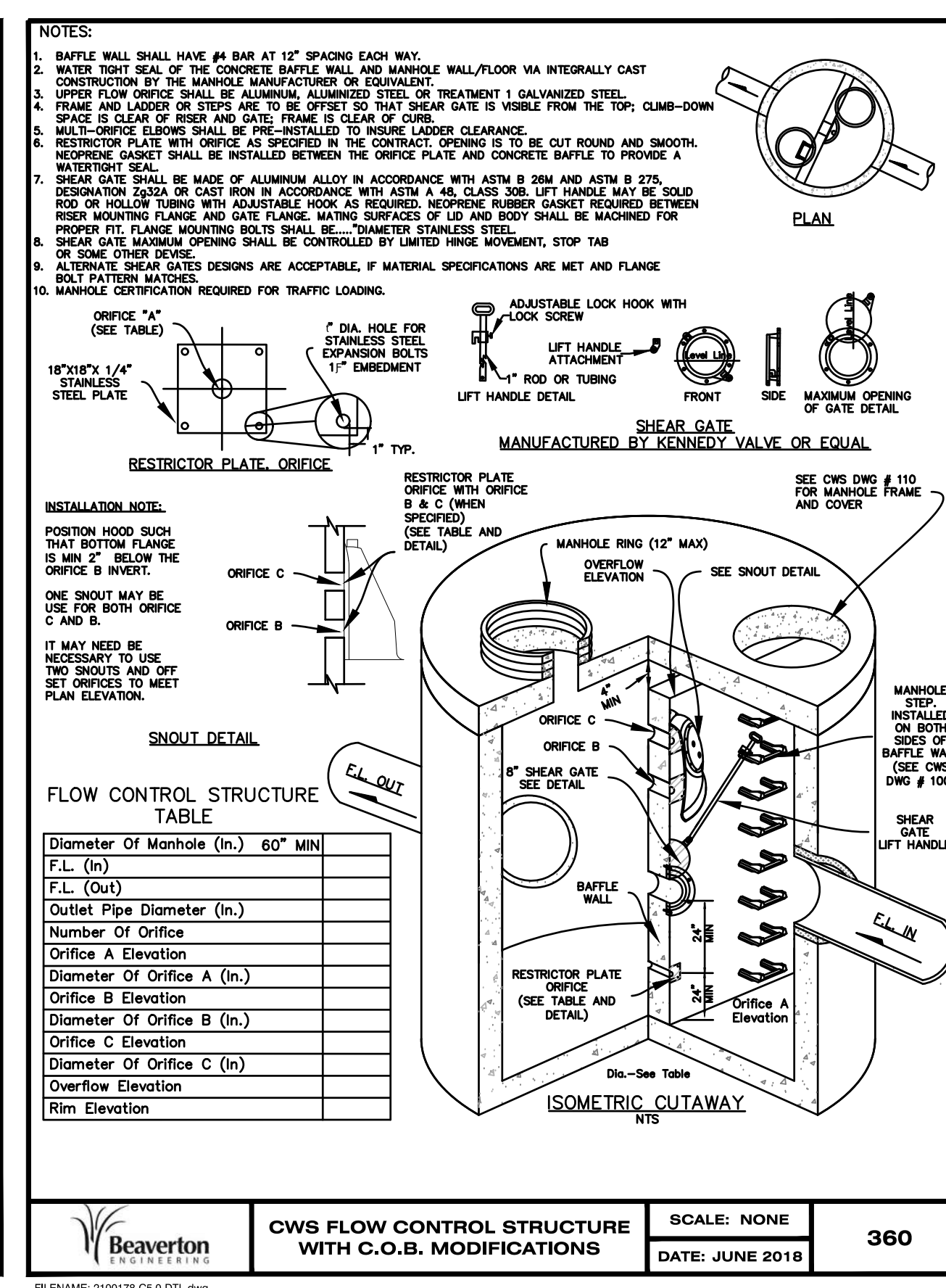
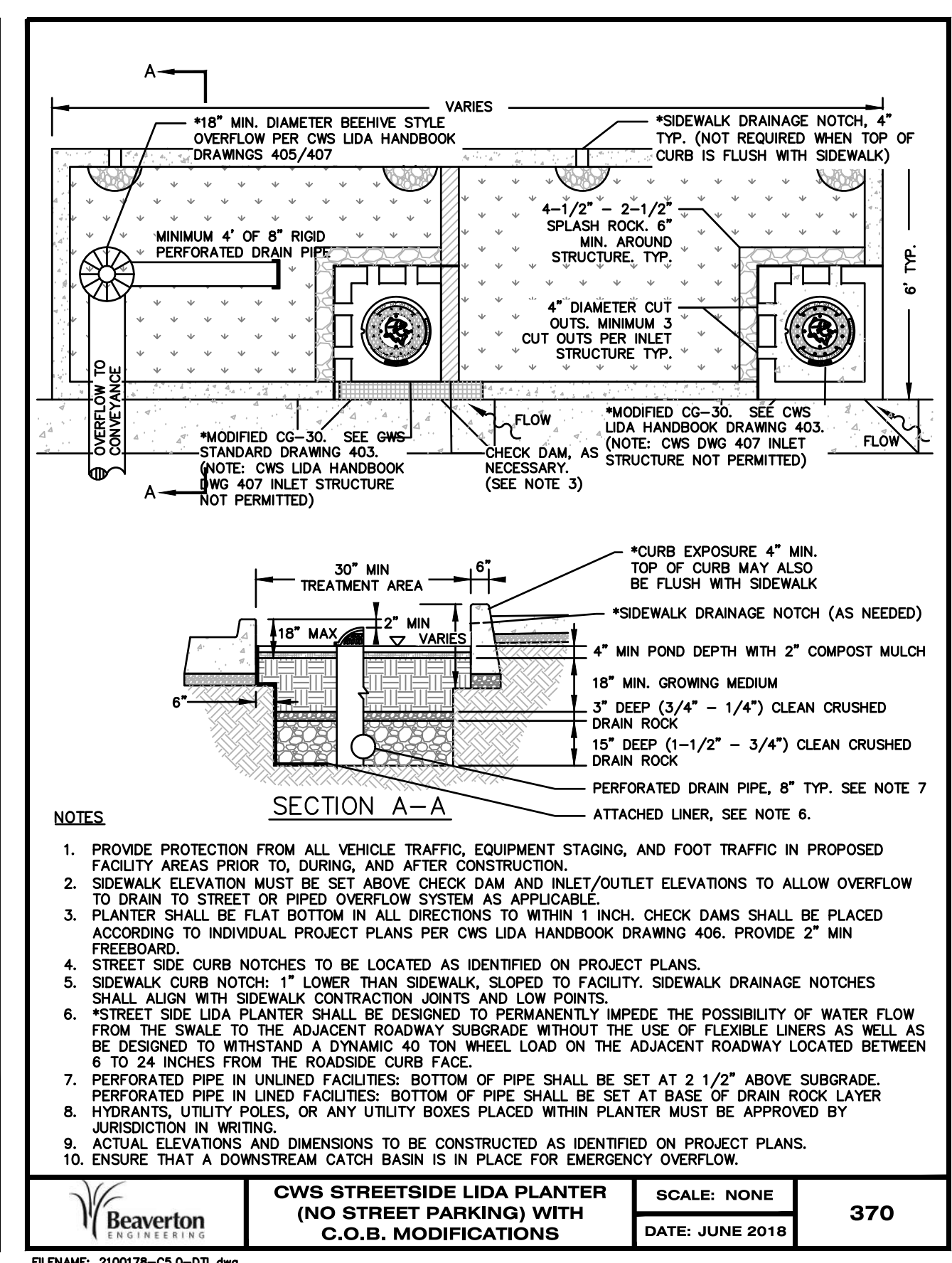


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revisions	phase
	LAND USE RESUBMITTAL SET
	date 08/11/2023
	project 21016

revisions	
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phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016



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BEAVERTON HIGH SCHOOL REBUILD

13000 SW 2ND STREET
BEAVERTON, OREGON 97005

BEAVERTON SCHOOL DISTRICT

T 503-356-4500



revisions	
phase	LAND USE RESUBMITTAL SET
date	08/11/2023
project	21016

DETAILS

C5.07

A	B	C	D	E
10"	6"	4"	2 1/4"	1 1/2"

NOTES:
1. On all streets with posted speeds of 30 mph and greater, new street name letters shall be 6 inches tall.
2. Letter styles from the Standard Alphabets for Highway Signs Manual shall be as follows:
a. For the name of street use 6 inch series 'C'.
b. For numbered streets use 6 inch series 'D' for the number and 4 inch series 'C' for the suffix.
c. For prefixes and suffixes use 4 inch series 'C'.
3. All signs shall include block numbers, as assigned by the City. Number streets shall include block numbers only when they differ from the actual street number.
4. Flat blanks for the 6 inch street name signs shall be 0.100 inch gauge with a 6063 T6 alodine coated aluminum substrate.
5. The minimum length shall be 24 inches and the maximum length shall be 48 inches, in 6 inch increments, with 1.5 inch radius corners.
6. Street name signs shall be green 3M Scotchlite brand High Intensity Prismatic Reflective sheeting.
7. All letters, numbers and borders shall be white 3M Scotchlite brand High Intensity Prismatic Reflective sheeting.
8. For post mounting assembly see Beaverton Standard Dwg 400.

A	B	C	D	E
8"	4"	3"	1 1/2"	1 1/8"

NOTES:
1. On all streets with posted speeds of 25 mph or less, new street name letters shall be 4 inches tall.
2. Letter styles from the Standard Alphabets for Highway Signs Manual shall be as follows:
a. For the name of street use 4 inch series 'C'.
b. For numbered streets use 4 inch series 'D' for the number and 3 inch series 'C' for the suffix.
c. For prefixes, suffixes and block numbers use 3 inch series 'C'.
3. All signs shall include block numbers, as assigned by the City. Number streets shall include block numbers only when they differ from the actual street number.
4. Flat blanks for 4 inch street name signs shall be 0.100 inch gauge with 6063 T6 alodine coated aluminum substrate.
5. The minimum length shall be 24 inches and the maximum length shall be 36 inches, in 6 inch increments, with 1.5 inch radius corners.
6. Street name signs shall be green 3M Scotchlite brand High Intensity Prismatic Reflective sheeting.
7. All letters, numbers and borders shall be white 3M Scotchlite brand High Intensity Prismatic Reflective sheeting.
8. For post mounting assembly see Beaverton Standard Dwg 400.

NOTES:
1. Flat blanks shall be 0.060 inch gauge with 6063 T6 alodine coated aluminum substrate.
2. Both sides of block number plate shall be green 3M Scotchlite brand High Intensity Prismatic Reflective sheeting.
3. All numbers shall be 3 inch series 'B', white 3M Scotchlite brand High Intensity Prismatic Reflective sheeting.
4. Always mount lower plate on the side nearest to intersection.
5. For street name sign, see Beaverton Standard Dwg 411.

NOTE:
Conduit shall protrude a maximum of 2 inches above the finished surface foundation.

NOTES:
1. A TV&R DEPUTY FIRE MARSHAL MUST APPROVE LOCATION OF ALL FIRE HYDRANTS.
2. HYDRANT SHALL BE LOCATED IN AN AREA WHICH ALLOWS FOR REQUIRED CLEAR ZONE SURROUNDING THE HYDRANT. SEE DRAWING 650-1 FOR CLEAR ZONE DETAIL.
3. SEE DRAWINGS 650-2 & 650-3 FOR HYDRANT INSTALLATION DETAILS.
4. CURB AND SIDEWALK CONFIGURATION CAN BE FOUND IN THE CITY'S TRANSPORTATION SYSTEM PLAN.

NOTES:
1. "A" = NOMINAL PIPE DIAMETER
2. SEE "CITY OF BEAVERTON ENGINEERING DESIGN MANUAL" FOR ADDITIONAL REQUIREMENTS.
3. RESTORE LANDSCAPE TO PRE-EXISTING CONDITIONS OR BETTER.

BRANCH PIPE DIA (IN)	THRUST BLOCK BEARING AREA (MIN SF)	THRUST BLOCK CONCRETE (MIN CY)
4	1.3	0.05
6	2.8	0.10
8	5.0	0.18
10	11.3	0.42
12	20.1	0.75
18	26.0	0.97

KEYNOTES:
1. CONCRETE THRUST BLOCK POURED AGAINST UNDISTURBED EARTH. THRUST BLOCK SIZE SHALL BE PER TABLE 1 AND SHALL NOT BE LESS THAN ONE FOOT IN ANY DIMENSION. CONCRETE SHALL BE CLASS 3000.
2. COVER TAPPING SLEEVE WITH 8 MIL PLASTIC MATERIAL AS SHOWN PRIOR TO POURING THRUST BLOCK AND BACKFILLING.
3. STAINLESS STEEL TAPPING SLEEVE WITH GASKET AND FLANGED CONNECTION.
4. GATE VALVES 10" AND LARGER WITH LESS THAN 24" BETWEEN THE OPERATING NUT AND FINISHED GRADE WILL REQUIRE A HORIZONTAL BEVEL GEAR ACTUATOR.
5. ALL JOINTS ON BRANCH PIPE SHALL BE RESTRAINED.

NOTES: (TAPPING CONTRACTOR ONLY)
1. BEFORE INSTALLING TAPPING SLEEVE, CONTRACTOR SHALL THOROUGHLY CLEAN PIPE TO REMOVE ALL DIRT, ROCKS, AND OTHER FOREIGN MATERIAL FROM PIPE WHERE SLEEVE WILL BE INSTALLED.
2. SLEEVE BOLTS SHALL BE TIGHTENED TO MANUFACTURER'S TORQUE SPECIFICATIONS.
3. CONTRACTOR SHALL ENSURE THAT GASKET IS PROPERLY ALIGNED AND FREE OF FOREIGN MATERIAL PRIOR TO TIGHTENING SLEEVE BOLTS.
4. SLEEVE LOCATION AND INSTALLATION SHALL BE APPROVED BY WATER OPERATIONS INSPECTOR PRIOR TO TAPPING.
5. CONTRACTOR SHALL AIR TEST SLEEVE TO 40 PSI PRIOR TO TAPPING.
6. CONTRACTOR SHALL FLUSH VALVE PRIOR TO PIPE CONNECTION.
7. EDGE OF TAPPING SLEEVE SHALL BE A MINIMUM OF 18" FROM BEND OR JOINT

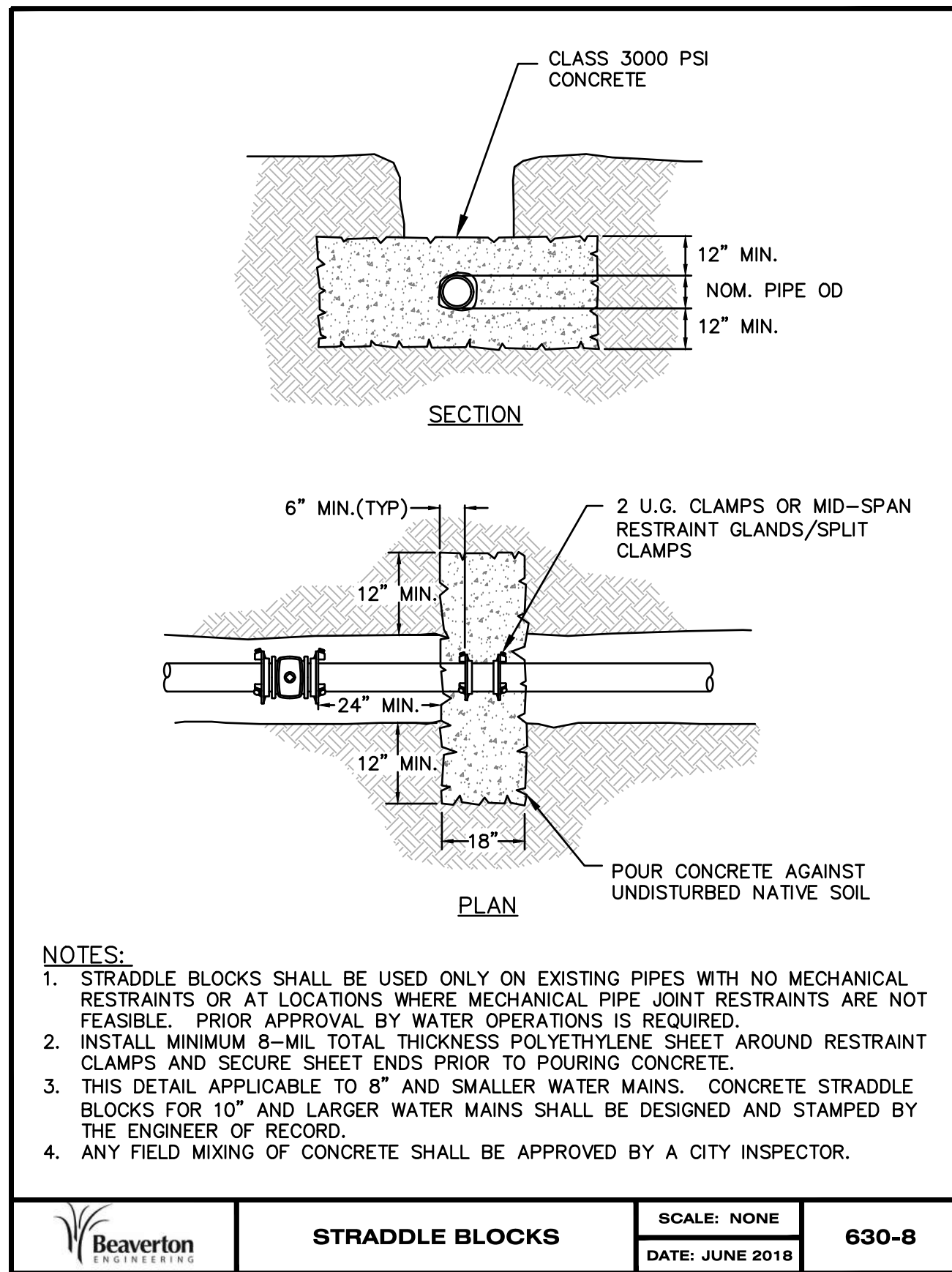
KEYNOTES:
1. 2" X 12" BRASS NIPPLE
2. 2" CTS X CTS 90° ELBOW
3. 2" TYPE K RIGID COPPER
4. GRANULAR DRAIN BACKFILL MATERIAL
5. 8" PVC ASTM D-3034, LENGTH AS REQUIRED
6. MJ RESTRAINED JOINT W/ MEGAPLUG, CAP TAPPED 2" IP THREAD
7. 2" MIPT X CTS ADAPTOR
8. FIPT X CTS ADAPTOR W/ 2" MIPT BRASS PLUG (HAND TIGHT)
9. 2" GATE VALVE W/ 2" OPERATING NUT FIPT X FIPT
10. VALVE BOX & LID. SEE DRAWING 640-2

NOTES:
1. THIS DETAIL IS APPLICABLE TO DEAD END LINES SERVING CUSTOMERS WHICH WILL NOT BE EXTENDED IN THE FUTURE.

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(HORIZONTAL) BEARING AREA OF THRUST BLOCKS IN SQ FT

FITTING SIZE	TEE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND	VOLUME OF THRUST BLOCK IN CU YDS (VERTICAL)		
						FITTING SIZE	BEND ANGLE	
4	1.3	1.8	1.0	1.0	1.0	4	1.1	0.4 0.2
6	2.8	4.0	2.2	1.1	1.0	6	2.7	1.0 0.4
8	5.0	7.1	3.8	2.0	1.0	8	4.0	1.5 0.6
12	11.3	16.0	8.7	4.4	2.2	12	8.5	3.2 1.3
16	20.1	28.4	15.4	7.8	3.9	16	14.8	5.6 2.3
20	31.1	44.4	24.0	12.3	6.2			
24	45.2	64.0	34.6	17.7	8.9			

VALUES BASED ON 200 PSI WATER PRESSURE AND 2000 PSF SOIL BEARING CAPACITY

STEEL REBAR (2)

BEND

TEE

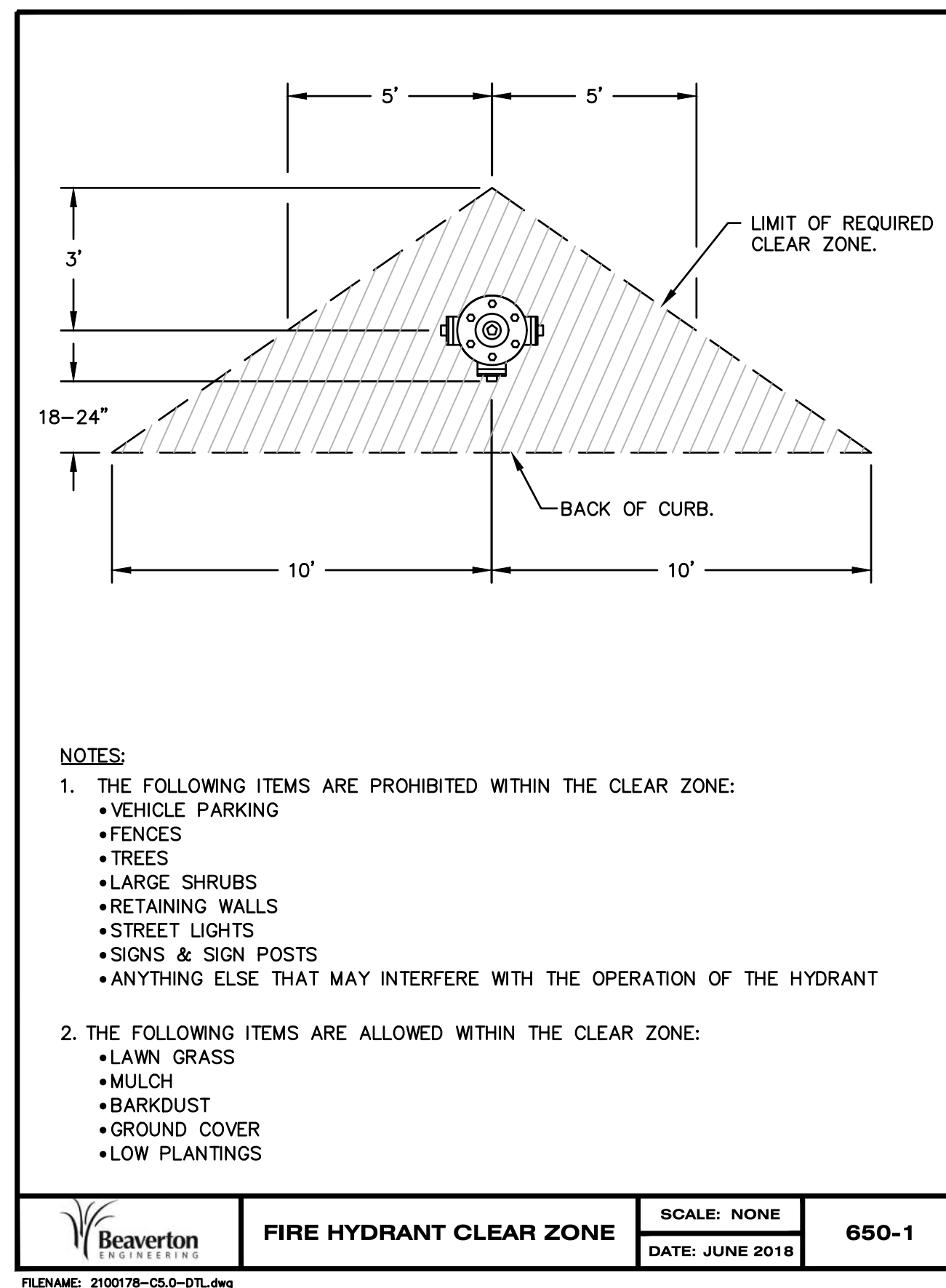
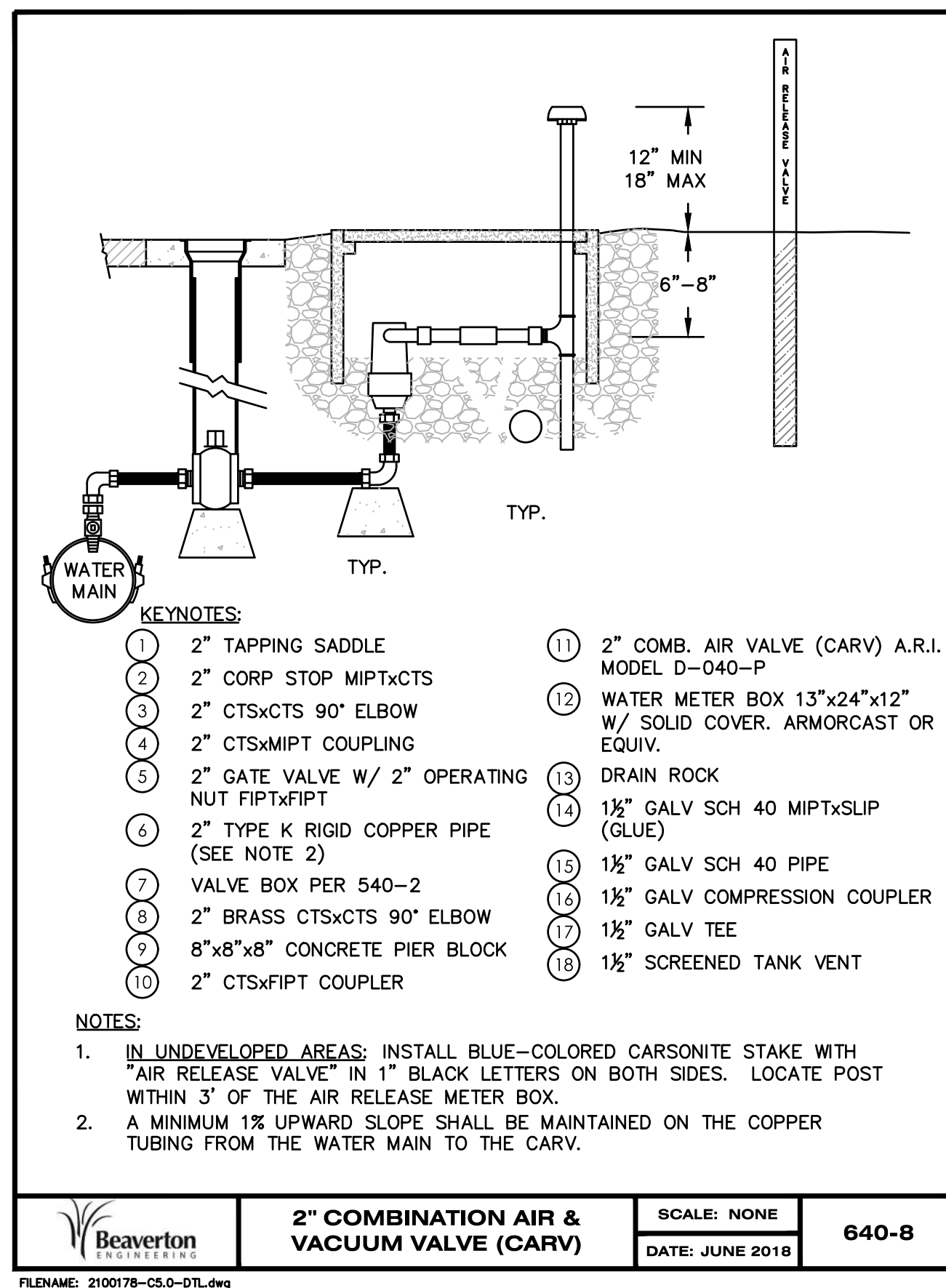
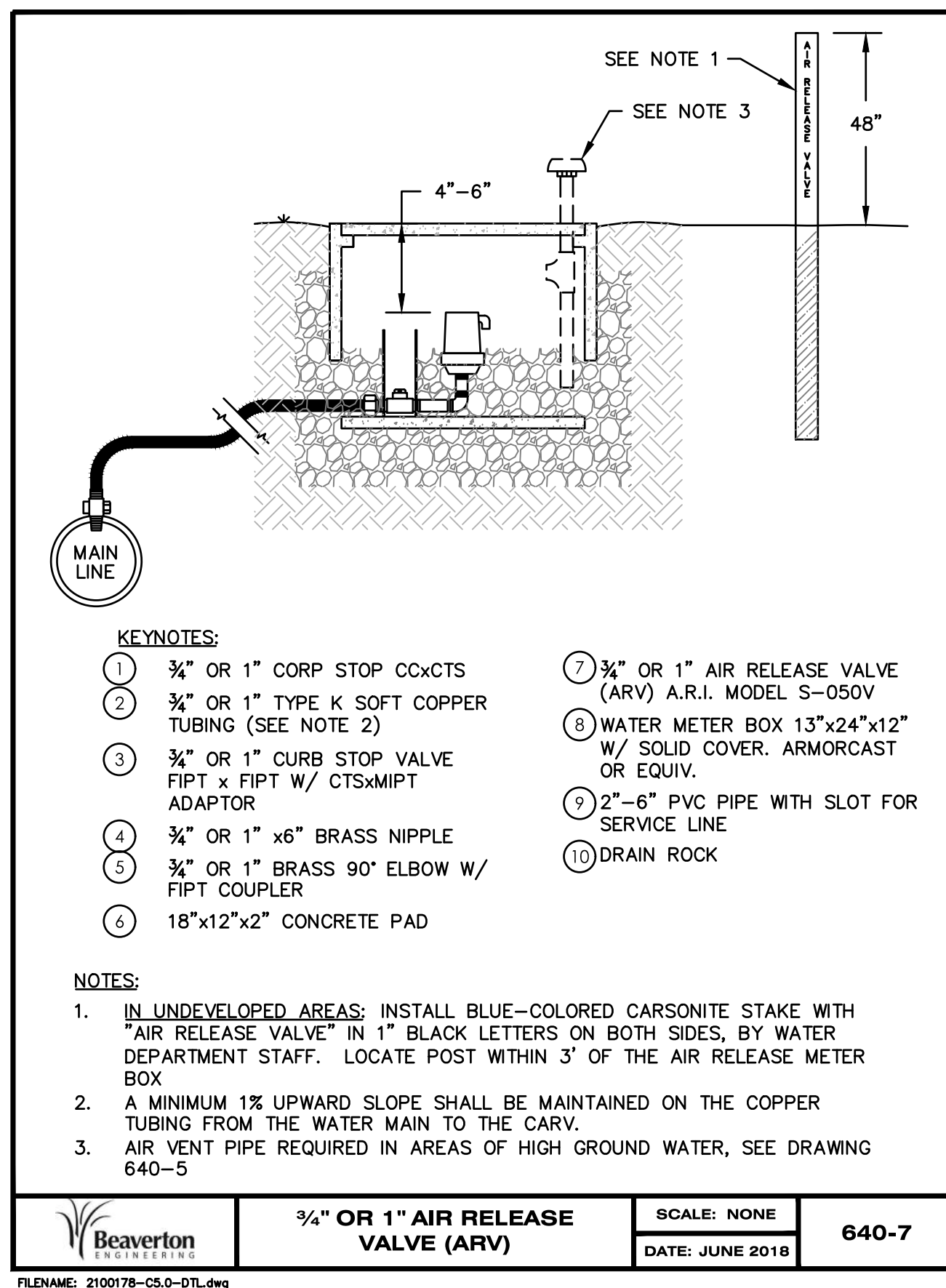
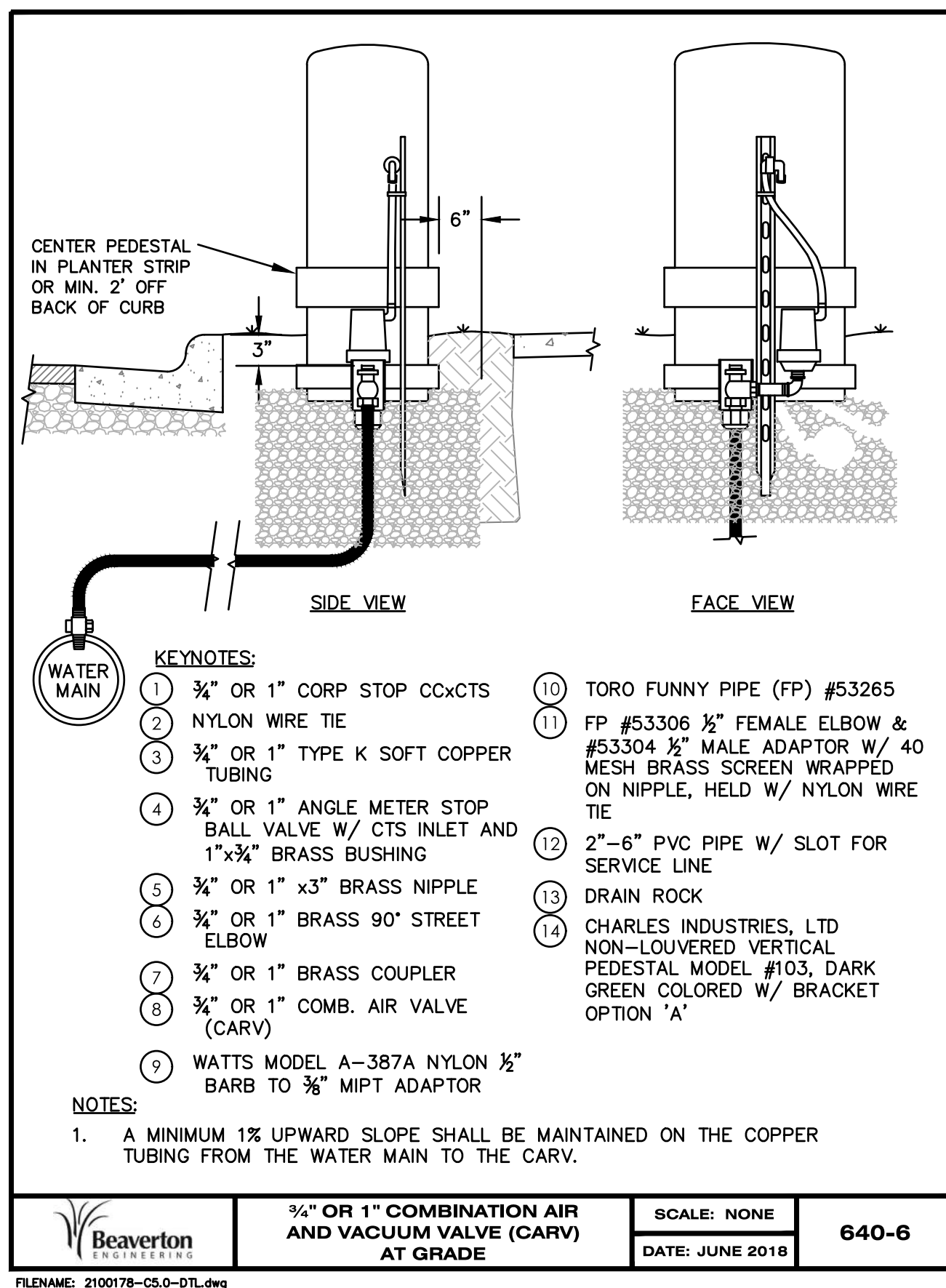
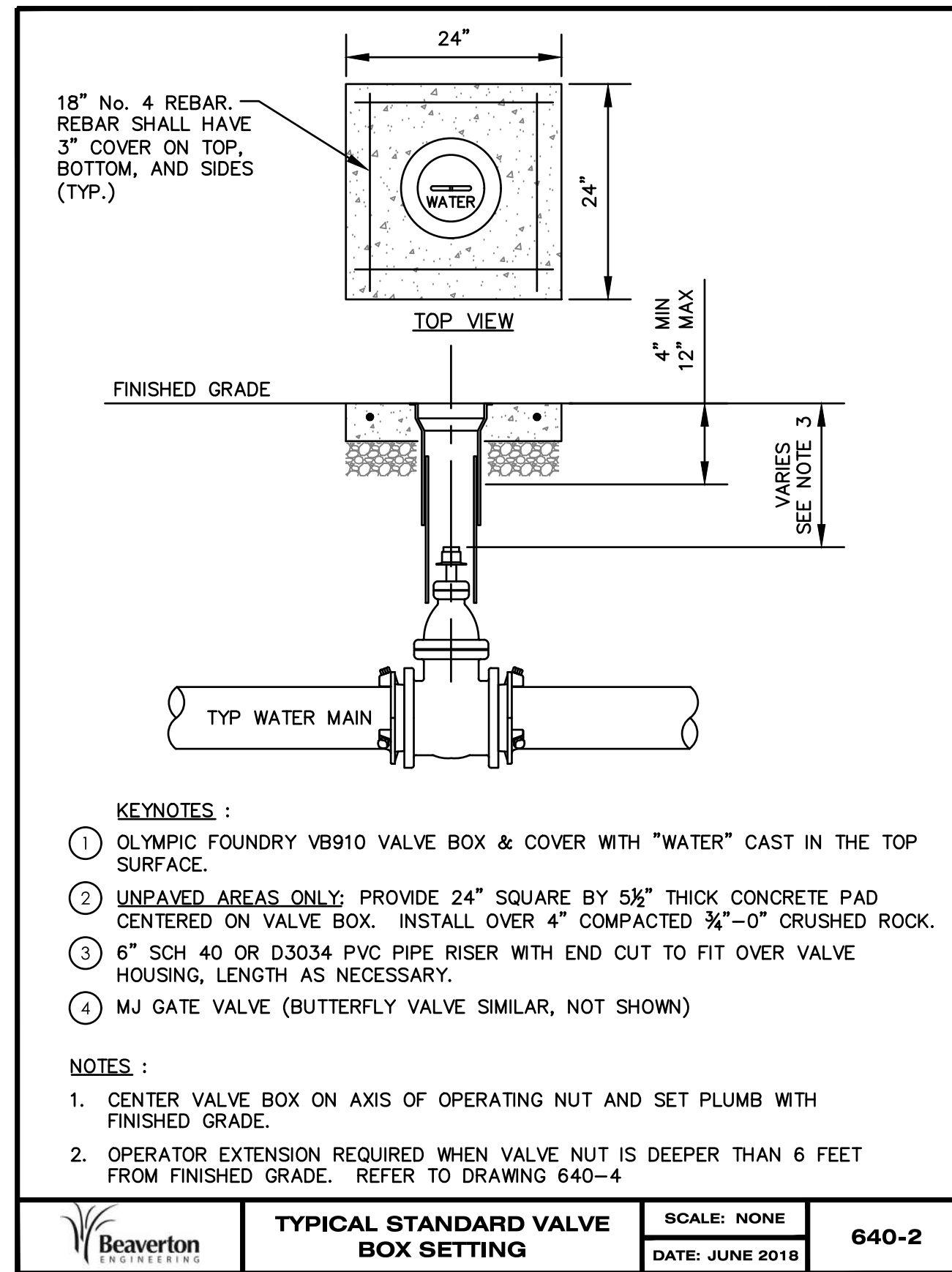
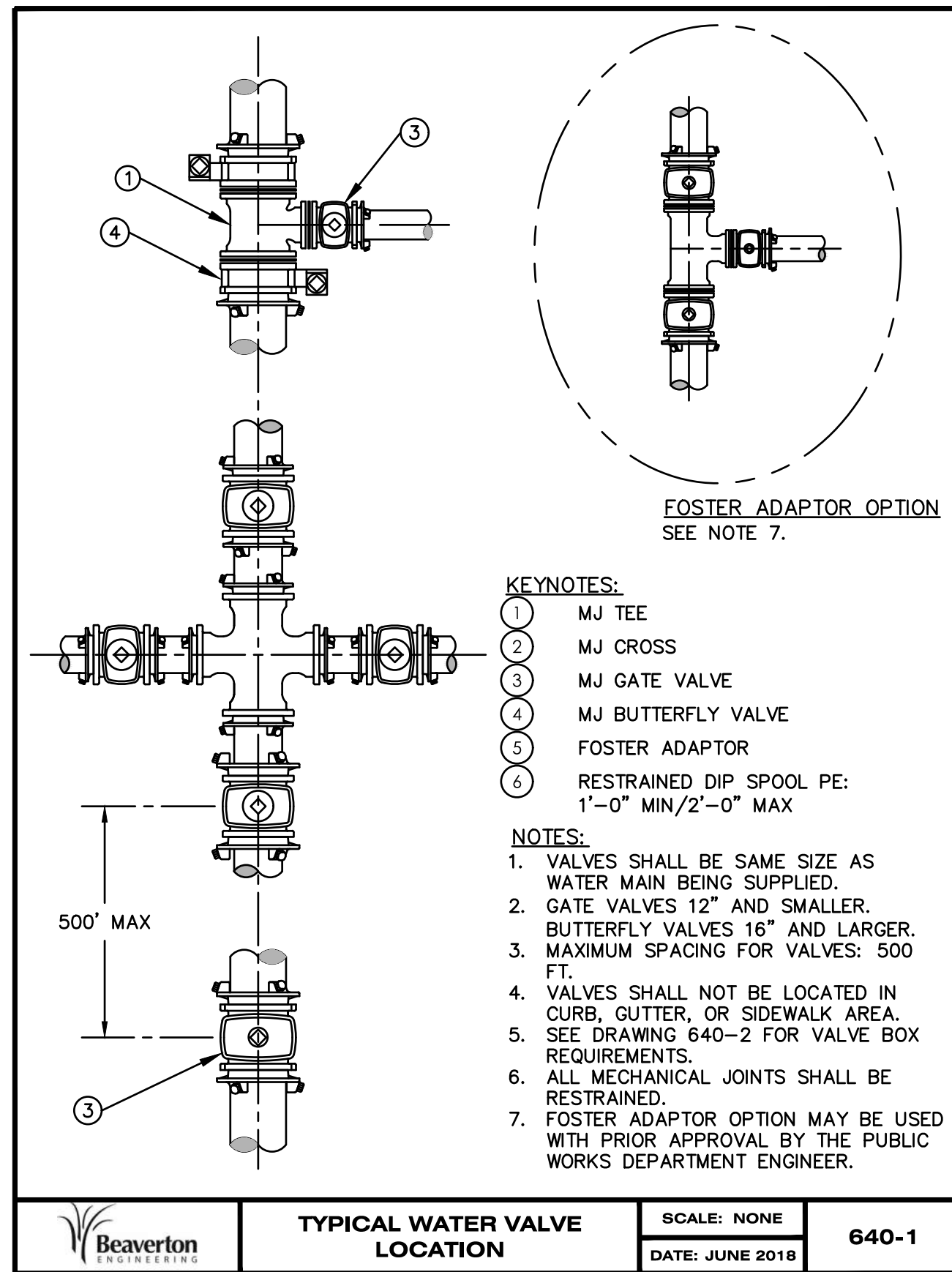
VERTICAL BEND

FITTING SIZE	REBAR SIZE	EMBEDMENT
4"-12"	#6	30"
14"-16"	#8	36"

NOTES:

- ALL PIPE FITTING TEES, BENDS, AND DEAD ENDS SHALL BE RESTRAINED BY CONCRETE THRUST BLOCKING OR MECHANICAL PIPE JOINT RESTRAINTS.
- CONCRETE THRUST BLOCKING OR STRADDLE BLOCKS SHALL BE USED ONLY ON EXISTING PIPES WITH NO MECHANICAL RESTRAINTS OR AT LOCATIONS WHERE MECHANICAL PIPE JOINT RESTRAINTS ARE NOT FEASIBLE. PRIOR APPROVAL BY WATER OPERATIONS IS REQUIRED. SEE DRAWING 630-8 FOR STRADDLE BLOCK REQUIREMENTS.
- ALL CONCRETE THRUST BLOCKING SHALL BE POURED AGAINST UNDISTURBED EARTH.
- ALL CONCRETE SHALL BE CLASS 3000.
- INSTALL MINIMUM 8-MIL TOTAL THICKNESS POLYETHYLENE SHEET AROUND FITTING. SECURE SHEET ENDS TO PREVENT INFILTRATION OF DIRT BETWEEN SHEET AND PIPE FITTING PRIOR TO POURING CONCRETE.
- PROTECT MECHANICAL JOINT FOLLOWERS AND BOLTS FROM CONCRETE WITH TEMPORARY FORMS AND POLYETHYLENE SHEETING - SEE NOTE 5.
- ANY FIELD MIXING OF CONCRETE SHALL BE APPROVED BY WATER OPERATIONS.

SCALE: NONE DATE: JUNE 2018 **630-9**



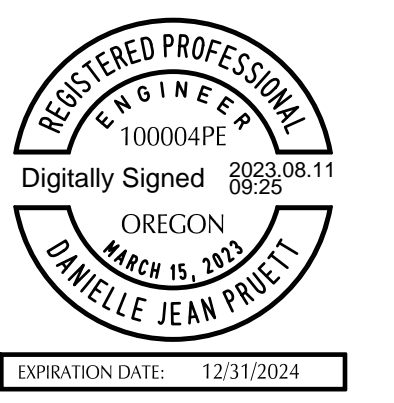
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BEAVERTON HIGH SCHOOL REBUILD

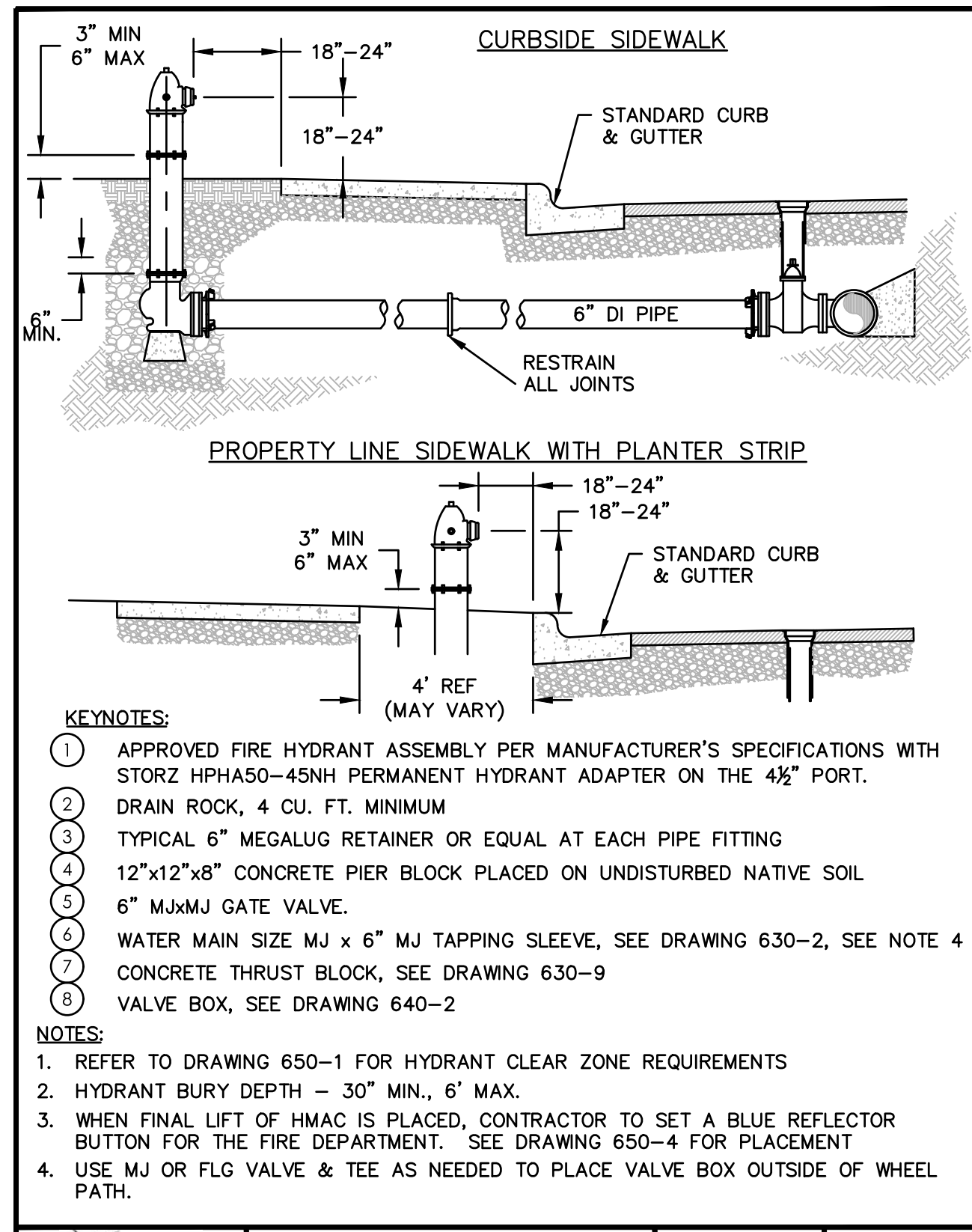
13000 SW 2ND STREET
BEAVERTON, OREGON 97005

BEAVERTON SCHOOL DISTRICT

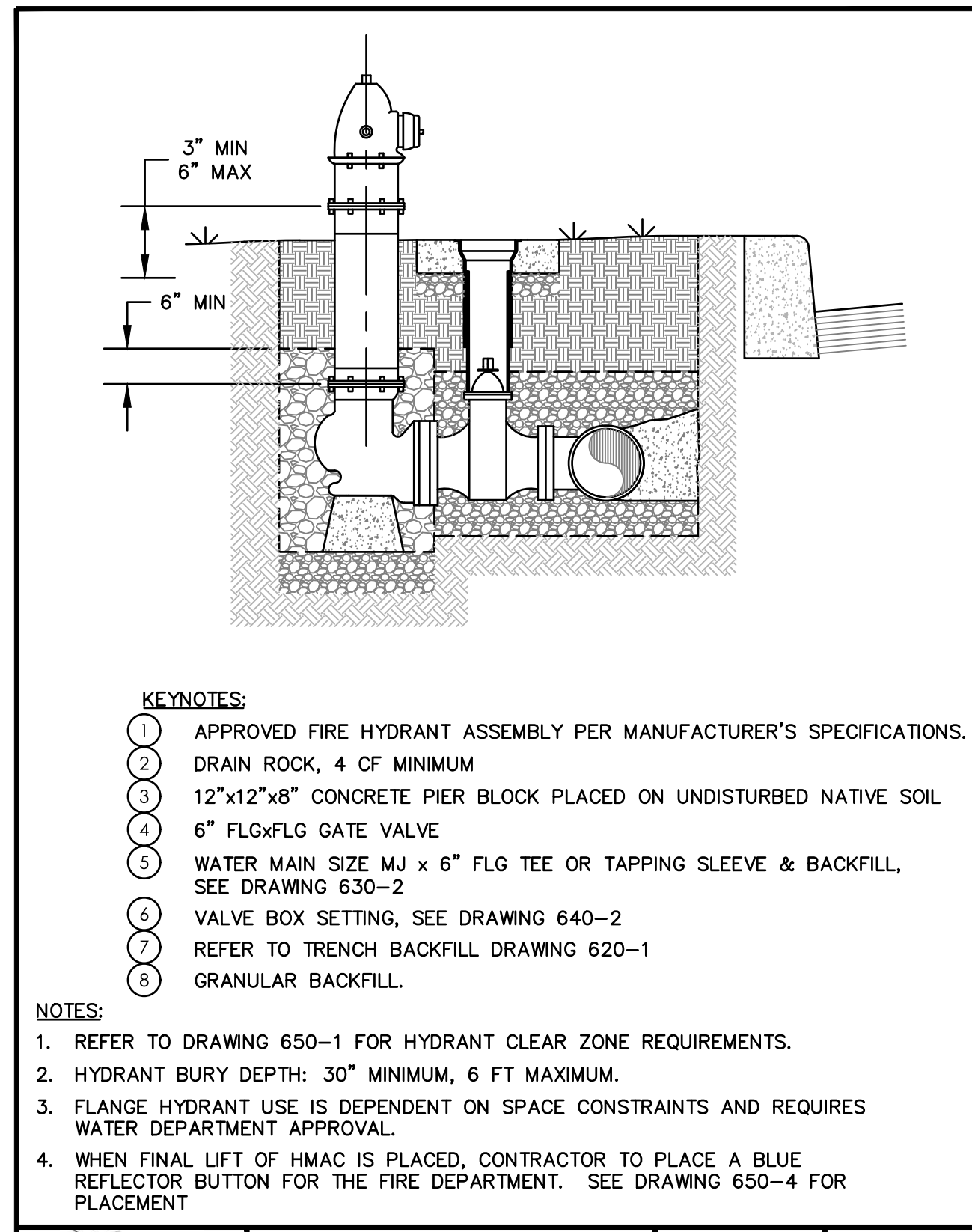
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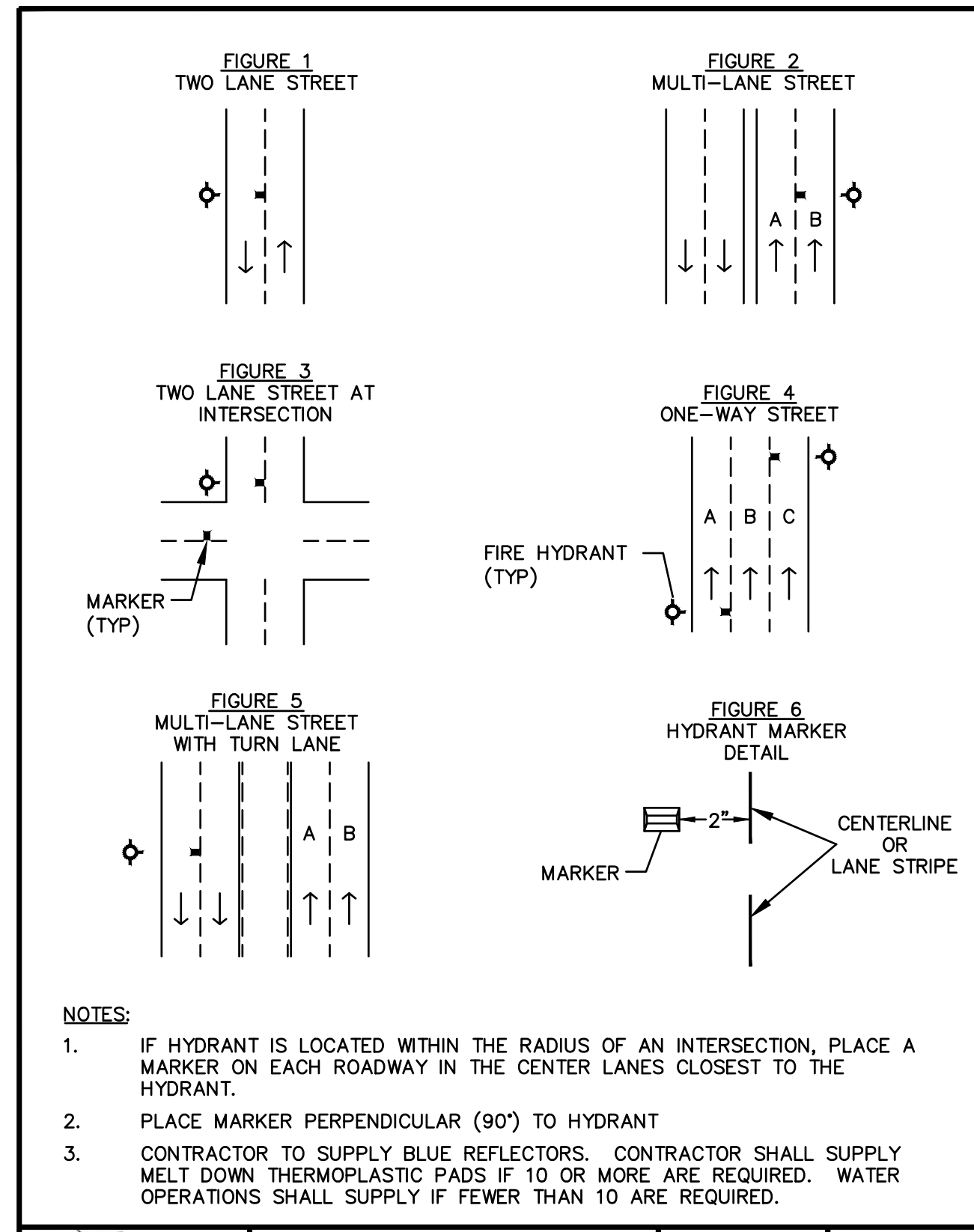
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date	08/11/2023
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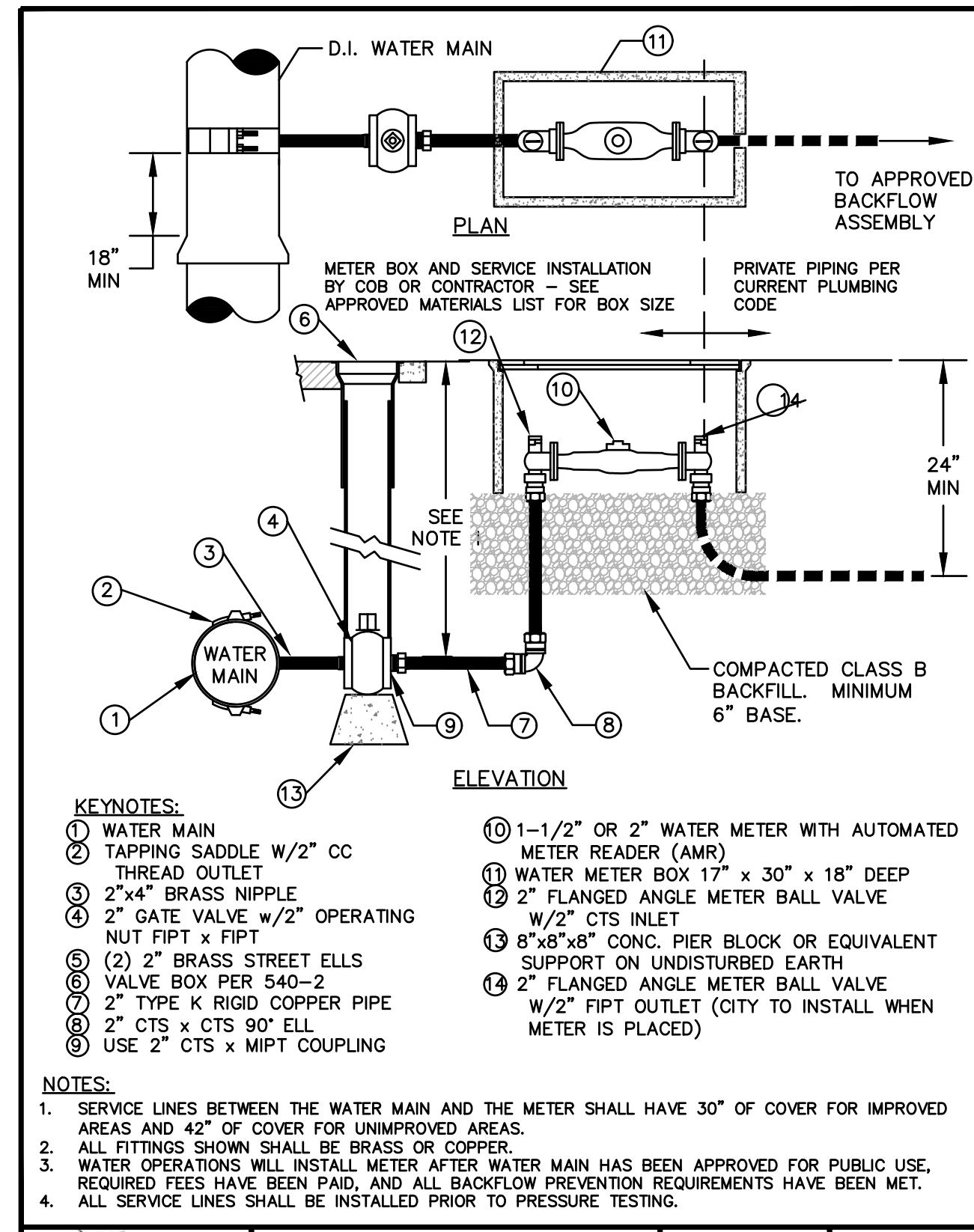
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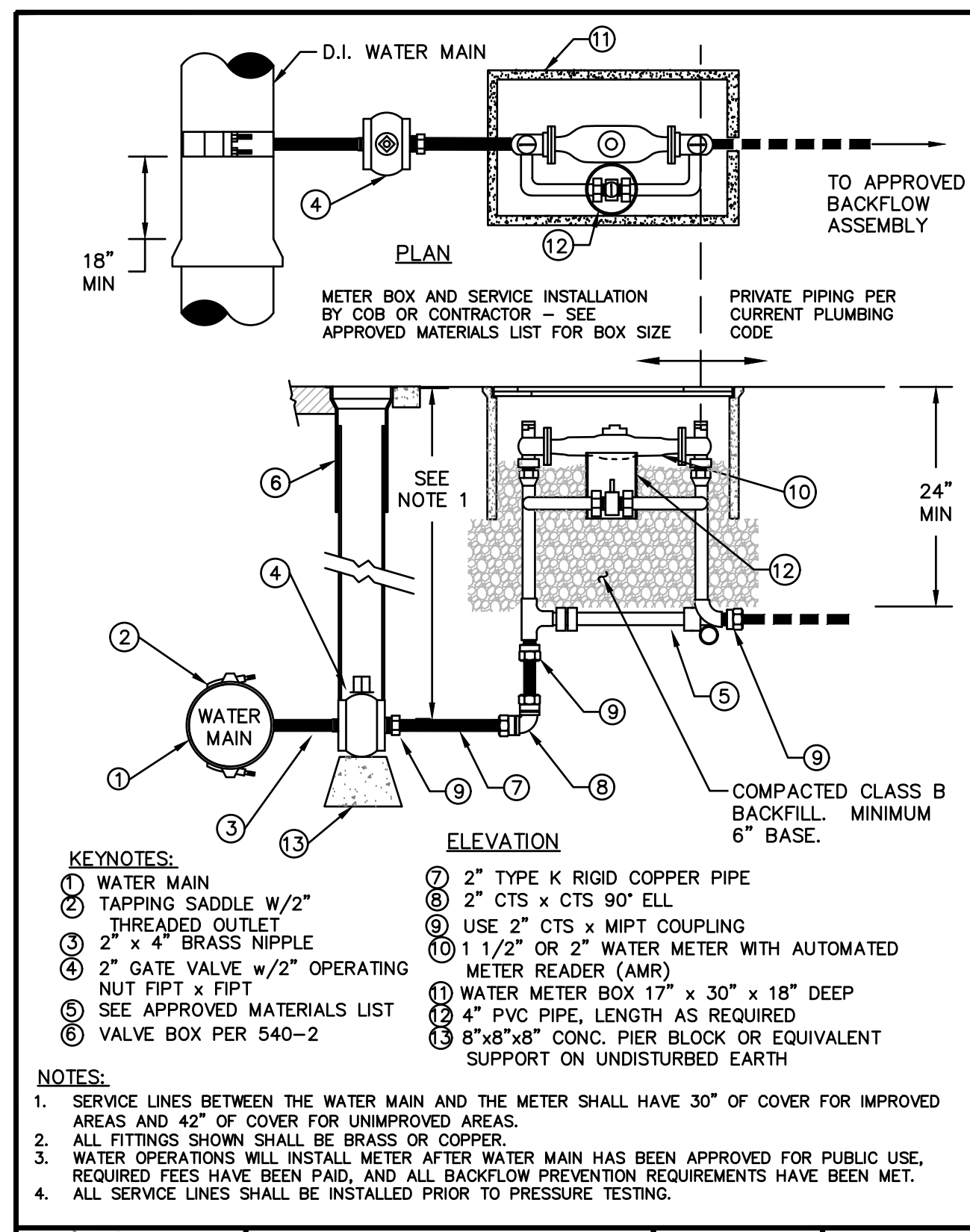
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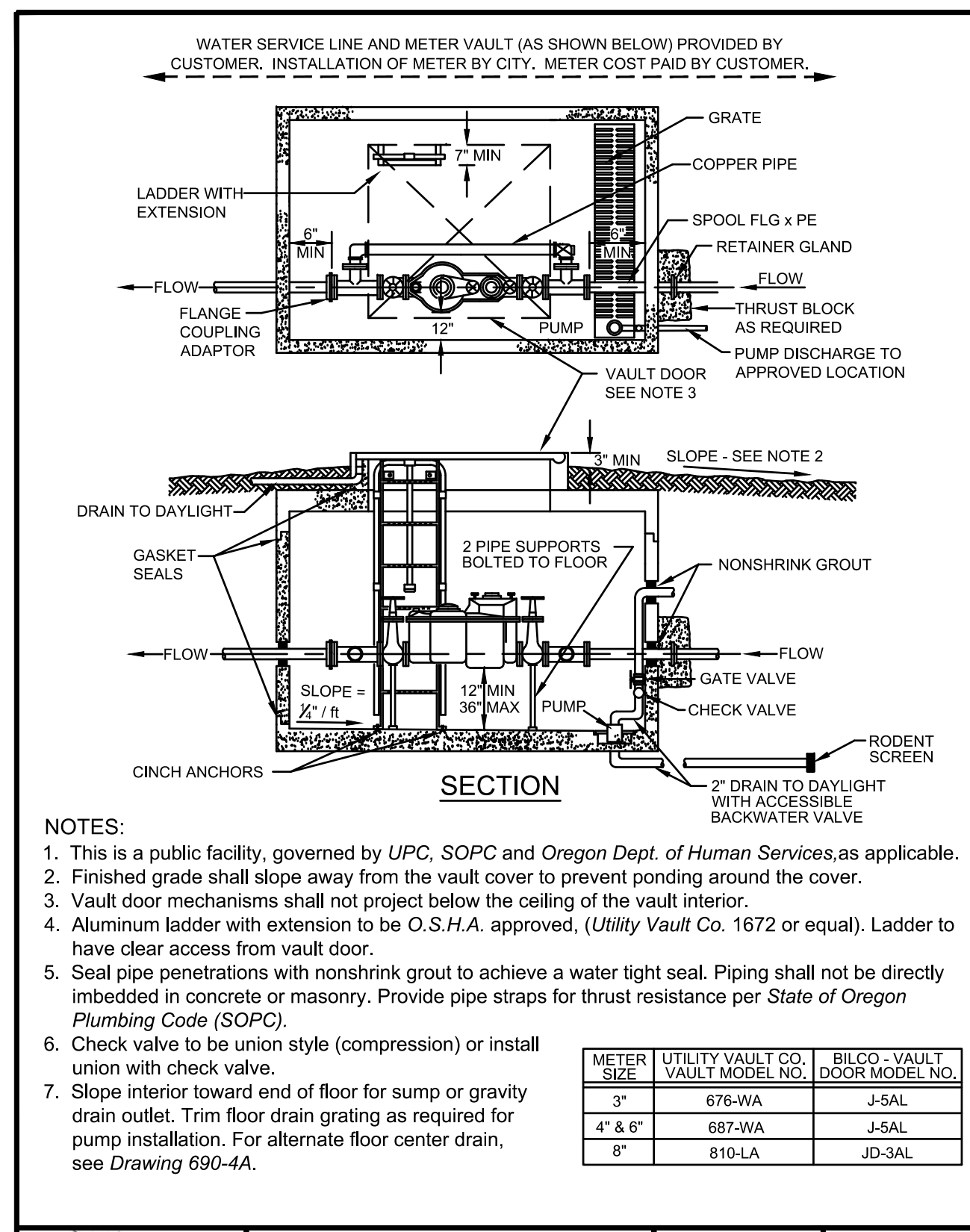
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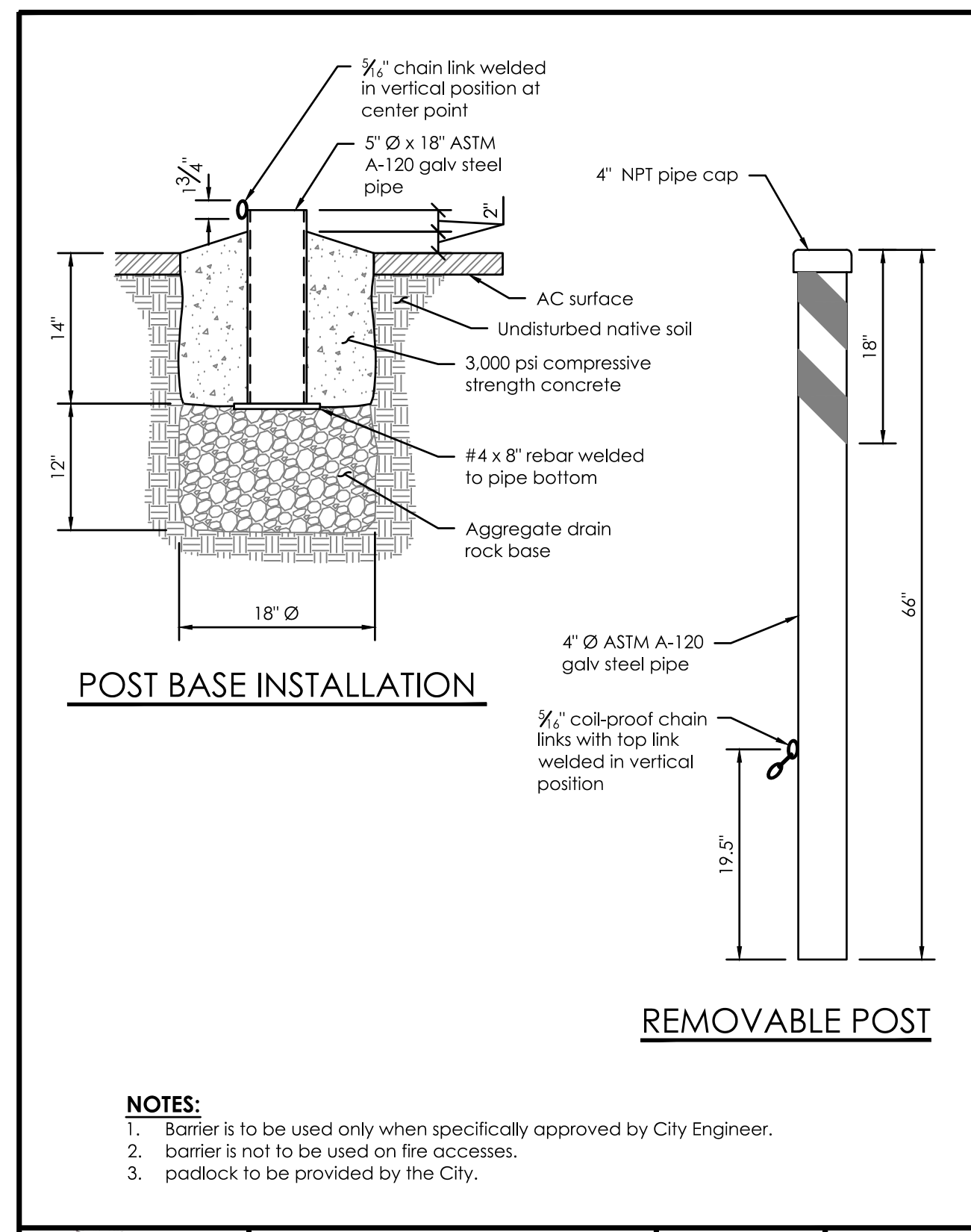
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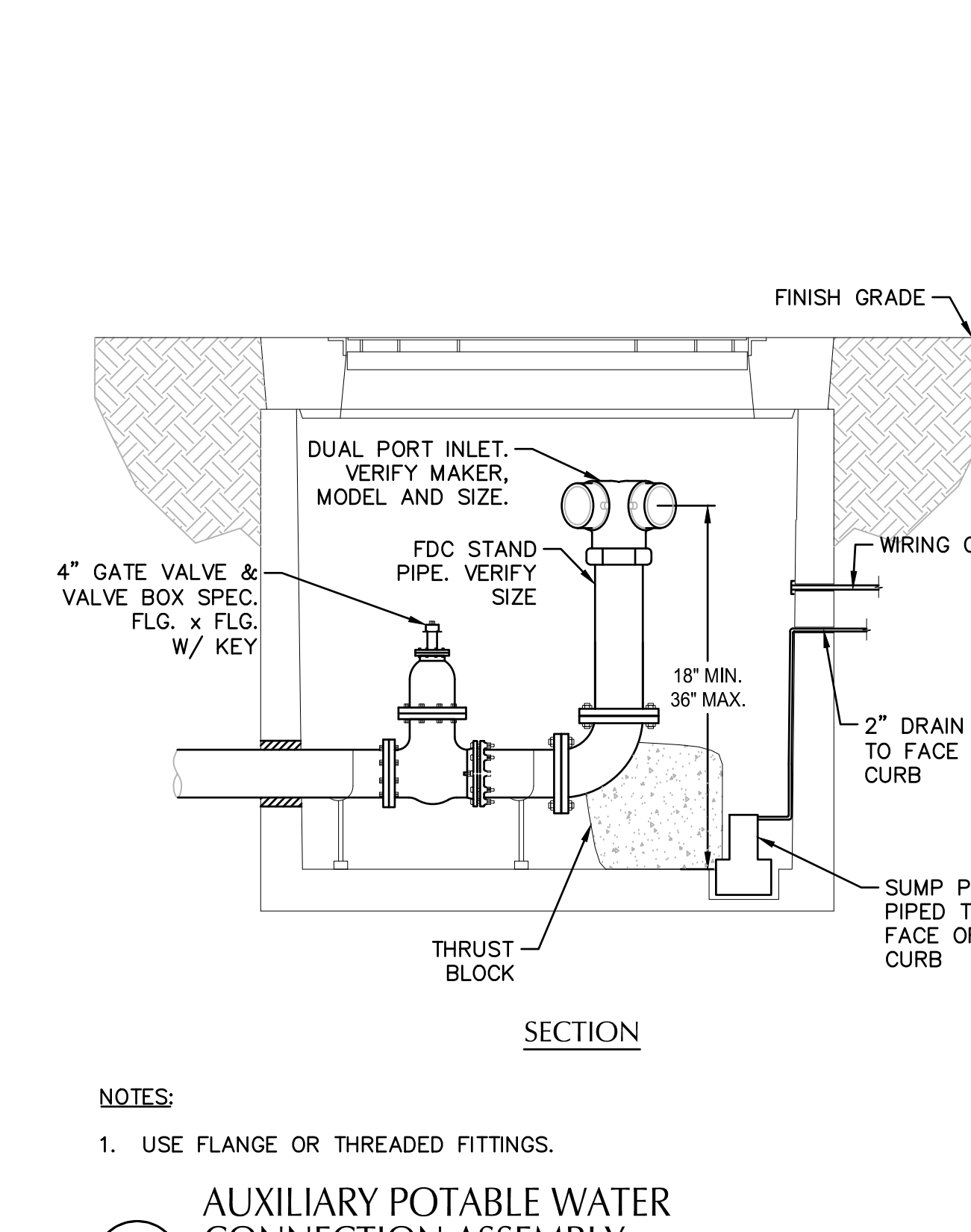
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Beaverton ENGINEERING	COMPOUND WATER METER VAULT	SCALE: NONE	670-3
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Beaverton ENGINEERING	REMOVABLE VEHICLE BARRIER POST	SCALE: NONE	715
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Beaverton ENGINEERING	AUXILIARY POTABLE WATER CONNECTION ASSEMBLY	SCALE: NTS	1
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