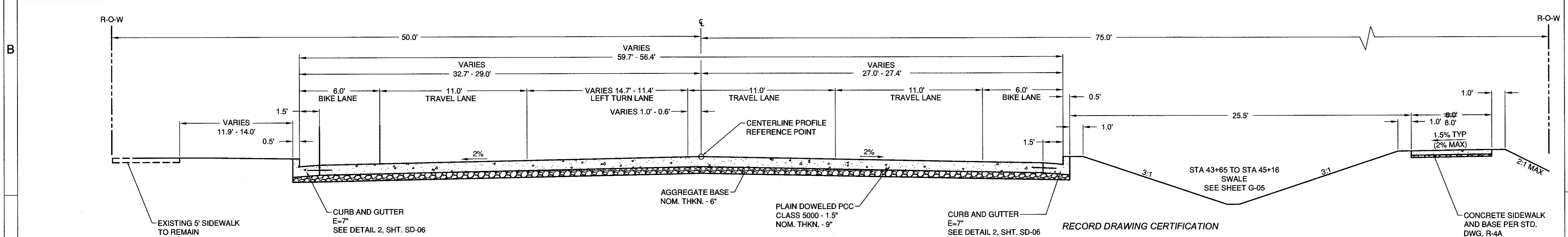
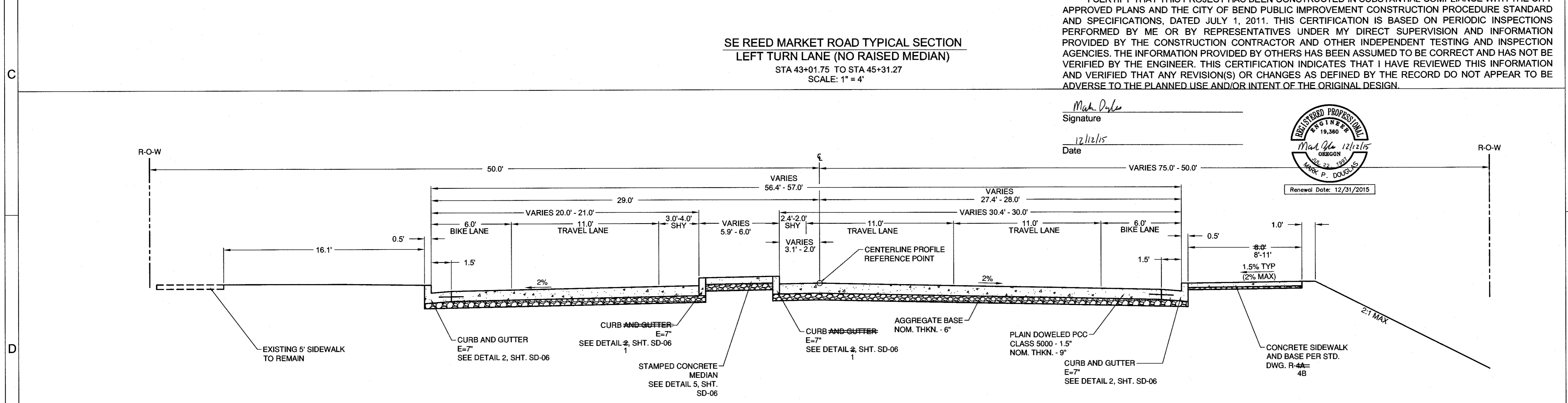


**SE REED MARKET ROAD TYPICAL SECTION
NO TURN LANE (OFFSET RAISED MEDIAN)**
STA 42+01.75 TO STA 43+01.75
SCALE: 1" = 4'



**SE REED MARKET ROAD TYPICAL SECTION
LEFT TURN LANE (NO RAISED MEDIAN)**
STA 43+01.75 TO STA 45+31.27
SCALE: 1" = 4'

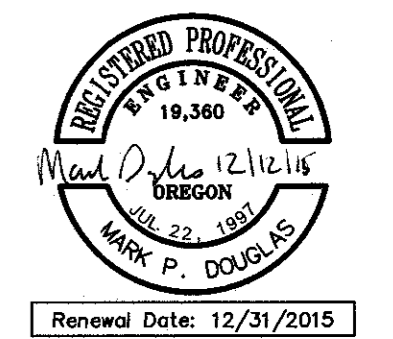
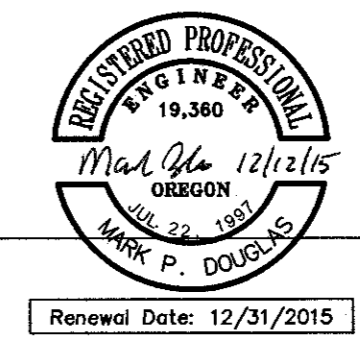


**SE REED MARKET ROAD TYPICAL SECTION
NO TURN LANE (OFFSET RAISED MEDIAN)**
STA 45+31.27 TO STA 47+37.23
SCALE: 1" = 4'

RECORD DRAWING CERTIFICATION

I CERTIFY THAT THIS PROJECT HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE CITY APPROVED PLANS AND THE CITY OF BEND PUBLIC IMPROVEMENT CONSTRUCTION PROCEDURE STANDARD AND SPECIFICATIONS, DATED JULY 1, 2011. THIS CERTIFICATION IS BASED ON PERIODIC INSPECTIONS PERFORMED BY ME OR BY REPRESENTATIVES UNDER MY DIRECT SUPERVISION AND INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND OTHER INDEPENDENT TESTING AND INSPECTION AGENCIES. THE INFORMATION PROVIDED BY OTHERS HAS BEEN ASSUMED TO BE CORRECT AND HAS NOT BEEN VERIFIED BY THE ENGINEER. THIS CERTIFICATION INDICATES THAT I HAVE REVIEWED THIS INFORMATION AND VERIFIED THAT ANY REVISION(S) OR CHANGES AS DEFINED BY THE RECORD DO NOT APPEAR TO BE ADVERSE TO THE PLANNED USE AND/OR INTENT OF THE ORIGINAL DESIGN.

Mark P. Douglas
Signature
12/12/15
Date



**REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE**
TYPICAL SECTIONS
CITY OF BEND, OREGON



REVISIONS:	RECORD DRAWING
1. MPD 12/09/2015	
2.	
3.	

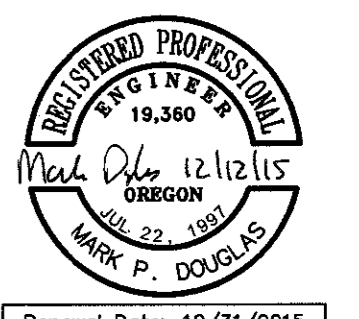
HWA SURVEYORS, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC.
4230 O.A. RIET ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541.389.9351 FAX: 541.386.5416

DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

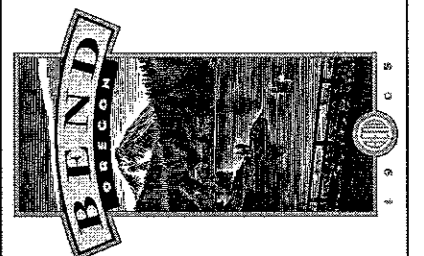
VERIFY SCALES
0 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET:
C-08

COB # ST12CJ



REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
TYPICAL SECTIONS
CITY OF BEND, OREGON



REVISIONS:

1.	MPD 12/09/2015
2.	RECORD DRAWING
3.	

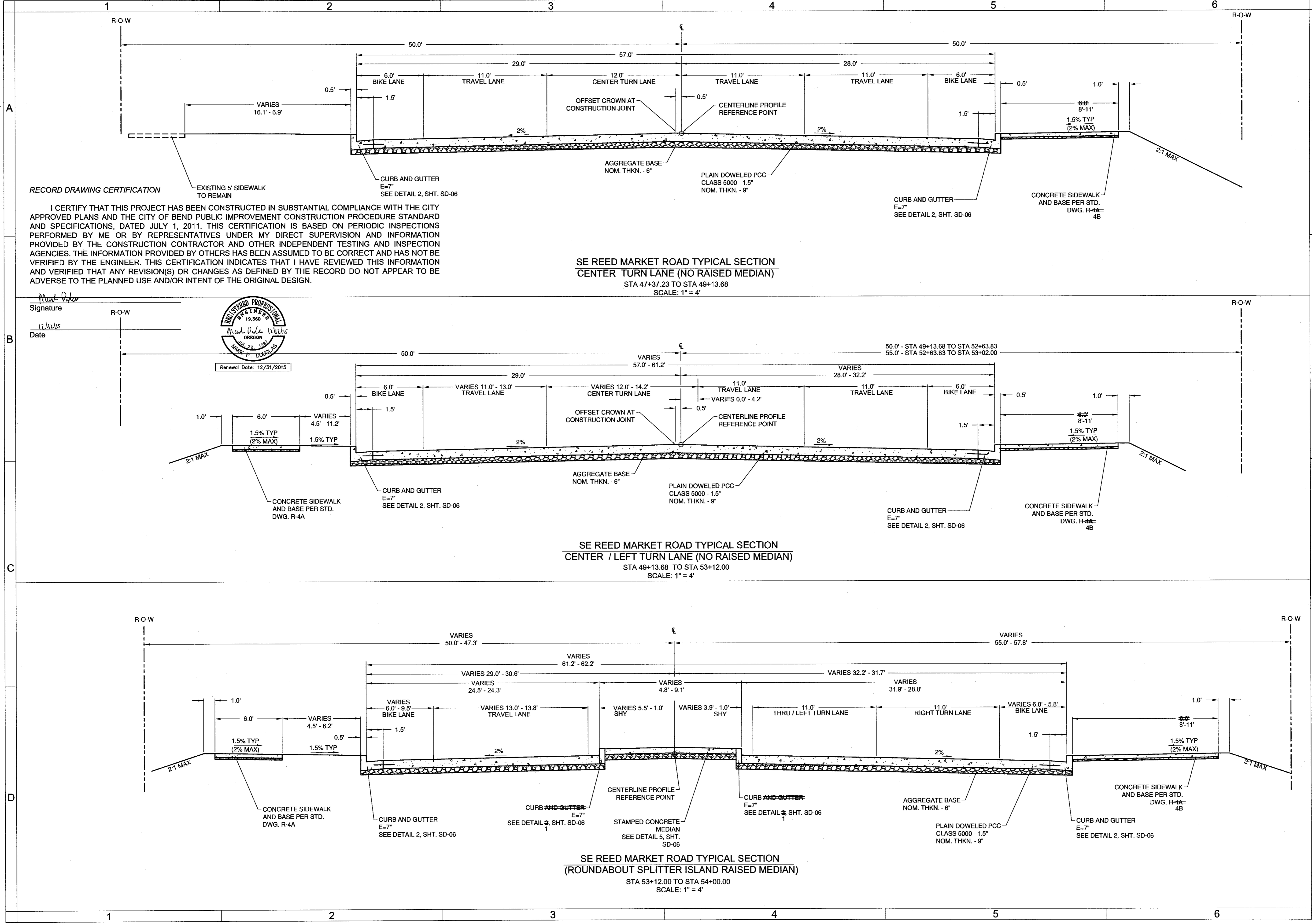
HWA SURVEYOR, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC.
4230 O.E. RILEY ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541.389.9381 FAX: 541.388.5416

DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

VERIFY SCALES
0 1" BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET: **C-09**

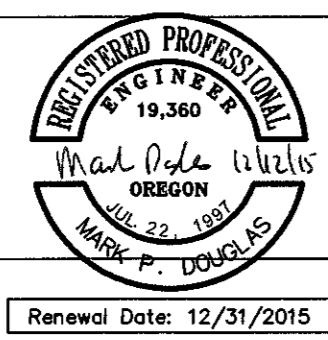
COB # ST12CJ

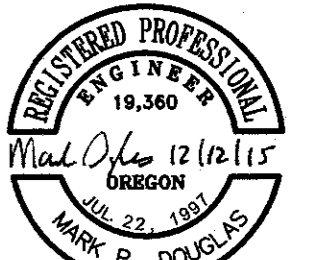


RECORD DRAWING CERTIFICATION

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Signature: *Mark P. Douglas*
Date: 12/15/15





RENEWAL DATE: 12/31/2015

REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
TYPICAL SECTIONS
CITY OF BEND, OREGON



REVISIONS:	1. M.D. 12/09/2015
	2. RECORD DRAWING
	3.

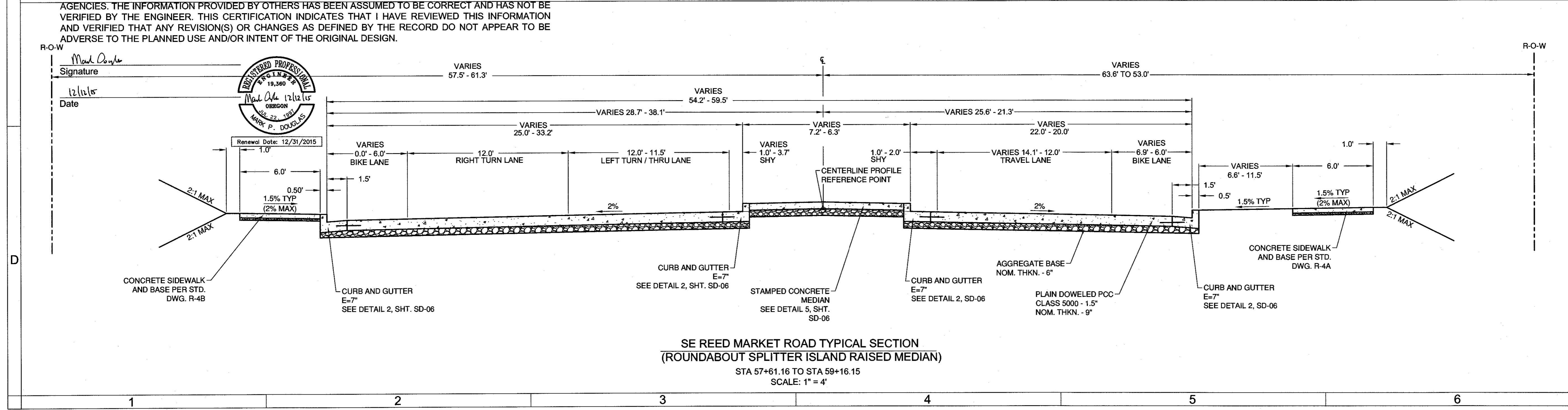
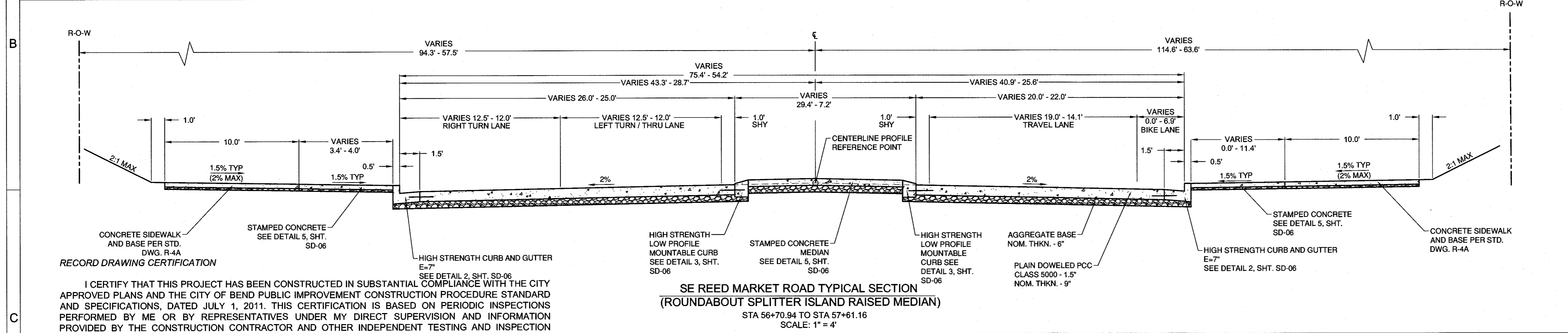
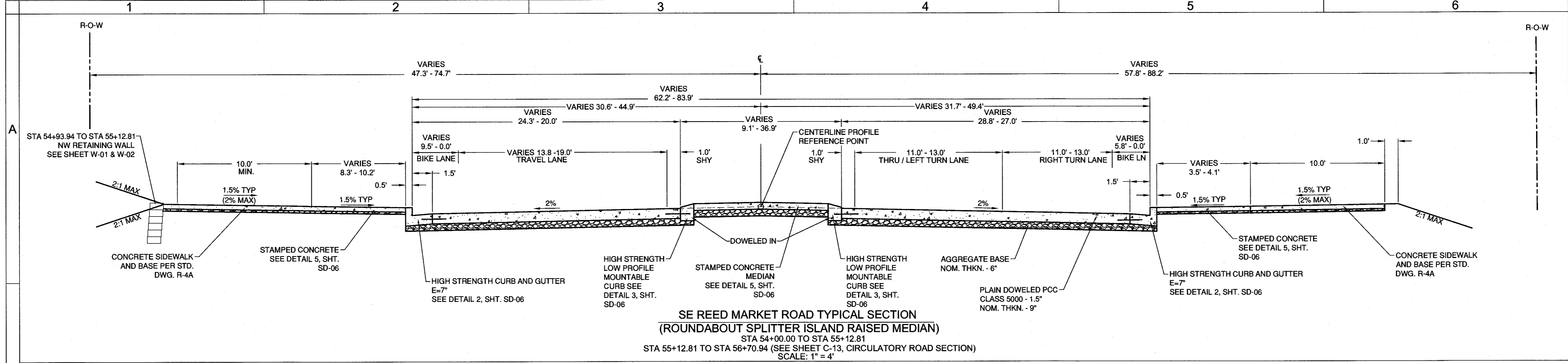
HWA
SURVEYORS, ENGINEERS
& PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC.
4290 O.E. RUFF ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541.389.9381 FAX: 541.389.5416

DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

VERIFY SCALES
0 1"
BAR EQUALS ONE INCH
ON ORIGINAL DRAWING

SHEET: C-10

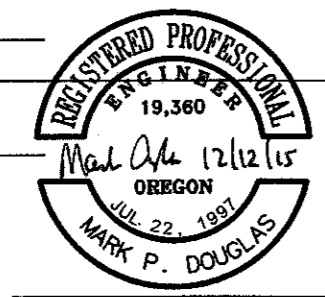
COB # ST12CJ

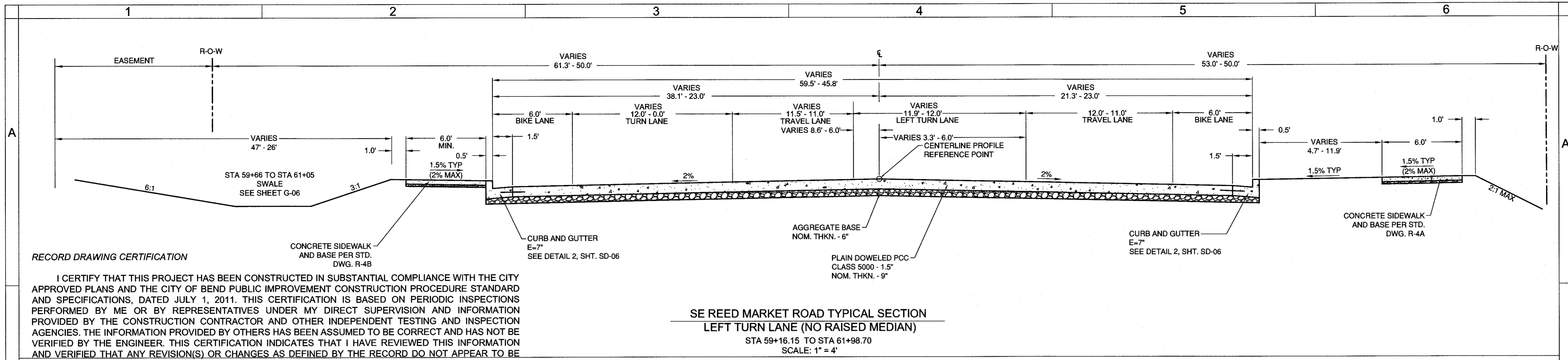


RECORD DRAWING CERTIFICATION

I CERTIFY THAT THIS PROJECT HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE CITY APPROVED PLANS AND THE CITY OF BEND PUBLIC IMPROVEMENT CONSTRUCTION PROCEDURE STANDARD AND SPECIFICATIONS, DATED JULY 1, 2011. THIS CERTIFICATION IS BASED ON PERIODIC INSPECTIONS PERFORMED BY ME OR BY REPRESENTATIVES UNDER MY DIRECT SUPERVISION AND INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND OTHER INDEPENDENT TESTING AND INSPECTION AGENCIES. THE INFORMATION PROVIDED BY OTHERS HAS BEEN ASSUMED TO BE CORRECT AND HAS NOT BEEN VERIFIED BY THE ENGINEER. THIS CERTIFICATION INDICATES THAT I HAVE REVIEWED THIS INFORMATION AND VERIFIED THAT ANY REVISION(S) OR CHANGES AS DEFINED BY THE RECORD DO NOT APPEAR TO BE ADVERSE TO THE PLANNED USE AND/OR INTENT OF THE ORIGINAL DESIGN.

Signature: *Mark Doyle*
Date: 12/16/15



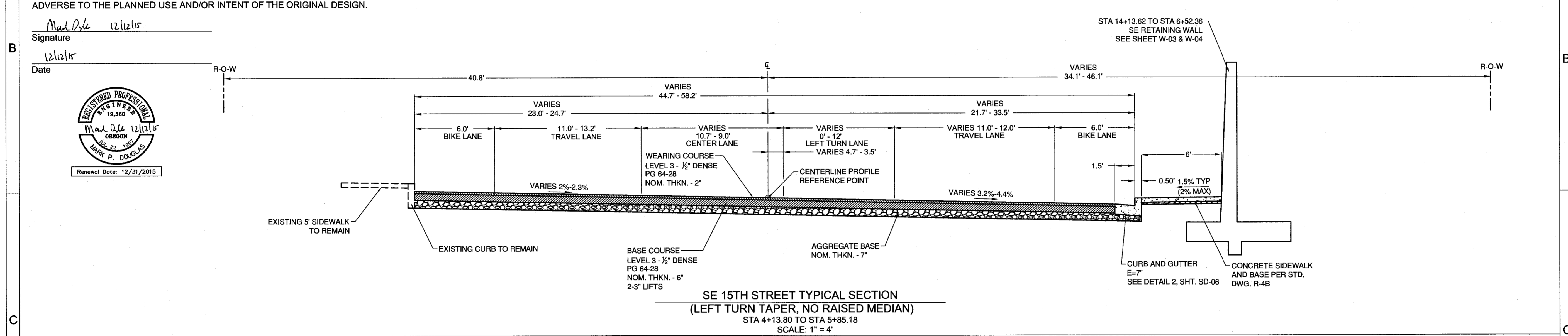
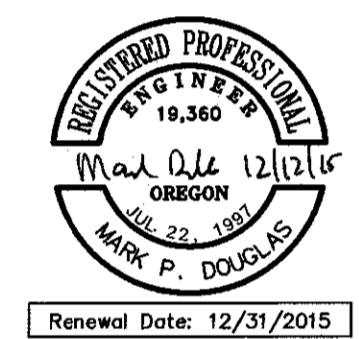


SE REED MARKET ROAD TYPICAL SECTION
 LEFT TURN LANE (NO RAISED MEDIAN)
 STA 59+16.15 TO STA 61+98.70
 SCALE: 1" = 4'

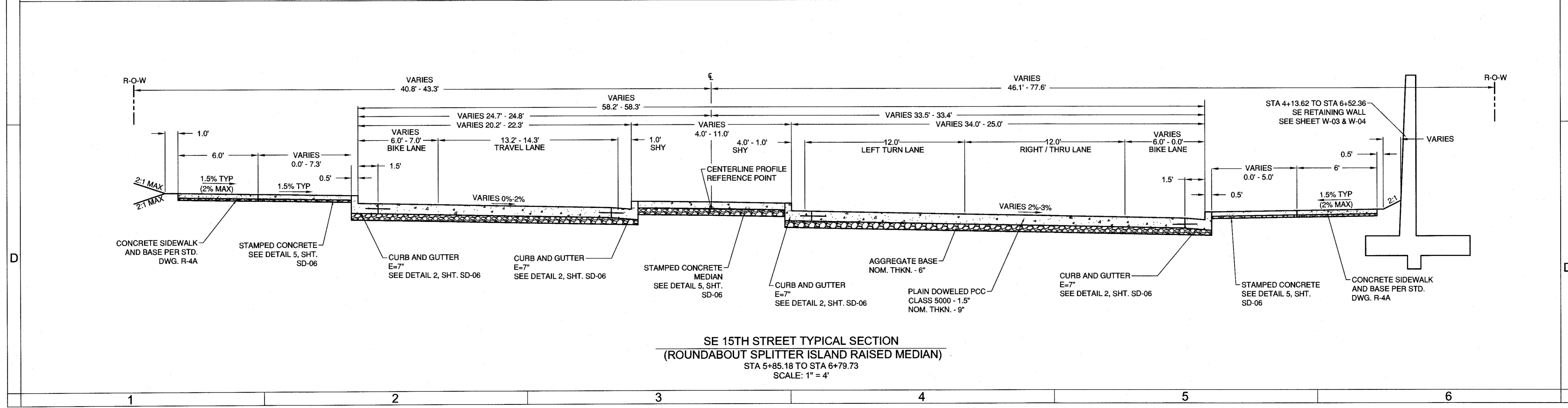
RECORD DRAWING CERTIFICATION

I CERTIFY THAT THIS PROJECT HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE CITY APPROVED PLANS AND THE CITY OF BEND PUBLIC IMPROVEMENT CONSTRUCTION PROCEDURE STANDARD AND SPECIFICATIONS, DATED JULY 1, 2011. THIS CERTIFICATION IS BASED ON PERIODIC INSPECTIONS PERFORMED BY ME OR BY REPRESENTATIVES UNDER MY DIRECT SUPERVISION AND INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND OTHER INDEPENDENT TESTING AND INSPECTION AGENCIES. THE INFORMATION PROVIDED BY OTHERS HAS BEEN ASSUMED TO BE CORRECT AND HAS NOT BEEN VERIFIED BY THE ENGINEER. THIS CERTIFICATION INDICATES THAT I HAVE REVIEWED THIS INFORMATION AND VERIFIED THAT ANY REVISION(S) OR CHANGES AS DEFINED BY THE RECORD DO NOT APPEAR TO BE ADVERSE TO THE PLANNED USE AND/OR INTENT OF THE ORIGINAL DESIGN.

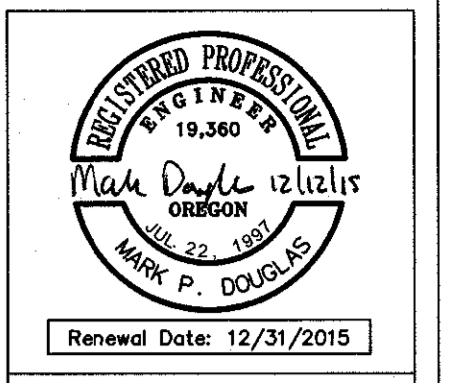
Signature: *Mark P. Douglas* 12/21/15
 Date: 12/21/15



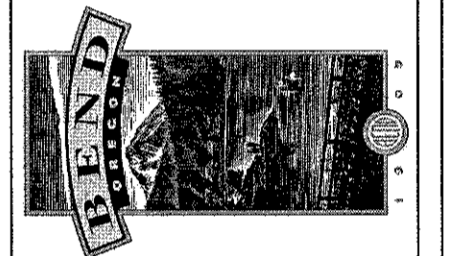
SE 15TH STREET TYPICAL SECTION
 (LEFT TURN TAPER, NO RAISED MEDIAN)
 STA 4+13.80 TO STA 5+85.18
 SCALE: 1" = 4'



SE 15TH STREET TYPICAL SECTION
 (ROUNDAABOUT SPLITTER ISLAND RAISED MEDIAN)
 STA 5+85.18 TO STA 6+79.73
 SCALE: 1" = 4'



REED MARKET ROAD
 3RD STREET TO NEWBERRY DRIVE
 TYPICAL SECTIONS
 CITY OF BEND, OREGON



REVISIONS:
 1. M.P.D. 12/09/2015 RECORD DRAWING
 2.
 3.

HWA
 SURVEYORS, ENGINEERS & PLANNERS
 HICKMAN, WILLIAMS & ASSOCIATES, INC.
 62750 O.E. MEYER ROAD, SUITE 100
 PHONE: 541.389.2351 FAX: 541.388.5414

DESIGNED BY: MD
 DRAWN BY: MD
 SCALE: AS SHOWN
 FILE: REED 15TH BASE
 DATE: 04/21/2014

VERIFY SCALES
 0 1"
 BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET: **C-11**
 COB # ST12CJ



Renewal Date: 12/31/2015

REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
TYPICAL SECTIONS
CITY OF BEND, OREGON



REVISIONS:
1. MFD 12/09/2015
RECORD DRAWING
2.
3.

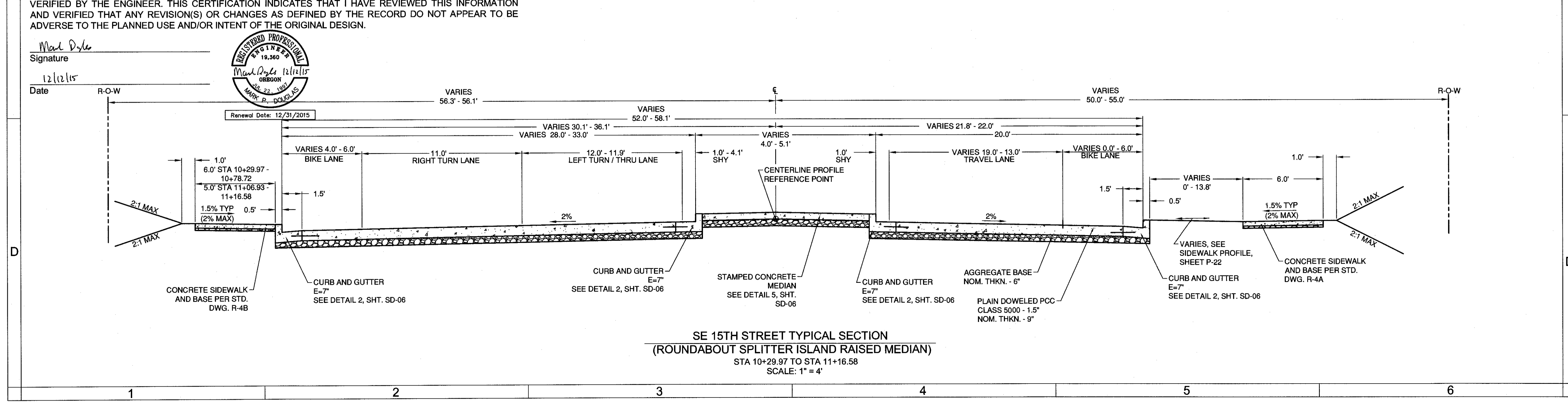
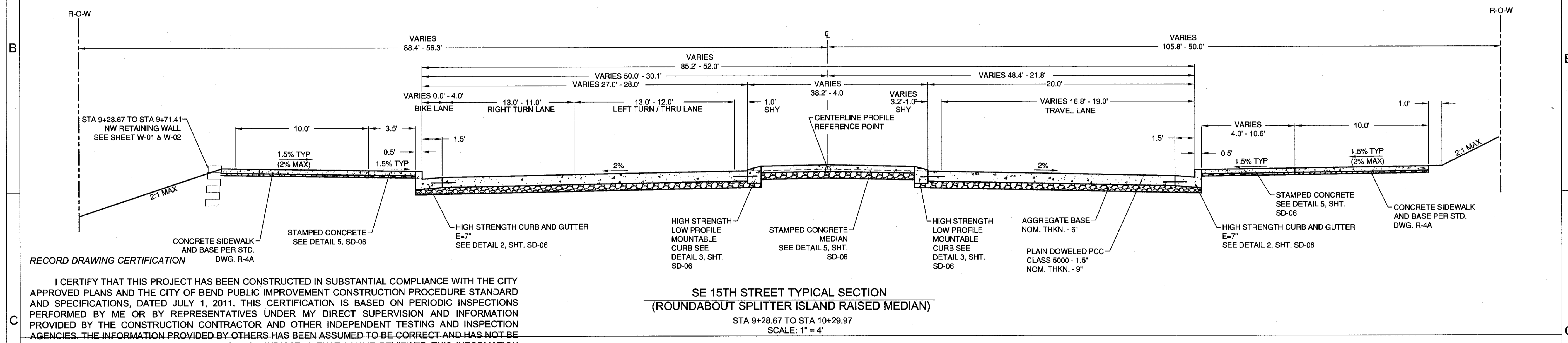
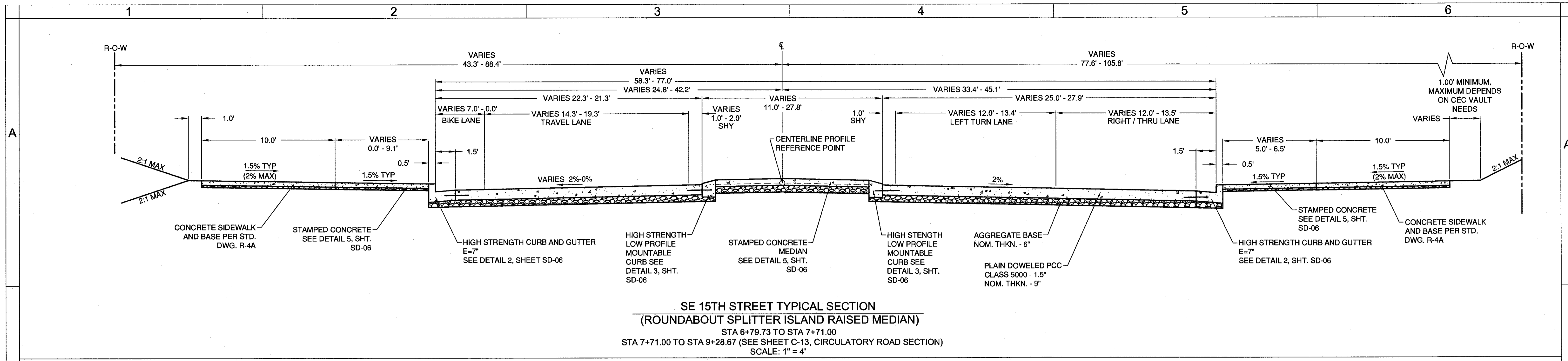
HWA
SURVEYORS, ENGINEERS
& PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC.
62730 O.B. FILEY ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541.387.9351 FAX: 541.388.5416

DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

VERIFY SCALES
0 1"
BAR EQUALS ONE INCH
ON ORIGINAL DRAWING

SHEET:
C-12

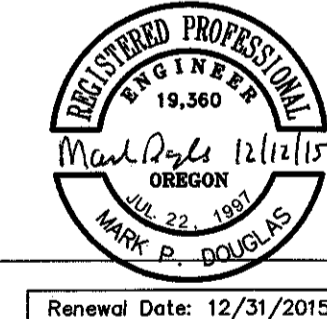
COB # ST12CJ



RECORD DRAWING CERTIFICATION

I CERTIFY THAT THIS PROJECT HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE CITY APPROVED PLANS AND THE CITY OF BEND PUBLIC IMPROVEMENT CONSTRUCTION PROCEDURE STANDARD AND SPECIFICATIONS, DATED JULY 1, 2011. THIS CERTIFICATION IS BASED ON PERIODIC INSPECTIONS PERFORMED BY ME OR BY REPRESENTATIVES UNDER MY DIRECT SUPERVISION AND INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND OTHER INDEPENDENT TESTING AND INSPECTION AGENCIES. THE INFORMATION PROVIDED BY OTHERS HAS BEEN ASSUMED TO BE CORRECT AND HAS NOT BEEN VERIFIED BY THE ENGINEER. THIS CERTIFICATION INDICATES THAT I HAVE REVIEWED THIS INFORMATION AND VERIFIED THAT ANY REVISION(S) OR CHANGES AS DEFINED BY THE RECORD DO NOT APPEAR TO BE ADVERSE TO THE PLANNED USE AND/OR INTENT OF THE ORIGINAL DESIGN.

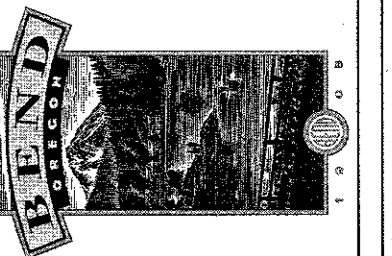
Signature: Mark Doyle
Date: 12/12/15



Renewal Date: 12/31/2015



REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
TYPICAL SECTIONS
CITY OF BEND, OREGON



REVISIONS:	1. M.P.D. 12/09/2015
	2. RECORD DRAWING
	3.

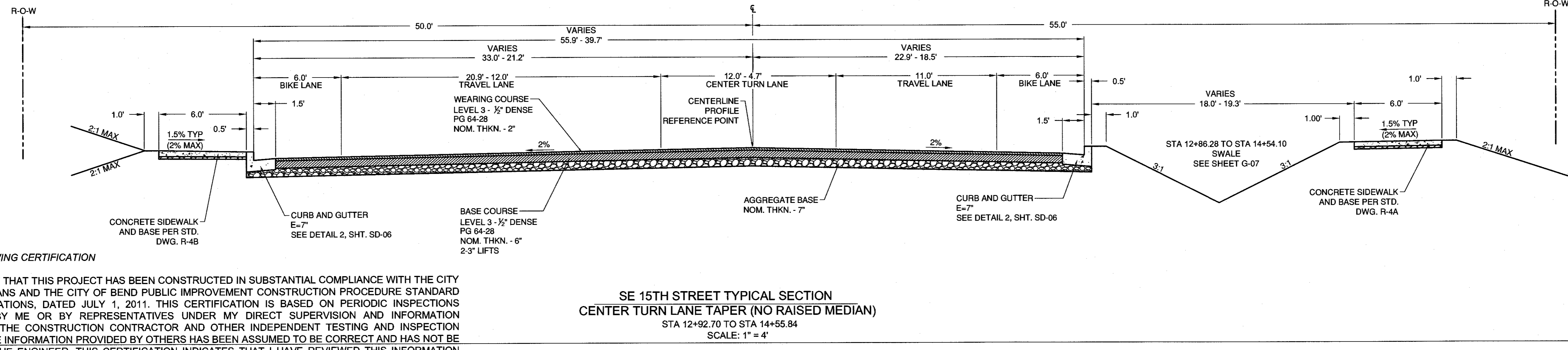
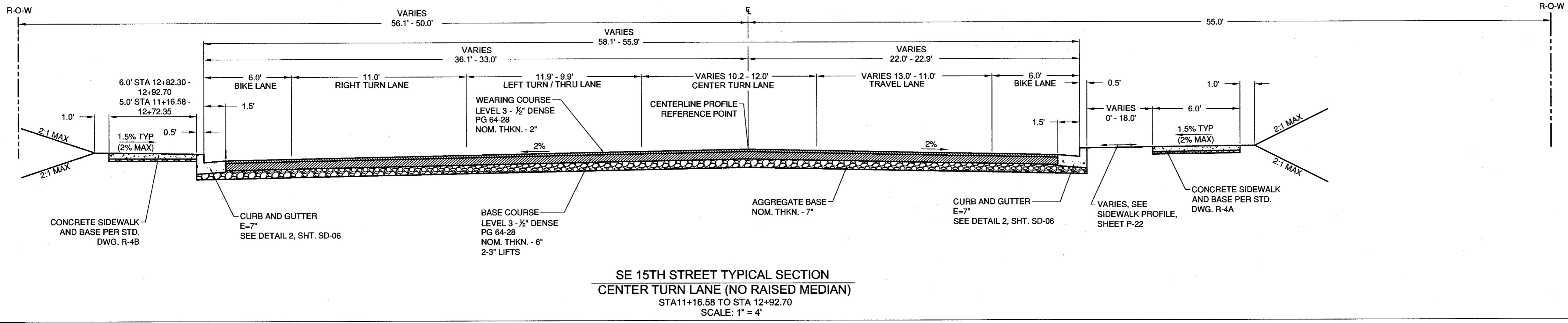
HWA
SURVEYORS, ENGINEERS
& PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC.
62930 O.B. FILEY ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541.387.5251 FAX: 541.388.5416

DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

VERIFY SCALES
0 1"
BAR EQUALS ONE INCH
ON ORIGINAL DRAWING

SHEET:
C-13

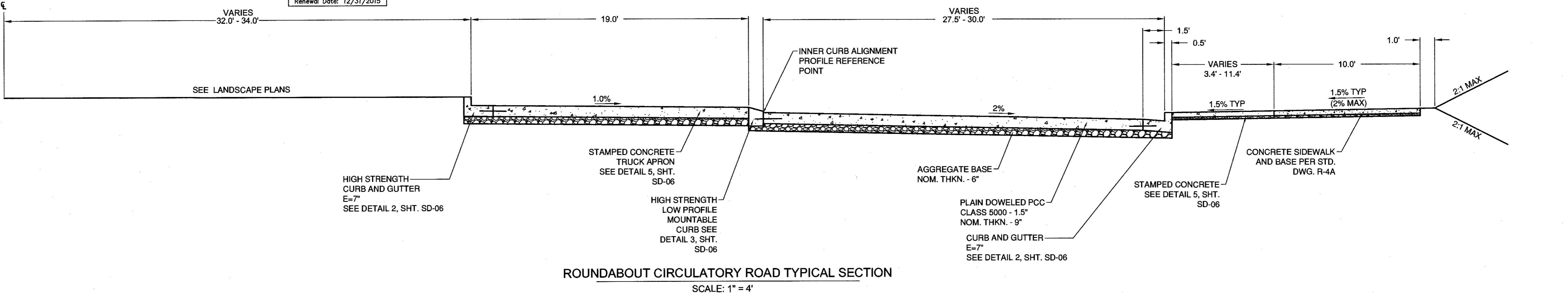
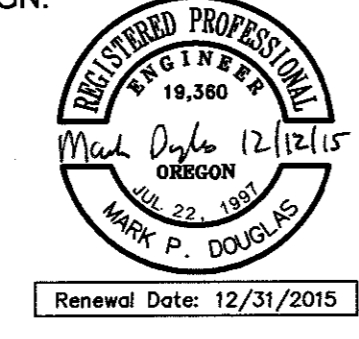
COB # ST12CJ

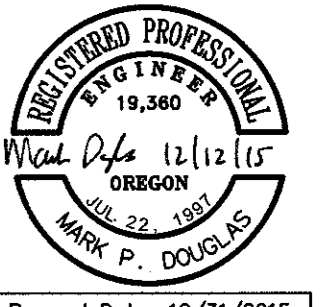


RECORD DRAWING CERTIFICATION

I CERTIFY THAT THIS PROJECT HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE CITY APPROVED PLANS AND THE CITY OF BEND PUBLIC IMPROVEMENT CONSTRUCTION PROCEDURE STANDARD AND SPECIFICATIONS, DATED JULY 1, 2011. THIS CERTIFICATION IS BASED ON PERIODIC INSPECTIONS PERFORMED BY ME OR BY REPRESENTATIVES UNDER MY DIRECT SUPERVISION AND INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND OTHER INDEPENDENT TESTING AND INSPECTION AGENCIES. THE INFORMATION PROVIDED BY OTHERS HAS BEEN ASSUMED TO BE CORRECT AND HAS NOT BEEN VERIFIED BY THE ENGINEER. THIS CERTIFICATION INDICATES THAT I HAVE REVIEWED THIS INFORMATION AND VERIFIED THAT ANY REVISION(S) OR CHANGES AS DEFINED BY THE RECORD DO NOT APPEAR TO BE ADVERSE TO THE PLANNED USE AND/OR INTENT OF THE ORIGINAL DESIGN.

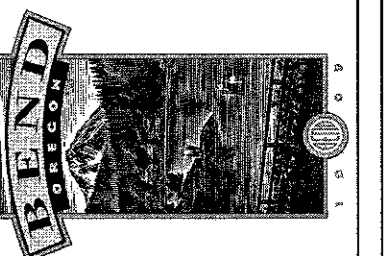
Mark Doyle
Signature
12/12/15
Date





Renewal Date: 12/31/2015

REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
TYPICAL SECTIONS
CITY OF BEND, OREGON



REVISIONS:

1.	MPD 12/09/2015	RECORD DRAWING
2.		
3.		

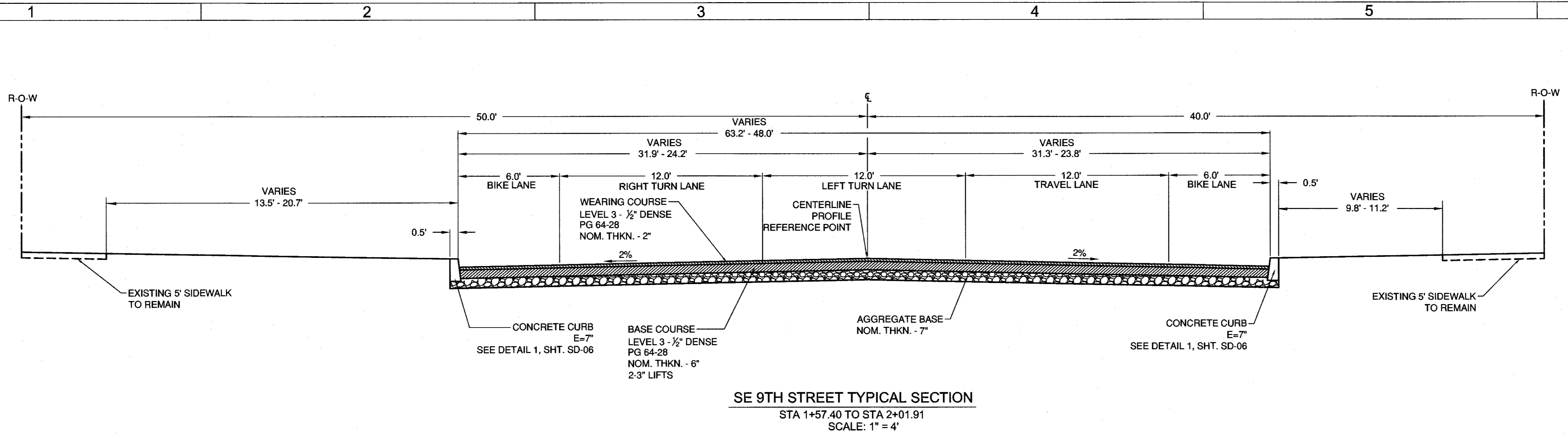
HWA
SURVEYORS, ENGINEERS
& PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC.
62930 O.E. RILEY ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541.388.7351 FAX: 541.388.5416

DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

VERIFY SCALES
0 1"
BAR EQUALS ONE INCH
ON ORIGINAL DRAWING

SHEET:
C-14

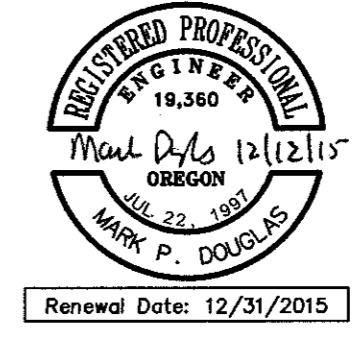
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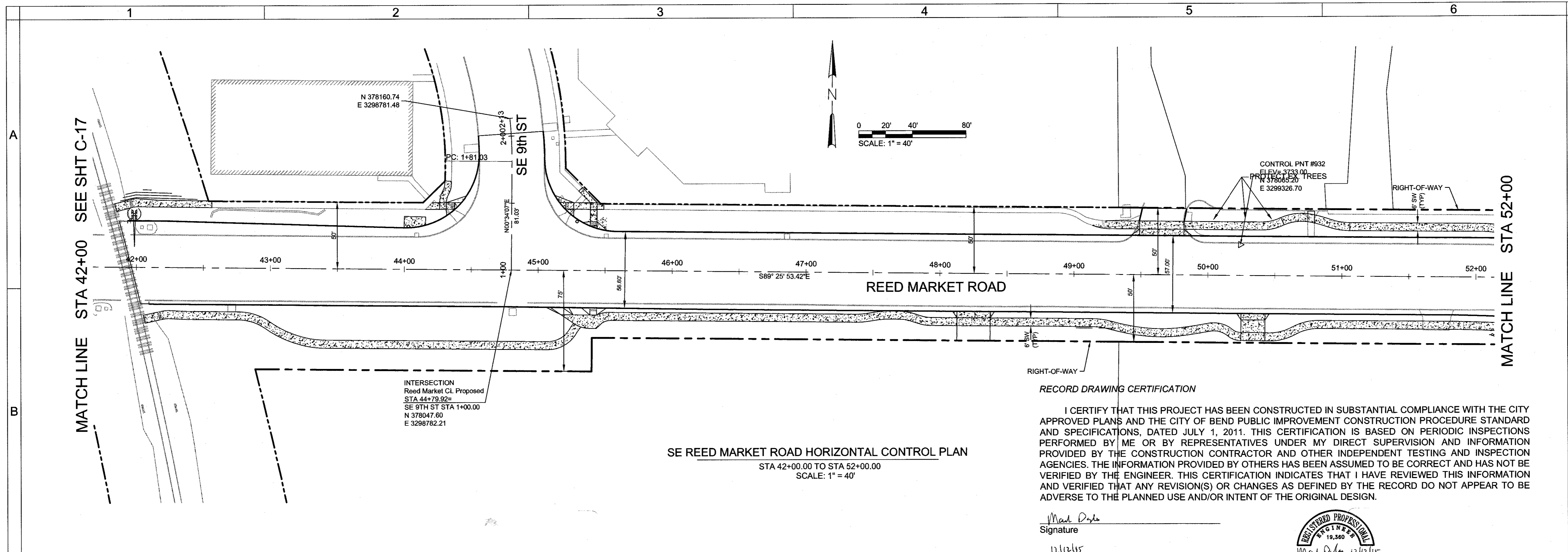
RECORD DRAWING CERTIFICATION

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Signature: Mark Doyle
Date: 12/12/15



Renewal Date: 12/31/2015

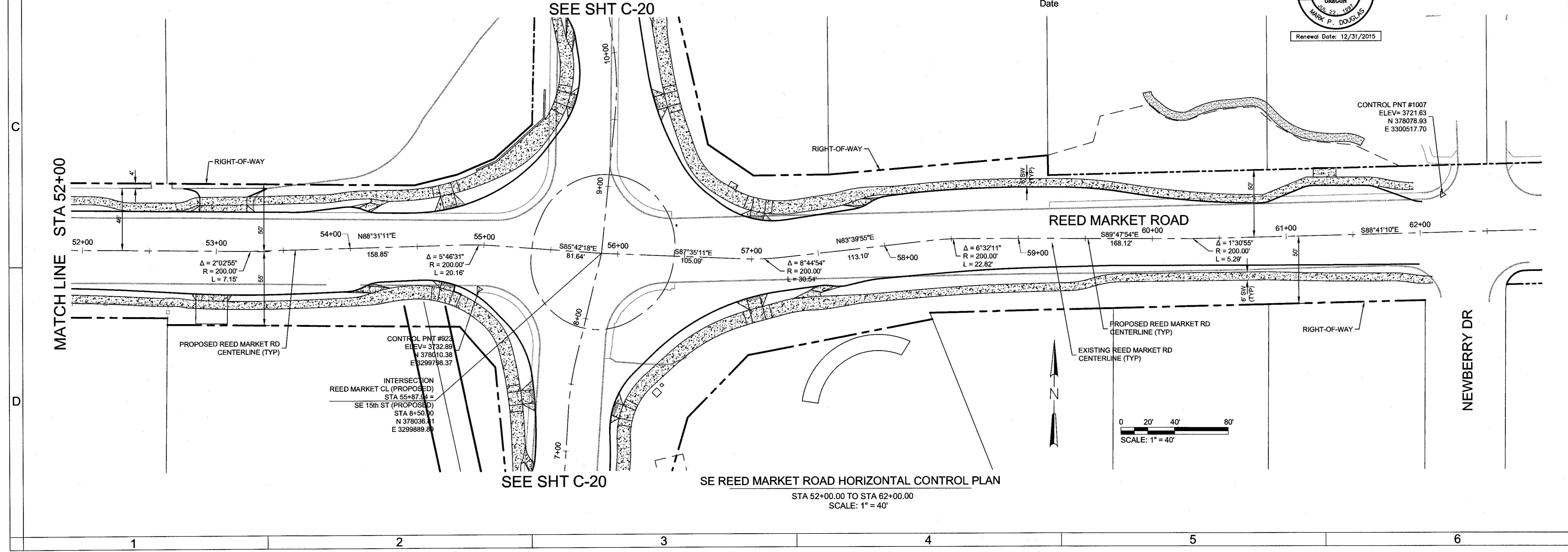
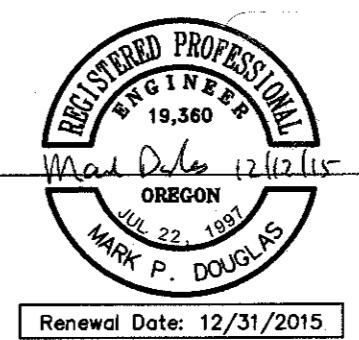


SE REED MARKET ROAD HORIZONTAL CONTROL PLAN
STA 42+00.00 TO STA 52+00.00
SCALE: 1" = 40'

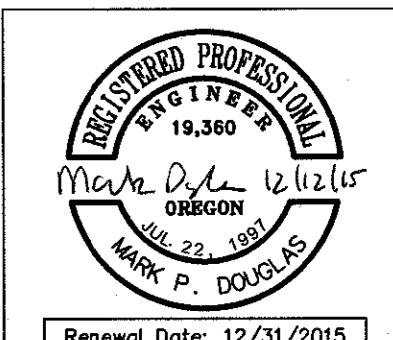
RECORD DRAWING CERTIFICATION

I CERTIFY THAT THIS PROJECT HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE CITY APPROVED PLANS AND THE CITY OF BEND PUBLIC IMPROVEMENT CONSTRUCTION PROCEDURE STANDARD AND SPECIFICATIONS, DATED JULY 1, 2011. THIS CERTIFICATION IS BASED ON PERIODIC INSPECTIONS PERFORMED BY ME OR BY REPRESENTATIVES UNDER MY DIRECT SUPERVISION AND INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND OTHER INDEPENDENT TESTING AND INSPECTION AGENCIES. THE INFORMATION PROVIDED BY OTHERS HAS BEEN ASSUMED TO BE CORRECT AND HAS NOT BE VERIFIED BY THE ENGINEER. THIS CERTIFICATION INDICATES THAT I HAVE REVIEWED THIS INFORMATION AND VERIFIED THAT ANY REVISION(S) OR CHANGES AS DEFINED BY THE RECORD DO NOT APPEAR TO BE ADVERSE TO THE PLANNED USE AND/OR INTENT OF THE ORIGINAL DESIGN.

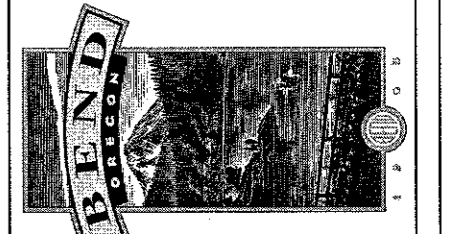
Signature: *Mark Doyle*
Date: 12/24/15



SE REED MARKET ROAD HORIZONTAL CONTROL PLAN
STA 52+00.00 TO STA 62+00.00
SCALE: 1" = 40'



REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
HORIZONTAL CONTROL PLAN
CITY OF BEND, OREGON



REVISIONS:

1. MPD 12/09/2015 RECORD DRAWING	2.	3.
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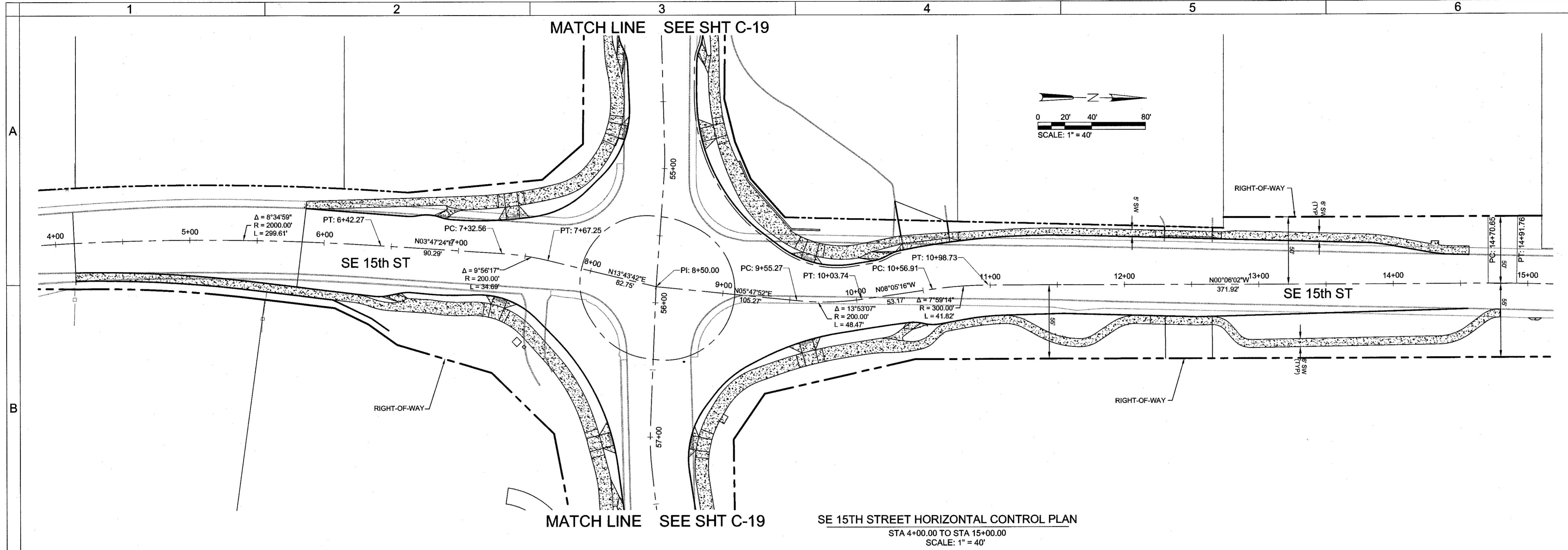
HWA SURVEYORS, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC.
42930 O.B. WILEY ROAD, SUITE 100
PHONE: 541.389.3351 FAX: 541.388.5416

DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

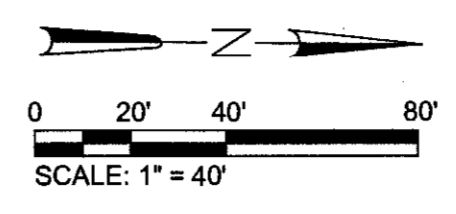
VERIFY SCALES
0 1"
BAR EQUALS ONE INCH
ON ORIGINAL DRAWING

SHEET:
C-19

COB # ST12CJ



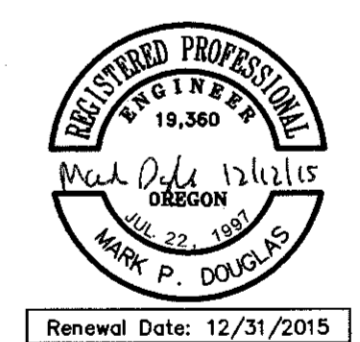
SE 15TH STREET HORIZONTAL CONTROL PLAN
 STA 4+00.00 TO STA 15+00.00
 SCALE: 1" = 40'



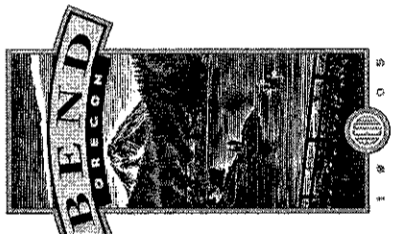
RECORD DRAWING CERTIFICATION

I CERTIFY THAT THIS PROJECT HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE CITY APPROVED PLANS AND THE CITY OF BEND PUBLIC IMPROVEMENT CONSTRUCTION PROCEDURE STANDARD AND SPECIFICATIONS, DATED JULY 1, 2011. THIS CERTIFICATION IS BASED ON PERIODIC INSPECTIONS PERFORMED BY ME OR BY REPRESENTATIVES UNDER MY DIRECT SUPERVISION AND INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND OTHER INDEPENDENT TESTING AND INSPECTION AGENCIES. THE INFORMATION PROVIDED BY OTHERS HAS BEEN ASSUMED TO BE CORRECT AND HAS NOT BE VERIFIED BY THE ENGINEER. THIS CERTIFICATION INDICATES THAT I HAVE REVIEWED THIS INFORMATION AND VERIFIED THAT ANY REVISION(S) OR CHANGES AS DEFINED BY THE RECORD DO NOT APPEAR TO BE ADVERSE TO THE PLANNED USE AND/OR INTENT OF THE ORIGINAL DESIGN.

Mark Douglas
 Signature
 12/21/15
 Date



REED MARKET ROAD
 3RD STREET TO NEWBERRY DRIVE
 HORIZONTAL CONTROL PLAN
 CITY OF BEND, OREGON



REVISIONS:

1.	MPD 12/09/2015	RECORD DRAWING
2.		
3.		

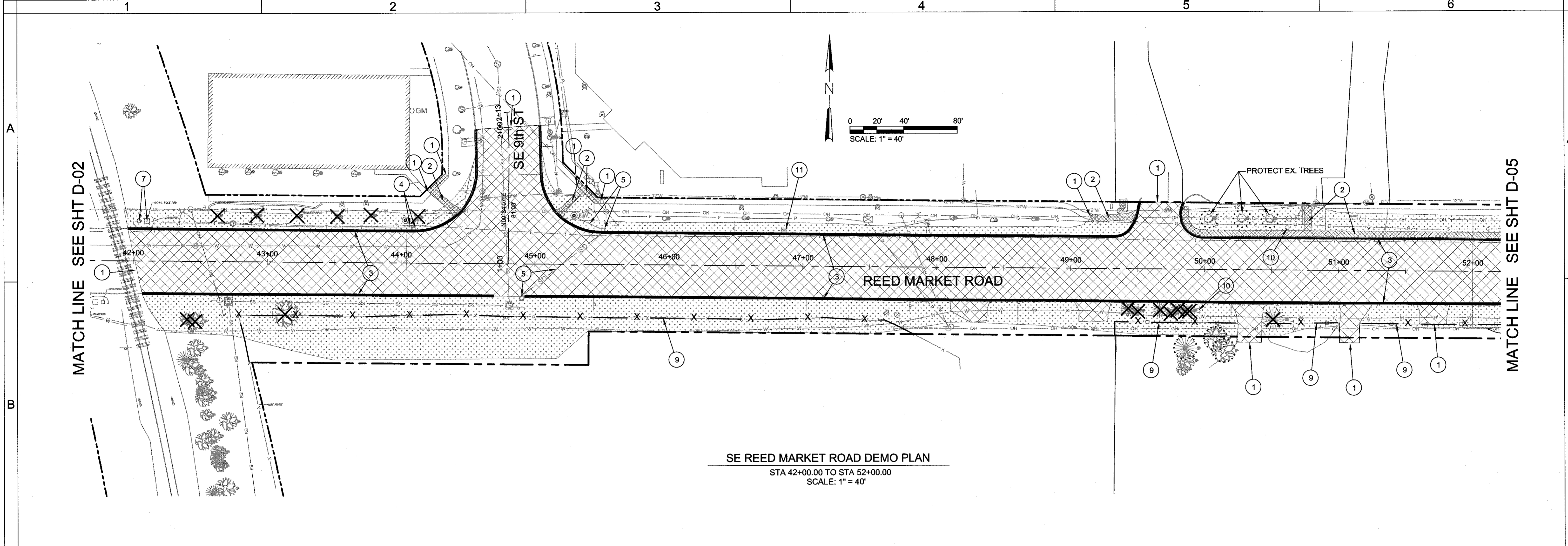
HWA SURVEYORS, ENGINEERS & PLANNERS
 HICKMAN, WILLIAMS & ASSOCIATES, INC.
 42930 O.B. RILEY ROAD, SUITE 100
 BEND, OREGON 97701
 PHONE: 541.389.9351 FAX: 541.388.5416

DESIGNED BY: MD
 DRAWN BY: MD
 SCALE: AS SHOWN
 FILE: REED 15TH BASE
 DATE: 04/21/2014

VERIFY SCALES
 0 1"
 BAR EQUALS ONE INCH
 ON ORIGINAL DRAWING

SHEET:
C-20

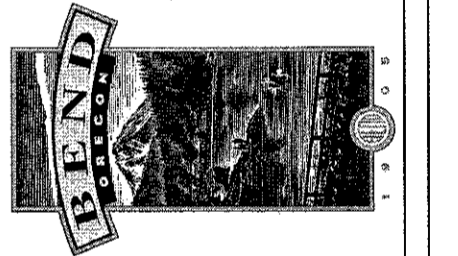
COB # ST12CJ



SE REED MARKET ROAD DEMO PLAN
 STA 42+00.00 TO STA 52+00.00
 SCALE: 1" = 40'



REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
RMR DEMO PLAN, STA 42+00 TO 52+00
 CITY OF BEND, OREGON



REVISIONS:

1.	MPD 12/09/2015	RECORD DRAWING
2.		
3.		

DEMO LEGEND:

- REMOVE AC SURFACING AND BASE COURSE TO SUB-GRADE
- REMOVE CONCRETE SIDEWALK SURFACE AND BASE ROCK TO SUB-GRADE
- CLEARING & GRUBBING LIMITS COMPLETE AS REQUIRED TO CONSTRUCT IMPROVEMENTS
- REMOVE CONCRETE CURB
- REMOVE CONCRETE WALL
- REMOVE FENCE
- REMOVE TREE. CONTRACTOR TO MARK AND REVIEW IN THE FIELD WITH THE INSPECTOR PRIOR TO REMOVAL
- TREE / VEGETATION PROTECTION FENCING. SEE COB STD DRAWING E-3

DEMOLITION NOTES:

- NOTE: SEE SS SHEETS FOR SIGN REMOVALS
- ① SAWCUT EXISTING ASPHALT / CONCRETE
 - ② STA 44+22.05 - 52+00.00
REMOVE EXISTING WALKS AND DRIVEWAYS - 192 SY
 - ③ STA 42+00.00 - 52+00.00
REMOVE EXISTING CURBS - 2,048 LF
 - ④ REMOVE EXISTING INLETS - 1
REMOVE EXISTING STORM DRAIN PIPE - 7 LF
 - ⑤ REMOVE EXISTING INLETS - 2
REMOVE EXISTING STORM DRAIN PIPE - 100 LF
 - ⑥ NOT USED
 - ⑦ RAILROAD SIGNAL/MAST RELOCATION / IMPROVEMENTS BY OTHERS
 - ⑧ NOT USED
 - ⑨ ~~REMOVAL OF FENCE BY OTHERS~~ REMOVE EXISTING FENCE
 - ⑩ REMOVE EXISTING IRRIGATION STRUCTURE
REMOVE OF STRUCTURES AND OBSTRUCTIONS
 - ⑪ REMOVE EXISTING CONCRETE SLAB
REMOVE EXISTING WALKS AND DRIVEWAYS - 1 SY

RECORD DRAWING CERTIFICATION

I CERTIFY THAT THIS PROJECT HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE CITY APPROVED PLANS AND THE CITY OF BEND PUBLIC IMPROVEMENT CONSTRUCTION PROCEDURE STANDARD AND SPECIFICATIONS, DATED JULY 1, 2011. THIS CERTIFICATION IS BASED ON PERIODIC INSPECTIONS PERFORMED BY ME OR BY REPRESENTATIVES UNDER MY DIRECT SUPERVISION AND INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND OTHER INDEPENDENT TESTING AND INSPECTION AGENCIES. THE INFORMATION PROVIDED BY OTHERS HAS BEEN ASSUMED TO BE CORRECT AND HAS NOT BE VERIFIED BY THE ENGINEER. THIS CERTIFICATION INDICATES THAT I HAVE REVIEWED THIS INFORMATION AND VERIFIED THAT ANY REVISION(S) OR CHANGES AS DEFINED BY THE RECORD DO NOT APPEAR TO BE ADVERSE TO THE PLANNED USE AND/OR INTENT OF THE ORIGINAL DESIGN.

Mark Douglas
 Signature
 12/11/15
 Date



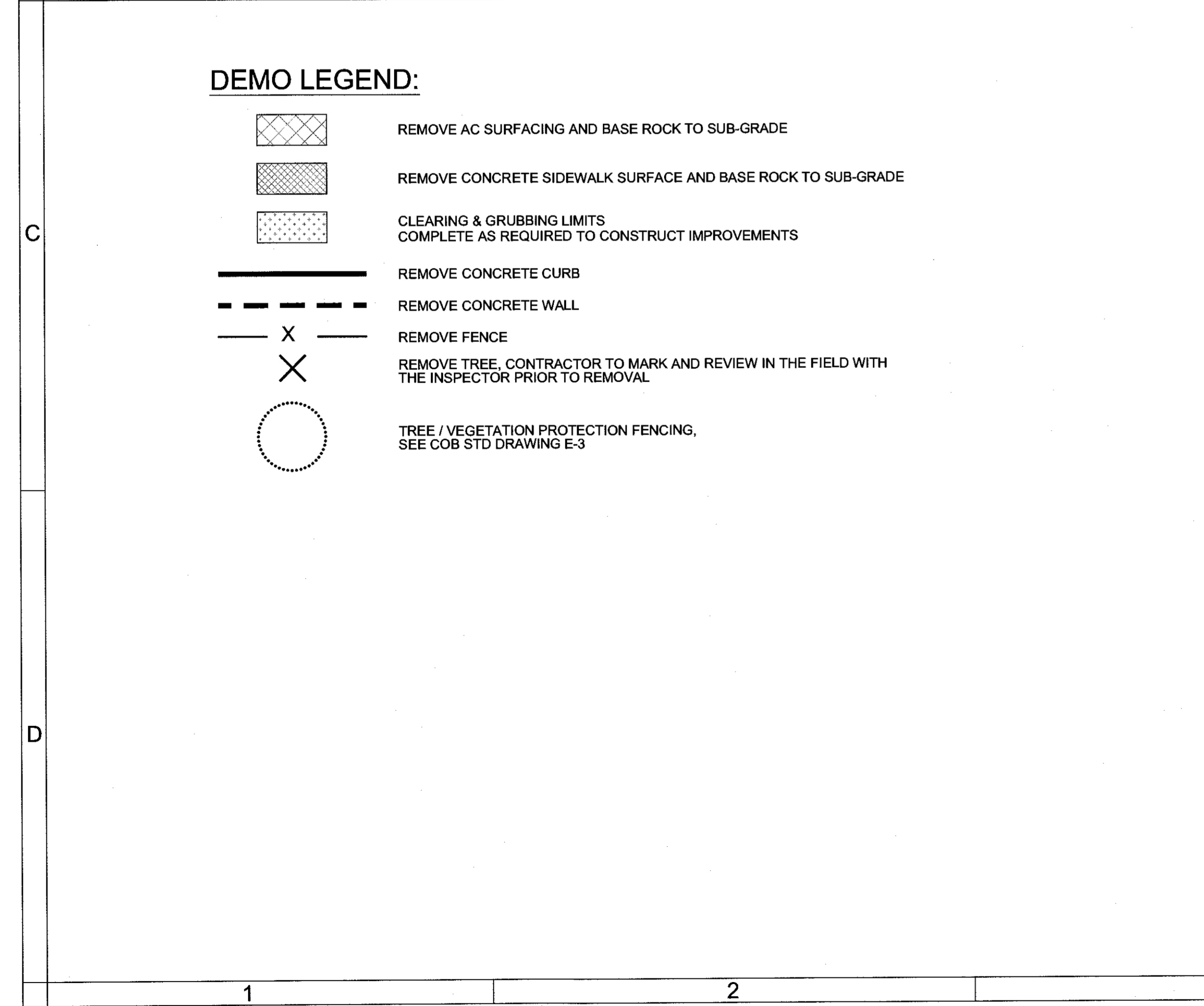
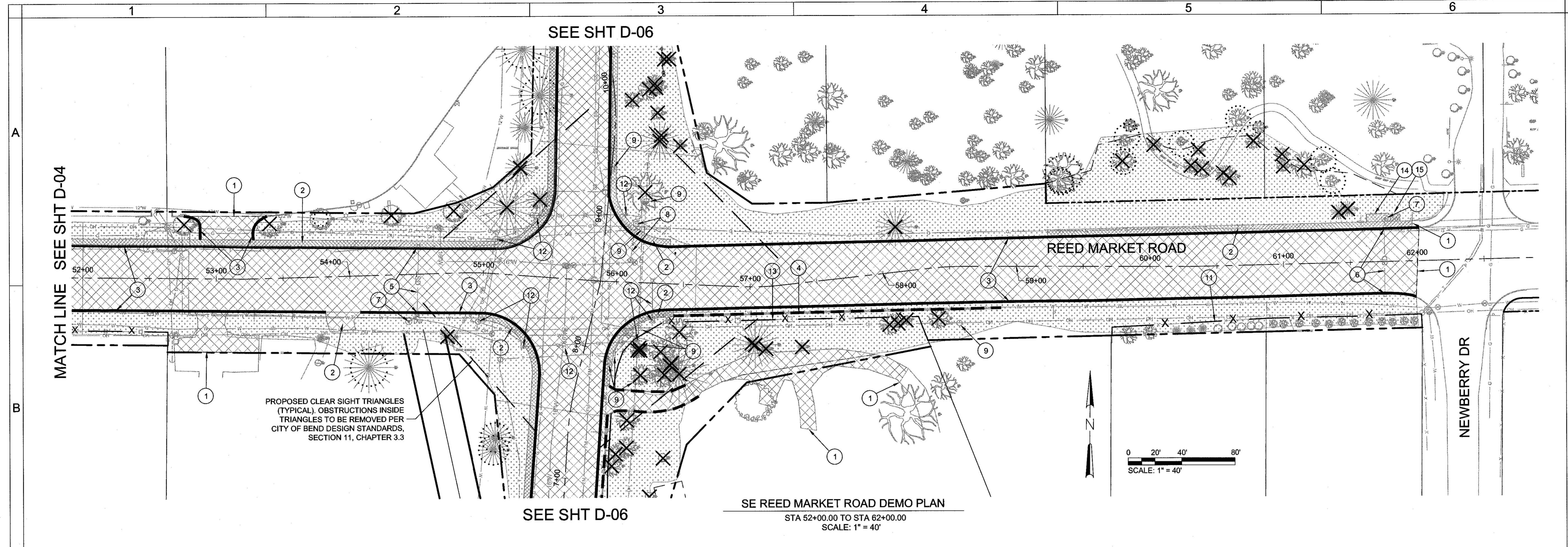
HWA SURVEYORS, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC
 42930 O.E. RILEY ROAD, SUITE 100
 BEND, OREGON 97701
 PHONE: 541.389.9351 FAX: 541.388.5416

DESIGNED BY: MD
 DRAWN BY: MD
 SCALE: AS SHOWN
 FILE: REED 15TH BASE
 DATE: 04/21/2014

VERIFY SCALES
 0 1"
 BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET:
D-04

COB # ST12CJ

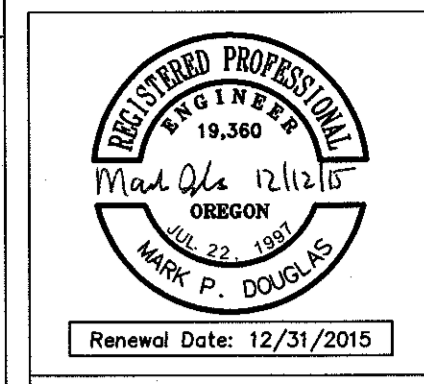
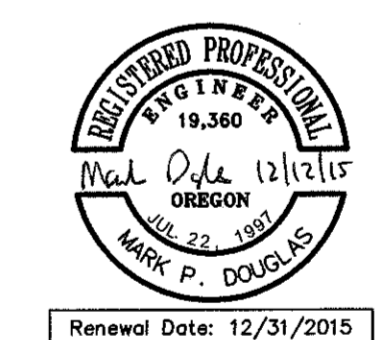


- DEMOLITION NOTES:**
- NOTE: SEE SS SHEETS FOR SIGN REMOVALS
- 1 SAWCUT EXISTING ASPHALT / CONCRETE
 - 2 STA 52+00.00 - 62+00.00 REMOVE EXISTING WALKS AND DRIVEWAYS - 535 SY
 - 3 STA 42+00.00 - 52+00.00 REMOVE EXISTING CURBS - 2,159 LF
 - 4 REMOVE EXISTING CONCRETE WALL REMOVAL OF STRUCTURES AND OBSTRUCTIONS
 - 5 REMOVE EXISTING INLETS - 2 REMOVE EXISTING STORM DRAIN PIPE - 57 LF
 - 6 REMOVE EXISTING INLETS - 2 REMOVE EXISTING STORM DRAIN PIPE - 55 LF
 - 7 REMOVE / DECOMMISSION EXISTING DRYWELL - 2
 - 8 REMOVE EXISTING WATERLINE AND HYDRANT REMOVAL OF PIPES - 30 LF REMOVAL OF HYDRANTS - 1
 - 9 REMOVE EXISTING UTILITY STRUCTURE (BY OTHERS)
 - 10 NOT USED
 - 11 REMOVAL OF FENCE BY OTHERS
 - 12 REMOVE EXISTING TRAFFIC SIGNAL, SEE SHEET TS-06
 - 13 REMOVE EXISTING FENCE REMOVAL OF STRUCTURES AND OBSTRUCTIONS
 - 14 REMOVE EXISTING RAILING REMOVAL OF STRUCTURES AND OBSTRUCTIONS
 - 15 REMOVE EXISTING BENCH, COORDINATE WITH CITY FOR STORAGE AND RELOCATION REMOVAL OF STRUCTURES AND OBSTRUCTIONS

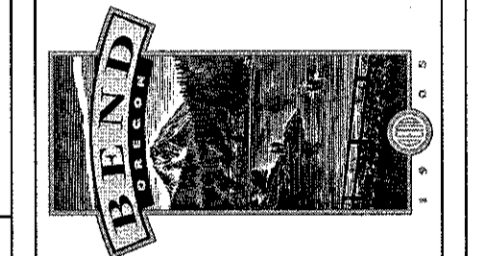
RECORD DRAWING CERTIFICATION

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Mark Dyle
Signature
12/12/15
Date



REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
RMR DEMO PLAN, STA 52+00 TO 62+00
CITY OF BEND, OREGON



REVISIONS:

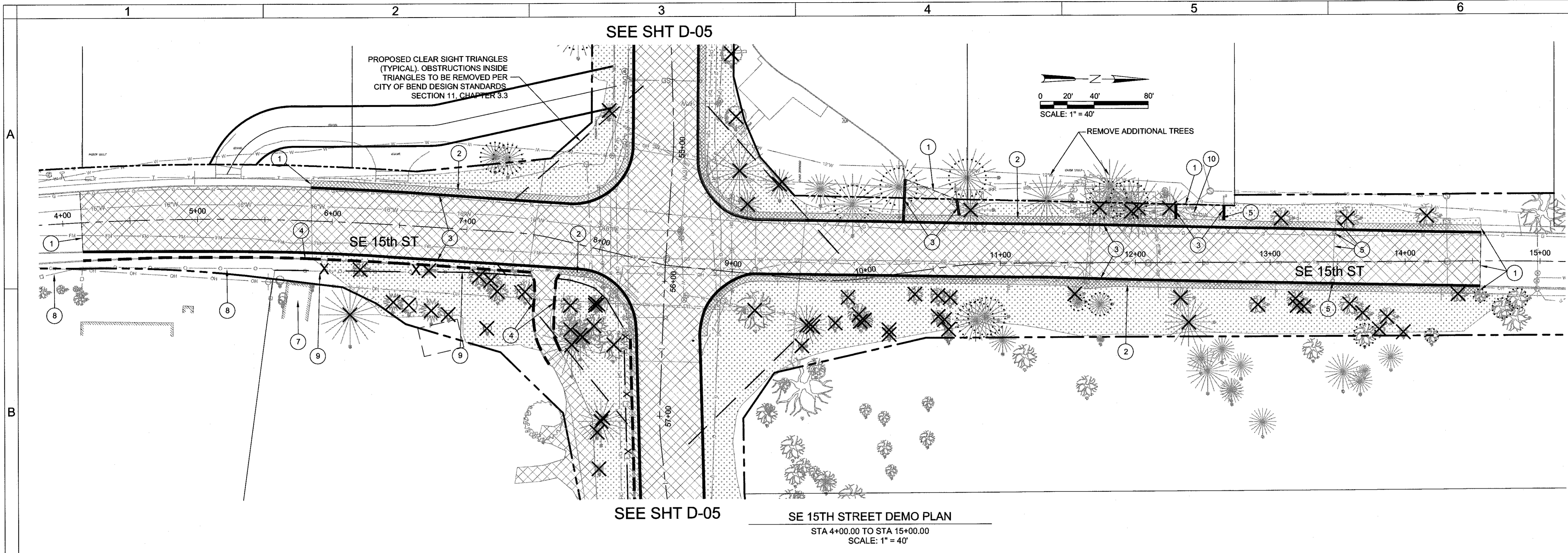
1. MPD.12/09/2015 RECORD DRAWING	2.	3.
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HWA SURVEYORS, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC.
42980 O.E. HILLY ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541.389.9351 FAX: 541.388.5415

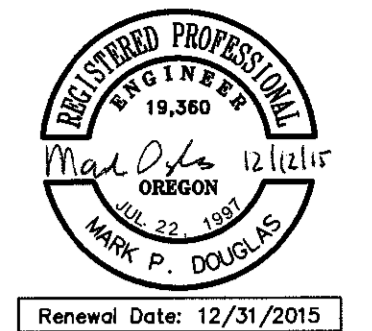
DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED-15TH-BASE
DATE: 04/21/2014

VERIFY SCALES
0 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET:
D-05
COB # ST12CJ

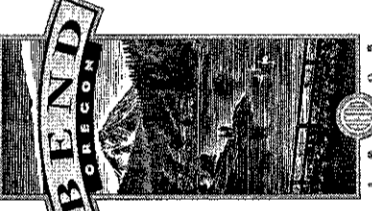


SEE SHT D-05
SE 15th STREET DEMO PLAN
 STA 4+00.00 TO STA 15+00.00
 SCALE: 1" = 40'



Renewal Date: 12/31/2015

REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
15TH ST. DEMO PLAN, STA 4+00 TO 15+00
 CITY OF BEND, OREGON



REVISIONS:

1.	MPD 12/09/2015	RECORD DRAWING
2.		
3.		

HWA SURVEYORS, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC.
 62900 S. HUEY ROAD, SUITE 100
 BEND, OREGON 97701
 PHONE: 541-389-9351 FAX: 541-388-5416

DESIGNED BY: MD
 DRAWN BY: MD
 SCALE: AS SHOWN
 FILE: REED-15TH-BASE
 DATE: 04/21/2014

VERIFY SCALES
 0 1"
 BAR EQUALS ONE INCH
 ON ORIGINAL DRAWING

SHEET:
D-06

COB # ST12CJ

DEMO LEGEND:

- REMOVE AC SURFACING AND BASE ROCK TO SUB-GRADE
- REMOVE CONCRETE SIDEWALK SURFACE AND BASE ROCK TO SUB-GRADE
- CLEARING & GRUBBING LIMITS COMPLETE AS REQUIRED TO CONSTRUCT IMPROVEMENTS
- REMOVE CONCRETE CURB
- REMOVE CONCRETE WALL
- REMOVE FENCE
- REMOVE TREE, CONTRACTOR TO MARK AND REVIEW IN THE FIELD WITH THE INSPECTOR PRIOR TO REMOVAL
- TREE / VEGETATION PROTECTION FENCING, SEE COB STD DRAWING E-3

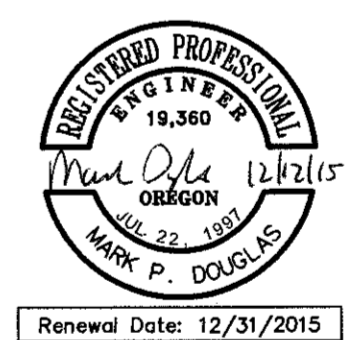
DEMOLITION NOTES:

- NOTE: SEE SS SHEETS FOR SIGN REMOVALS
- ① SAWCUT EXISTING ASPHALT / CONCRETE
 - ② STA 5+83.45 - 14+56.45 REMOVE EXISTING WALKS AND DRIVEWAYS - 647 SY
 - ③ STA 4+13.82 - 14+56.45 REMOVE EXISTING CURBS - 1,587 LF
 - ④ REMOVE EXISTING CONCRETE WALL, SEE ALSO W-03 REMOVAL OF STRUCTURES AND OBSTRUCTIONS
 - ⑤ REMOVE EXISTING INLETS - 3 REMOVE EXISTING STORM DRAIN PIPE - 72 LF
 - ⑥ NOT USED
 - ⑦ REMOVE EXISTING SHED STRUCTURE ATTACHED TO EX. BUILDING REMOVAL OF STRUCTURES AND OBSTRUCTIONS
 - ⑧ REMOVAL OF FENCE BY OTHERS
 - ⑨ REMOVE EXISTING FENCE REMOVAL OF STRUCTURES AND OBSTRUCTIONS
 - ⑩ REMOVE / DECOMMISSION EXISTING DRYWELL - 1

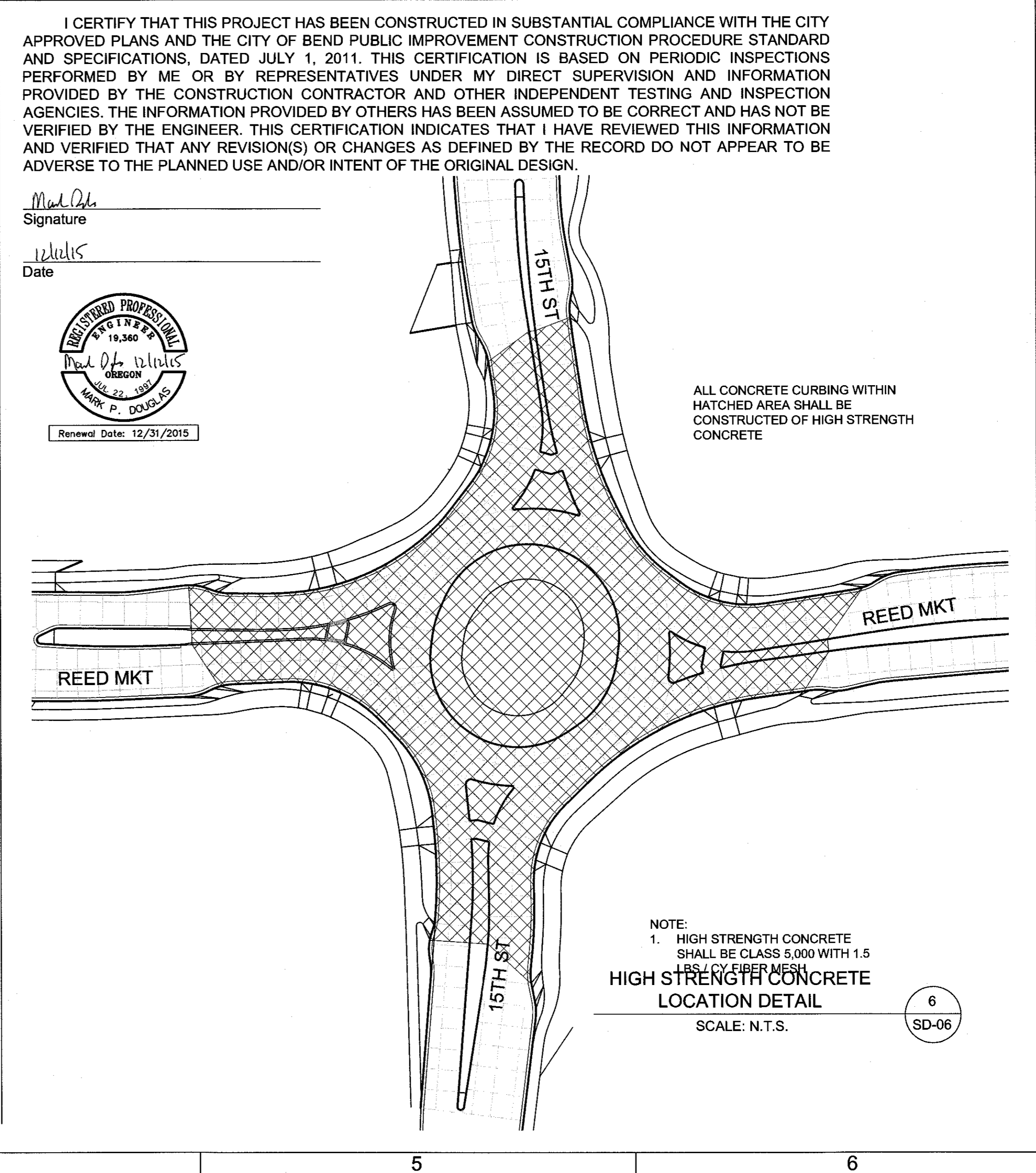
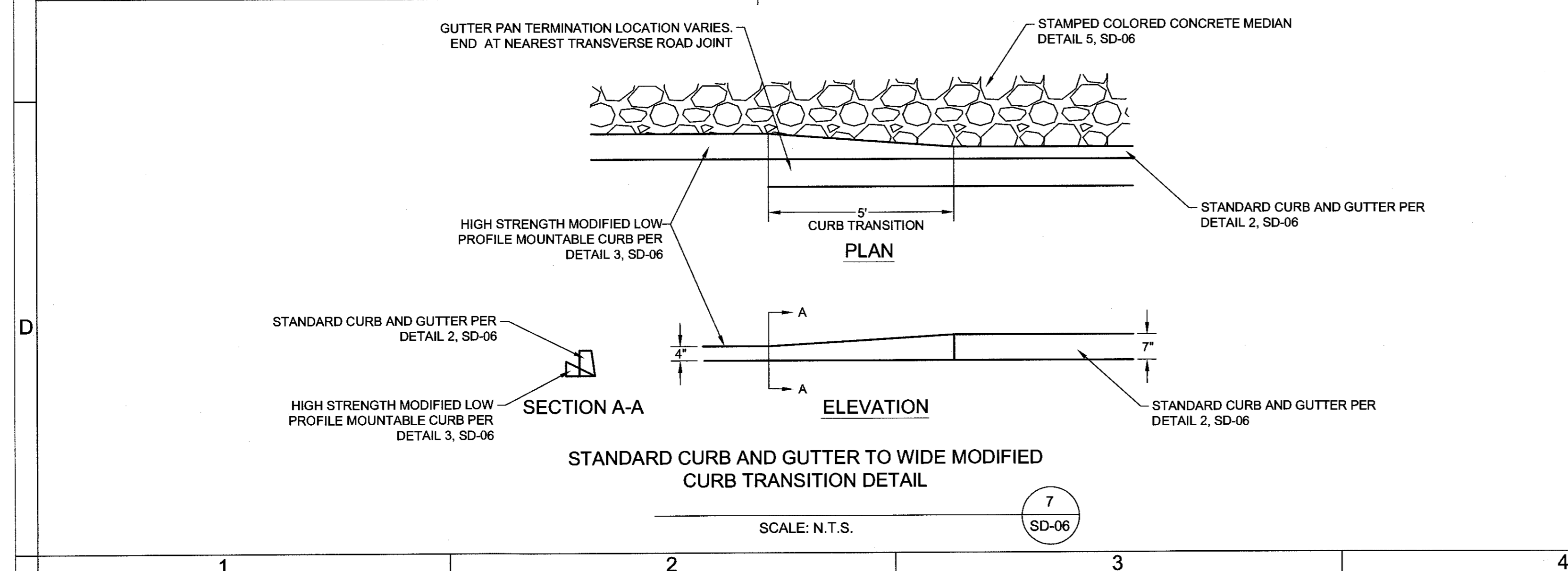
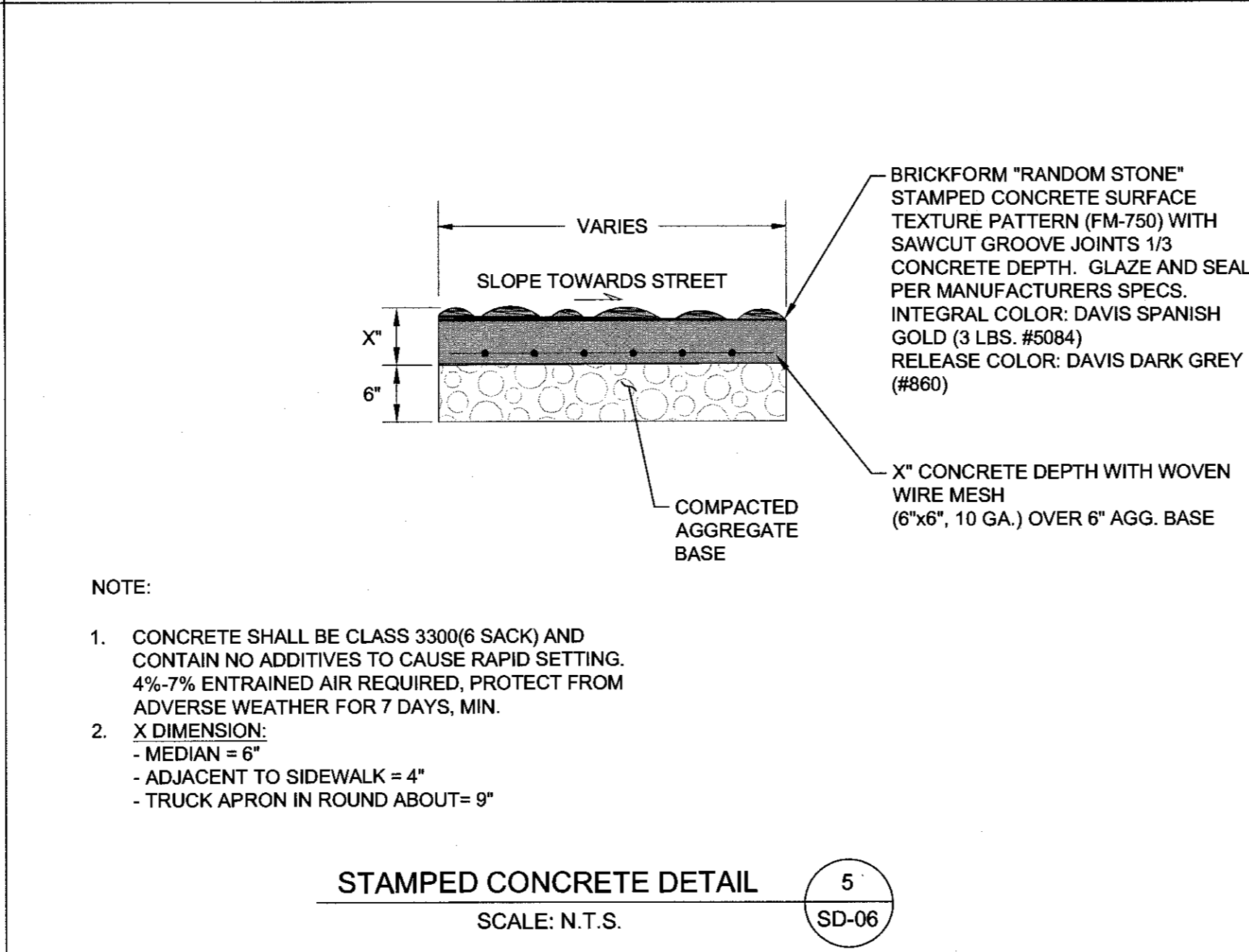
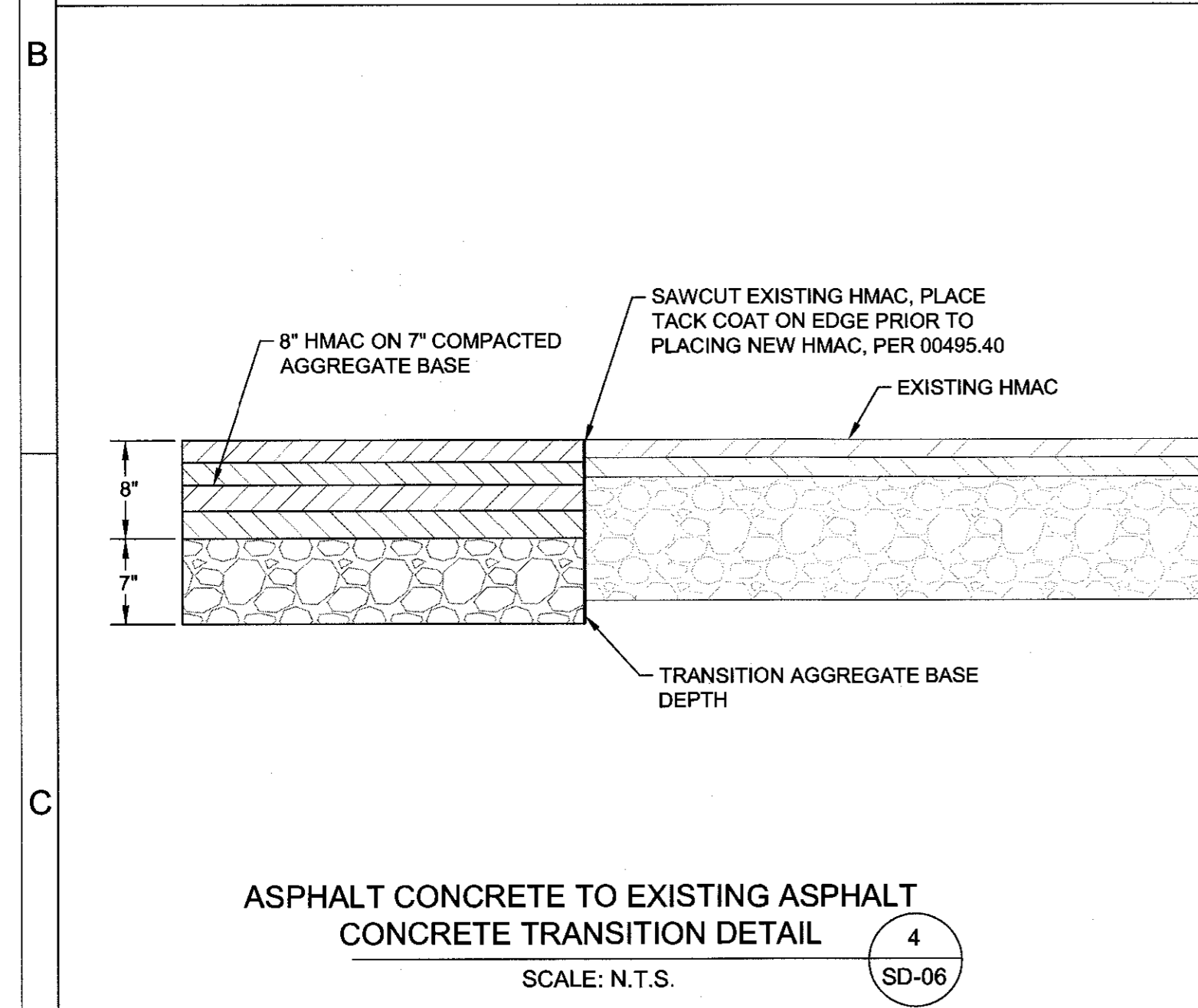
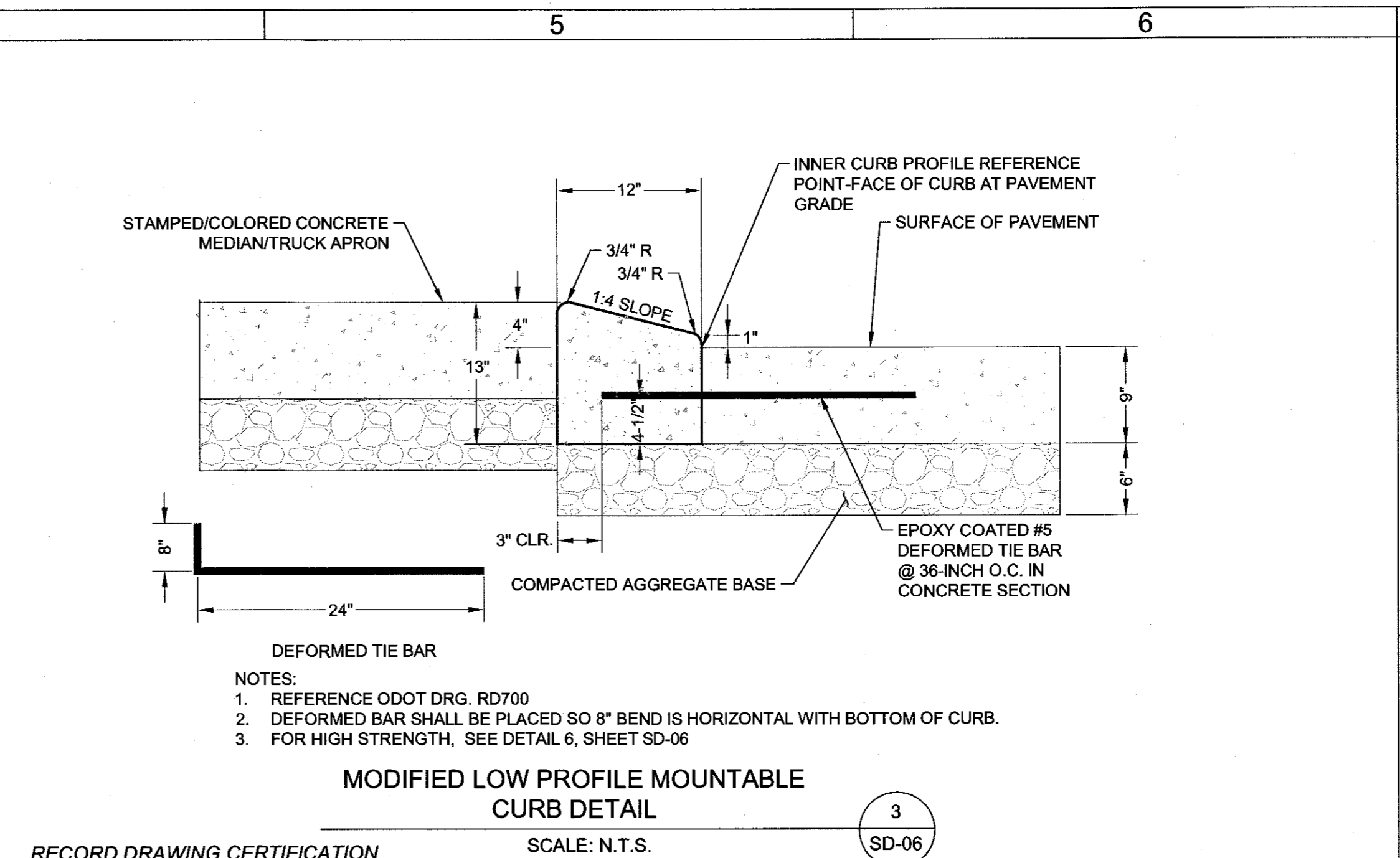
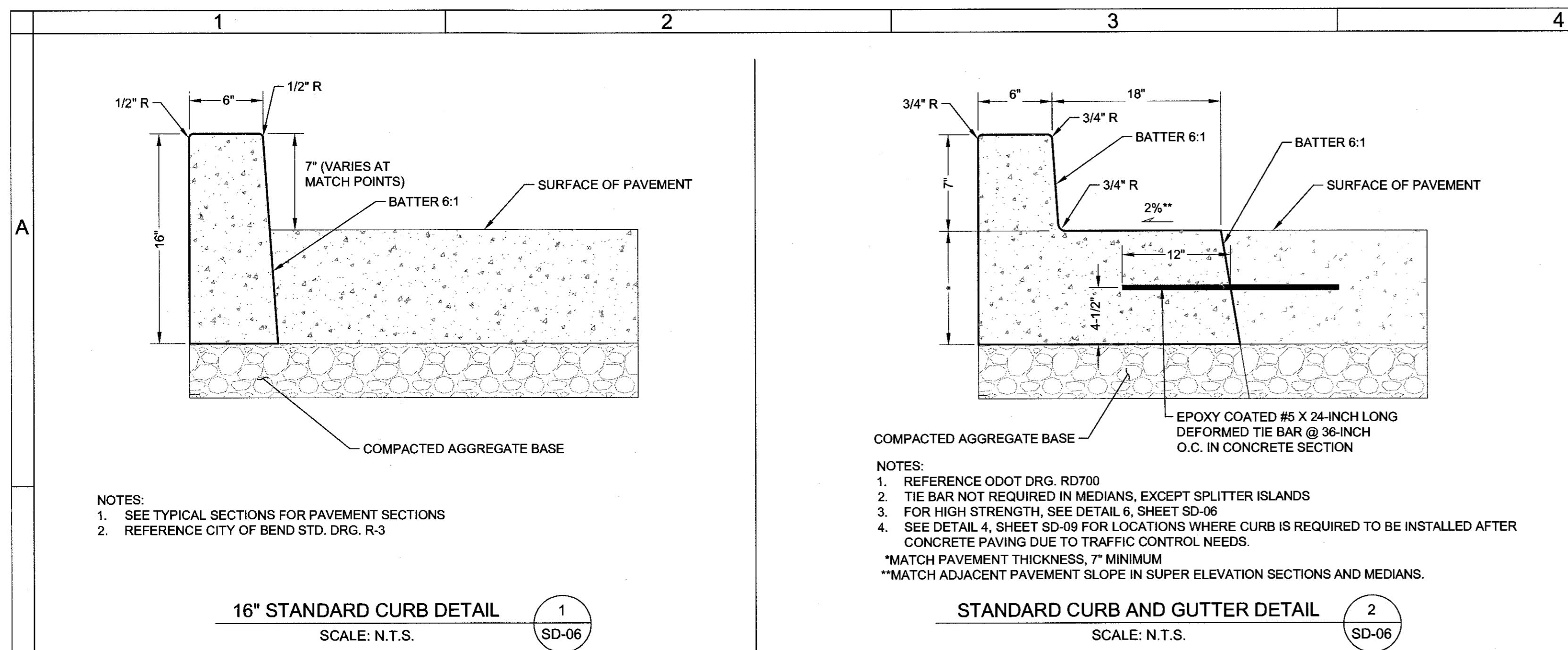
RECORD DRAWING CERTIFICATION

I CERTIFY THAT THIS PROJECT HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE CITY APPROVED PLANS AND THE CITY OF BEND PUBLIC IMPROVEMENT CONSTRUCTION PROCEDURE STANDARD AND SPECIFICATIONS, DATED JULY 1, 2011. THIS CERTIFICATION IS BASED ON PERIODIC INSPECTIONS PERFORMED BY ME OR BY REPRESENTATIVES UNDER MY DIRECT SUPERVISION AND INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND OTHER INDEPENDENT TESTING AND INSPECTION AGENCIES. THE INFORMATION PROVIDED BY OTHERS HAS BEEN ASSUMED TO BE CORRECT AND HAS NOT BE VERIFIED BY THE ENGINEER. THIS CERTIFICATION INDICATES THAT I HAVE REVIEWED THIS INFORMATION AND VERIFIED THAT ANY REVISION(S) OR CHANGES AS DEFINED BY THE RECORD DO NOT APPEAR TO BE ADVERSE TO THE PLANNED USE AND/OR INTENT OF THE ORIGINAL DESIGN.

Mark P. Douglas
 Signature
 12/12/15
 Date



Renewal Date: 12/31/2015



REGISTERED PROFESSIONAL ENGINEER
19,360
OREGON
1908-22-1987
MARK P. DOUGLAS
Renewal Date: 12/31/2015

REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
TYPICAL DETAILS
CITY OF BEND, OREGON

REVISIONS:
1. MPD.12/09/2015 RECORD DRAWING
2.
3.

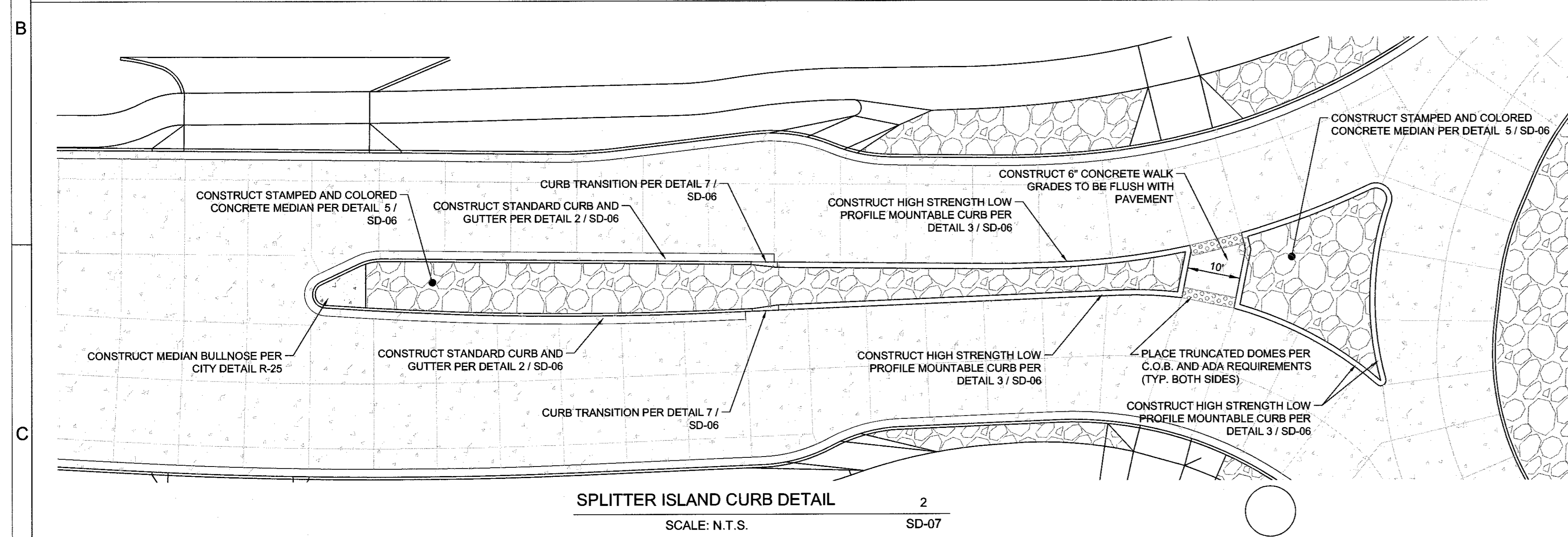
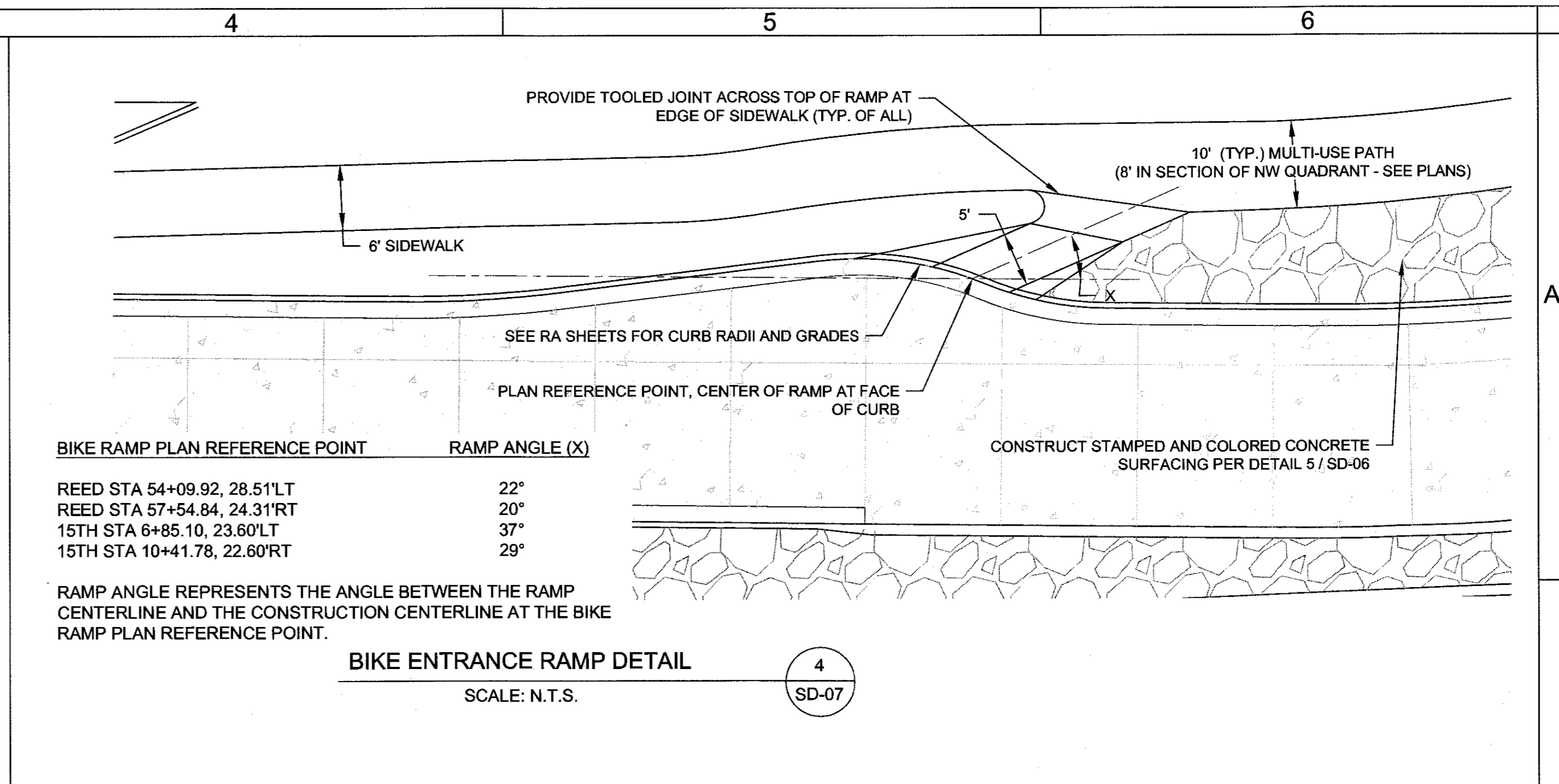
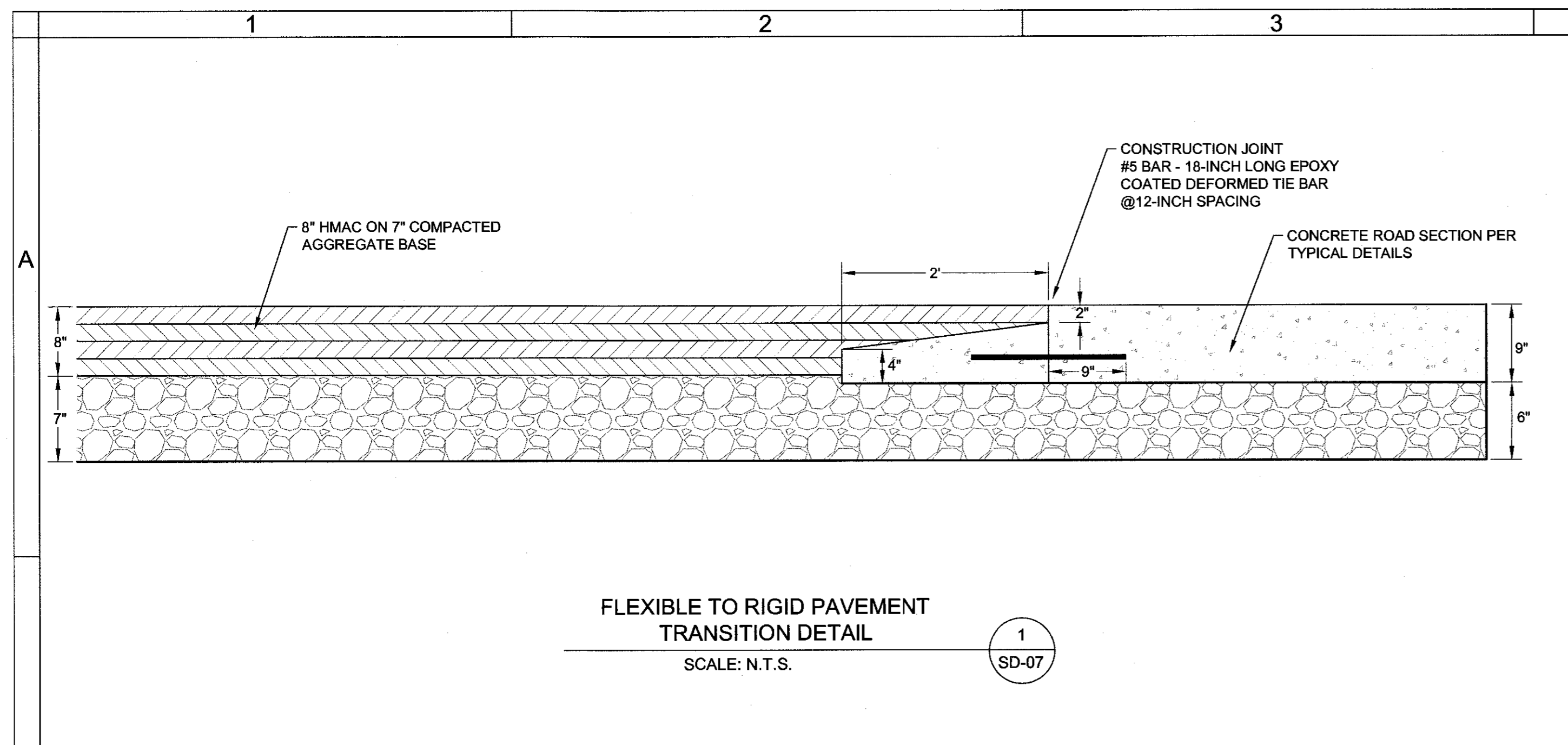
DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

VERIFY SCALES
0 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET: **SD-06**

COB # ST12CJ

HWA SURVEYORS, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC.
42905 O.E. BUELY ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541-389-9351 FAX: 541-388-5416

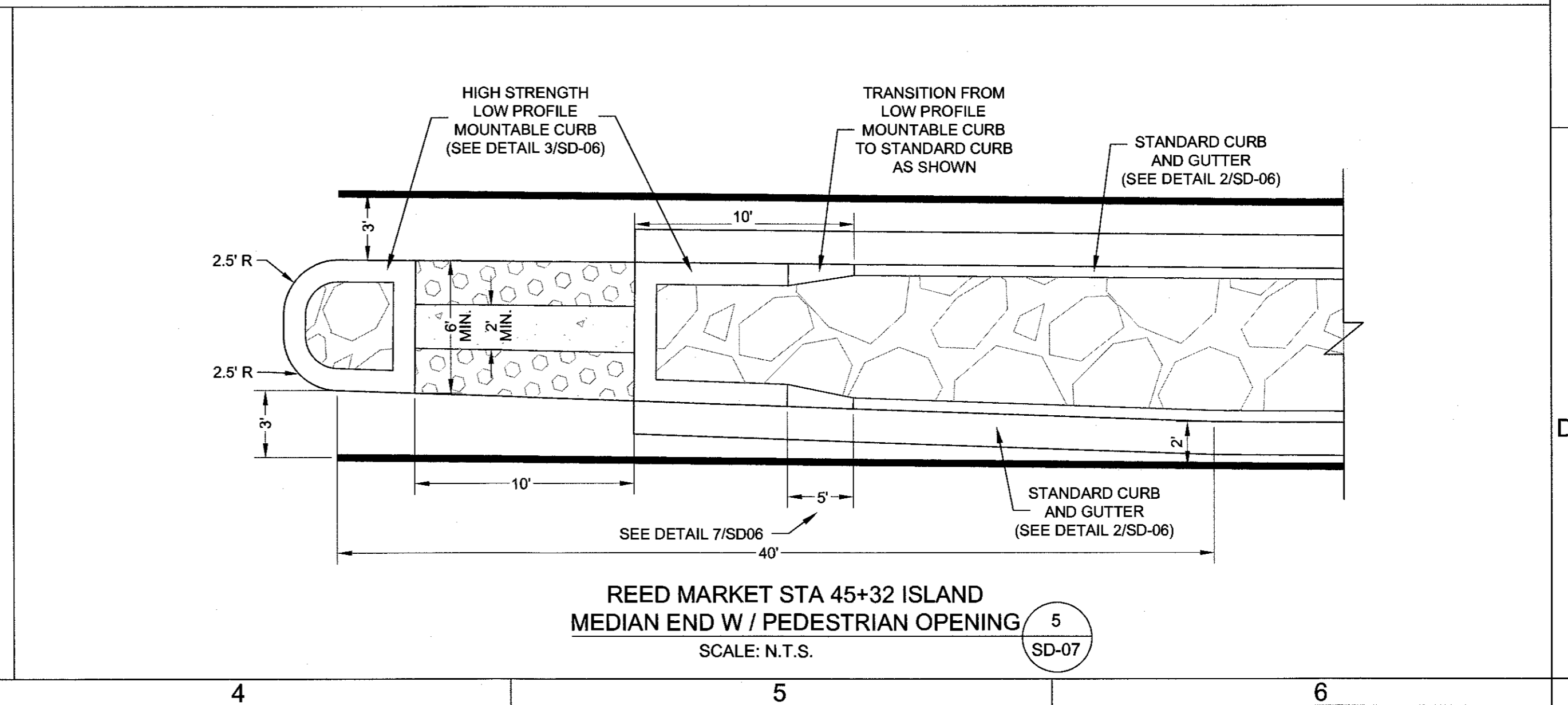
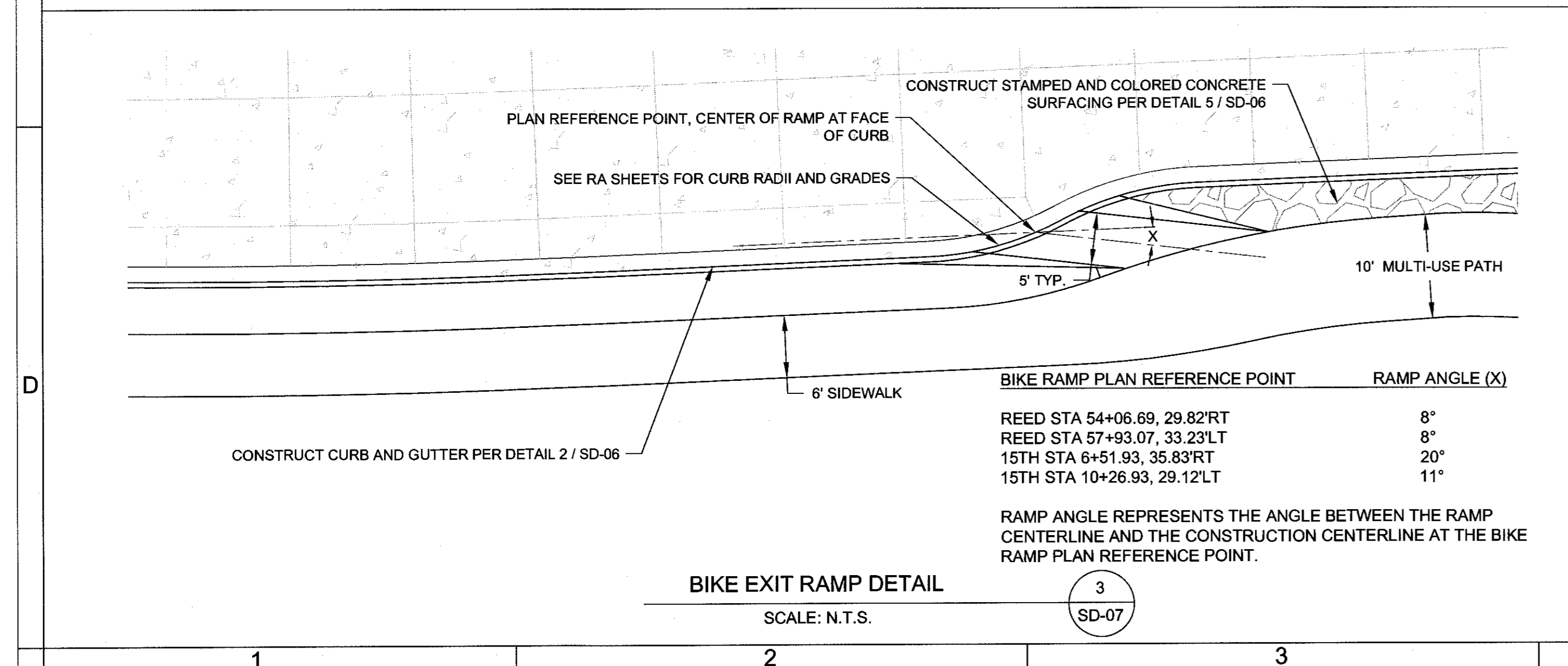


RECORD DRAWING CERTIFICATION

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Mark P. Douglas
Signature
12/21/15
Date

REVISIONS:
1. MPD 12/09/2015 RECORD DRAWING
2.
3.

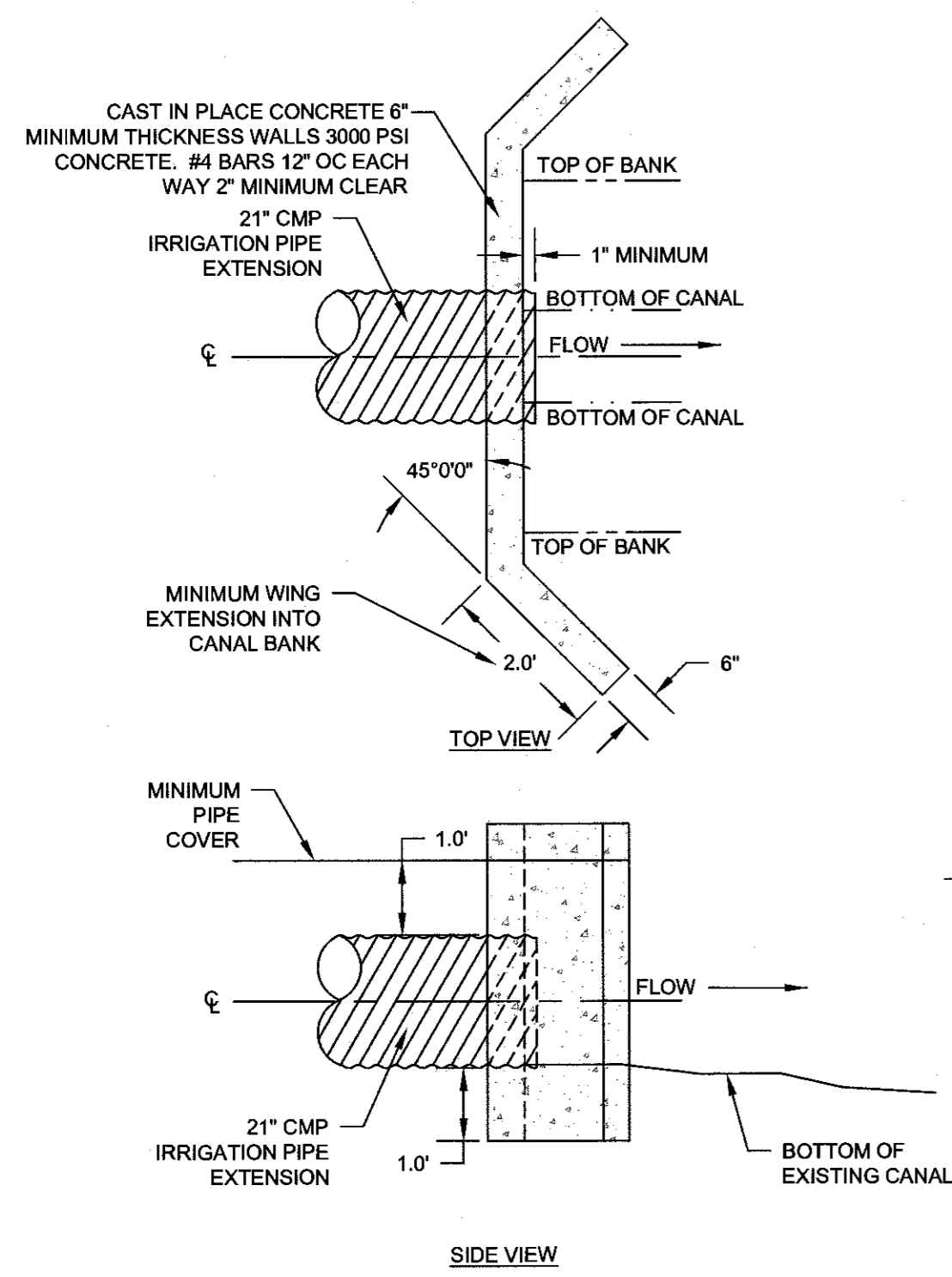


REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
TYPICAL DETAILS
CITY OF BEND, OREGON

HWA SURVEYORS, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC.
62750 S.W. HILLY ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541-389-9351 FAX: 541-386-5416

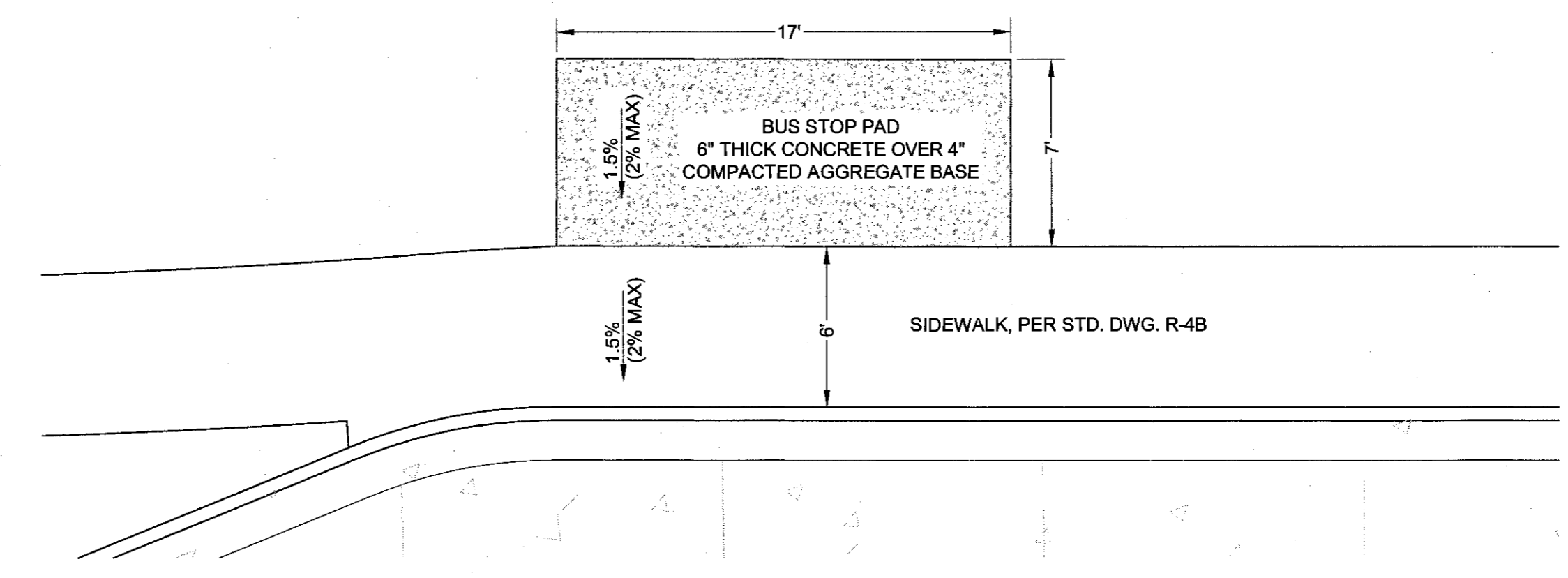
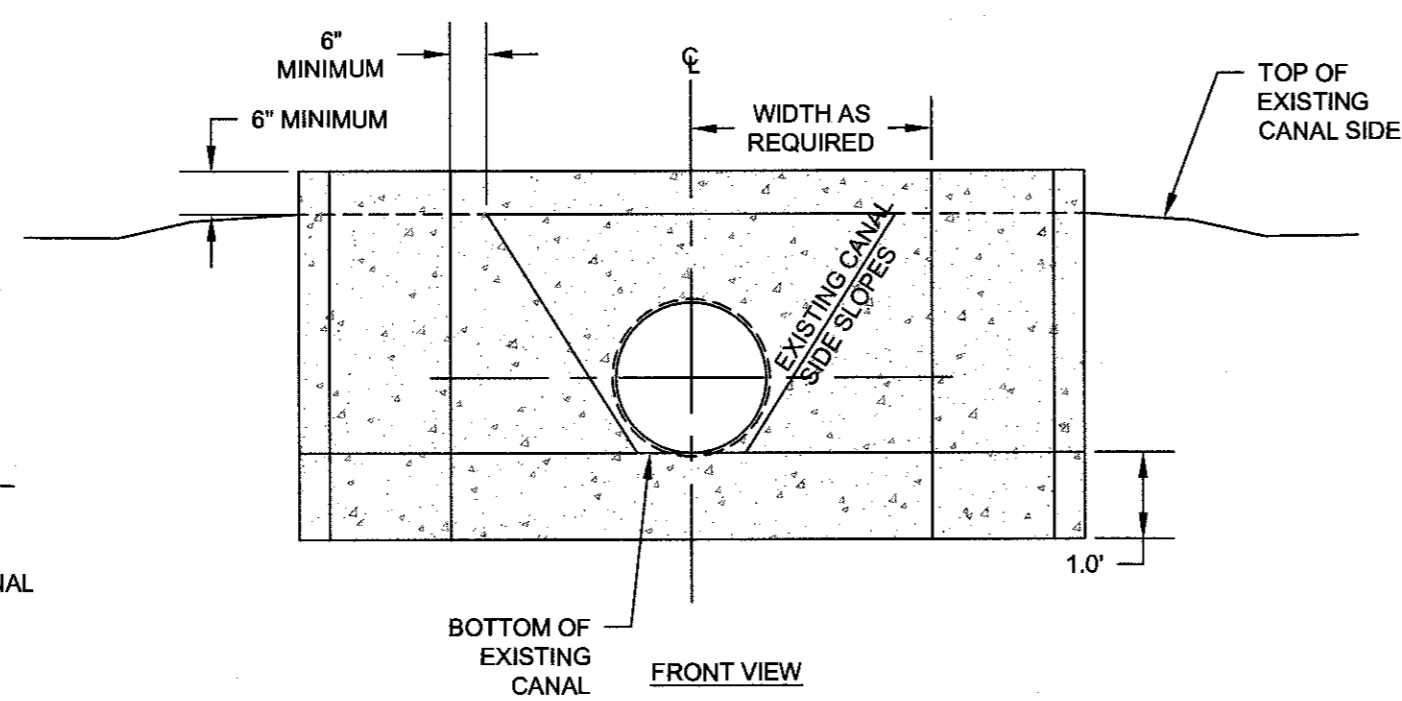
DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

VERIFY SCALES
0 1" BAR EQUALS ONE INCH ON ORIGINAL DRAWING
SHEET: **SD-07**
COB # ST12CJ



IRRIGATION OUTLET STRUCTURE DETAIL
SCALE: N.T.S. 1 SD-08

- NOTES**
1. ALL WORK IS SCHEDULED WITH THE DISTRICT SO AS NOT TO INTERFERE WITH THE MONTHLY STOCK WATER RUNS AND COMPLETED PRIOR TO APRIL 1.
 2. IMPERVIOUS MATERIAL, (CLAY OR BENTONITE) TO BE PLACED AND COMPACTED WITH OPTIMUM MOISTURE AROUND THE OUTLET STRUCTURE.
 3. THERE SHALL BE A MINIMUM OF 1 FOOT SEPARATION BETWEEN COID PIPE AND ANY OTHER UTILITY.
 4. TRENCH SECTION SHALL HAVE A MINIMUM OF 4" OF BEDDING AND SELECT MATERIAL SHALL CONTINUE TO A MINIMUM OF 12" OVER PIPE. SELECT MATERIAL SHALL BE 2" MINUS MATERIAL.
 5. TRACER WIRE WILL BE INSTALLED ALONG THE ENTIRE REACH OF THIS PIPING PROJECT FOR LOCATION PURPOSES.

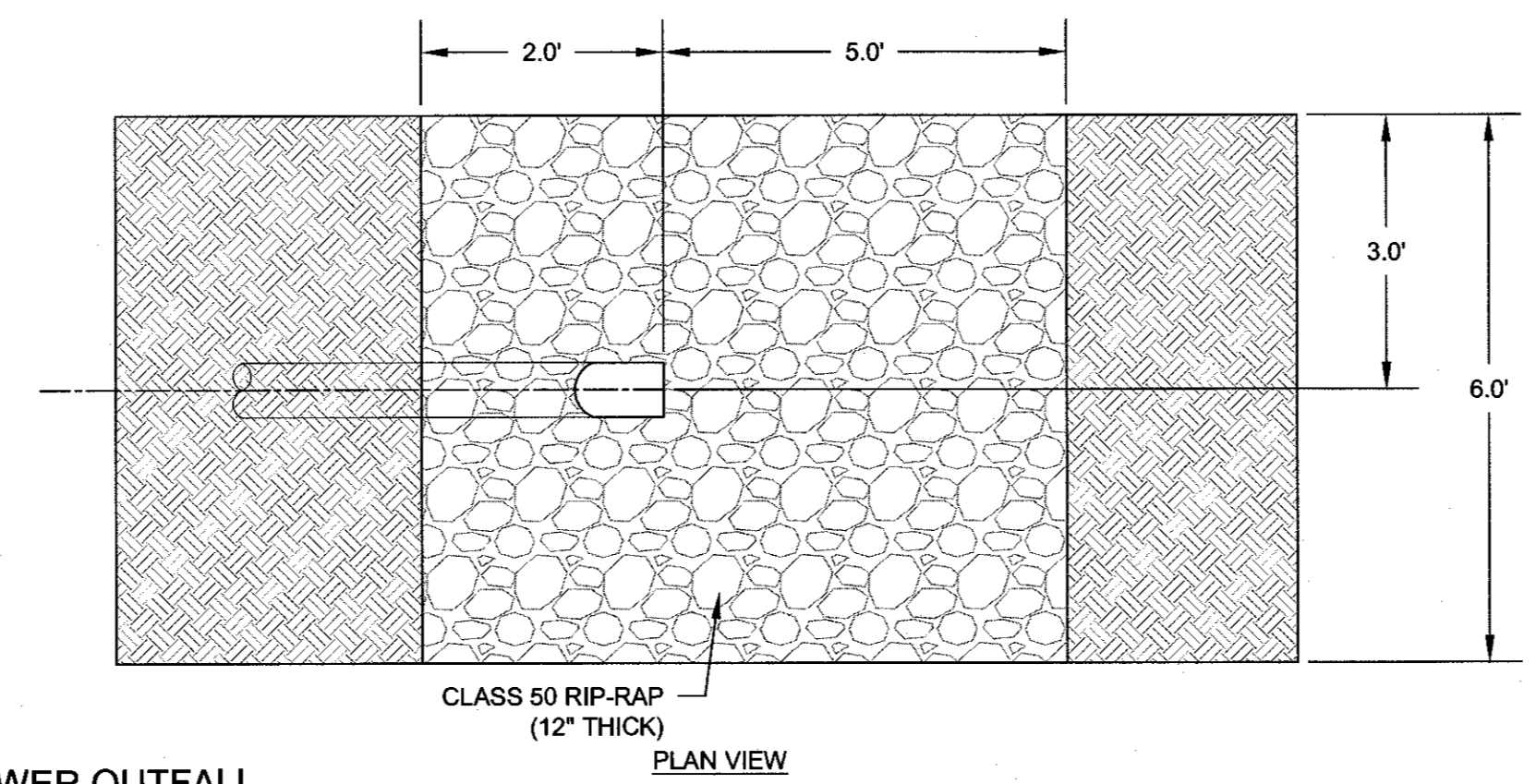
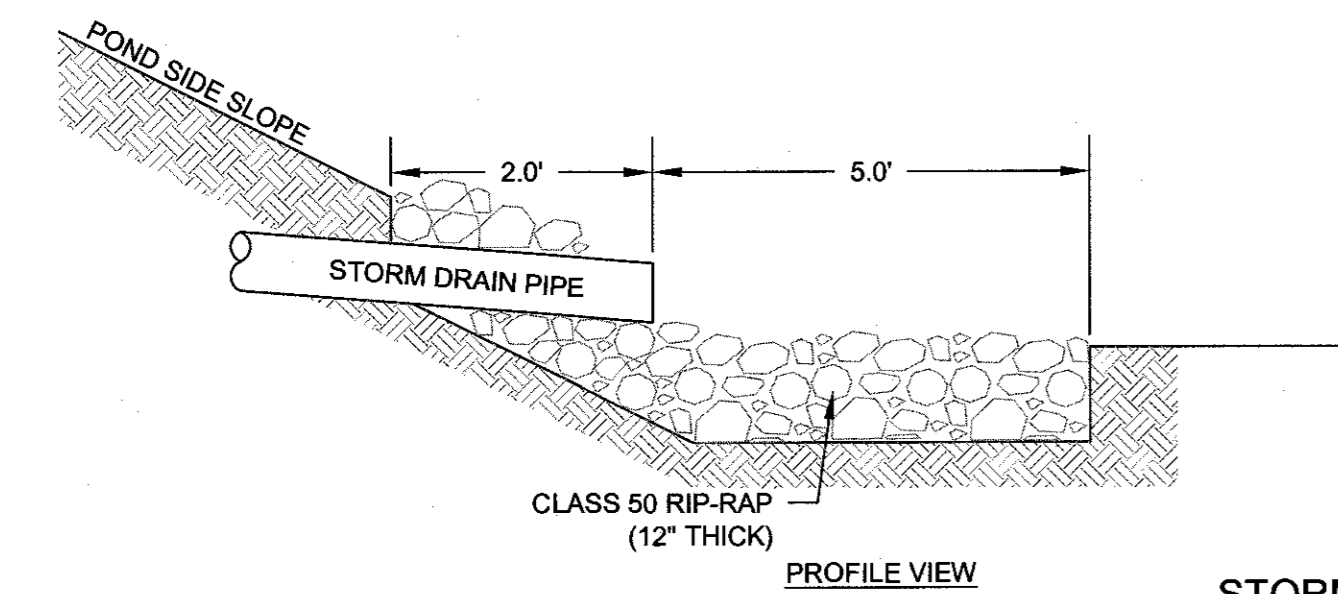
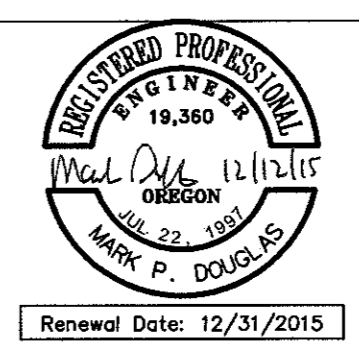


BUS STOP PAD DETAILS
1" = 5' 2 SD-08

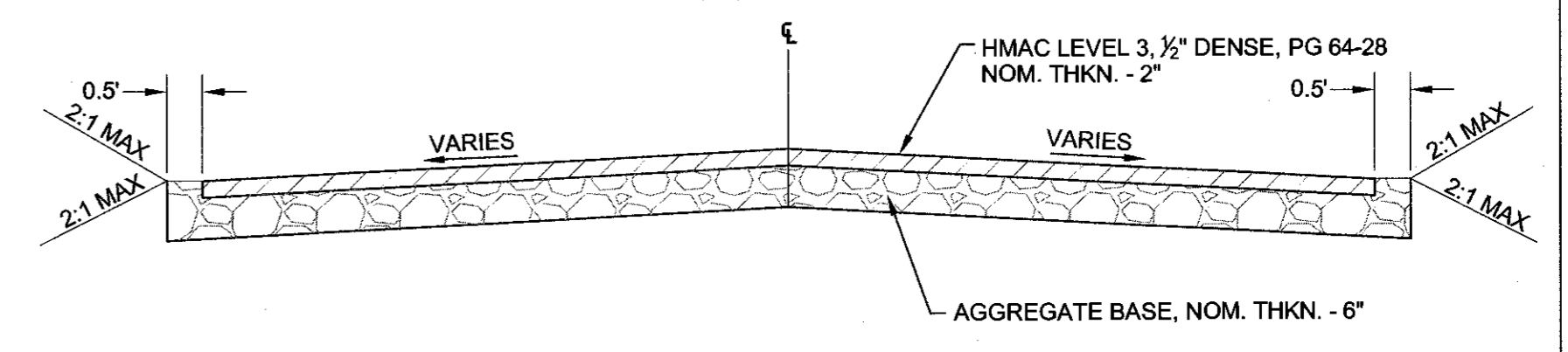
RECORD DRAWING CERTIFICATION

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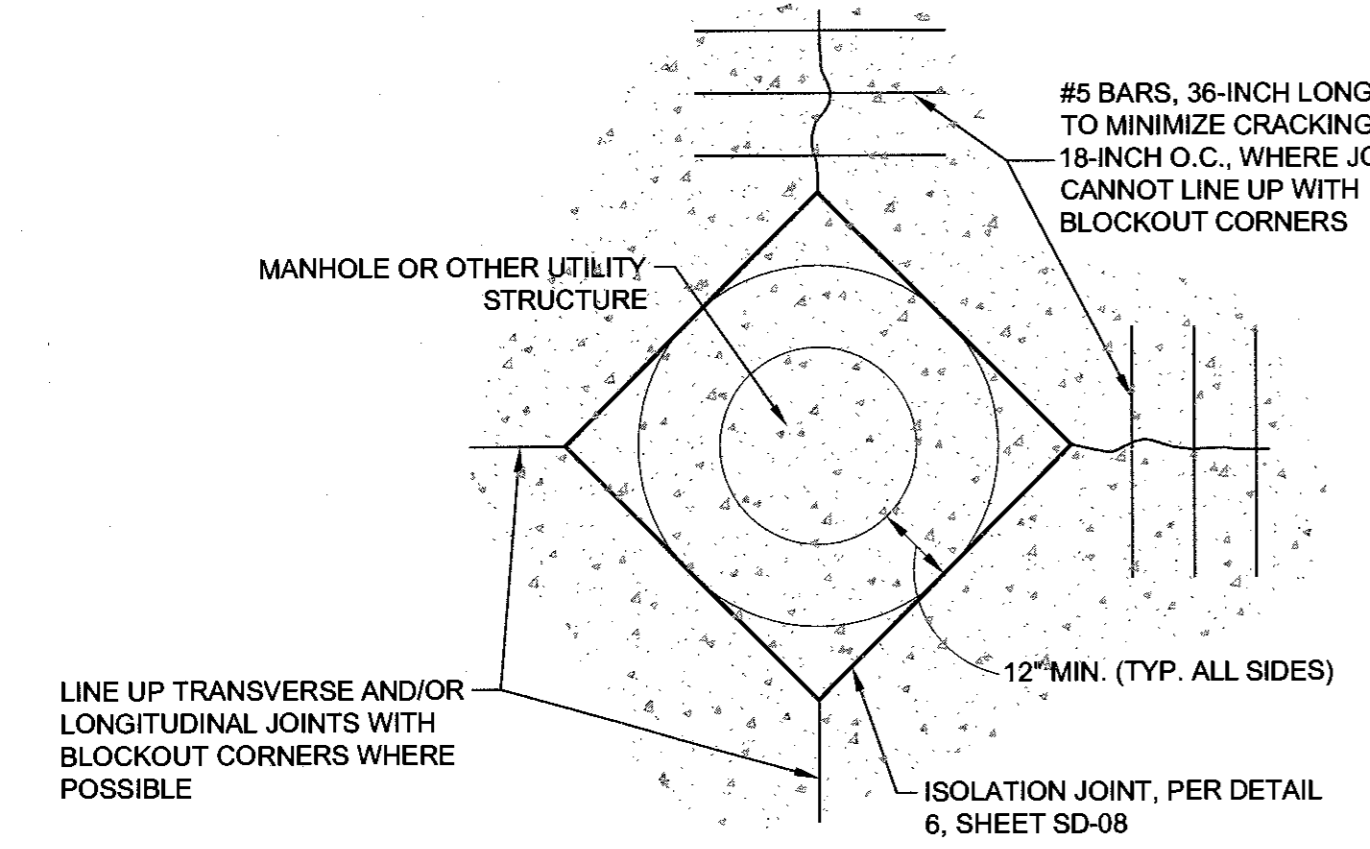
Signature: *Mark P. Douglas*
Date: 12/21/15



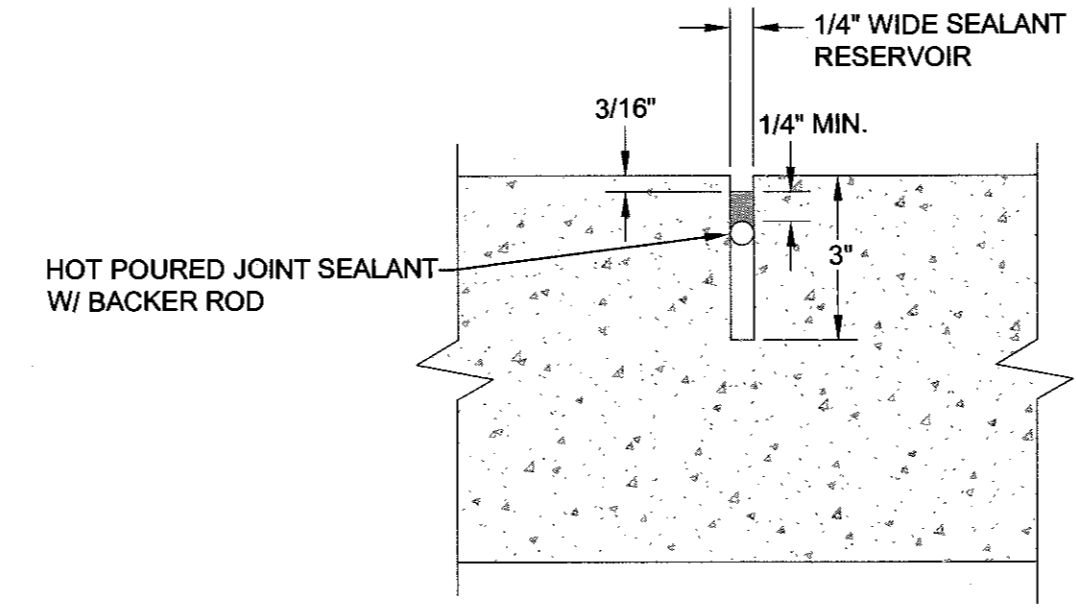
STORM SEWER OUTFALL AT INFILTRATION SWALE DETAIL
SCALE: N.T.S. 3 SD-08



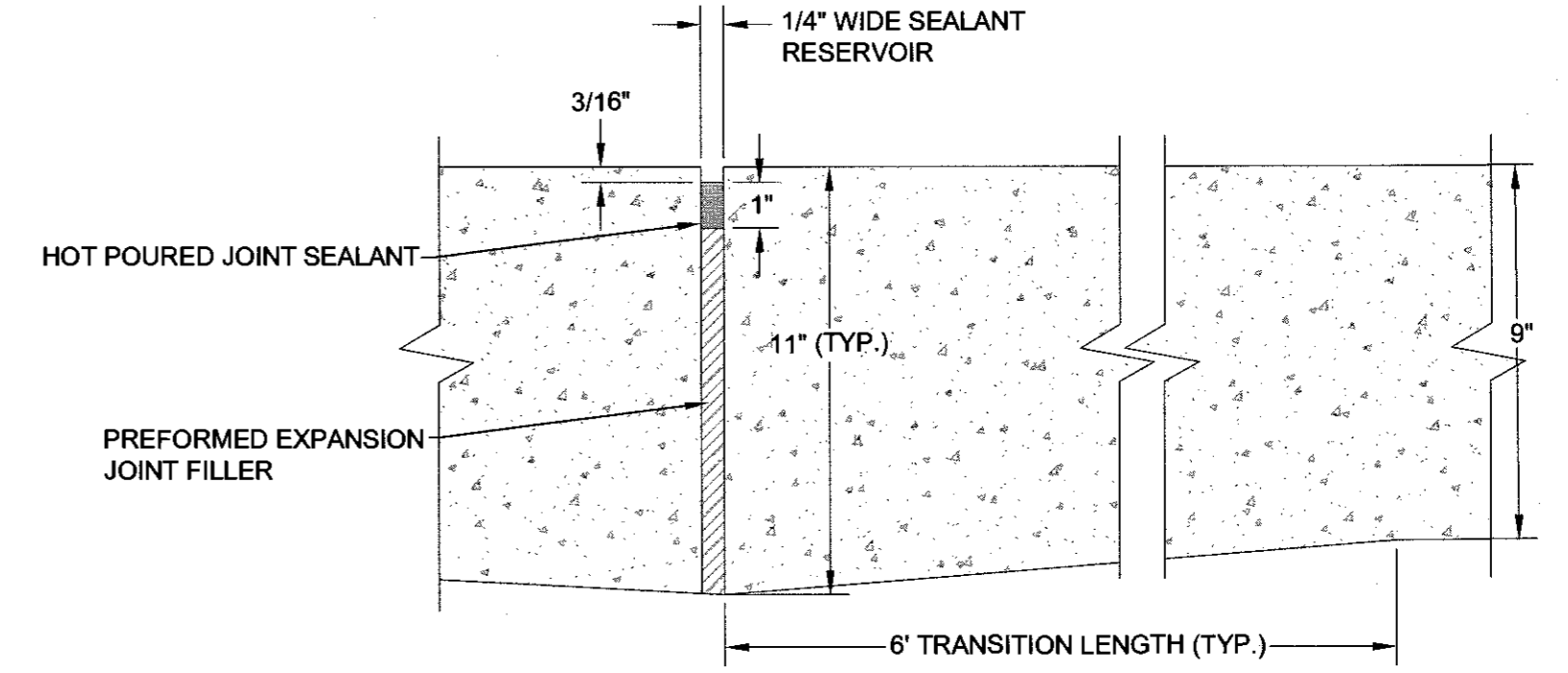
DRIVEWAY ASPHALT TRANSITION DETAILS
SCALE: N.T.S. 4 SD-08



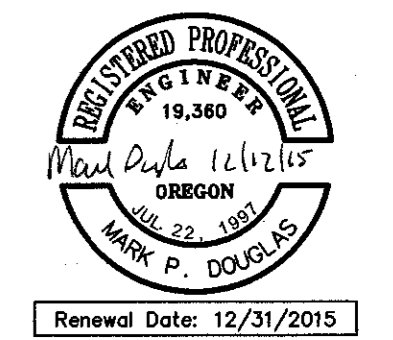
PCC UTILITY BLOCKOUT
SCALE: N.T.S. 5 SD-08



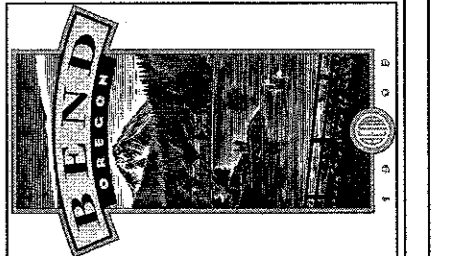
PCC JOINT DETAILS
SCALE: N.T.S. 6 SD-08



- NOTES**
1. ALSO REFERENCE ODOT DETAIL DET1600
 2. ISOLATION JOINTS TO BE USED WHERE POURING CONCRETE AGAINST ANOTHER CONCRETE STRUCTURE SUCH AS CURB, GUTTER, DRIVEWAYS, SIDEWALK, UTILITY BLOCK OUTS, UNLESS A TIED JOINT IS CALLED FOR. THICKENED EDGE IS NOT REQUIRED WHERE TIED JOINT IS CALLED FOR.



**REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
TYPICAL DETAILS**
CITY OF BEND, OREGON



REVISIONS:

1.	MPD 12/09/2015	RECORD DRAWING
2.		
3.		

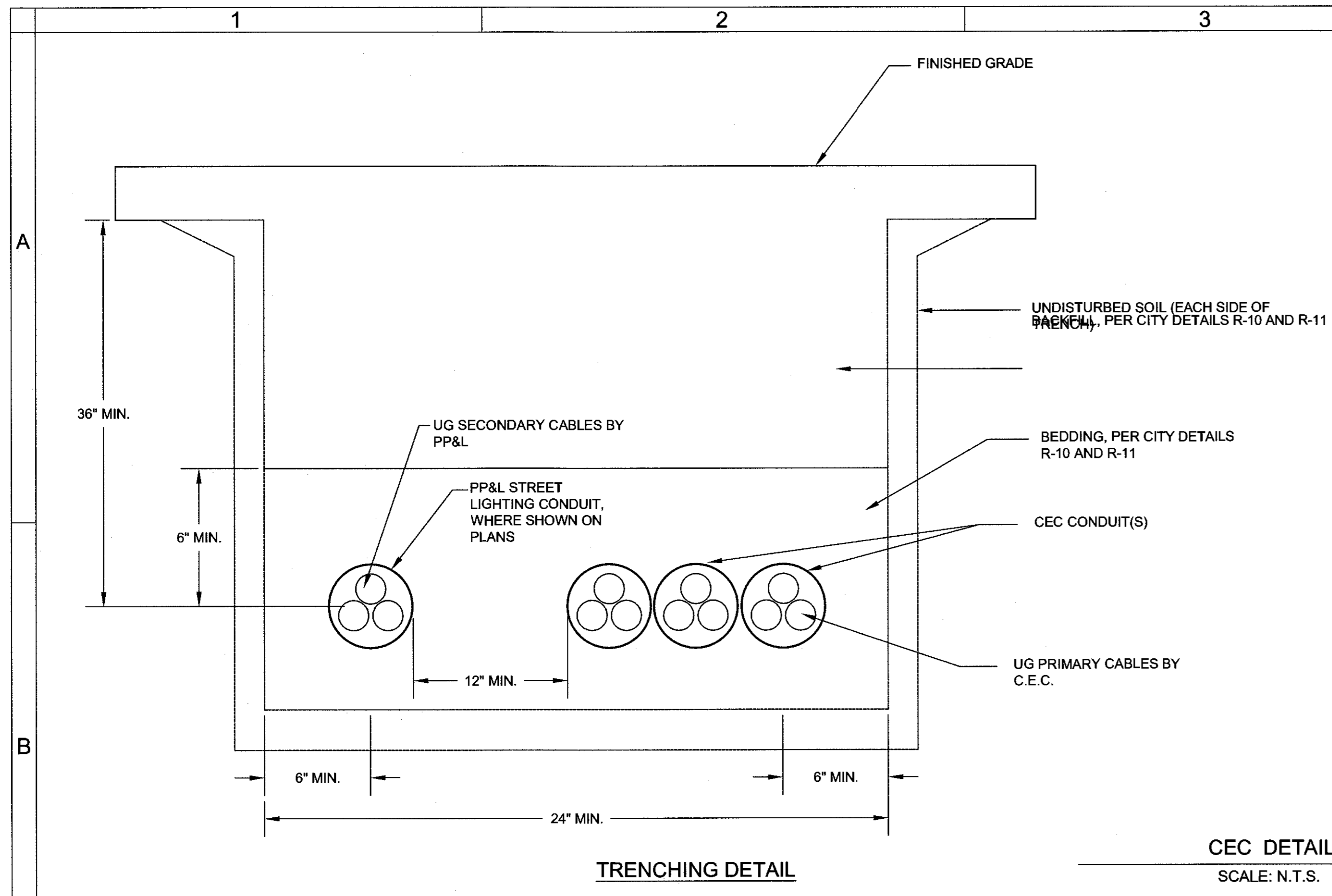
HWA SURVEYORS, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC.
42930 O.E. RILEY ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541.389.9351 FAX: 541.388.5416

DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

VERIFY SCALES
0 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SD-08

COB # ST12CJ



TRENCHING DETAIL

CEC SPECIFICATIONS

EXCAVATION/BACKFILL:

1. CONTRACTOR SHALL PERFORM ALL EXCAVATION, BEDDING AND BACKFILL OF PRIMARY TRENCHES.
2. PRIMARY TRENCHES SHALL BE A MINIMUM OF 24 INCHES WIDE AND 36 INCHES DEEP WHEN MEASURED FROM FINISHED GRADE TO THE CENTER OF PRIMARY CONDUIT.
3. CONDUIT BEDDING AND BACKFILL SHALL MEET CITY OF BEND STANDARDS
4. TRENCH BOTTOM SHALL BE FLAT AND LEVEL WITH NO SHARP ROCK PROJECTIONS.
5. CONTACT CEC FOR INSPECTION PRIOR TO BACKFILLING ALL CONDUIT RUNS AND VAULT SITES. CEC IS TO INSTALL GROUNDING AND ANODES AT ALL VAULT SITES PRIOR TO BACKFILLING (CONTACT CEC TO COORDINATE).
6. MINIMUM 12" HORIZONTAL SEPARATION TO COMMUNICATIONS CONDUITS. NO OTHER UTILITIES ALLOWED IN COMMON TRENCH.

CONDUIT:

1. CONTRACTOR SHALL PROVIDE AND INSTALL ALL PRIMARY AND SECONDARY SCHEDULE 40 PVC GRAY ELECTRICAL CONDUITS.
2. ALL CONDUIT JOINTS MUST BE GLUED. ONLY SCHEDULE 40 PVC FITTINGS WILL BE ALLOWED (NO WHITE PVC OR BLACK ABS).
3. ALL CONDUIT RUNS SHALL HAVE A CONTINUOUS (NO KNOTS) 1/4 INCH DIAMETER TWISTED BRAID POLYPROPYLENE PULL ROPE INSTALLED.
4. ALL CONDUIT RUNS NOT TERMINATING IN A VAULT MUST HAVE THE NON-VAULT END SWEPT UP AND CAPPED PER CEC.
5. VAULT SITES WILL HAVE A SURROUNDING CLEAR ZONE PER CEC. OTHER UTILITIES (WATER, PHONE, CATV) EQUIPMENT SHALL NOT BE PLACED WITHIN CEC CLEAR ZONE, OR BETWEEN VAULT AND STREET.
6. CONTRACTOR IS RESPONSIBLE FOR THE INTEGRITY OF ALL CONDUIT RUNS. CONDUIT MUST BE FREE OF MUD, WATER AND DEBRIS.
7. ALL PRIMARY CONDUIT SWEEPS SHALL BE 36" RADIUS FACTORY FORMED FIBERGLASS. FIELD FORMING SWEEPS WILL NOT BE ACCEPTED.

VAULTS AND COVERS:

1. CONTRACTOR SHALL PROVIDE AND SET ALL PRIMARY VAULTS WITH COVERS. SEE VAULT AND COVER SCHEDULE ON CEC PLANS. ALL VAULTS SHALL BE LEVEL.
2. VAULTS ARE TO BE SET 0.1' ABOVE THE PROPOSED ADJACENT SIDEWALK GRADES.
3. SURROUNDING GRADE AT VAULT SITES IS TO BE LEVEL TO WITHIN TWO (2) INCHES FOR A DISTANCE OF FOUR (4) FEET IN ALL DIRECTIONS FROM THE OUTSIDE VAULT EDGES.
4. AT VAULT LOCATIONS, EXCAVATOR SHALL BED AND COMPACT BOTTOM OF VAULT SITE WITH 6 INCHES OF EITHER 1/4 INCH MINUS OR 1/2 INCH COMMERCIAL REJECT MATERIAL PRIOR TO SETTING VAULT.
5. SEE PLANS FOR VAULT AND COVER INFORMATION FOR EACH LOCATION. VAULTS ARE TO HAVE "TERM-A-DUCT" STYLE KNOCKOUTS AND DO NOT REQUIRE THRUST BLOCKS OR GROUTING EXCEPT AS NOTED OR SHOWN ON SPECIFICATIONS. CONTACT CEC ENGINEER FOR SPECIFIC KNOCKOUTS TO USE AT EACH VAULT LOCATION. FACTORY KNOCKOUT COVERS ARE TO BE COMPLETELY AND CLEANLY REMOVED. CONDUITS ARE TO BE INSTALLED FULLY INTO KNOCKOUTS.

GENERAL NOTES:

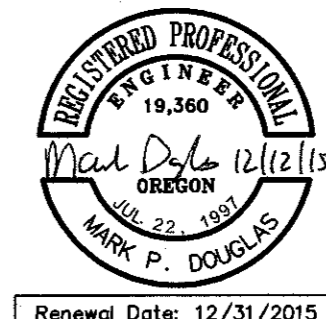
1. NO GAS, WATER OR SEWER FACILITIES MAY BE INSTALLED IN ELECTRIC TRENCHES. EXCEPTIONS MUST BE APPROVED IN WRITING BY CEC.
2. CEC WILL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF CONTRACTOR OR ANY SUBCONTRACTOR OR OTHER PERSONS AT SITE PERFORMING ANY OF THE WORK.

RECORD DRAWING CERTIFICATION

I CERTIFY THAT THIS PROJECT HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE CITY APPROVED PLANS AND THE CITY OF BEND PUBLIC IMPROVEMENT CONSTRUCTION PROCEDURE STANDARD AND SPECIFICATIONS, DATED JULY 1, 2011. THIS CERTIFICATION IS BASED ON PERIODIC INSPECTIONS PERFORMED BY ME OR BY REPRESENTATIVES UNDER MY DIRECT SUPERVISION AND INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND OTHER INDEPENDENT TESTING AND INSPECTION AGENCIES. THE INFORMATION PROVIDED BY OTHERS HAS BEEN ASSUMED TO BE CORRECT AND HAS NOT BE VERIFIED BY THE ENGINEER. THIS CERTIFICATION INDICATES THAT I HAVE REVIEWED THIS INFORMATION AND VERIFIED THAT ANY REVISION(S) OR CHANGES AS DEFINED BY THE RECORD DO NOT APPEAR TO BE ADVERSE TO THE PLANNED USE AND/OR INTENT OF THE ORIGINAL DESIGN.

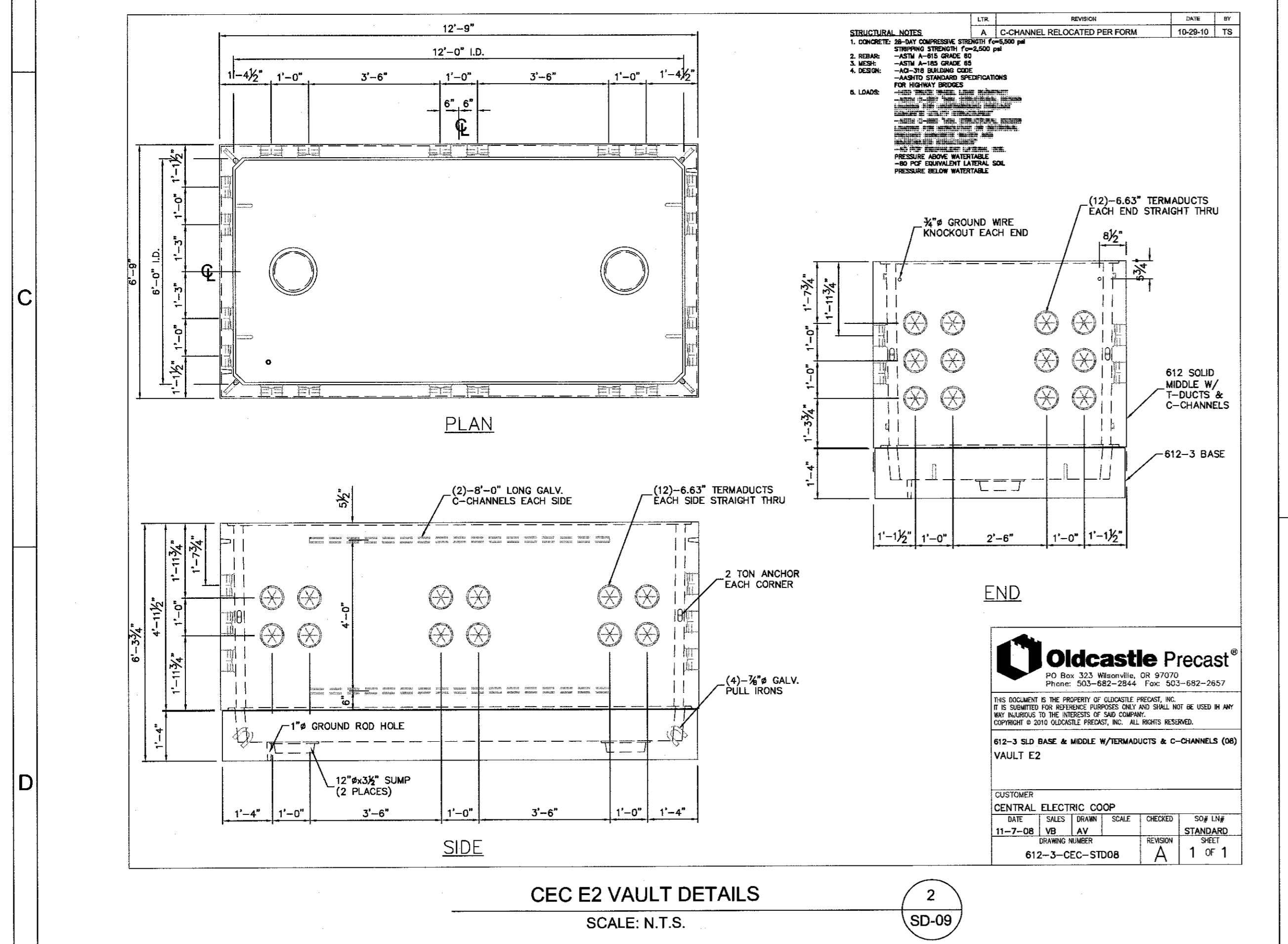
Mark Doyle
Signature

12/12/15
Date



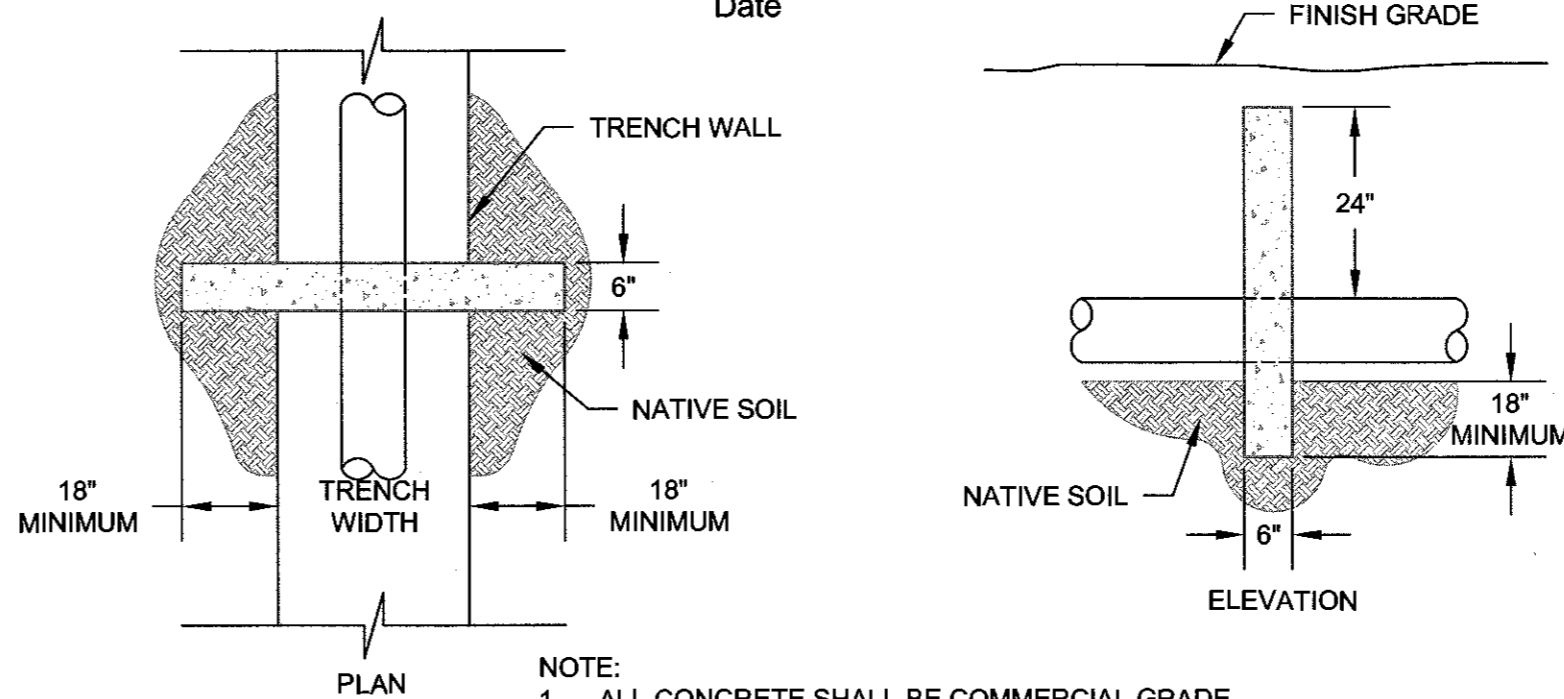
CEC DETAILS
SCALE: N.T.S.

1
SD-09



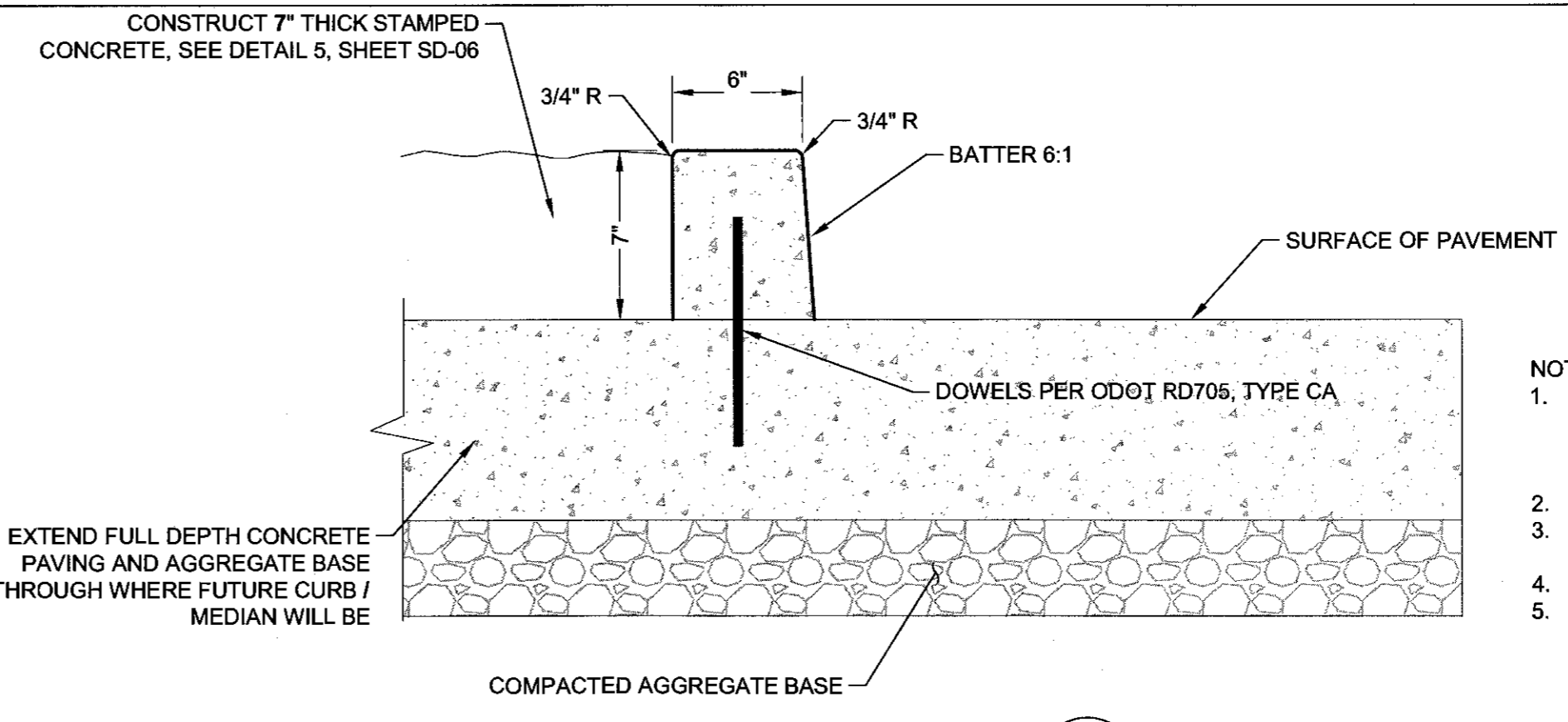
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SCALE: N.T.S.

2
SD-09



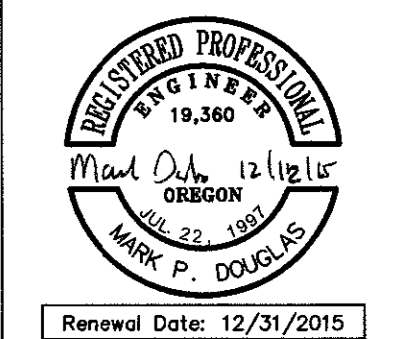
CUT-OFF WALL DETAIL
SCALE: N.T.S.

3
SD-09

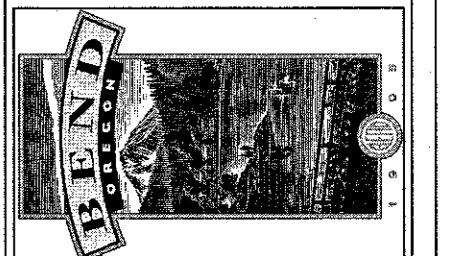


DOWELLED CURB DETAIL
SCALE: N.T.S.

4
SD-09



REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
TYPICAL DETAILS
CITY OF BEND, OREGON



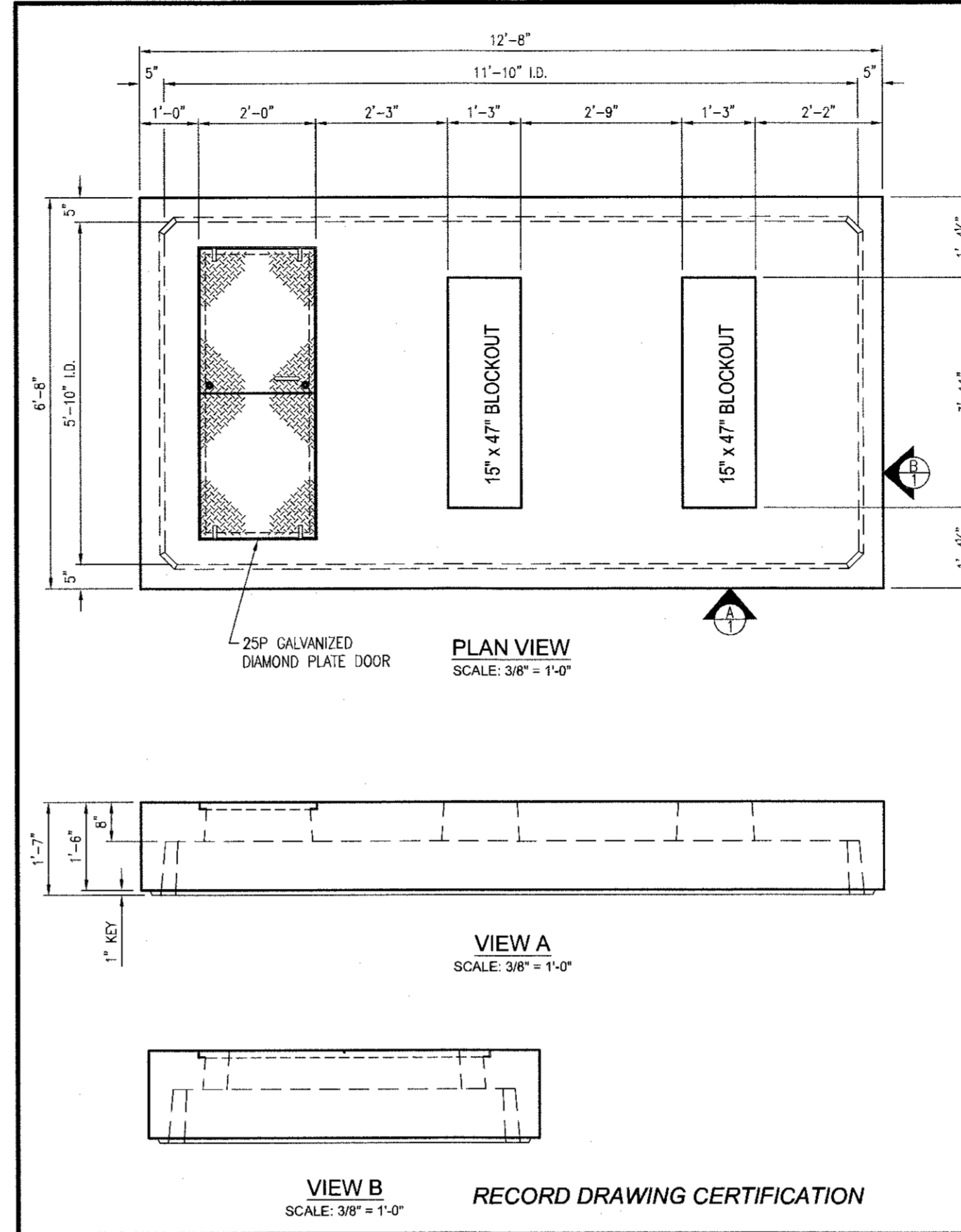
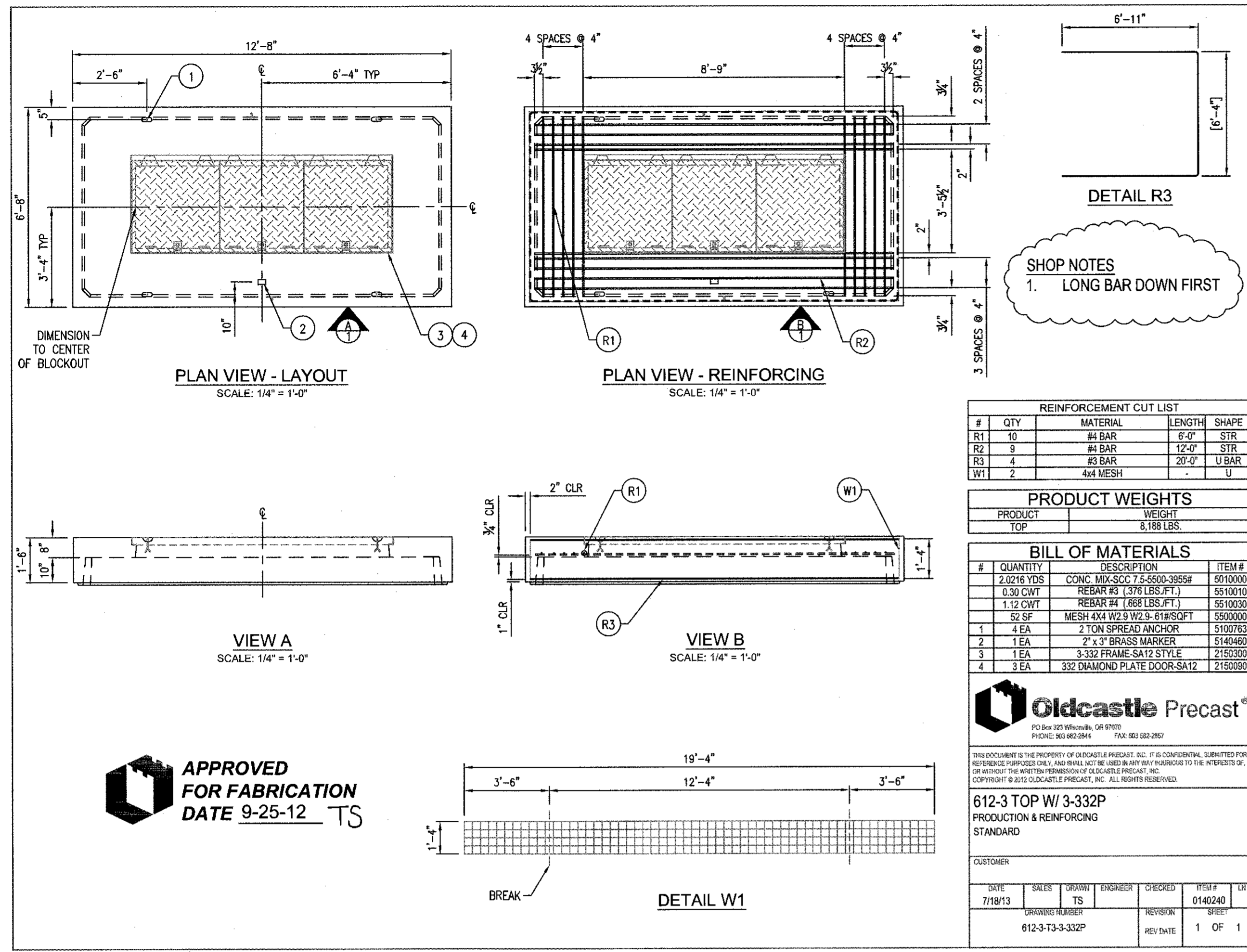
REVISIONS:
1. MPD 12/09/2015 RECORD DRAWING
2.
3.

HWA
SURVEYORS, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC.
6280 G & RIETZ ROADS, SUITE 100
BEND, OREGON 97701
PHONE 541.389.9351 FAX: 541.386.5416

DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

VERIFY SCALES
0 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING
SHEET:
SD-09

COB # ST12CJ



Oldcastle Precast
 700 West 12th Street, Bend, OR 97701
 PHONE: 503-338-2844 FAX: 503-338-2850

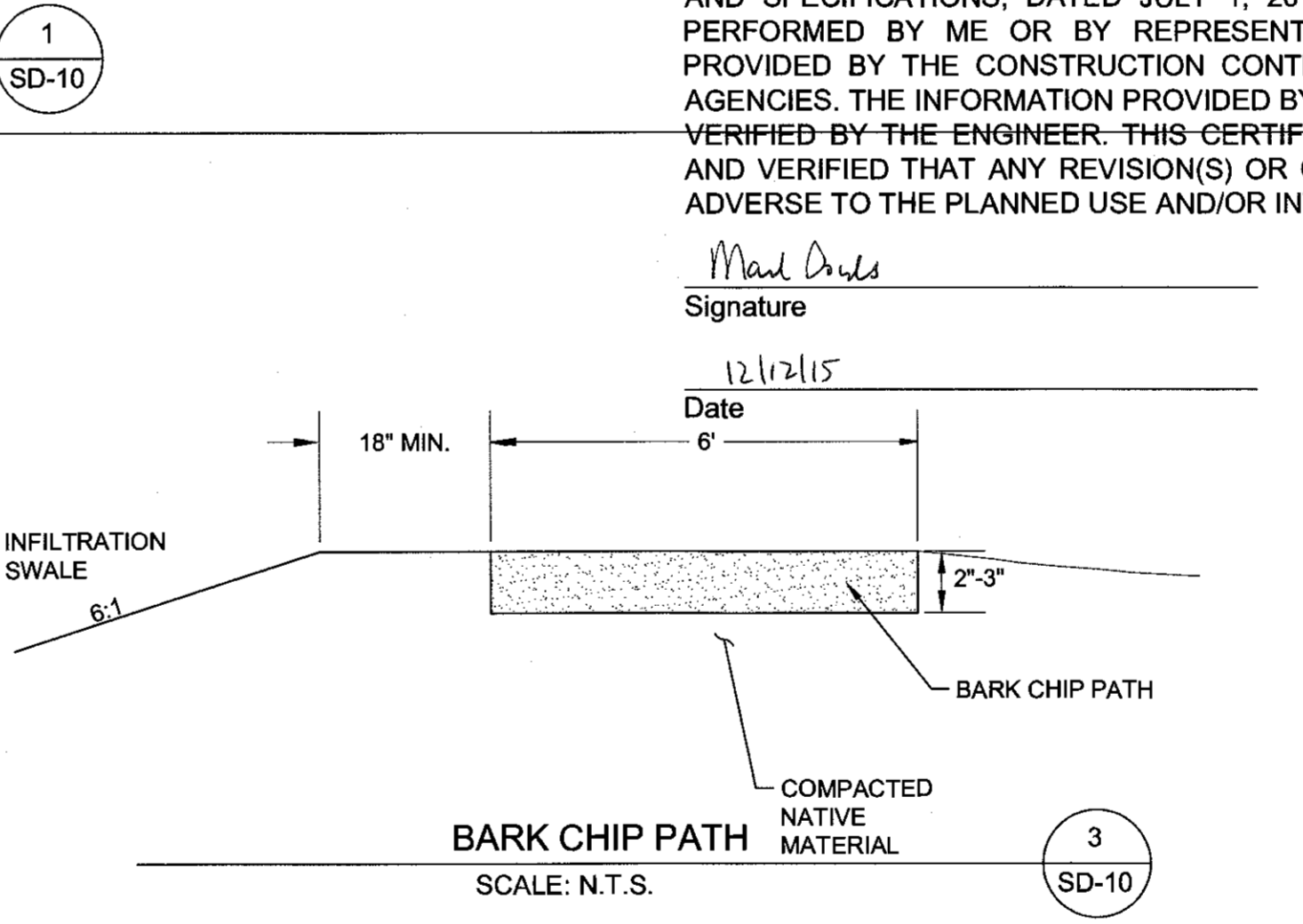
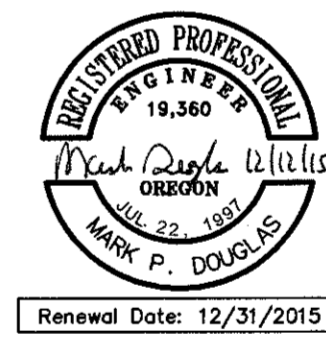
612-3 TOP W/ 3-332P
 PRODUCTION & REINFORCING STANDARD

DATE	SUBMIT	ENGINEER	CHECKED	STATUS	DATE
7/28/13	TS			0142240	
612-3-T3-332P					1 OF 1

CEC VAULT LID DETAILS
SCALE: N.T.S.

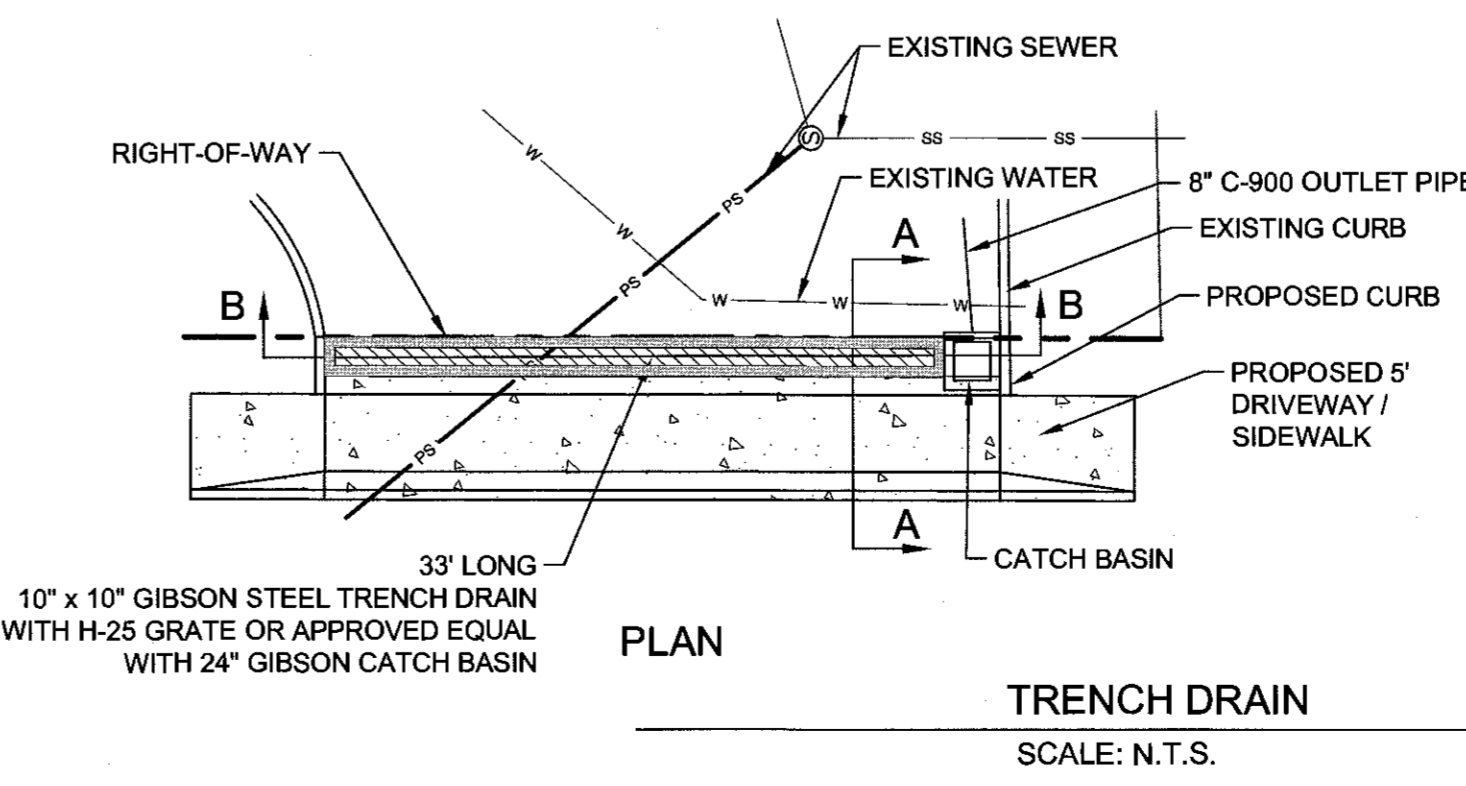
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Mark Douglas
Signature
Date: 12/12/15

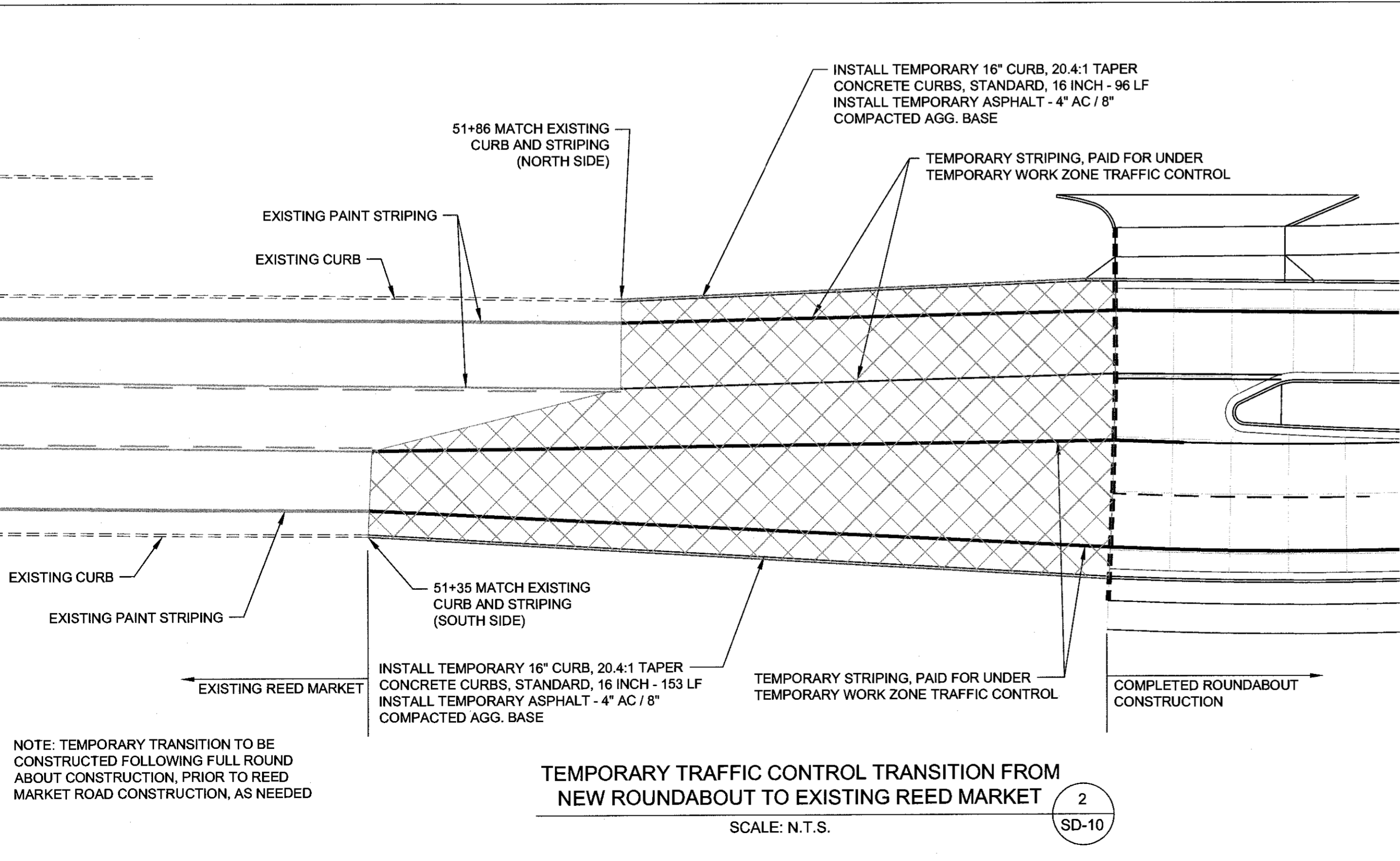


BARK CHIP PATH
SCALE: N.T.S.

SECTION B-B



TRENCH DRAIN
SCALE: N.T.S.



TEMPORARY TRAFFIC CONTROL TRANSITION FROM NEW ROUNDABOUT TO EXISTING REED MARKET



REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
TYPICAL DETAILS
CITY OF BEND, OREGON



REVISIONS:

NO.	DESCRIPTION
1	1. IMPD. 12/09/2015 RECORD DRAWING
2	
3	

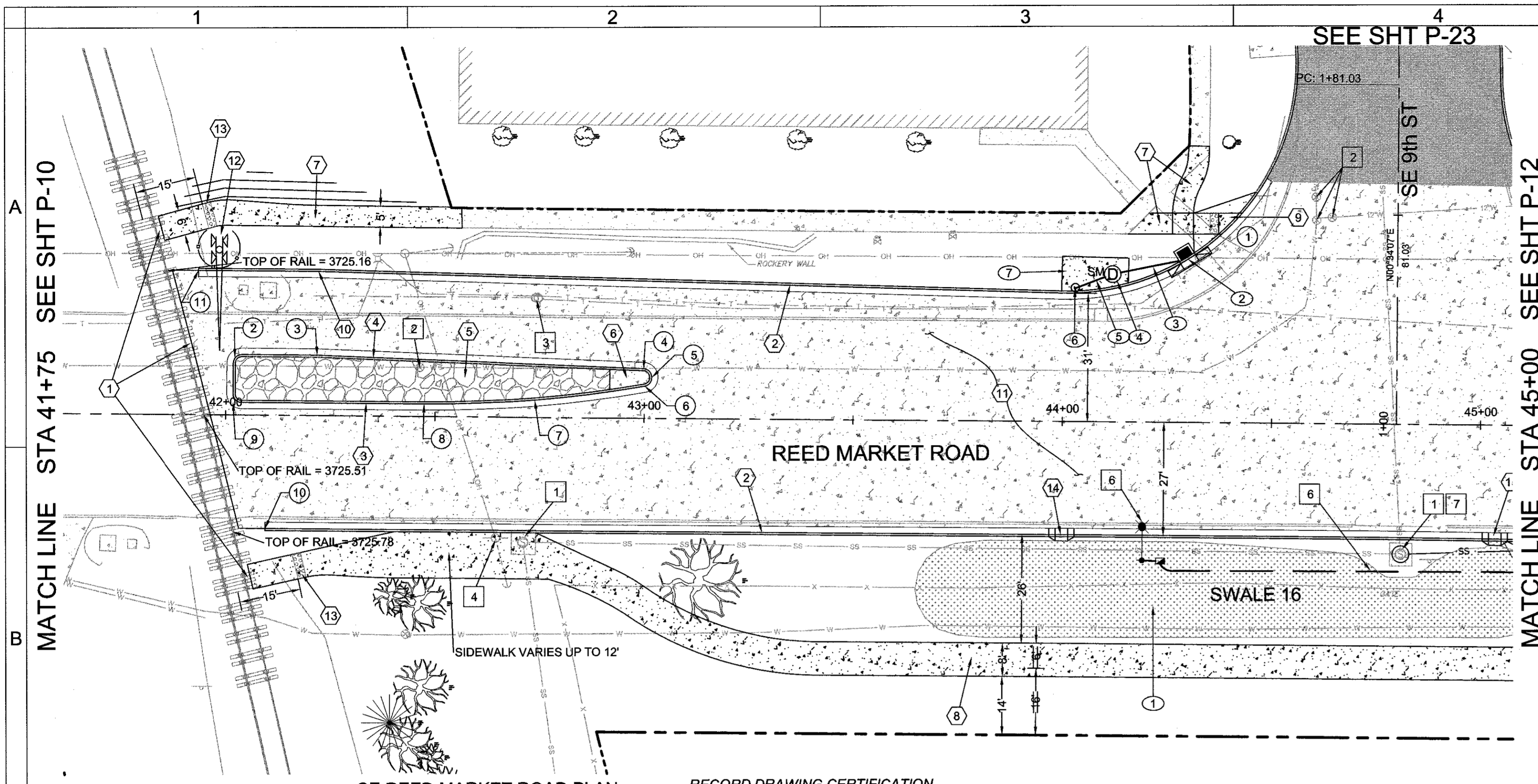
HWA SURVEYORS, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC.
62750 CO. X. WILEY ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541-389-9351 FAX: 541-388-5416

DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

VERIFY SCALES
0 1" BAR EQUALS ONE INCH ON ORIGINAL DRAWING
SHEET:

SD-10

COB # ST12CJ

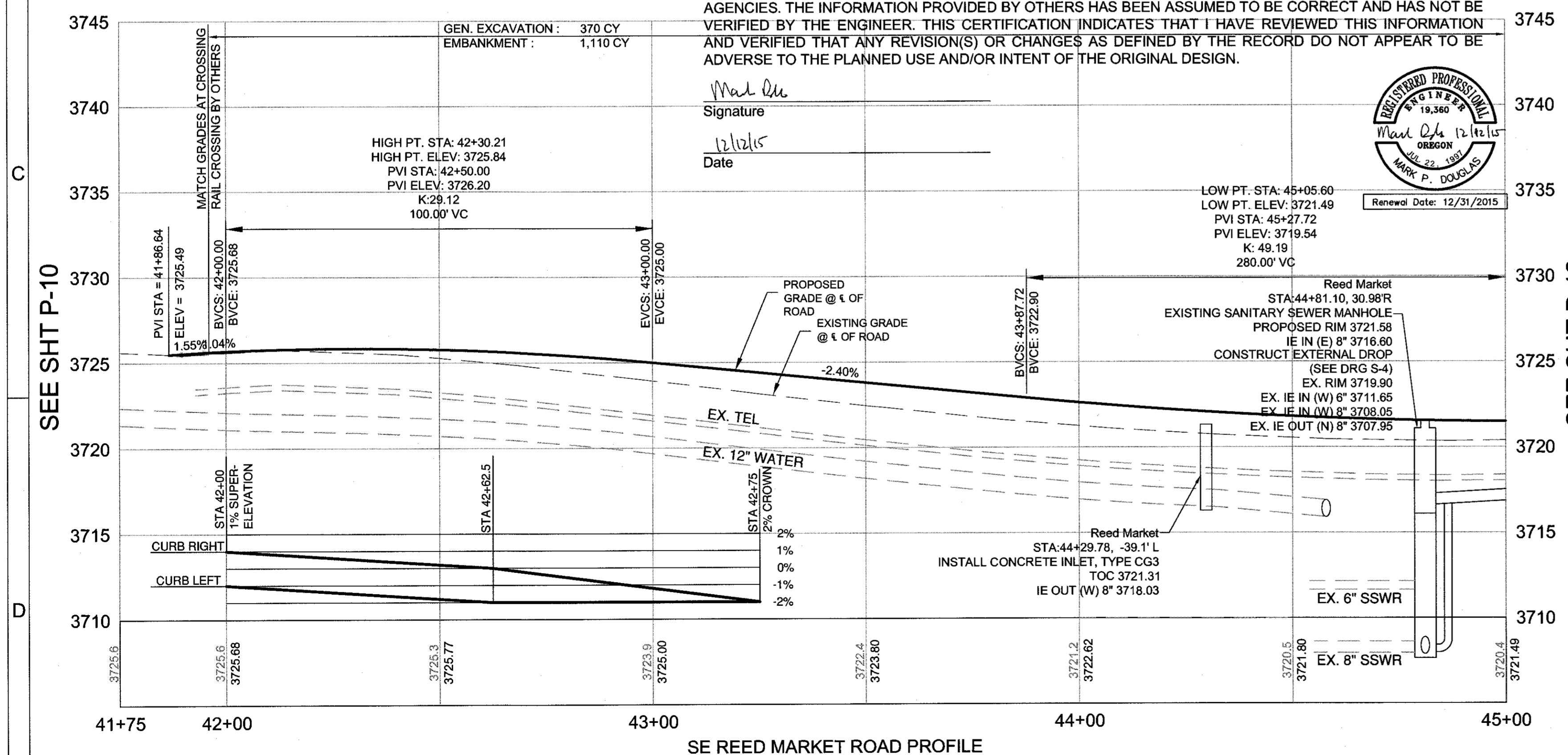


SE REED MARKET ROAD PLAN
STA 41+75 TO STA 45+00
SCALE: 1" = 20'

RECORD DRAWING CERTIFICATION

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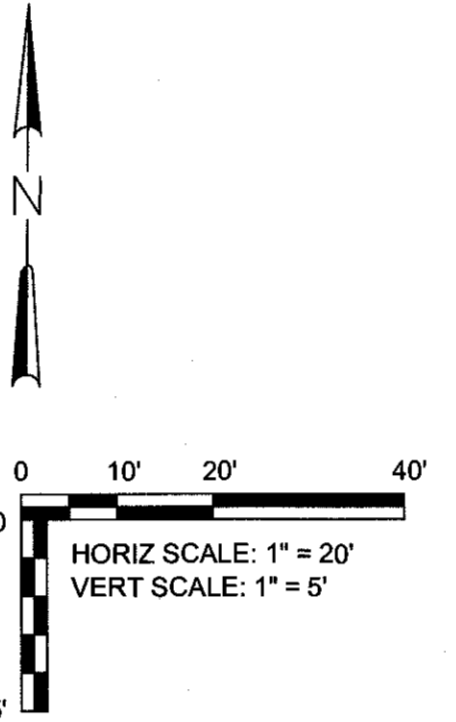
Signature: *Mark P. Douglas*
Date: 12/21/15



SE REED MARKET ROAD PROFILE
STA 41+75 TO STA 45+00
SCALE: 1" = 20' HORIZ
1" = 5' VERT

ROAD AND SIDEWALK CONSTRUCTION NOTES:

- 1 MATCH GRADES AT RAILROAD CROSSING. RAILROAD CROSSING BY OTHERS.
- 2 STA 41+93.29, 34.50' LT - 44+48.49, 58.48' LT ; 42+09.60, 27.00' RT - 45+00, 27.17' RT CONSTRUCT CONCRETE CURB AND GUTTER - 562 LF (SEE DETAIL 2/SD-06)
- 3 STA 42+01.75 - 43+01.75 CONSTRUCT MEDIAN CONCRETE CURB AND GUTTER - 103 LF (SEE DETAIL 2/SD-06)
- 4 STA 42+01.75 - 43+01.75 CONSTRUCT MEDIAN CONCRETE CURB AND GUTTER - 112 LF (SEE DETAIL 2/SD-06)
- 5 STA 42+02.25 - 42+91.75 CONSTRUCT STAMPED COLORED CONCRETE MEDIAN - 809 SF (SEE DETAIL 5/SD-06)
- 6 CONSTRUCT MEDIAN END (SEE COB DRG R-25) CONSTRUCT 6" THICK CONCRETE PAVEMENT - 37 SF
- 7 STA 41+84.30, 44.45' LT - 42+56.10, 47.61' LT ; 44+15.49, 44.90' LT - 44+34.74, 66.07' LT CONSTRUCT CONCRETE WALKS - 537 SF (SEE COB DRG R4-A, WIDTH VARIES - SEE PLAN)
- 8 STA 42+06.16, 38.52' RT - 45+00.00, 56.00' RT CONSTRUCT CONCRETE WALKS - 1,791 SF (SEE COB DRG R4-A, 6' WIDTH)
- 9 CONSTRUCT PERPENDICULAR CURB RAMP - 86 SF (SEE COB DRG R-6A) REFER TO GRADING DETAIL, THIS SHEET
- 10 STA 42+21.94, 34.50' LT TAPER POINT
- 11 CONSTRUCT PLAIN DOWELED CONCRETE AND AGGREGATE BASE PER TYPICAL SECTION. SEE SHEETS C-08 - C-14
- 12 INSTALL GUARDRAIL PER ODOT DETAIL RD445, AFTER RR CROSSING GATE INSTALLED. GUARDRAIL, TYPE B - 25 FEET GUARDRAIL END PIECES, TYPE 3 - 2 EA.
- 13 INSTALL TRUNCATED DOME DETECTABLE WARNINGS 15' FROM CENTER OF TRACKS TRUNCATED DOME DETECTABLE WARNINGS - 24 SF
- 14 STA 44+00.00, 27.00' RT CONSTRUCT CONCRETE CURB CUT SEE DETAIL, SHEET SD-05



STORM SEWER CONSTRUCTION NOTES:

- 1 CONSTRUCT SWALE 16. (SEE G-05)
- 2 STA 44+29.78, 39.05' LT CONSTRUCT CONCRETE INLET TYPE CG-3 W/18" SUMP - 1 (SEE DRG RD371, RD372, STRM-8, AND 1/P-24)
- 3 STA 44+11.82 - 44+29.78 INSTALL 8" STORM SEWER PIPE, 0-5 FT DEPTH - C900 PVC - 19 LF (SEE COB DRG S-1, 1/P-24)
- 4 STA 44+11.82, 35.33' LT CONSTRUCT SEDIMENTATION MANHOLE - 1 (SEE DRG STRM-7, 1/P24)
- 5 STA 44+02.88 - 44+11.82 INSTALL 8" STORM SEWER PIPE, 0-5 FT DEPTH - C900 PVC - 10 LF (SEE COB DRG S-1, 1/P-24)
- 6 STA 44+02.88, 32.0' LT CONNECT TO EXISTING DRYWELL ADJUST RIM TO FINISHED GRADES MINOR ADJUSTMENT OF MANHOLES - 1 USE CONCENTRIC CONE AS NEEDED TO PLACE RIM OUTSIDE CURB (SEE 1/P-24)
- 7 CONSTRUCT 6 FT x 6 FT MIN. CONCRETE PAD AROUND DRYWELL AND MANHOLE (CONSTRUCT CONCRETE WALKS - 120 SF)

UTILITY CONSTRUCTION NOTES:

- 1 ADJUST MANHOLE TO FINISHED GRADES. CONSTRUCT NEW CONCRETE PAD AT FINISHED GRADES MINOR ADJUSTMENT OF MANHOLES - 2 (SEE DRG S-3B)
- 2 ADJUST WATER VALVE BOX TO FINISHED GRADES ADJUSTING BOXES - 4
- 3 ADJUST EXISTING TELEPHONE MANHOLE TO FINISHED GRADES (BY OTHERS) EX. RIM = 3724.13, NEW RIM = 3724.94
- 4 REMOVE EXISTING POWER POLE AND GUY (BY PP&L)
- 5 NOT USED
- 6 SEE SHEETS IL-01 TO IL-05 FOR ILLUMINATION PLANS

SEWER CONSTRUCTION NOTES:

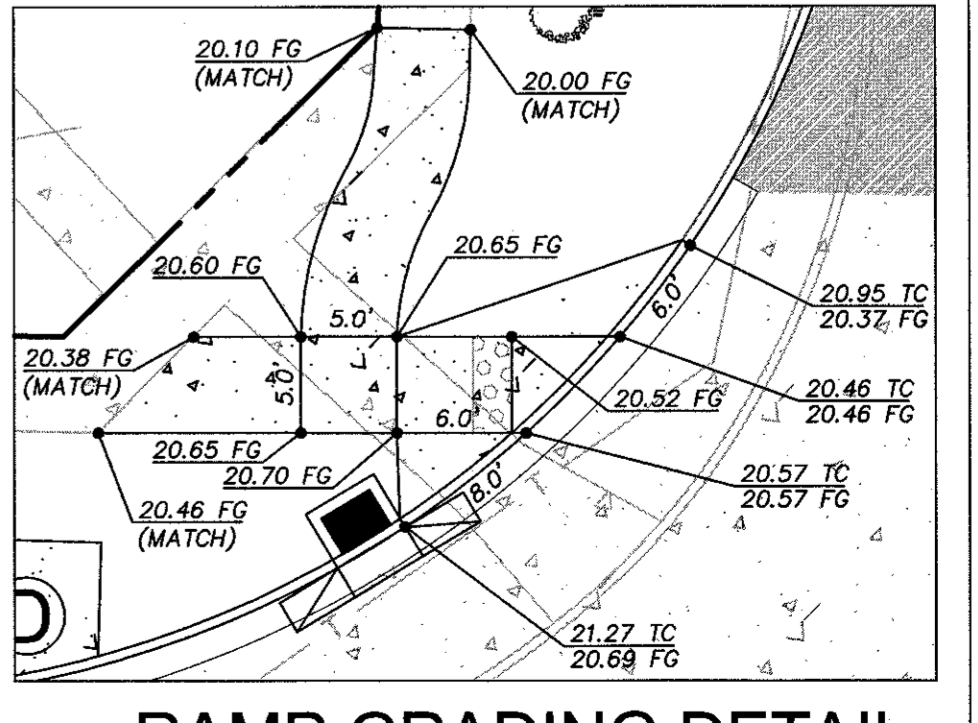
- 7 STA 44+81.10, 30.98' RT CONNECT TO EXISTING SANITARY SEWER MANHOLE WITH EXTERNAL DROP PER COB DRG S-4 CONNECTION TO EXISTING STRUCTURES - 1

CURB RETURN TABLE

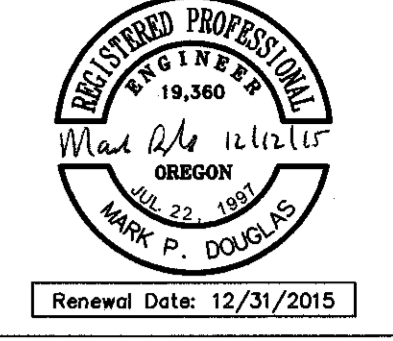
DESC.	FC LOCATION	TP ELEV.	RADIUS	LENGTH
PC	STA 43+99.52, 30.70' LT	3722.02		
1/4 Δ	STA 44+21.22, 34.67' LT	3721.04		
1/2 Δ	STA 44+39.62, 46.84' LT	3720.53	55'	88.85'
3/4 Δ	STA 1+65.26, 28.16' LT	3719.90		
PT	STA 1+87.54, 24.18' LT	3718.84		

POINT	FC LOCATION	TP ELEV	DESC	RADIUS
2	STA 42+02.34, 13.91' LT	3725.55	1/2Δ	2 FT
3	STA 42+21.75, 14.50' LT	3725.64	PT	
4	STA 42+99.82, 11.89' LT	3724.77	PC	
5	STA 43+01.75, 9.78' LT	3724.76	1/2Δ	2 FT
6	STA 43+00.10, 7.70' LT	3724.85	PT	
7	STA 42+73.85, 4.18' LT	3725.43	1/2Δ	298 FT
8	STA 42+47.39, 3.00' LT	3725.73	PT	
9	STA 42+02.34, 3.59' LT	3725.67	1/2Δ	2 FT
10	STA 42+09.60, 27.00' LT	3725.90	PT	
11	STA 41+93.29, 34.50' LT	3725.25	PT	

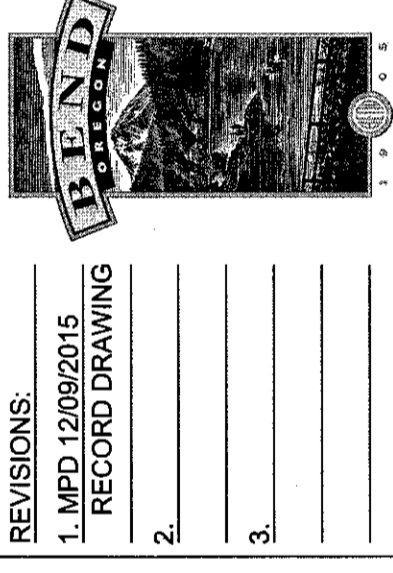
FC = FACE OF CURB PRC = POINT OF REVERSE CURVATURE
TP = TOP OF PAVEMENT 1/2 Δ = MID POINT
PC = POINT OF CURVATURE PT = POINT OF TANGENCY



RAMP GRADING DETAIL
SCALE: 1" = 10'



REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
RMR PLAN & PROFILE, STA 41+75 TO 45+00
CITY OF BEND, OREGON



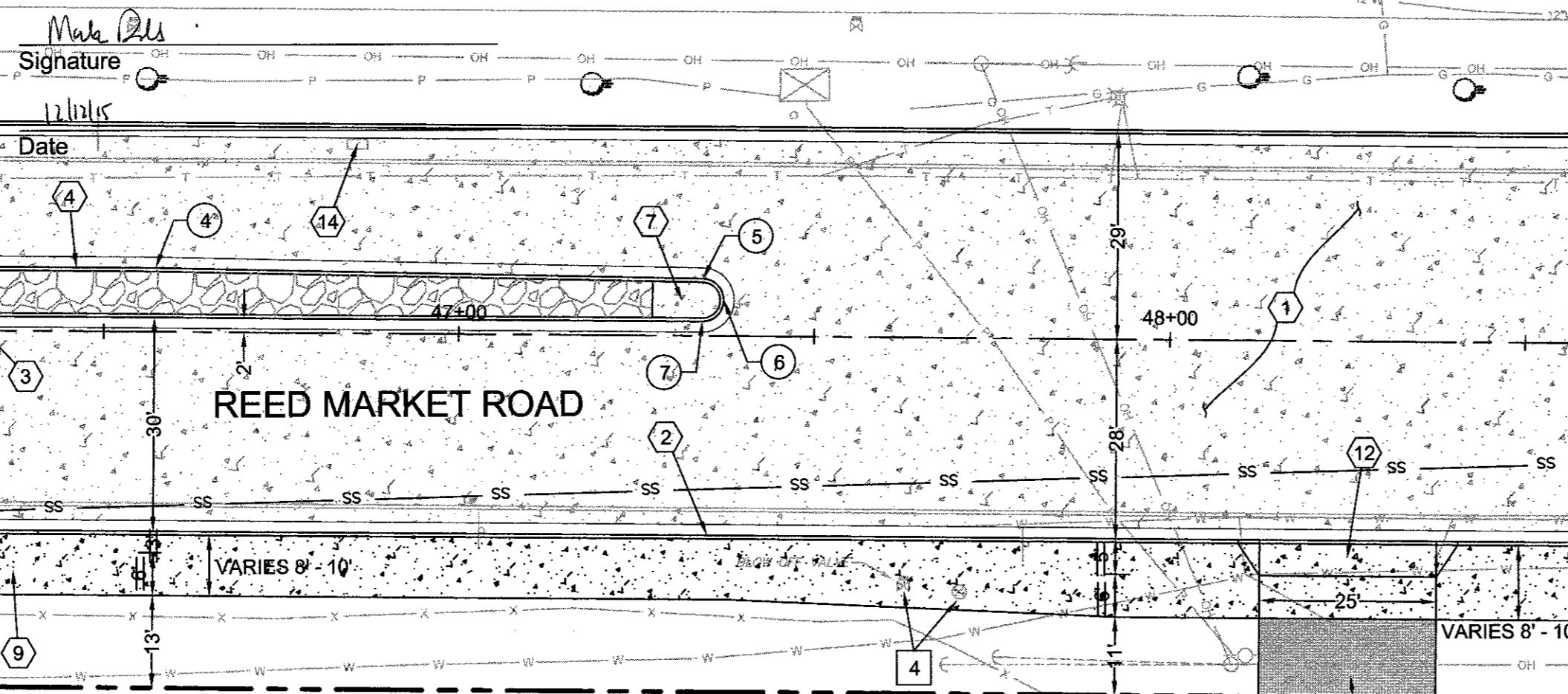
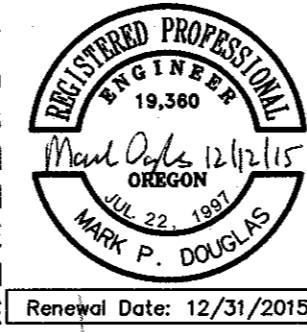
DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

VERIFY SCALES
0 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING
SHEET: P-11

COB # ST12CJ

RECORD DRAWING CERTIFICATION

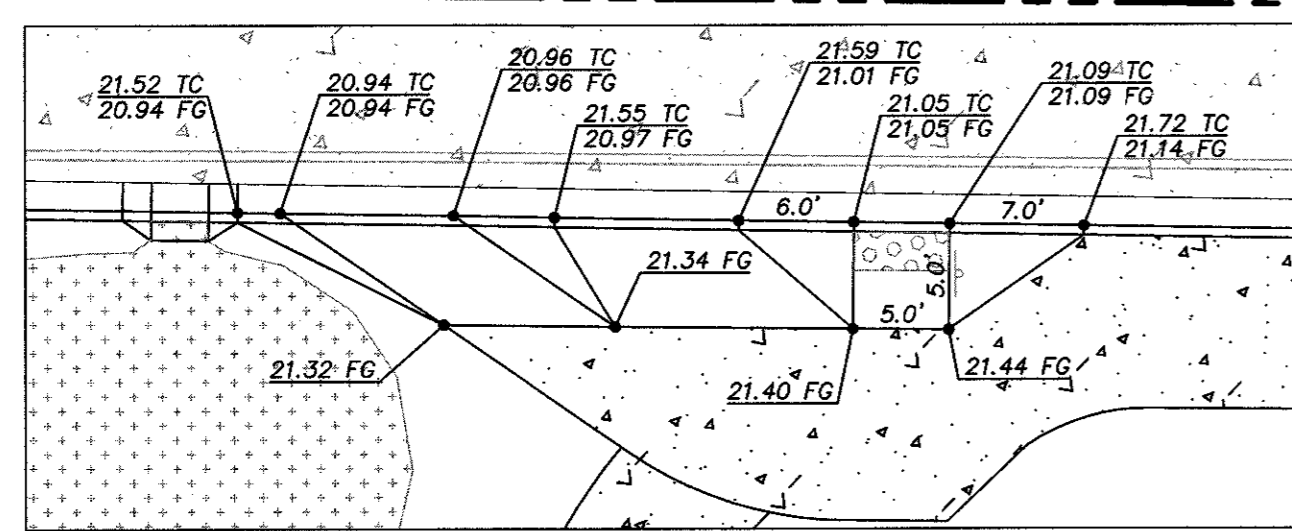
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SE REED MARKET ROAD PLAN

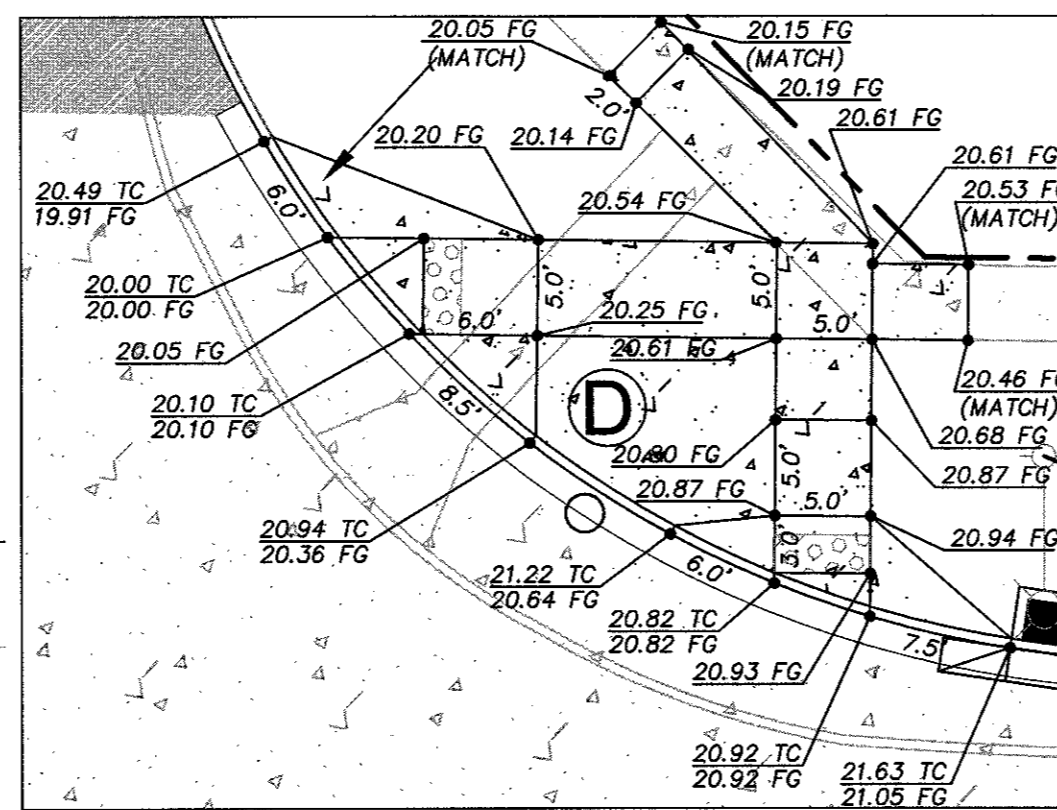
STA 45+00 TO STA 48+50

SCALE: 1" = 20'



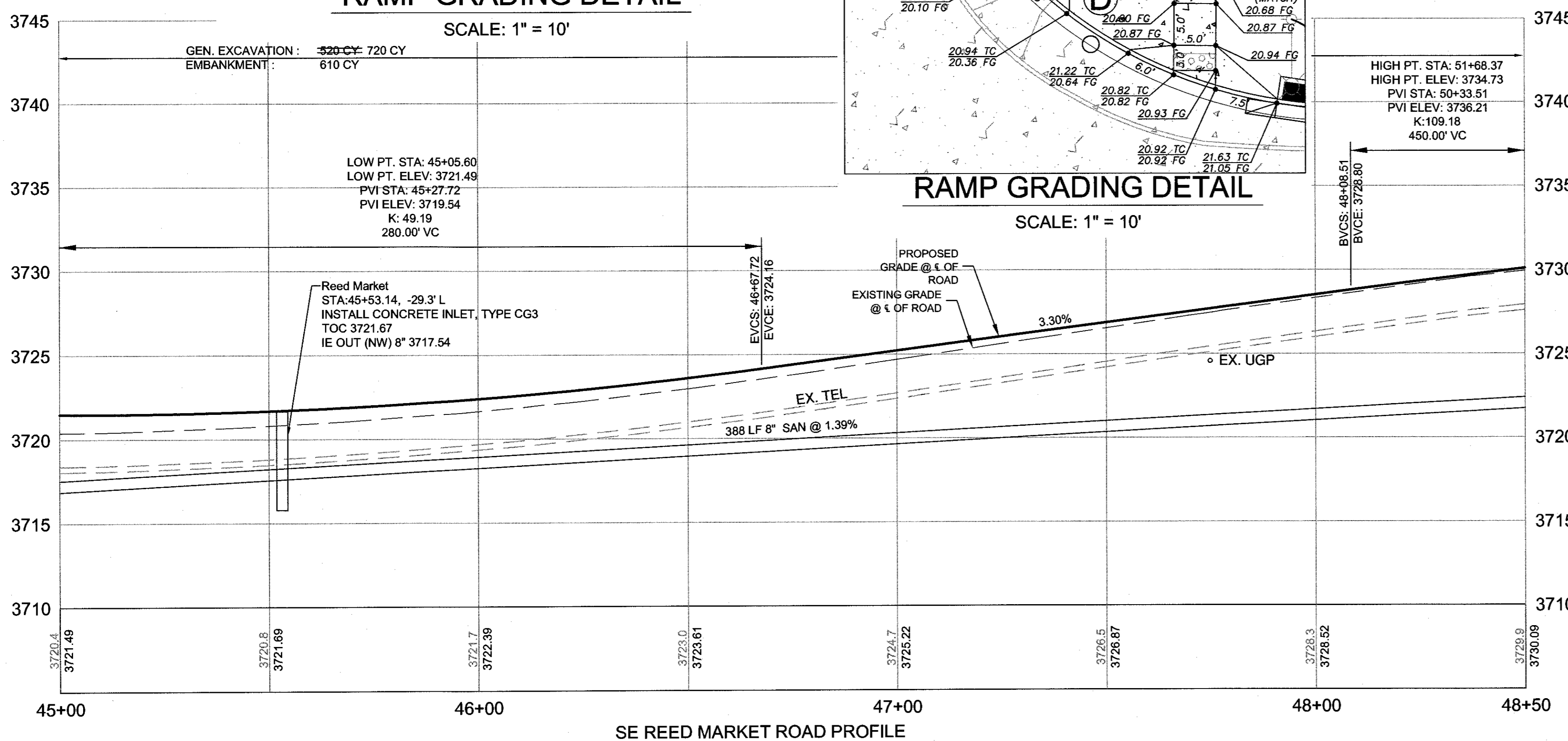
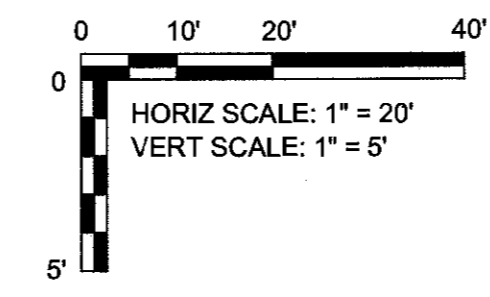
RAMP GRADING DETAIL

SCALE: 1" = 10'



RAMP GRADING DETAIL

SCALE: 1" = 10'



SE REED MARKET ROAD PROFILE

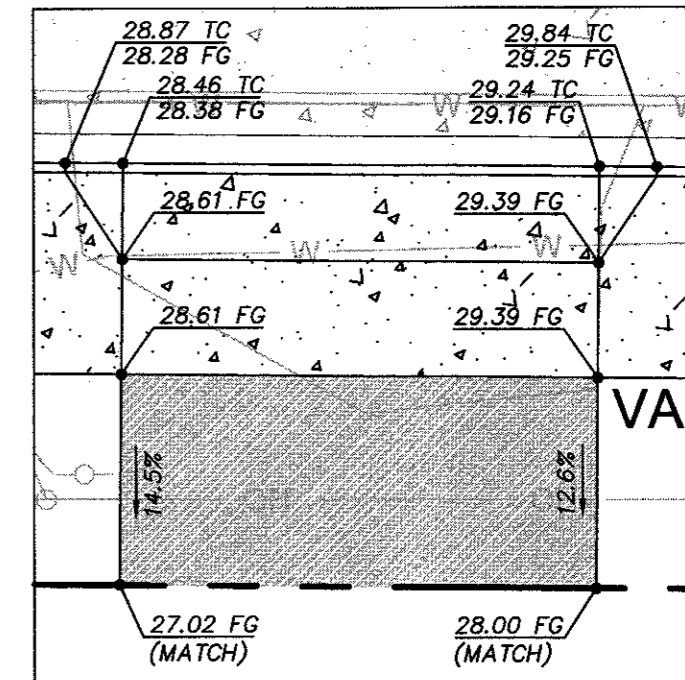
STA 45+00 TO STA 48+50

SCALE: 1" = 20' HORIZ

1" = 5' VERT

ROAD AND SIDEWALK CONSTRUCTION NOTES:

- CONSTRUCT PLAIN DOWELED CONCRETE AND AGGREGATE BASE PER TYPICAL SECTION. SEE SHEETS C-08 - C-14
- STA 45+10.78, 57.79' LT - 48+50, 29.00' LT ; 45+00, 27.17' RT - 48+50, 28.00' RT CONSTRUCT CONCRETE CURB AND GUTTER - 700 LF (SEE DETAIL 2/SD-06)
- STA 45+57.26 - 47+25.26 CONSTRUCT MEDIAN CONCRETE CURB AND GUTTER - 182 LF (SEE DETAIL 2/SD-06) 16" CURB, E=7"
- STA 45+57.27 - 47+37.24 CONSTRUCT MEDIAN CONCRETE CURB AND GUTTER - 182 LF (SEE DETAIL 2/SD-06) 16" CURB, E=7"
- STA 45+57.27 - 47+27.23 CONSTRUCT STAMPED COLORED CONCRETE MEDIAN - 987 SF (SEE DETAIL 5/SD-06)
- CONSTRUCT MEDIAN END W/PEDESTRIAN OPENING (SEE DETAIL 5/SD-07) CONSTRUCT HIGH STRENGTH LOW PROFILE MOUNTABLE CURB - 49 LF CONSTRUCT 6" THICK CONCRETE PAVEMENT - 62 SF CONSTRUCT STAMPED COLORED CONCRETE MEDIAN - 57 SF TRUNCATED DOME DETECTABLE WARNINGS - 40 SF
- CONSTRUCT MEDIAN END (SEE COB DRG R-25) CONSTRUCT 6" THICK CONCRETE PAVEMENT - 70 SF
- STA 45+26.32, 48.23' LT - 45+41.27, 36.45' LT CONSTRUCT CONCRETE WALKS - 208 SF (SEE COB DRG R4-A, 5' WIDTH)
- STA 45+00, 56.00' RT - 48+50.00, 36.00' RT CONSTRUCT CONCRETE WALKS - 2408 SF (SEE COB DRG R4-A, 5' WIDTH); SIDEWALK WIDTH VARIES
- CONSTRUCT PERPENDICULAR CURB RAMP - 171 SF (SEE COB DRG R-6A) REFER TO GRADING DETAIL, THIS SHEET
- CONSTRUCT BICYCLE EXIT RAMP CONCRETE WALKS - 67 SF (SEE DETAIL 3/SD-07)
- STA 48+25.35, 28.00' RT CONSTRUCT STANDARD SETBACK SIDEWALK DRIVEWAY - 274 SF (SEE COB DRG R-5A) REFER TO GRADING DETAIL, THIS SHEET
- CONSTRUCT ASPHALT DRIVEWAY (SEE DETAIL 4/SD-08)
- RELOCATE EXISTING MAILBOX SINGLE MAILBOX SUPPORT - 1 (SEE DRG RD100, RD101)
- STA 45+05.60, 27.20' RT CONSTRUCT CONCRETE CURB CUT SEE DETAIL SHEET SD-05



DRIVEWAY GRADING DETAIL

SCALE: 1" = 10'

STORM SEWER CONSTRUCTION NOTES:

- STA 45+53.14, 29.33' LT CONSTRUCT CONCRETE INLET TYPE CG-3 W/18" SUMP - 1 (SEE DRG RD371, RD372, STRM-8, AND 2/P-24)
- STA 45+47.28 - 45+53.14 INSTALL 8" STORM SEWER PIPE, 0.5 FT DEPTH - C900 PVC - 18 LF (SEE COB DRG S-1, 2/P-24)
- STA 45+47.28, 36.58' LT CONSTRUCT SEDIMENTATION MANHOLE - 1 (SEE DRG STRM-7, 2/P-24)
- STA 45+28.84 - 45+47.28 INSTALL 8" STORM SEWER PIPE, 0.5 FT DEPTH - C900 PVC - 19 LF (SEE COB DRG S-1, 2/P-24)
- STA 45+28.84, 36.4' LT CONNECT TO EXISTING DRYWELL ADJUST RIM TO FINISHED GRADES MINOR ADJUSTMENT OF MANHOLES - 1 USE CONCENTRIC CONE AS NEEDED TO PLACE RIM OUTSIDE CURB (SEE 2/P-24)
- CONSTRUCT 6 FT x 6 FT MIN. CONCRETE PAD AROUND DRYWELL AND MANHOLE (CONSTRUCT CONCRETE WALKS - 50 SF)

UTILITY CONSTRUCTION NOTES:

- RELOCATE EXISTING GUY WIRE AND ANCHOR (BY OTHERS)
- SEE SHEETS IL-01 TO IL-05 FOR ILLUMINATION PLANS
- ADJUST EXISTING VALVE BOX TO FINISHED GRADES ADJUSTING BOXES - 2
- ADJUST EXISTING VALVE BOX TO FINISHED GRADES (BY AVION WATER)
- INSTALL CUT-OFF WALL - 2 (SEE DETAIL 3, SHEET SD-09)
- INSTALL 2 - 2" CONDITS FOR FUTURE USE - 120 LF

CURB RETURN TABLE

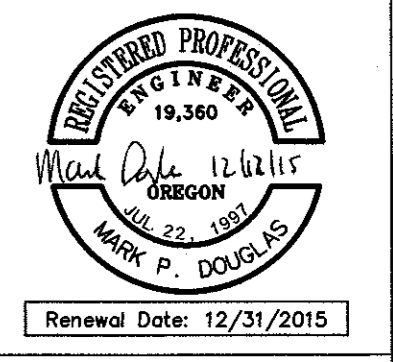
DESC.	FC LOCATION	TP ELEV.	RADIUS	LENGTH
PC	STA 1+83.72, 24.23' RT	3718.89		
1/4 Δ	STA 1+62.92, 28.41' RT	3719.63		
1/2 Δ	STA 45+20.26, 45.09' LT	3720.11	55'	86.34'
3/4 Δ	STA 45+38.10, 33.18' LT	3720.81		
PT	STA 45+59.13, 29.00' LT	3721.20		

POINT	FC LOCATION	TP ELEV.	DESC	RADIUS
2	STA 45+31.27, 6.50' LT	3721.42	PC	2.5 FT
3	STA 45+33.77, 9.00' LT	3721.39	PT	
4	STA 46+57.23, 9.00' LT	3723.64	PT	
5	STA 47+34.26, 8.04' LT	3726.18	PC	
6	STA 47+37.23, 5.02' LT	3726.35	1/2Δ	3 FT
7	STA 47+34.23, 2.00' LT	3726.31	PT	
8	STA 45+71.27, 2.00' LT	3721.89	PT	
9	STA 45+33.74, 3.04' LT	3721.51	PC	2.5 FT
10	STA 45+31.27, 5.54' LT	3721.44	PT	

SEWER CONSTRUCTION NOTES:

- INSTALL 8" SEWER PIPE, 5-10 FT DEPTH - 388 LF (SEE COB DRG S-1)

FC = FACE OF CURB
TP = TOP OF PAVEMENT
PC = POINT OF CURVATURE
PRC = POINT OF REVERSE CURVATURE
1/2 Δ = MID POINT
PT = POINT OF TANGENCY



REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
RMR PLAN & PROFILE, STA 45+00 TO 48+50
CITY OF BEND, OREGON



REVISIONS:
1. MPD 12/09/2015 RECORD DRAWING

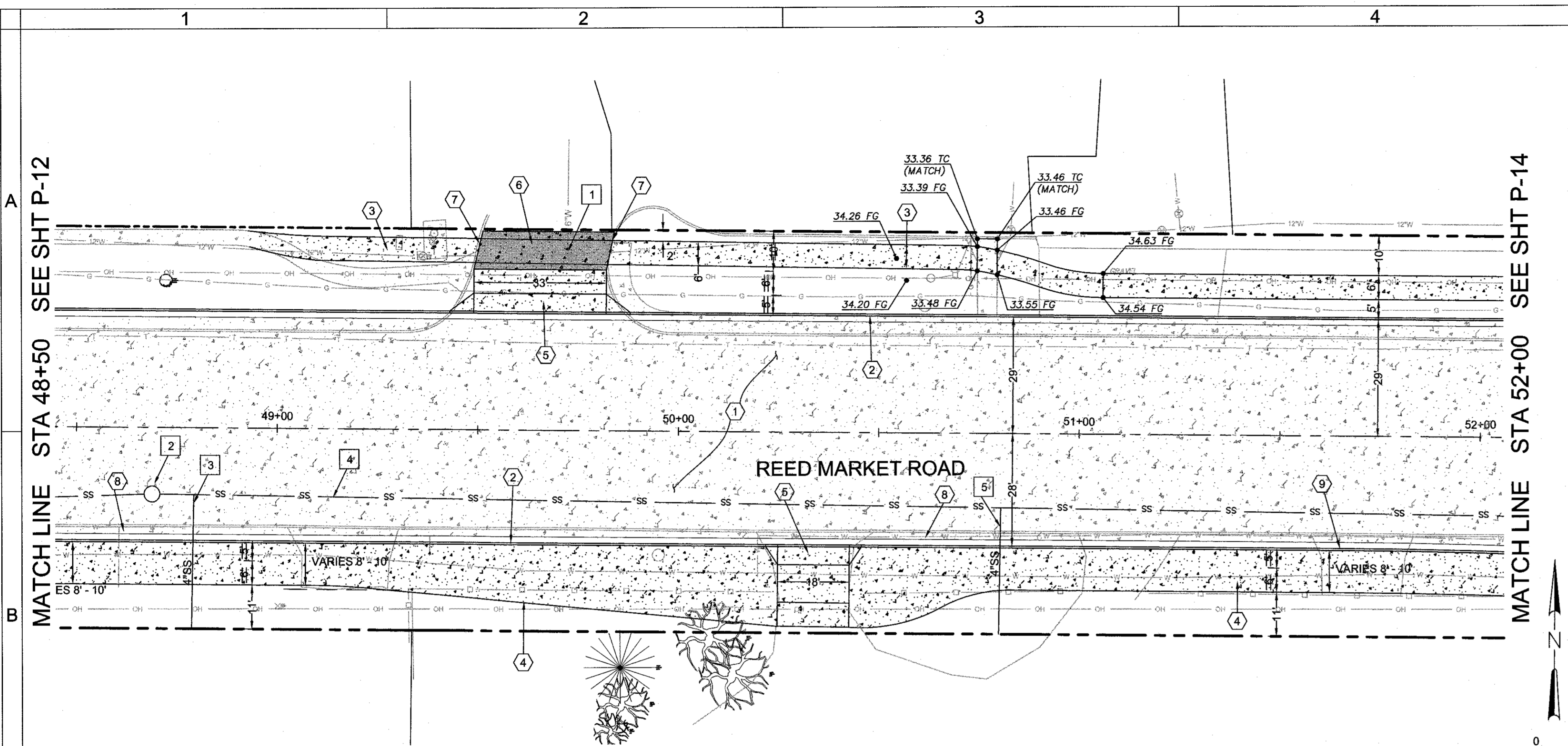
HWA SURVEYORS, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC
42930 O.B. MILEY ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541.389.3351 FAX: 541.386.5416

DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

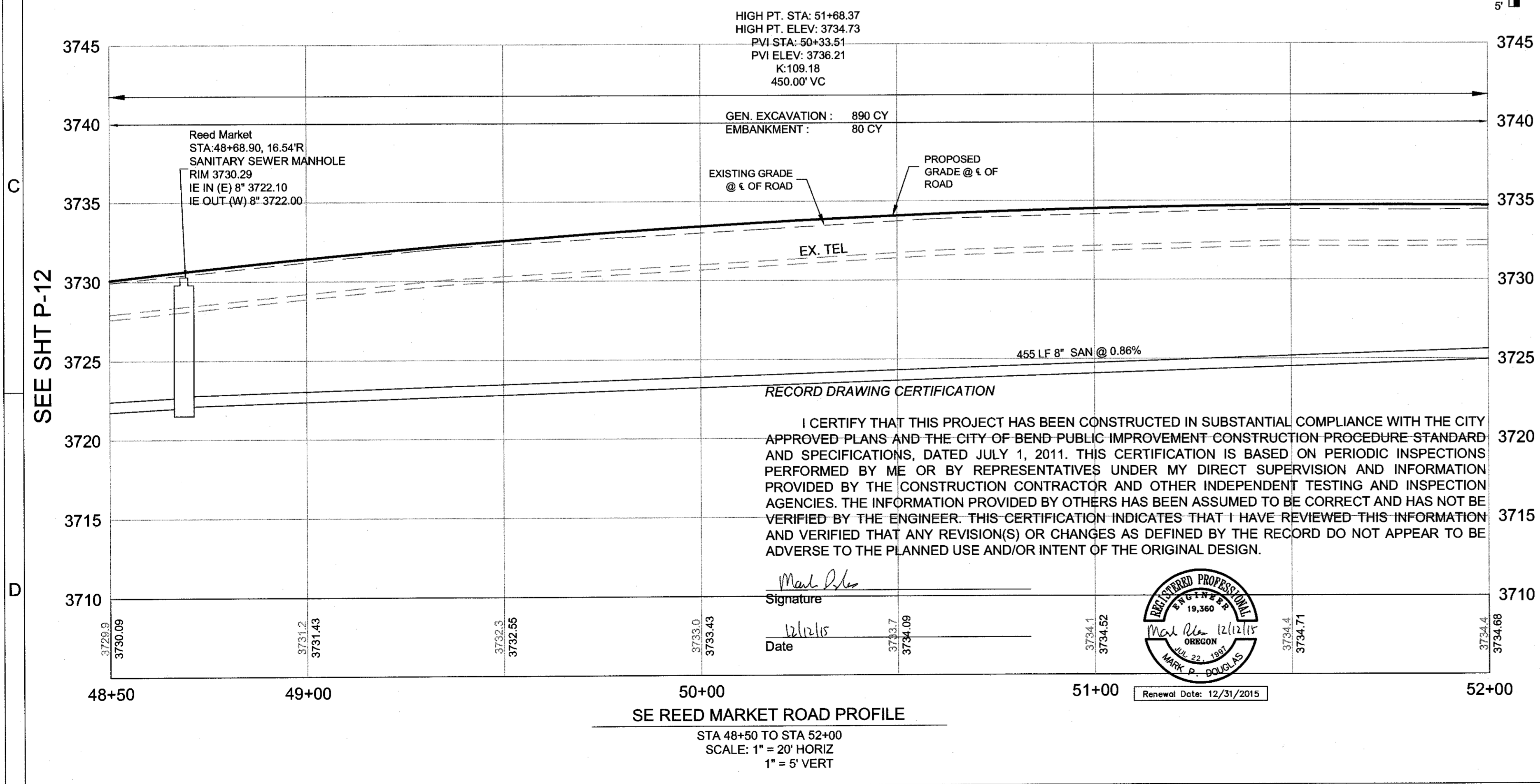
VERIFY SCALES
0 1" BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET: P-12

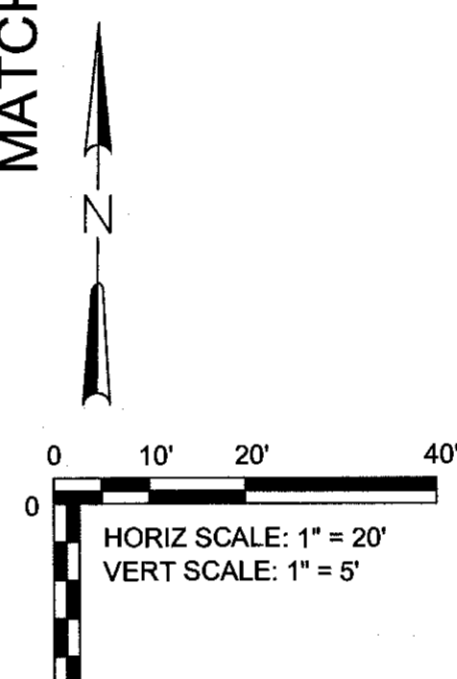
COB # ST12CJ



SE REED MARKET ROAD PLAN
 STA 48+50 TO STA 52+00
 SCALE: 1" = 20'



SE REED MARKET ROAD PROFILE
 STA 48+50 TO STA 52+00
 SCALE: 1" = 20' HORIZ
 1" = 5' VERT



ROAD AND SIDEWALK CONSTRUCTION NOTES:

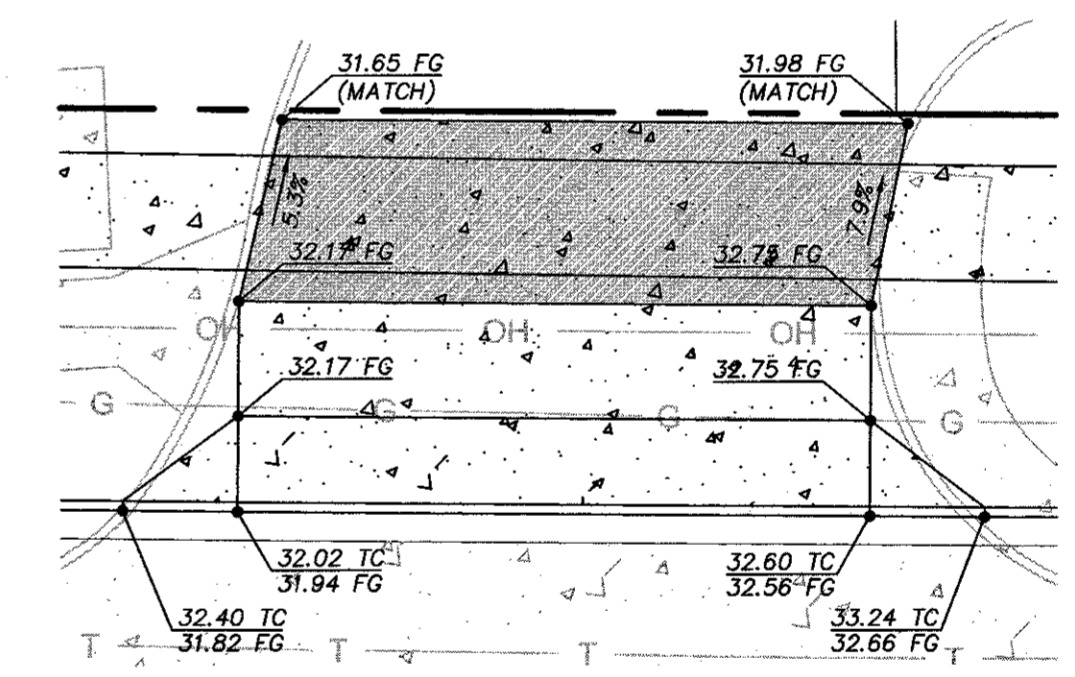
- ① CONSTRUCT PLAIN DOWELED CONCRETE AND AGGREGATE BASE PER TYPICAL SECTION. SEE SHEETS C-08 - C-14
- ② STA 48+50.00, 29.00' LT/28.00' RT - 52+00.00, 29.00' LT/28.34' RT CONSTRUCT CONCRETE CURB AND GUTTER - 700 LF (SEE DETAIL 2/SD-06)
- ③ STA 49+13.68 - 52+00.00 (LT) CONSTRUCT CONCRETE WALKS - 1,503 SF (SEE COB DRG R-4A, 6' WIDTH)
- ④ STA 48+50.00 - 52+00.00 (RT) CONSTRUCT CONCRETE WALKS - 2,019 SF (SEE COB DRG R-4A, 8' WIDTH) WIDTH VARIES
- ⑤ STA 49+65.29, 29.00' LT AND STA 50+33.98, 28.00' RT CONSTRUCT STANDARD SETBACK SIDEWALK DRIVEWAY - 745 SF (SEE COB DRG R-5A)
- ⑥ CONSTRUCT ASPHALT DRIVEWAY (SEE DETAIL 4/SD-08)
- ⑦ CONSTRUCT 12" CONCRETE CURB - 20 LF (SEE COB DRG R-3)
- ⑧ RELOCATE EXISTING MAILBOX SINGLE MAILBOX SUPPORT - 2 (SEE DRG RD100, RD101)
- ⑨ STA 51+65.23, 28.00' RT TAPER POINT

UTILITY CONSTRUCTION NOTES:

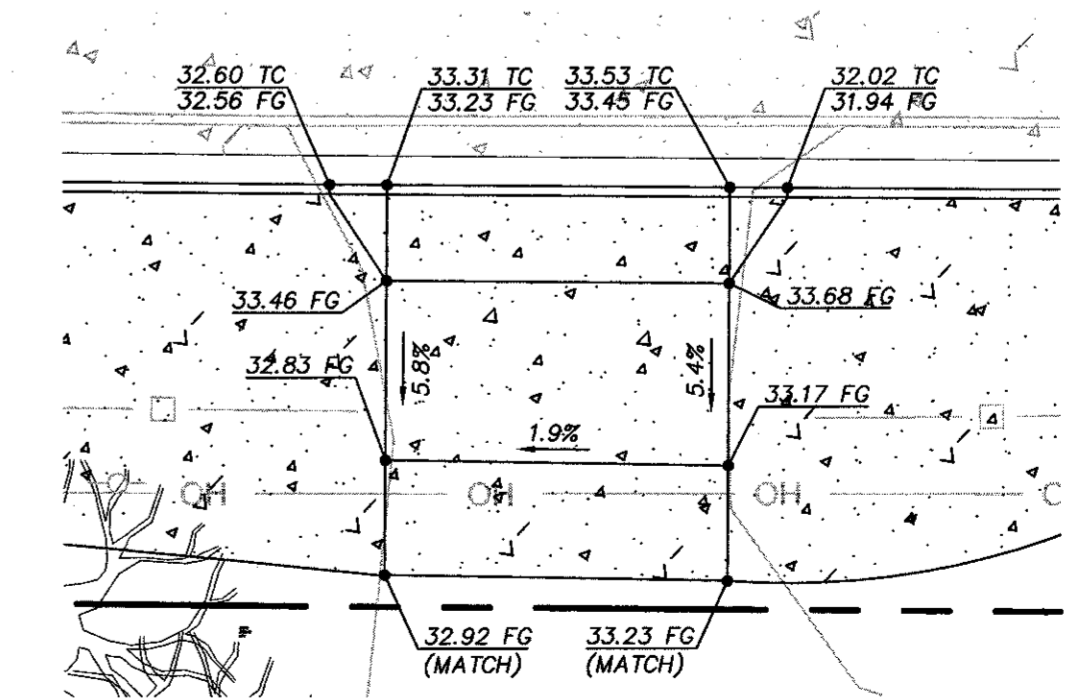
- ① ADJUST EXISTING WATER VALVE TO FINISHED GRADES ADJUSTING BOXES - 1

SEWER CONSTRUCTION NOTES:

- ② STA 48+68.90, 16.54'R CONSTRUCT SANITARY SEWER MANHOLE - 1 (SEE COB DRG S-3B)
- ③ INSTALL 4" SANITARY SEWER SERVICE AT 2.0% 4" SEWER PIPE, 5 FT DEPTH - 33 LF (SEE COB DRG S-2)
- ④ INSTALL 8" SEWER PIPE, 5-10 FT DEPTH - 455 LF (SEE COB DRG S-1)
- ⑤ INSTALL 4" SANITARY SEWER SERVICE AT 2.0% 4" SEWER PIPE, 5 FT DEPTH - 32 LF (SEE COB DRG S-2)



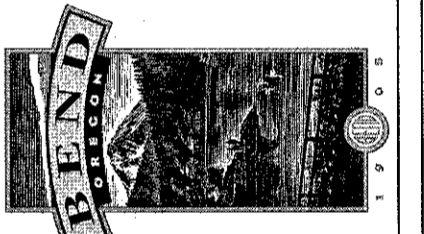
DRIVEWAY GRADING DETAIL
 SCALE: 1" = 10'



DRIVEWAY GRADING DETAIL
 SCALE: 1" = 10'



REED MARKET ROAD
 3RD STREET TO NEWBERRY DRIVE
 RMR PLAN & PROFILE, STA 48+50 TO 52+00
 CITY OF BEND, OREGON



REVISIONS:

1.	MPD 12/09/2015	RECORD DRAWING
2.		
3.		

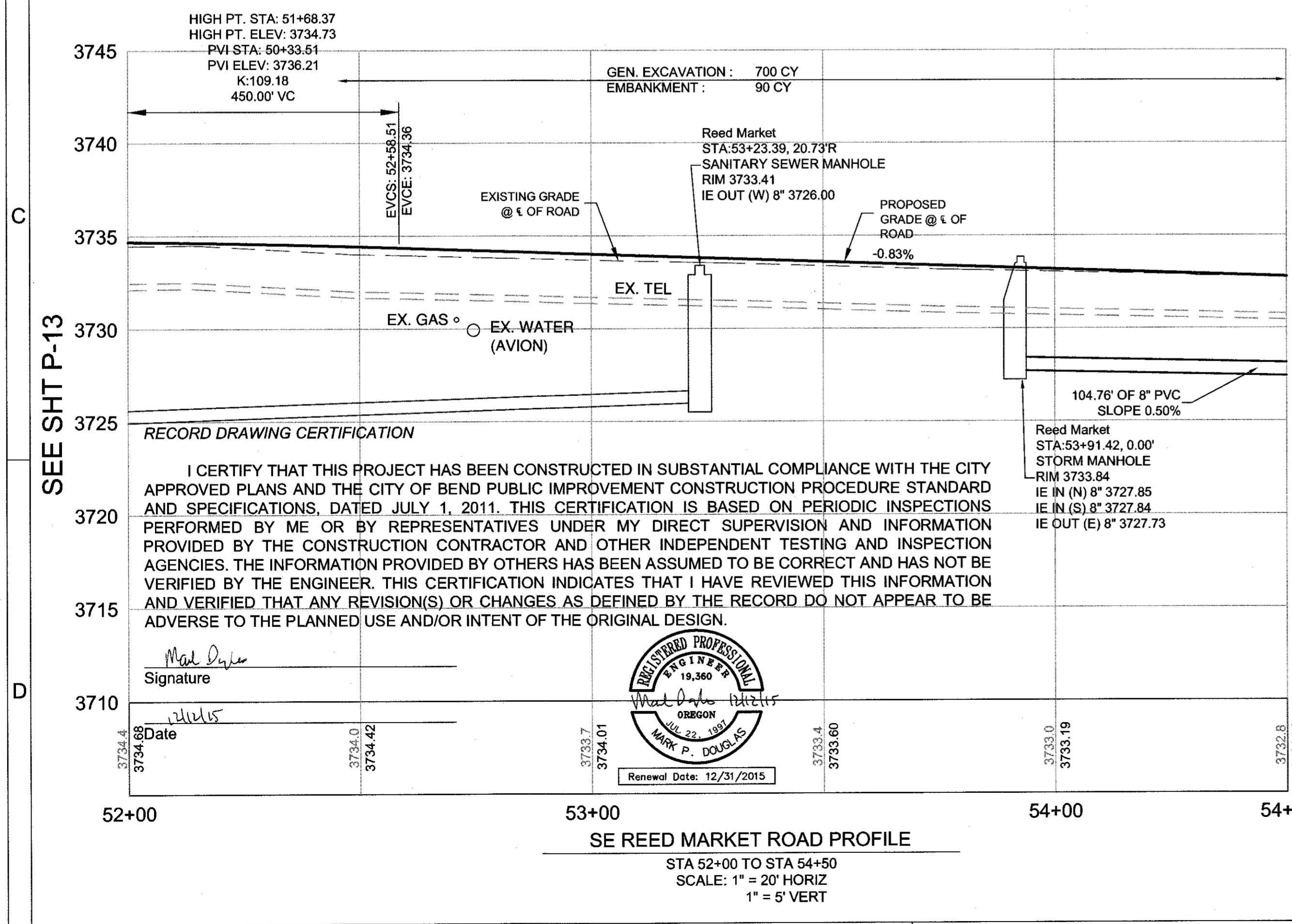
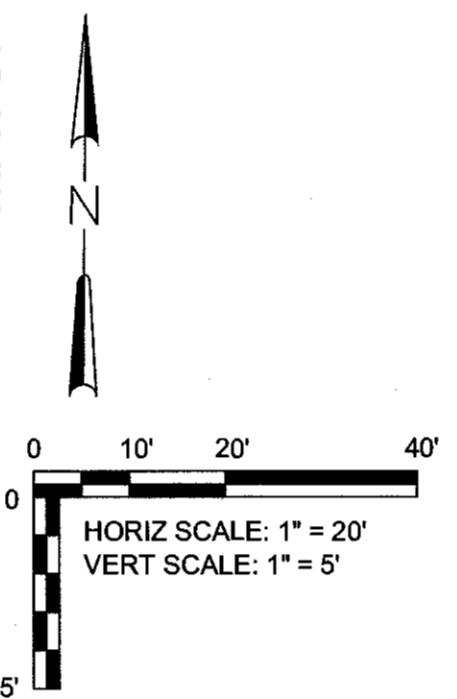
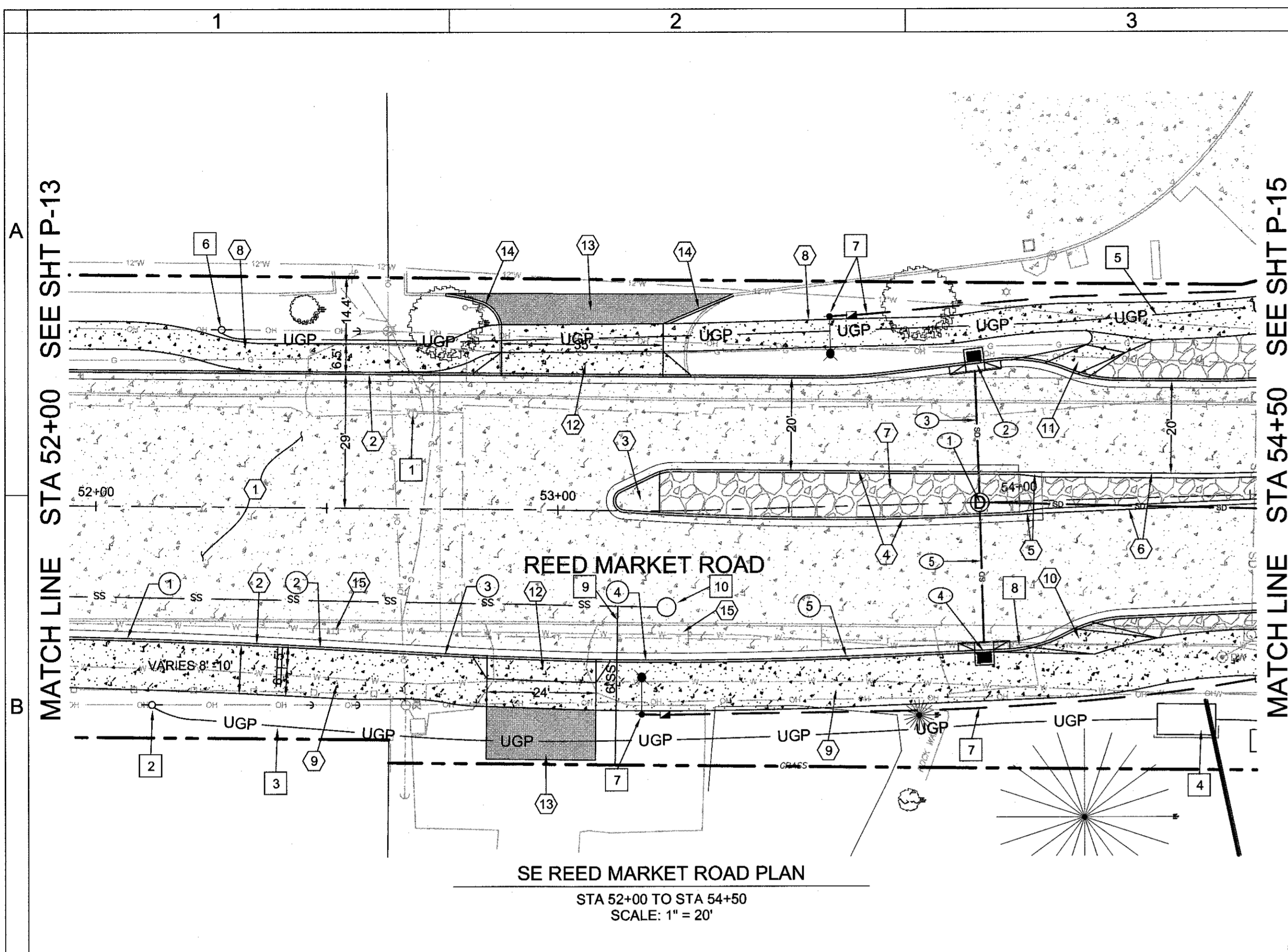
HWA SURVEYOR, ENGINEERS & PLANNERS
 HICKMAN, WILLIAMS & ASSOCIATES, INC
 42930 O.B. NILEY ROAD, SUITE 100
 BEND, OREGON 97701
 PHONE: 541.389.9351 FAX: 541.388.5416

DESIGNED BY: MD
 DRAWN BY: MD
 SCALE: AS SHOWN
 FILE: REED 15TH BASE
 DATE: 04/21/2014

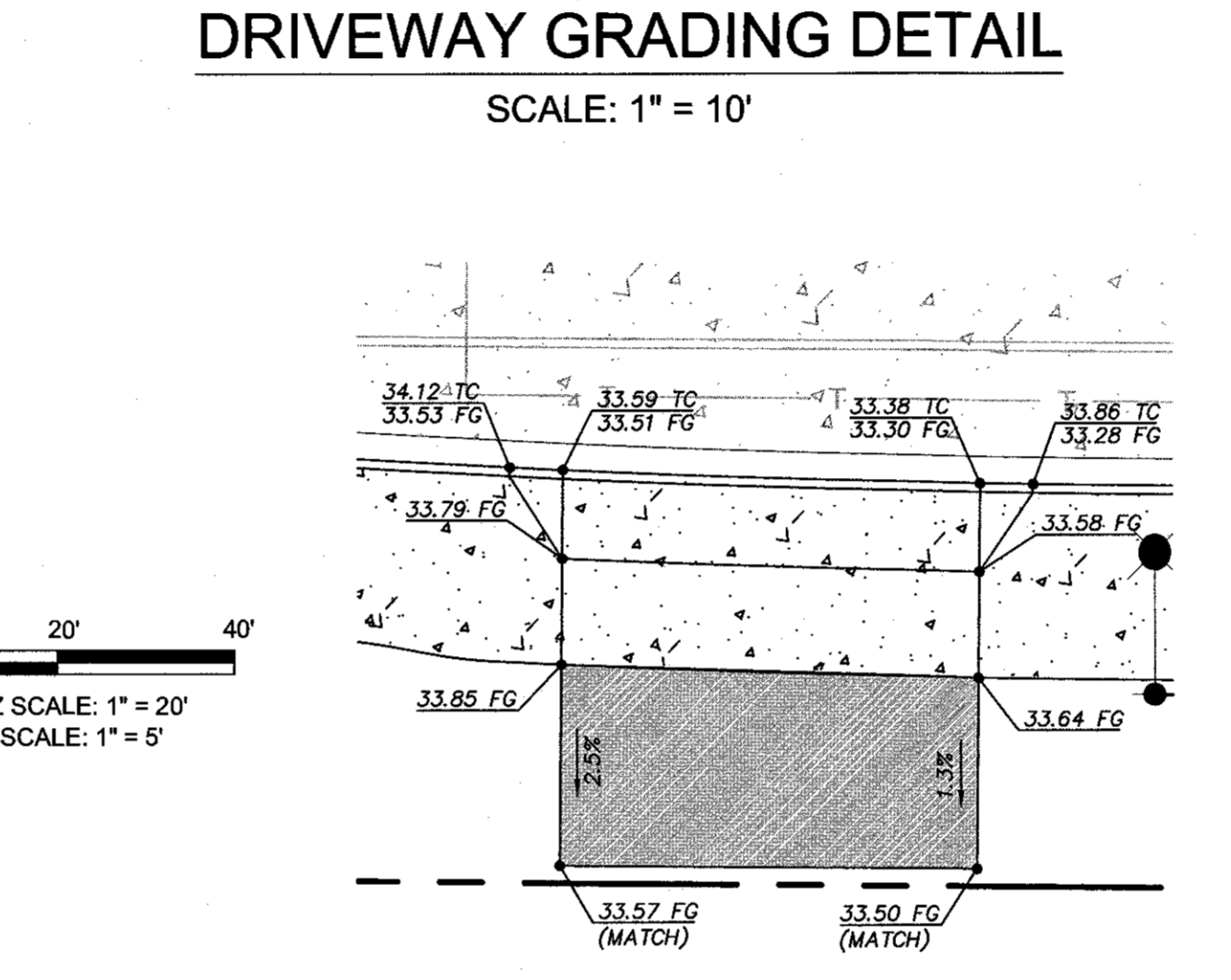
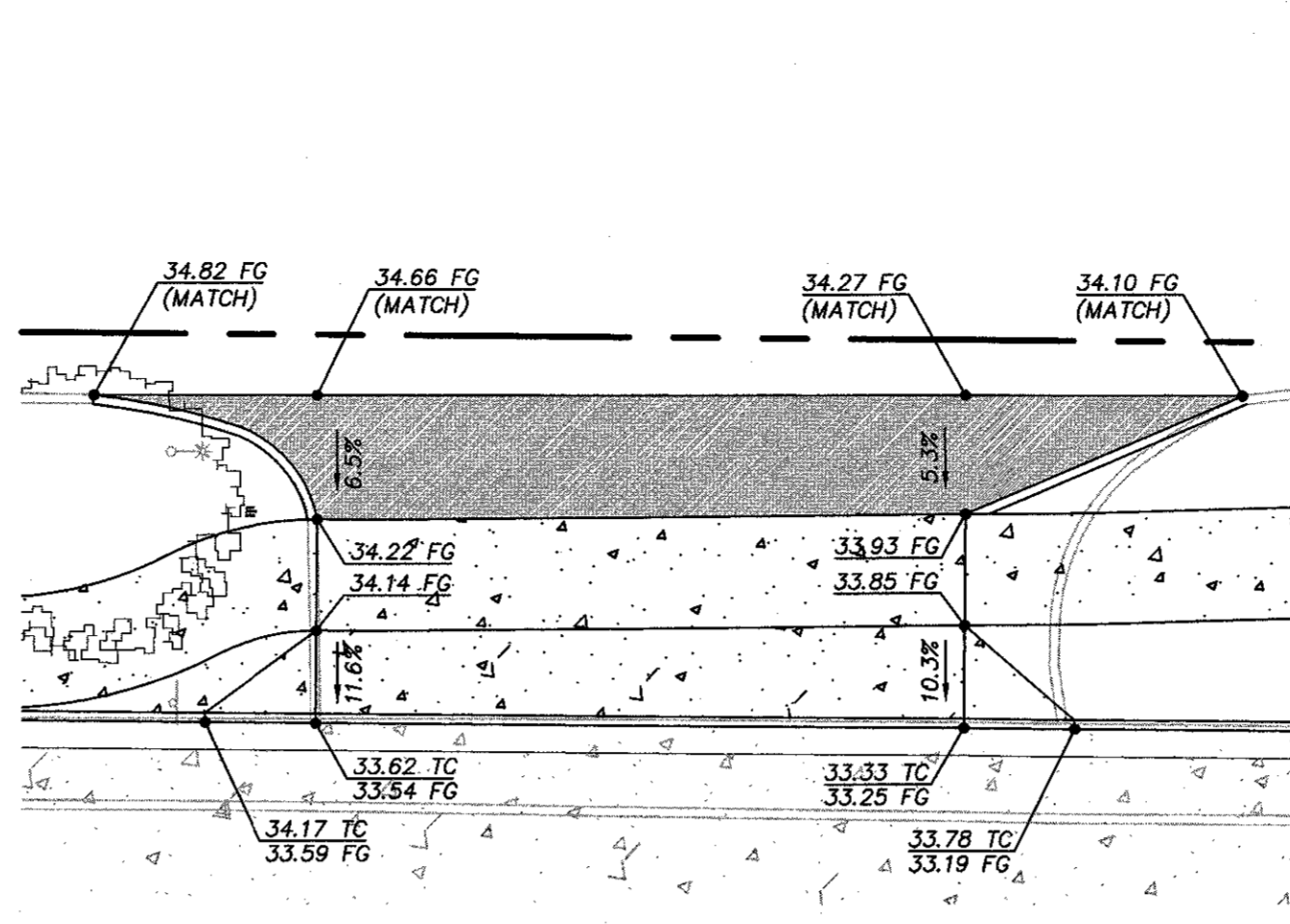
VERIFY SCALES
 0 1" BAR EQUALS ONE INCH ON ORIGINAL DRAWING
 SHEET:

P-13

COB # ST12CJ



SEE SHT P-15



SEWER CONSTRUCTION NOTES:

- 9 INSTALL 6" SANITARY SEWER SERVICE AT 1.0% 6" SEWER PIPE, 5 FT DEPTH - 35 LF (SEE COB DRG S-2)
- 10 STA 53+23.39, 20.73'R CONSTRUCT SANITARY SEWER MANHOLE - 1 (SEE COB DRG S-3B)

CURB RETURN TABLE

POINT	FC LOCATION	TP ELEV	DESC	RADIUS
1	STA 52+07.04, 28.49' RT	3734.09	1/2Δ	1772 FT
2	STA 52+48.83, 29.97' RT	3733.83	PT	
3	STA 52+75.88, 31.25' RT	3733.59	PRC	
4	STA 53+19.31, 32.23' RT	3733.21	1/2Δ	878 FT
5	STA 53+61.61, 32.43' RT	3732.86	PT	

FC = FACE OF CURB
TP = TOP OF PAVEMENT
PC = POINT OF CURVATURE
PRC = POINT OF REVERSE CURVATURE
1/2 Δ = MID POINT
PT = POINT OF TANGENCY

ROAD AND SIDEWALK CONSTRUCTION NOTES:

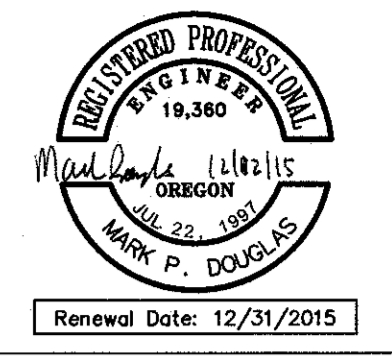
- 1 CONSTRUCT PLAIN DOWELED CONCRETE AND AGGREGATE BASE PER TYPICAL SECTION. SEE SHEETS C-08 - C-14
- 2 STA 52+00, 29.00' LT - 54+22.03, 25.50' LT ; 52+00, 28.34' RT - 54+22.31, 25.45' RT CONSTRUCT CONCRETE CURB AND GUTTER - 447 LF (SEE DETAIL 2/SD-06)
- 3 CONSTRUCT MEDIAN END (SEE COB DRG R-25) CONSTRUCT 6" THICK CONCRETE PAVEMENT - 55 SF
- 4 STA 53+12.00 - 54+00.00 CONSTRUCT MEDIAN CONCRETE CURB AND GUTTER - 180 LF (SEE DETAIL 2/SD-06)
- 5 STA 54+00 - 54+05 TAPER FROM CURB AND GUTTER TO HIGH STRENGTH LOW PROFILE MOUNTABLE CURB - 10 LF (SEE DETAIL 7/SD-06)
- 6 STA 54+05 - 54+50 CONSTRUCT HIGH STRENGTH LOW PROFILE MOUNTABLE CURB - 90 LF (SEE DETAIL 3/SD-06)
- 7 STA 53+22 - 54+50 CONSTRUCT STAMPED COLORED CONCRETE MEDIAN - 1,002 SF (SEE DETAIL 5/SD-06)
- 8 STA 52+00, 37.00' LT - 54+22.03, 39.39' LT CONSTRUCT CONCRETE WALKS - 1,145 SF (SEE COB DRG R-4A AND R-4B, 6' WIDTH)
- 9 STA 52+00, 36.34' RT - 54+22.29, 36.70' RT CONSTRUCT CONCRETE WALKS - 1,244 SF (SEE COB DRG R-4A, 6' WIDTH)
- 10 CONSTRUCT BICYCLE EXIT RAMP CONCRETE WALKS - 99 SF (SEE DETAIL 3/SD-07)
- 11 CONSTRUCT BICYCLE ENTRANCE RAMP CONCRETE WALKS - 71 SF (SEE DETAIL 4/SD-07)
- 12 STA 53+05.01, 29.00' LT AND STA 52+96.95, 31.99' RT CONSTRUCT STANDARD SETBACK SIDEWALK DRIVEWAY - 667 SF (SEE COB DRG R-5A) REFER TO GRADING DETAIL, THIS SHEET
- 13 CONSTRUCT ASPHALT DRIVEWAY (SEE DETAIL 4/SD-08)
- 14 CONSTRUCT 12" CONCRETE CURB - 32 LF (SEE COB DRG R-3)
- 15 RELOCATE EXISTING MAILBOX SINGLE MAILBOX SUPPORT - 2 (SEE DRG RD100, RD101)

STORM SEWER CONSTRUCTION NOTES:

- 1 STA 53+91.42, 0.0' LT CONSTRUCT STORM SEWER MANHOLE - 1 (SEE COB DRG S-3B, STRM-8, 3/P-24)
- 2 STA 53+91.15, 30.07' LT CONSTRUCT CONCRETE INLET TYPE CG-3 W/18" SUMP - 1 (SEE DRG RD371, RD372, STRM-8, AND 3/P-24)
- 3 STA 53+91.15, 30.07' LT - 53+91.42, 0.0' RT INSTALL 8" STORM SEWER PIPE, 5-10 FT DEPTH - C900 PVC - 31 LF (SEE COB DRG S-1, 3/P-24)
- 4 STA 53+91.51, 31.95' LT CONSTRUCT CONCRETE INLET TYPE CG-3 W/18" SUMP - 1 (SEE DRG RD371, RD372, STRM-8, AND 3/P-24)
- 5 STA 53+91.51, 31.95' RT - 53+91.42, 0.0' RT INSTALL 8" STORM SEWER PIPE, 5-10 FT DEPTH - C900 PVC - 32 LF (SEE COB DRG S-1, 3/P-24)

UTILITY CONSTRUCTION NOTES:

- 1 ADJUST EXISTING TELEPHONE MANHOLE TO FINISHED GRADES (BY OTHERS) EX. RIM = 3733.24, NEW RIM = 3733.86
- 2 NEW POWER POLE, GUY WIRES, AND ANCHORS TO BE INSTALLED BY CEC
- 3 CONSTRUCT POWER UTILITY TRENCH AND CONDUITS TO CEC SPECIFICATIONS. COORDINATE WITH JUDY BARNES 541-312-7746. 3 - 6-INCH SCHED 40 PVC CONDUITS WITH FIBERGLASS SWEEPS. SEE DETAIL 1, SHEET SD-09.
- 4 INSTALL CONTRACTOR SUPPLIED CEC VAULT 'E2' W/612-3 TOP W/3-332P PER CEC SPECIFICATIONS. COORDINATE WITH JUDY BARNES 541-312-7746. SEE DETAIL 2, SHEET SD-09, AND DETAIL 1, SHEET SD-10. TOP VAULT = 3733.50
- 5 CONSTRUCT POWER UTILITY TRENCH AND CONDUITS TO PP&L SPECIFICATIONS. 1 - 6-INCH SCHED 40 PVC CONDUIT. REFER TO PP&L POWER DESIGN. ANY RUN >150 FT IN LENGTH WILL REQUIRE FIBERGLASS LONG RADIUS SWEEPS.
- 6 NEW POWER POLE, GUY WIRES, AND ANCHORS TO BE INSTALLED BY PP&L
- 7 SEE SHEETS IL-01 TO IL-05 FOR ILLUMINATION PLANS
- 8 EXISTING AVION WATER LINE TO BE RE-LOCATED, BY OTHERS



REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
RMR PLAN & PROFILE, STA 52+00 TO 54+50
CITY OF BEND, OREGON



REVISIONS:

1. MPD 12/09/2015 RECORD DRAWING	
2.	
3.	

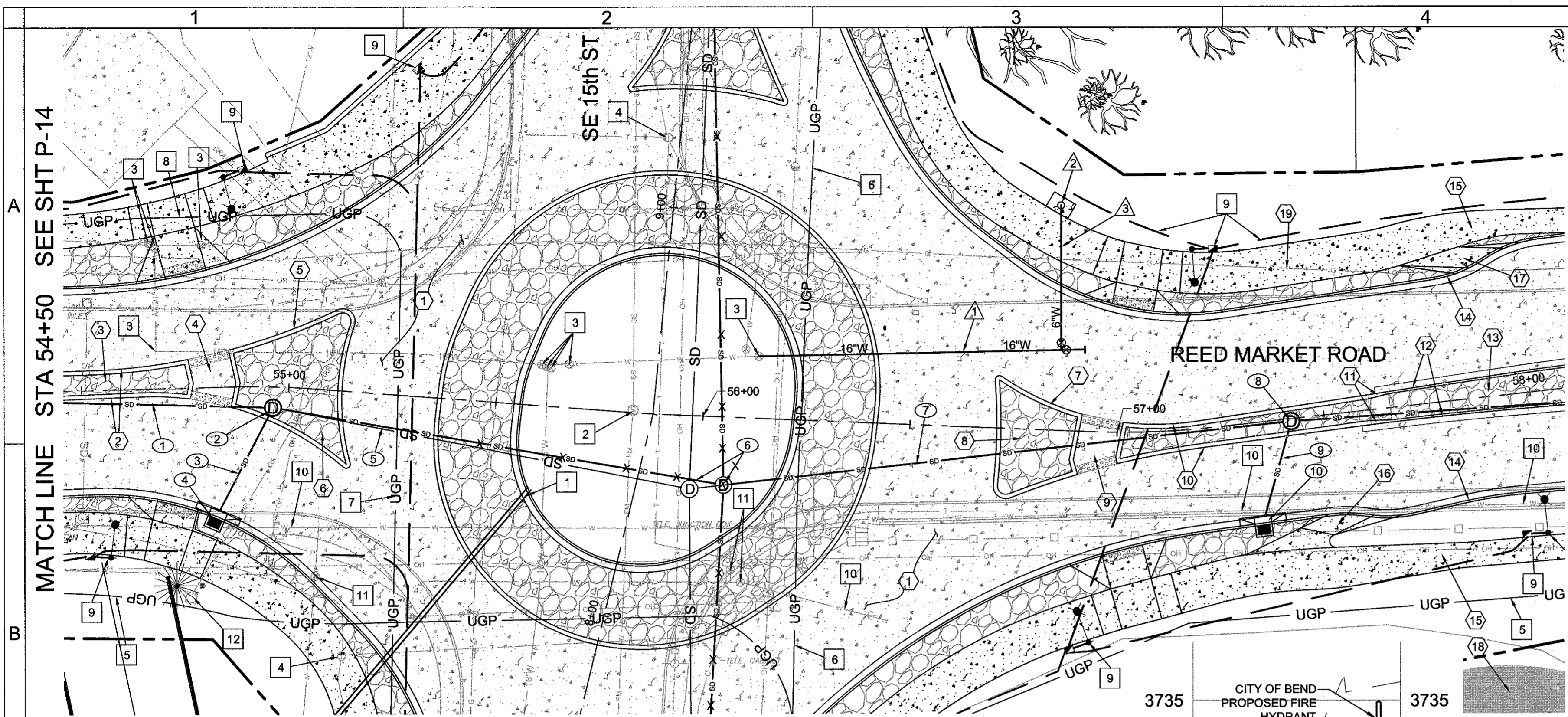
HWA SURVEYORS, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC.
429 S.O.B. BUEY ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541-389-9351 FAX: 541-388-5416

DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

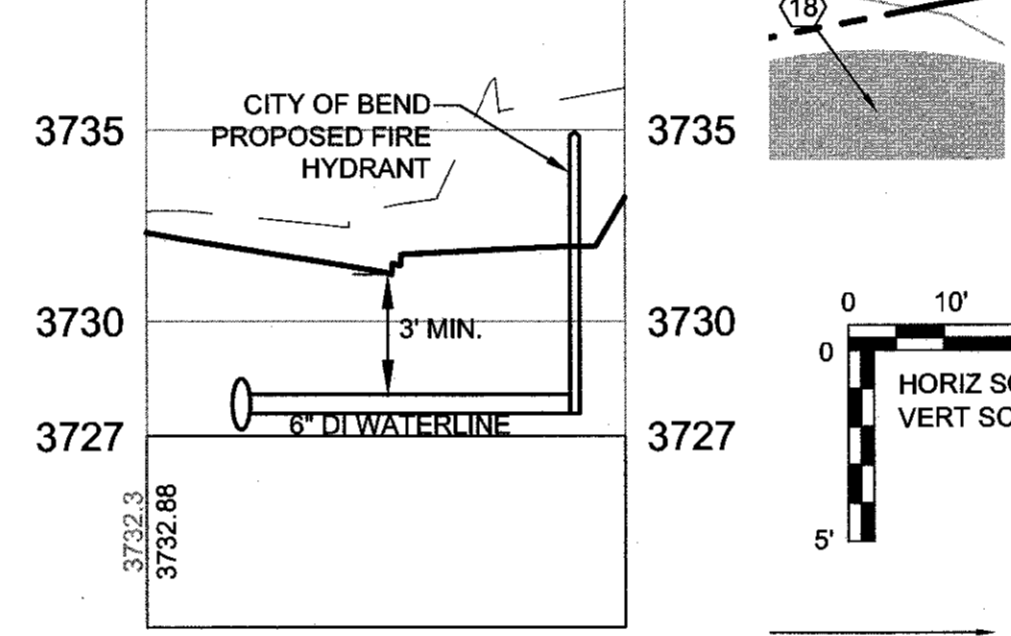
VERIFY SCALES
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BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET: **P-14**

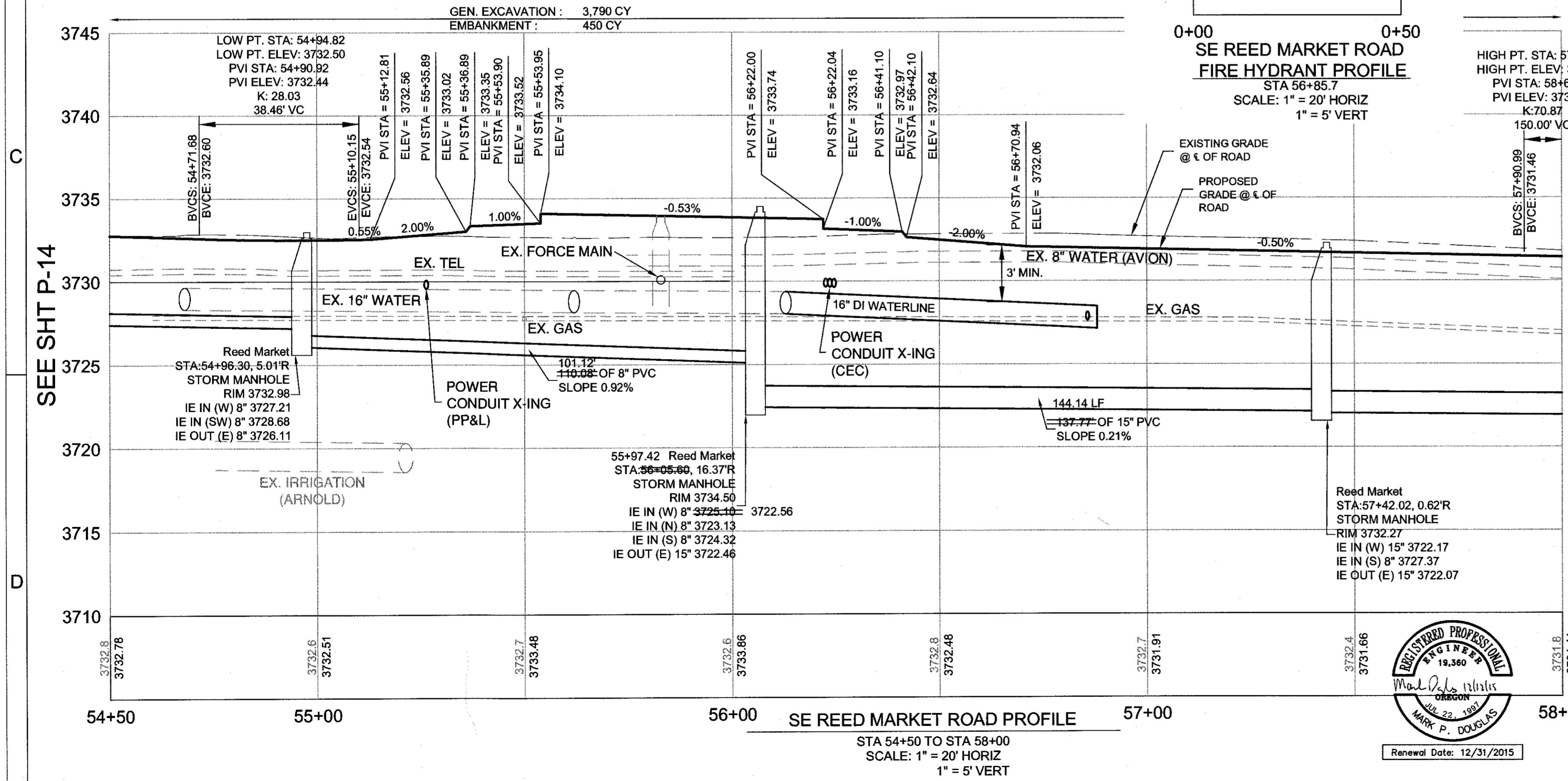
COB # ST12CJ



SE REED MARKET ROAD PLAN
 STA 54+50 TO STA 58+00
 SCALE: 1" = 20'



SE REED MARKET ROAD
 FIRE HYDRANT PROFILE
 STA 56+85.7
 SCALE: 1" = 20' HORIZ
 1" = 5' VERT



SE REED MARKET ROAD PROFILE
 STA 54+50 TO STA 58+00
 SCALE: 1" = 20' HORIZ
 1" = 5' VERT

ROAD AND SIDEWALK CONSTRUCTION NOTES:

- 1 CONSTRUCT PLAIN DOWELED CONCRETE AND AGGREGATE BASE PER TYPICAL SECTION. SEE SHEETS C-08 - C-14
- 2 STA 54+50 - 54+77.02 CONSTRUCT HIGH STRENGTH LOW PROFILE MOUNTABLE CURB - 62 LF (SEE DETAIL 3/SD-06)
- 3 STA 54+50 - 54+76.02 CONSTRUCT STAMPED COLORED CONCRETE MEDIAN - 138 SF (SEE DETAIL 5/SD-06)
- 4 CONSTRUCT ACCESSIBLE MEDIAN OPENING CONSTRUCT 6" THICK CONCRETE PAVEMENT - 119 SF TRUNCATED DOME DETECTABLE WARNINGS - 40 SF
- 5 STA 54+85.67 - 55+16.11 CONSTRUCT HIGH STRENGTH LOW PROFILE MOUNTABLE CURB - 117 LF (SEE DETAIL 3/SD-06)
- 6 STA 54+86.67 - 55+15.11 CONSTRUCT STAMPED COLORED CONCRETE MEDIAN - 569 SF (SEE DETAIL 5/SD-06)
- 7 STA 56+70.08 - 56+91.40 CONSTRUCT HIGH STRENGTH LOW PROFILE MOUNTABLE CURB - 88 LF (SEE DETAIL 3/SD-06)
- 8 STA 56+71.08 - 56+90.40 CONSTRUCT STAMPED COLORED CONCRETE MEDIAN - 353 SF (SEE DETAIL 5/SD-06)
- 9 CONSTRUCT ACCESSIBLE MEDIAN OPENING CONSTRUCT 6" THICK CONCRETE PAVEMENT - 125 SF TRUNCATED DOME DETECTABLE WARNINGS - 40 SF
- 10 STA 56+99.67 - 57+61.16 CONSTRUCT HIGH STRENGTH LOW PROFILE MOUNTABLE CURB - 132 LF (SEE DETAIL 3/SD-06)
- 11 STA 57+61.16 - 57+66.16 TAPER FROM HIGH STRENGTH LOW PROFILE MOUNTABLE CURB TO CURB AND GUTTER - 10 LF (SEE DETAIL 7/SD-06)
- 12 STA 57+66.16 - 58+00.00 CONSTRUCT MEDIAN CONCRETE CURB AND GUTTER - 68 LF (SEE DETAIL 2/SD-06)
- 13 STA 57+00.67 - 58+00.00 CONSTRUCT STAMPED COLORED CONCRETE MEDIAN - 574 SF (SEE DETAIL 5/SD-06)
- 14 STA 57+79.79, 27.98' LT - 58+00, 35.70' LT ; 57+48.92, 23.86' RT - 58+00, 23.80' RT CONSTRUCT CONCRETE CURB AND GUTTER - 73 LF (SEE DETAIL 2/SD-06)
- 15 STA 57+79.79, 40.00' LT - 58+00, 41.24' LT ; 57+48.92, 36.85' RT - 58+00, 37.80' RT CONSTRUCT CONCRETE WALKS - 523 SF (SEE COB DRG R4-A, 6' WIDTH)
- 16 CONSTRUCT BICYCLE EXIT RAMP CONCRETE WALKS - 59 SF (SEE DETAIL 3/SD-07)
- 17 CONSTRUCT BICYCLE ENTRANCE RAMP CONCRETE WALKS - 83 SF (SEE DETAIL 4/SD-07)
- 18 CONSTRUCT 12 FT WIDE ASPHALT DRIVEWAY (SEE SHEET G-06 AND DETAIL 4/SD-08)
- 19 REMOVE EXISTING GAS LINE

WATER CONSTRUCTION NOTES:

- 1 STA 56+12.9, 15.0' LT CONNECT TO EXISTING 16-INCH WATER INSTALL 16-INCH RESTRAINED DI WATERLINE - 72.8 LF STA 56+85.7, 19.3' LT INSTALL 16-INCH x 6-INCH RESTRAINED TEE-1 INSTALL 16-INCH BUTTERFLY VALVE-1 INSTALL 16-INCH PLUG-1
- 2 STA 56+84.23, 54.33' LT INSTALL HYDRANT ASSEMBLY-1 (SEE CITY OF BEND STD DWGS W-7 & W-8)
- 3 STA 56+85.70, 19.34' LT TO 54.33' LT INSTALL 6-INCH RESTRAINED DI WATERLINE - 35 LF

STORM SEWER NOTES:

- 1 STA 53+91.42, 0.0' RT - 54+96.30, 5.01' RT INSTALL 8" STORM SEWER PIPE, 5-10 FT DEPTH - C900 PVC - 105 LF (SEE COB DRG S-1)
- 2 STA 54+96.30, 5.01' RT CONSTRUCT STORM SEWER MANHOLE - 1 (SEE COB DRG S-3B, STRM-8)
- 3 STA 54+81.81, 31.07' RT - 54+96.30, 5.01' RT INSTALL 8" STORM SEWER PIPE, 5-10 FT DEPTH - C900 PVC - 30 LF (SEE COB DRG S-1, 4/P-24)
- 4 STA 54+81.81, 31.07' RT CONSTRUCT CONCRETE INLET TYPE CG-3 W/18" SUMP - 1 (SEE DRG RD371, RD372, STRM-8, AND DETAIL 4/P-24)
- 5 STA 54+96.30, 5.01' RT - 55+97.42, 16.37' RT INSTALL 8" STORM SEWER PIPE, 5-10 FT DEPTH - C900 PVC - 101.12 LF (SEE COB DRG S-1)
- 6 STA 55+97.42, 16.37' RT CONSTRUCT STORM SEWER MANHOLE - 1 (SEE COB DRG S-3B, STRM-8)
- 7 STA 55+97.42, 16.37' RT - 57+42.02, 0.62' RT INSTALL 15" STORM SEWER PIPE, 10-15 FT DEPTH - 138 LF - 144.16 LF (SEE COB DRG S-1)
- 8 STA 57+42.02, 0.62' RT CONSTRUCT STORM SEWER MANHOLE - 1 (SEE COB DRG S-3B, STRM-8)
- 9 STA 57+32.58, 24.26' RT - 57+42.02, 0.62' RT INSTALL 8" STORM SEWER PIPE, 0-5 FT DEPTH - C900 PVC - 26 LF (SEE COB DRG S-1, 5/P-24)
- 10 STA 57+32.58, 24.26' RT CONSTRUCT CONCRETE INLET TYPE CG-3 W/18" SUMP - 1 (SEE DRG RD371, RD372, STRM-8, AND DETAIL 5/P-24)

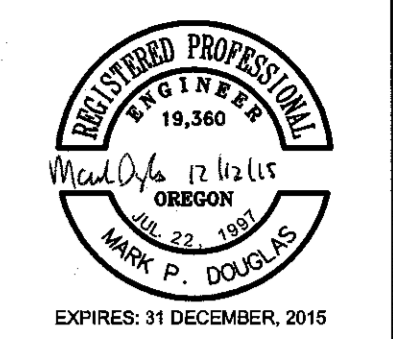
UTILITY CONSTRUCTION NOTES:

- NOTE: SEE IL PLANS FOR SECONDARY POWER INSTALLATION.
- 1 INSTALL 2 - 4-INCH SCHD 40 PVC CONDUITS, CAP ENDS TRENCHING AND CONDUITS - 150 LF
 - 2 ADJUST EXISTING MANHOLE TO FINISHED GRADES MINOR ADJUSTMENT OF MANHOLES - 1 EX. RIM= 3732.65; PR. RIM= 3733.95
 - 3 ADJUST EXISTING VALVE BOX TO FINISHED GRADES ADJUSTING BOXES - 9
 - 4 ADJUST EXISTING TELEPHONE MANHOLE TO FINISHED GRADES (BY OTHERS)
 - 5 CONSTRUCT POWER UTILITY TRENCH AND CONDUITS TO CEC SPECIFICATIONS. 3 - 6-INCH SCHD 40 PVC CONDUITS WITH FIBERGLASS SWEEPS. COORDINATE WITH JUDY BARNES 541-312-7746. SEE DETAIL 1, SHEET SD-09.
 - 6 CONSTRUCT POWER UTILITY TRENCH AND CONDUITS TO CEC SPECIFICATIONS. 3 - 6-INCH SCHD 40 PVC CONDUITS WITH FIBERGLASS SWEEPS. COORDINATE WITH JUDY BARNES 541-312-7746. SEE DETAIL 1, SHEET SD-09.
 - 7 CONSTRUCT POWER UTILITY TRENCH AND CONDUITS TO PP&L SPECIFICATIONS. 1 - 6-INCH SCHD 40 PVC CONDUIT. REFER TO PP&L POWER DESIGN. ANY RUN >150 FT IN LENGTH WILL REQUIRE FIBERGLASS LONG RADIUS SWEEPS.
 - 8 CONSTRUCT POWER UTILITY TRENCH AND CONDUITS TO PP&L SPECIFICATIONS. 1 - 6-INCH SCHD 40 PVC CONDUIT. REFER TO PP&L POWER DESIGN. ANY RUN >150 FT IN LENGTH WILL REQUIRE FIBERGLASS LONG RADIUS SWEEPS.
 - 9 SEE SHEETS IL-01 TO IL-05 FOR ILLUMINATION PLANS
 - 10 EXISTING AVION WATER TO BE RELOCATED (BY OTHERS)
 - 11 EXISTING AVION WATER VALVE TO BE RELOCATED OR ADJUSTED TO FINISHED GRADES (BY OTHERS)
 - 12 EXISTING IRRIGATION STRUCTURE TO REMAIN

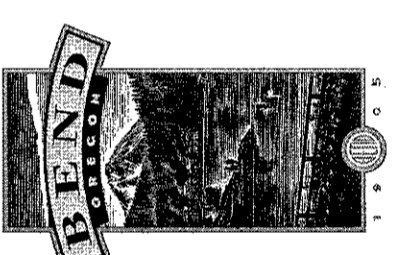
RECORD DRAWING CERTIFICATION

I CERTIFY THAT THIS PROJECT HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE CITY APPROVED PLANS AND THE CITY OF BEND PUBLIC IMPROVEMENT CONSTRUCTION PROCEDURE STANDARD AND SPECIFICATIONS, DATED JULY 1, 2011. THIS CERTIFICATION IS BASED ON PERIODIC INSPECTIONS PERFORMED BY ME OR BY REPRESENTATIVES UNDER MY DIRECT SUPERVISION AND INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND OTHER INDEPENDENT TESTING AND INSPECTION AGENCIES. THE INFORMATION PROVIDED BY OTHERS HAS BEEN ASSUMED TO BE CORRECT AND HAS NOT BEEN VERIFIED BY THE ENGINEER. THIS CERTIFICATION INDICATES THAT I HAVE REVIEWED THIS INFORMATION AND VERIFIED THAT ANY REVISION(S) OR CHANGES AS DEFINED BY THE RECORD DO NOT APPEAR TO BE ADVERSE TO THE PLANNED USE AND/OR INTENT OF THE ORIGINAL DESIGN.

Signature
 Date



REED MARKET ROAD
 3RD STREET TO NEWBERRY DRIVE
 RMR PLAN & PROFILE, STA 54+50 TO 58+00
 CITY OF BEND, OREGON



REVISIONS:

1	MPD 12/09/2015	RECORD DRAWING
2		
3		

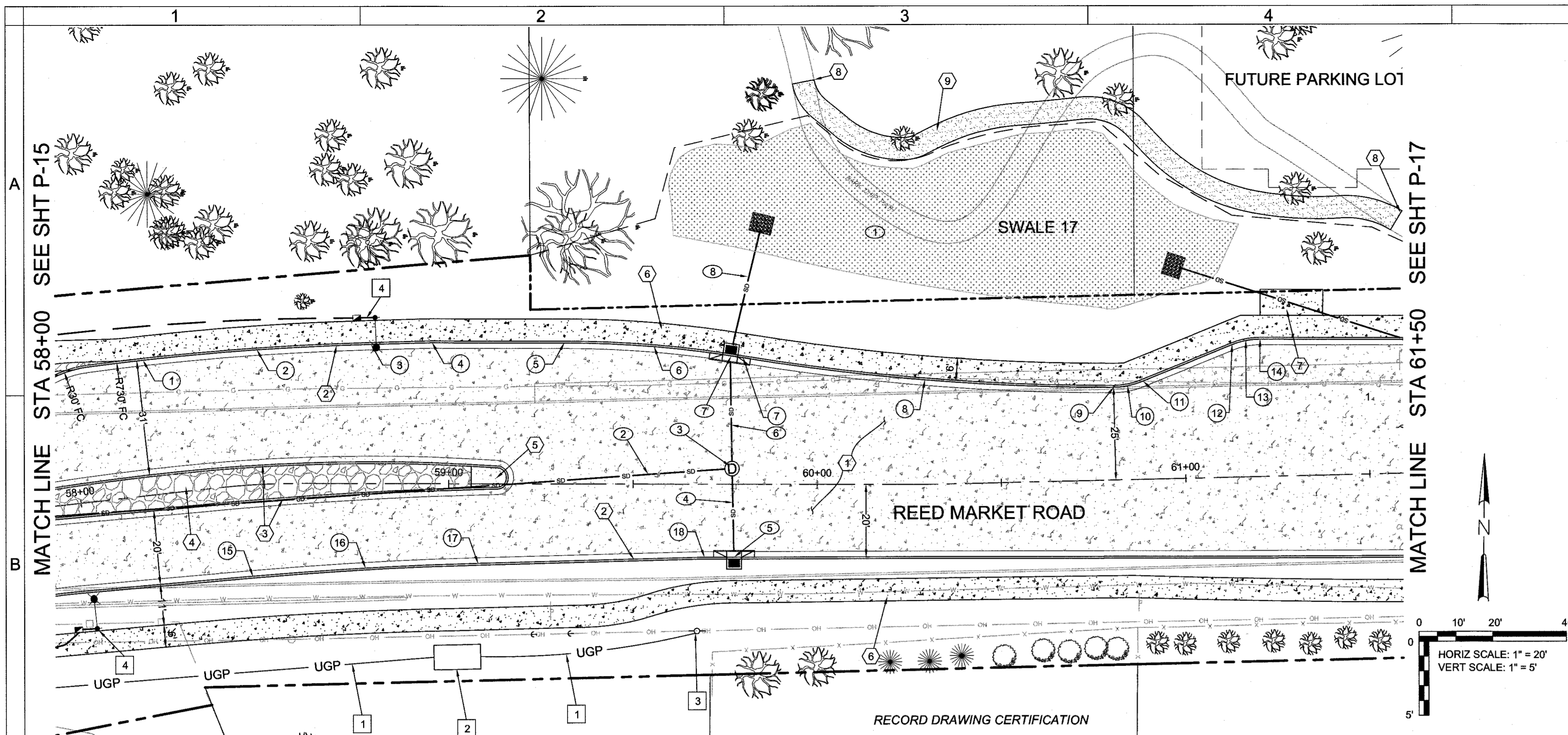
HWA SURVEYORS, ENGINEERS & PLANNERS
 HICKMAN, WILLIAMS & ASSOCIATES, INC.
 42930 O.B. RILEY ROAD, SUITE 100
 BEND, OREGON 97701
 PHONE: 541.389.9351 FAX: 541.386.5416

DESIGNED BY: MD
 DRAWN BY: MD
 SCALE: AS SHOWN
 FILE: REED 15TH BASE
 DATE: 04/21/2014

VERIFY SCALES
 0 1" BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET: **P-15**

COB # ST12CJ

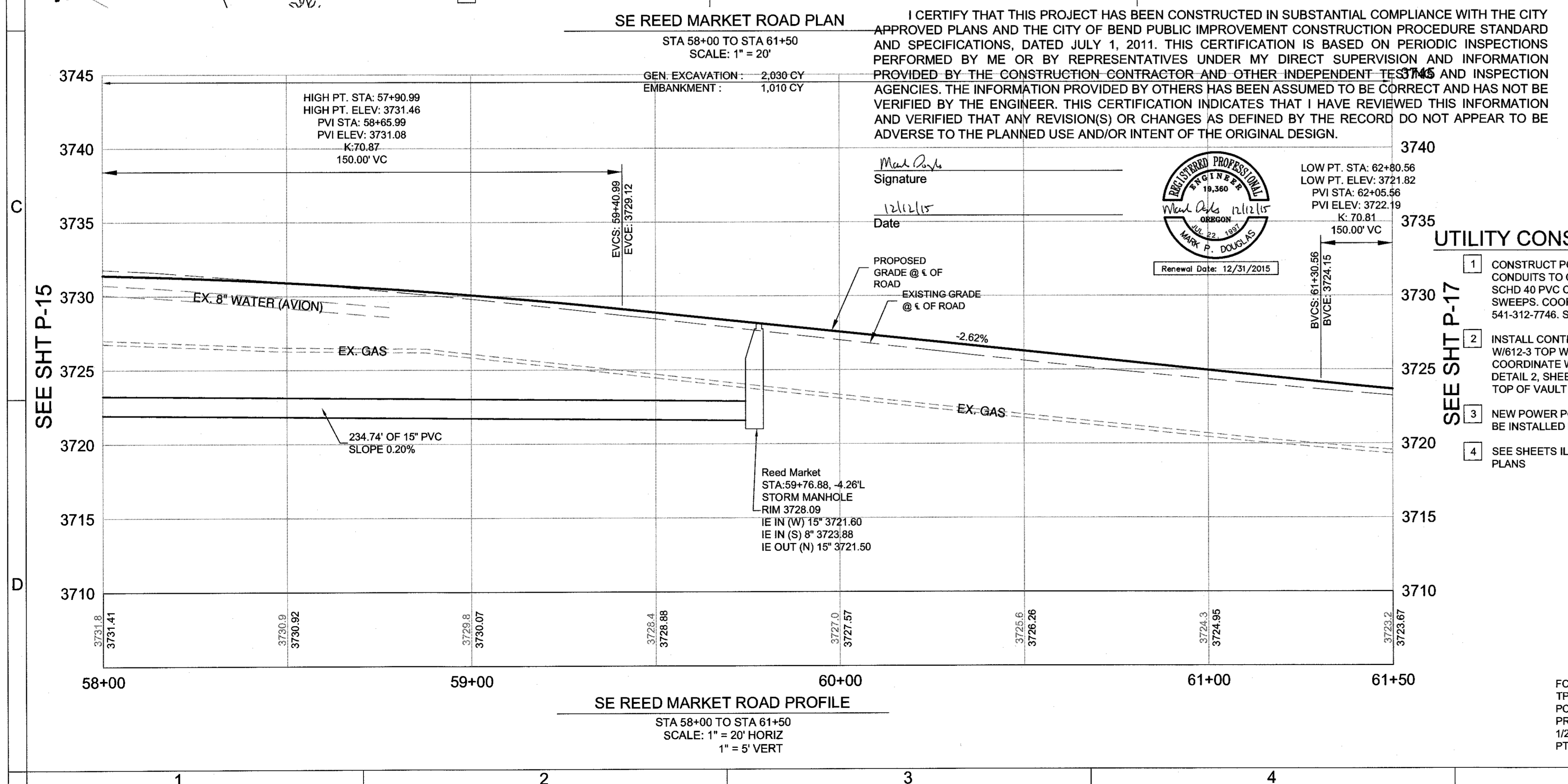


ROAD AND SIDEWALK CONSTRUCTION NOTES:

- 1 CONSTRUCT PLAIN DOWNELO CONCRETE AND AGGREGATE BASE PER TYPICAL SECTION. SEE SHEETS C-08 - C-14
- 2 STA 58+00, 35.70' LT - 61+50, 36.44' LT ; 58+00, 23.80' RT - 61+50, 22.10' RT CONSTRUCT CONCRETE CURB AND GUTTER - 705 LF (SEE DETAIL 2/SD-06)
- 3 STA 58+00.00 - 59+16.11 CONSTRUCT MEDIAN CONCRETE CURB AND GUTTER - 237 LF (SEE DETAIL 2/SD-06)
- 4 STA 58+00.00 - 59+06.12 CONSTRUCT STAMPED COLORED CONCRETE MEDIAN - 866 SF (SEE DETAIL 5/SD-06)
- 5 CONSTRUCT MEDIAN END (SEE COB DRG R-25) CONSTRUCT 6" THICK CONCRETE PAVEMENT - 50 SF
- 6 STA 58+00, 41.24' LT - 61+50, 39.94' LT ; STA 58+00, 37.80' RT - 61+50, 35.37' RT CONSTRUCT CONCRETE SIDEWALK - 4,214 SF (SEE COB DRG R4-A, 6' WIDTH)
- 7 CONSTRUCT CONCRETE BUS PAD CONSTRUCT CONCRETE SIDEWALK - 119 SF (SEE DETAIL 2/SD-08)
- 8 MATCH EXISTING BARK CHIP PATH
- 9 CONSTRUCT NEW BARK CHIP PATH - 1,075 SF (SEE DETAIL 3, SHEET SD-10)

STORM SEWER CONSTRUCTION NOTES:

- 1 CONSTRUCT SWALE 17. (SEE COB DRG STRM-2, STRM-3, SHEET G-06)
- 2 STA 57+42.02, 0.62' RT - 59+76.88, 4.26' LT INSTALL 15" STORM SEWER PIPE, 10-15 FT DEPTH - 235 LF (SEE COB DRG S-1)
- 3 STA 59+76.88, 4.26' LT CONSTRUCT STORM SEWER MANHOLE - 1 (SEE COB DRG S-3B, STRM-8)
- 4 STA 59+76.88, 4.26' LT - 59+77.46, 19.78' RT INSTALL 8" STORM SEWER PIPE, 0-5 FT DEPTH - C900 PVC - 25 LF (SEE COB DRG S-1, AND DETAIL 6/P-24)
- 5 STA 59+77.46, 19.78' RT CONSTRUCT CONCRETE INLET TYPE CG-3 W/18" SUMP - 1 (SEE DRG RD371, RD372, STRM-8, AND DETAIL 6/P-24)
- 6 STA 59+76.88, 4.26' LT - 59+76.36, 34.79' LT INSTALL 15" STORM SEWER PIPE, 10-15 FT DEPTH - 31 LF (SEE COB DRG S-1, AND DETAIL 6/P-24)
- 7 STA 59+76.36, 34.79' LT CONSTRUCT CONCRETE INLET TYPE CG-3 W/18" SUMP - 1 (SEE DRG RD371, RD372, STRM-8, AND DETAIL 6/P-24)
- 8 STA 59+76.36, 34.79' LT - 59+84.36, 68.35' LT INSTALL STORM SEWER OUTFALL TO INFILTRATION BASIN INSTALL 15" STORM SEWER PIPE, 10-15 FT DEPTH - 35 LF (SEE COB DRG S-1, DETAIL 6/P-24, DETAIL 3/SD-08, AND SHEET G-06)



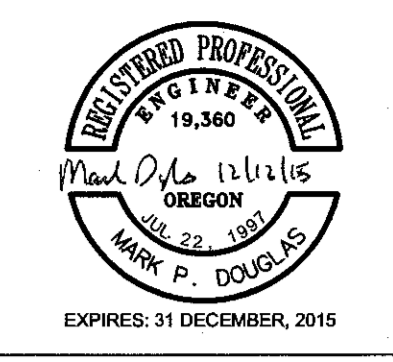
UTILITY CONSTRUCTION NOTES:

- 1 CONSTRUCT POWER UTILITY TRENCH AND CONDUITS TO CEC SPECIFICATIONS. 3 - 6-INCH SCHED 40 PVC CONDUITS WITH FIBERGLASS SWEEPS. COORDINATE WITH JUDY BARNES 541-312-7746. SEE DETAIL 1, SHEET SD-09.
- 2 INSTALL CONTRACTOR SUPPLIED CEC VAULT 'E2' W/612-3 TOP W/3-332P PER CEC SPECIFICATIONS. COORDINATE WITH JUDY BARNES 541-312-7746. SEE DETAIL 2, SHEET SD-09, AND DETAIL 1, SHEET SD-10. TOP OF VAULT = 3730.40
- 3 NEW POWER POLE, GUY WIRES, AND ANCHORS TO BE INSTALLED BY CEC
- 4 SEE SHEETS IL-01 TO IL-05 FOR ILLUMINATION PLANS

CURB RETURN TABLE

POINT	FC LOCATION	TP ELEV	DESC	RADIUS
1	STA 58+21.05, 36.56' LT	3730.51	PC	
2	STA 58+49.69, 36.38' LT	3730.19	1/2A	730 FT
3	STA 58+78.89, 37.64' LT	3729.72	PT	
4	STA 58+95.45, 38.11' LT	3729.40	PT	
5	STA 59+31.30, 38.15' LT	3728.60	PC	
6	STA 59+55.66, 37.18' LT	3727.99	1/2A	300 FT
7	STA 59+79.87, 34.24' LT	3727.41	PRC	
8	STA 60+30.34, 28.21' LT	3726.21	1/2A	600 FT
9	STA 60+81.10, 25.11' LT	3724.95	PC	
10	STA 60+85.16, 25.44' LT	3724.83	1/2A	20 FT
11	STA 60+88.61, 26.41' RT	3724.72	PT	
12	STA 61+13.49, 35.87' LT	3723.88	PRC	
13	STA 61+17.23, 36.90' LT	3723.77	1/2A	20 FT
14	STA 61+21.11, 37.18' LT	3723.66	PT	
15	STA 58+45.14, 24.72' RT	3730.48	PC	
16	STA 58+77.43, 22.90' RT	3730.04	1/2A	1000 FT
17	STA 59+08.00, 21.56' RT	3729.47	PT	
18	STA 59+69.43, 19.81' RT	3727.98	PT	

FC = FACE OF CURB
TP = TOP OF PAVEMENT
PC = POINT OF CURVATURE
PRC = POINT OF REVERSE CURVATURE
1/2 Δ = MID POINT
PT = POINT OF TANGENCY



REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
RMR PLAN & PROFILE, STA 58+00 TO 61+50
CITY OF BEND, OREGON



REVISIONS:

1. MPD 12/09/2015
RECORD DRAWING
2.
3.

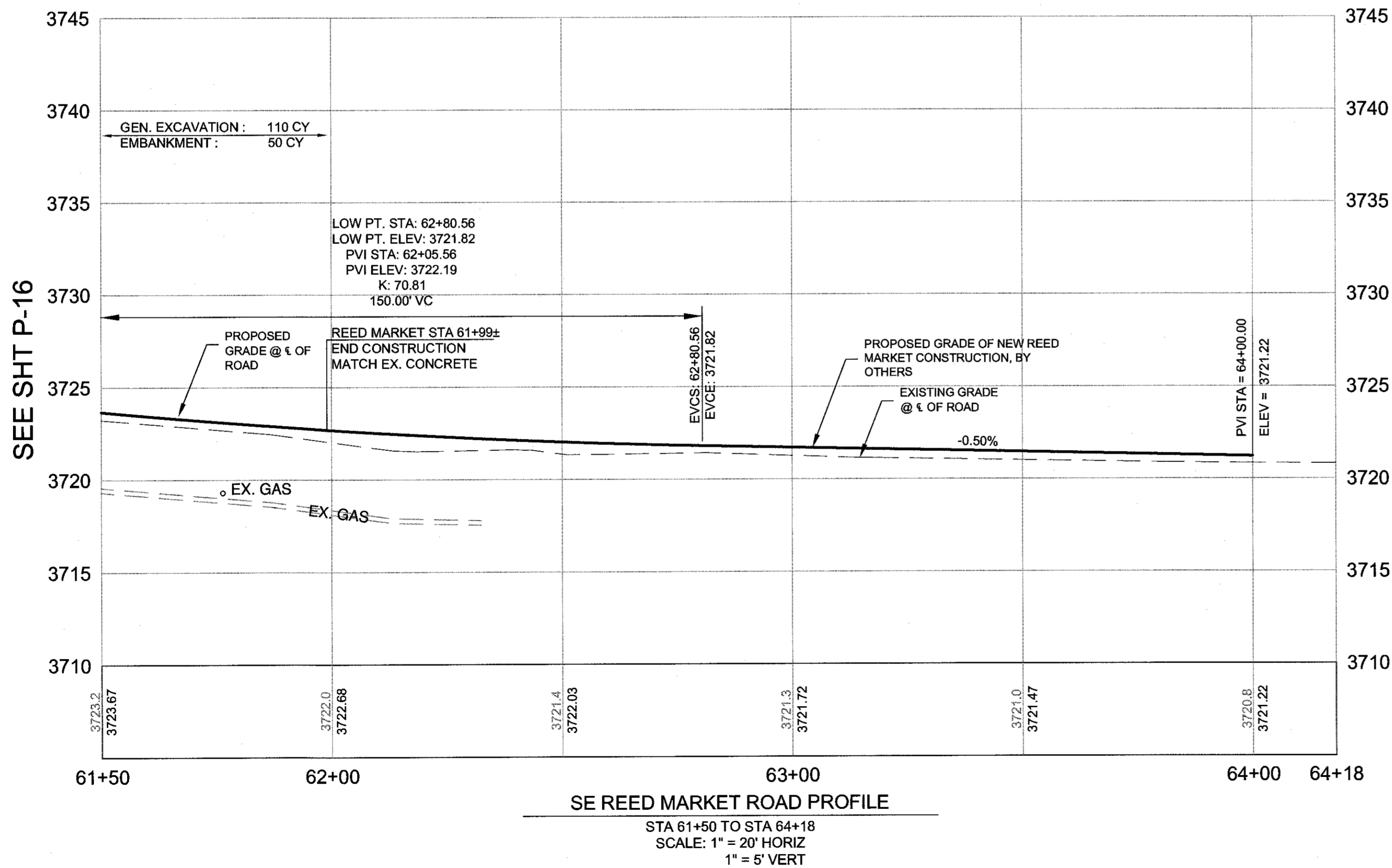
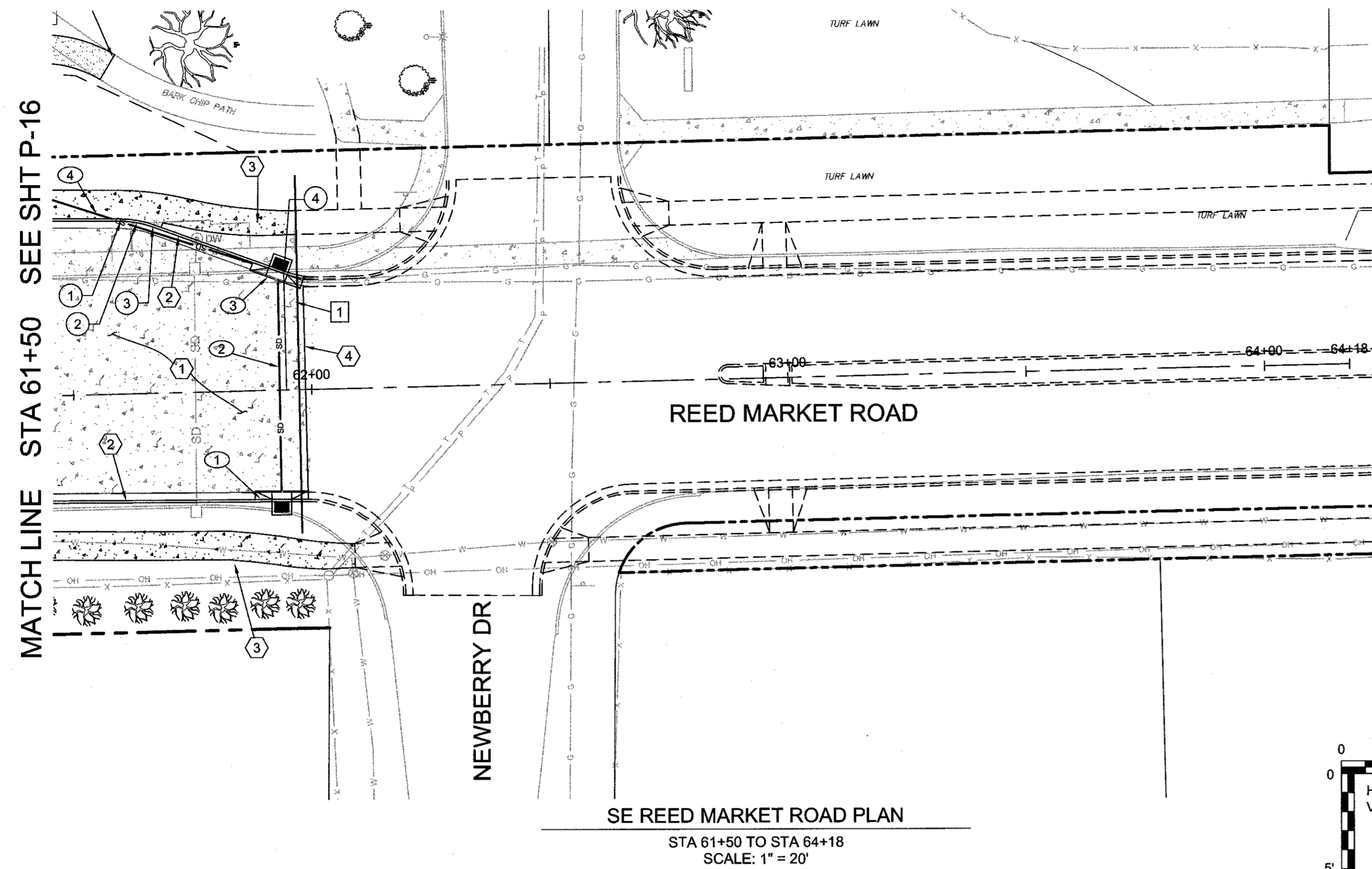
HWA SURVEYORS, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC.
4230 O.A. RIETZ ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541-389-9351 FAX: 541-386-5416

DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

VERIFY SCALES
0 1"
BAR EQUALS ONE INCH
ON ORIGINAL DRAWING

SHEET: **P-16**

COB # ST12CJ



ROAD AND SIDEWALK CONSTRUCTION NOTES:

- ① CONSTRUCT PLAIN DOWELED CONCRETE AND AGGREGATE BASE PER TYPICAL SECTION. SEE SHEETS C-08 - C-14
- ② STA 61+50, 36.44' LT - 62+01.92, 23.00' LT ; 61+50, 22.10' RT - 61+98.71, 23.00' RT
CONSTRUCT CONCRETE CURB AND GUTTER - 103 LF
(SEE DETAIL 2/SD-06)
MATCH EXISTING CURB & GUTTER
- ③ STA 61+50, 39.94' LT - 61+95.59, 35.00' LT ; 61+50, 35.37' RT - 62+08.23, 35.00' RT
CONSTRUCT CONCRETE SIDEWALK - 570 SF
(SEE COB DRG R4-A & R-4B, 6' WIDTH)
MATCH EXISTING SIDEWALK
- ④ STA 61+99±
MATCH EXISTING CONCRETE
(SEE SHEET J-04)

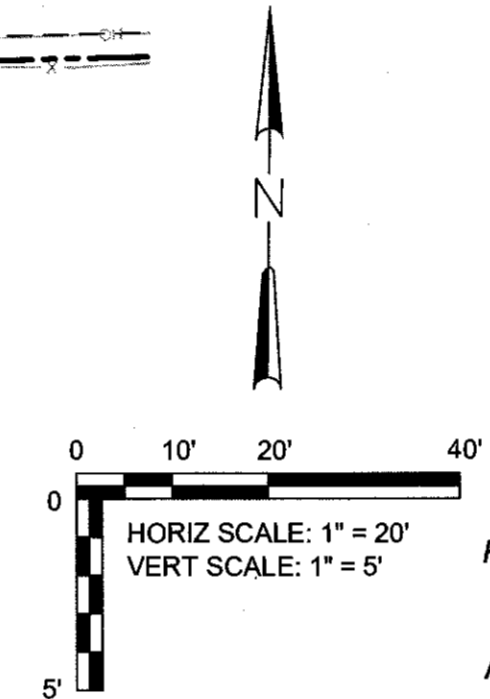
STORM SEWER CONSTRUCTION NOTES:

- ① STA 61+93.11, 22.90' RT
CONSTRUCT CONCRETE INLET TYPE CG-3 W/18" SUMP - 1
(SEE DRG RD371, RD372, STRM-8, AND DETAIL 1/P-25)
- ② STA 61+93.11, 22.90' RT - 61+93.47, 24.82' LT
INSTALL 8" STORM SEWER PIPE, 0-5 FT DEPTH - C900 PVC - 48 LF
(SEE COB DRG S-1, AND DETAIL 1/P-25)
- ③ STA 61+93.47, 24.82' LT
CONSTRUCT CONCRETE INLET TYPE CG-3 W/18" SUMP - 1
(SEE DRG RD371, RD372, STRM-8, AND DETAIL 1/P-25)
- ④ STA 61+93.47, 24.82' LT - 60+99.86, 57.05' LT
INSTALL STORM SEWER OUTFALL TO INFILTRATION BASIN
INSTALL 8" STORM SEWER PIPE, 0-5 FT DEPTH - C900 PVC - 99 LF
(SEE COB DRG S-1, DETAIL 1/P-25, DETAIL 3/SD-08, AND SHEET G-06)

UTILITY CONSTRUCTION NOTES:

NOTE: SEE I/L PLANS FOR SECONDARY POWER INSTALLATION.

- ① INSTALL 1 - 2-INCH SCHD 40 PVC CONDUIT, CAP ENDS AT SURFACE
TRENCHING AND CONDUITS - 75 LF



RECORD DRAWING CERTIFICATION

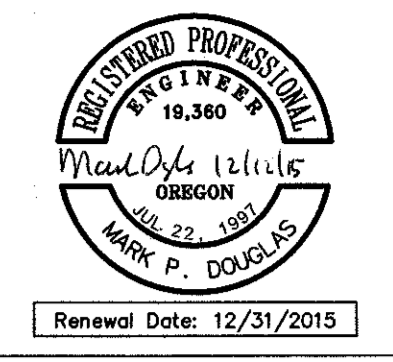
I CERTIFY THAT THIS PROJECT HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE CITY APPROVED PLANS AND THE CITY OF BEND PUBLIC IMPROVEMENT CONSTRUCTION PROCEDURE STANDARD AND SPECIFICATIONS, DATED JULY 1, 2011. THIS CERTIFICATION IS BASED ON PERIODIC INSPECTIONS PERFORMED BY ME OR BY REPRESENTATIVES UNDER MY DIRECT SUPERVISION AND INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND OTHER INDEPENDENT TESTING AND INSPECTION AGENCIES. THE INFORMATION PROVIDED BY OTHERS HAS BEEN ASSUMED TO BE CORRECT AND HAS NOT BEEN VERIFIED BY THE ENGINEER. THIS CERTIFICATION INDICATES THAT I HAVE REVIEWED THIS INFORMATION AND VERIFIED THAT ANY REVISION(S) OR CHANGES AS DEFINED BY THE RECORD DO NOT APPEAR TO BE ADVERSE TO THE PLANNED USE AND/OR INTENT OF THE ORIGINAL DESIGN.

Signature: *Mark P. Douglas*
Date: *12/17/15*



POINT	FC LOCATION	TP ELEV	DESC	RADIUS
①	STA 61+60.81, 36.17' LT	3722.70	PC	
②	STA 61+64.21, 35.79' LT	3722.64	1/2Δ	20 FT
③	STA 61+67.50, 34.84' LT	3722.59	PT	
④	STA 61+94.72, 24.34' LT	3722.28	PC	20 FT

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REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
RMR PLAN & PROFILE, STA 61+50 TO 64+18
CITY OF BEND, OREGON

REVISIONS:

1.	MPD 12/09/2015	RECORD DRAWING
2.		
3.		

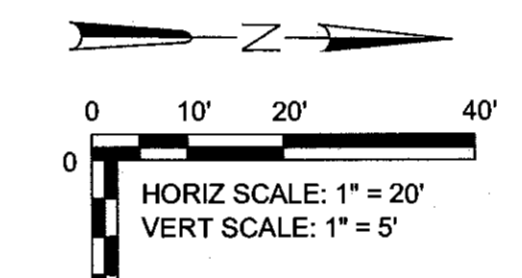
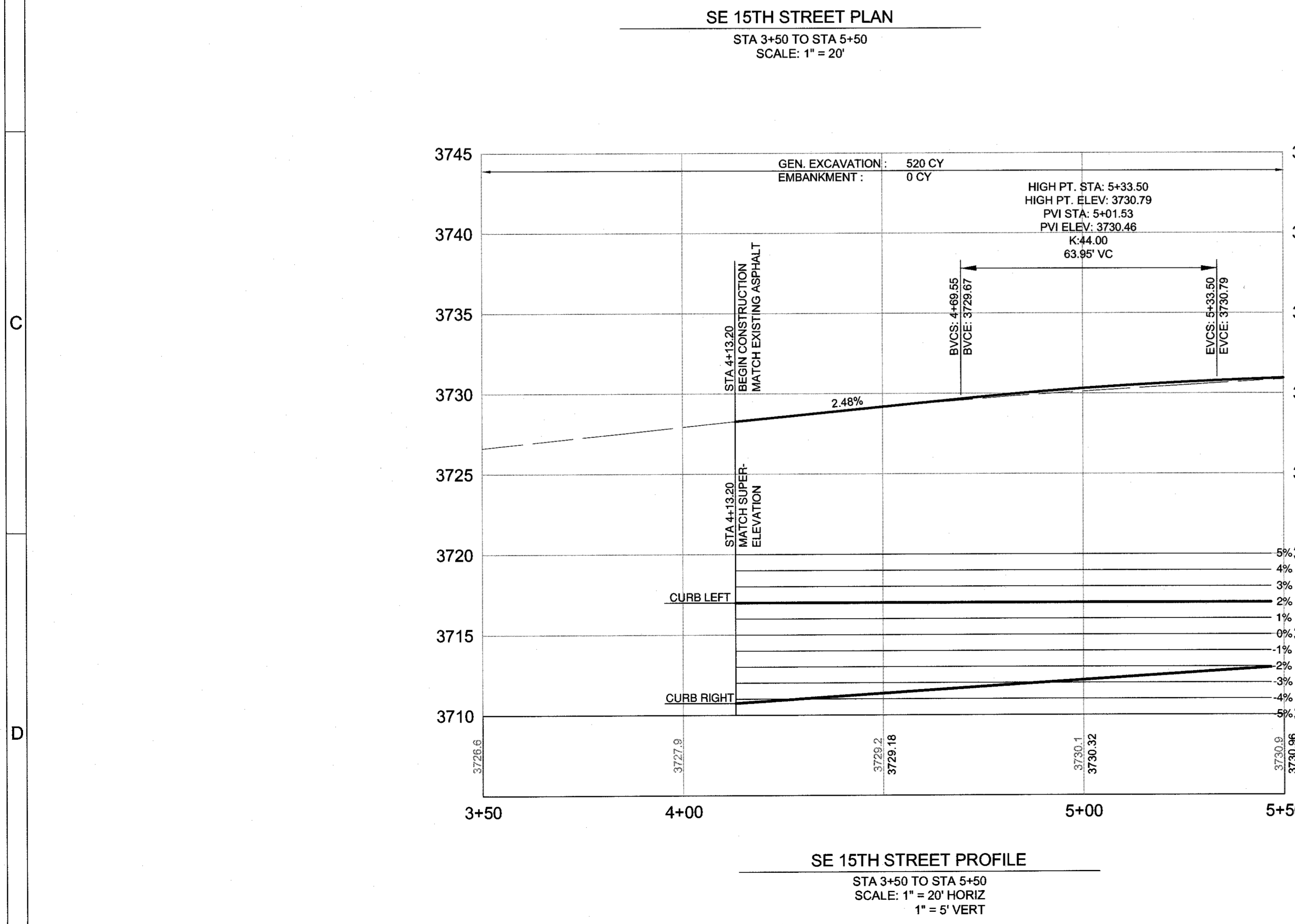
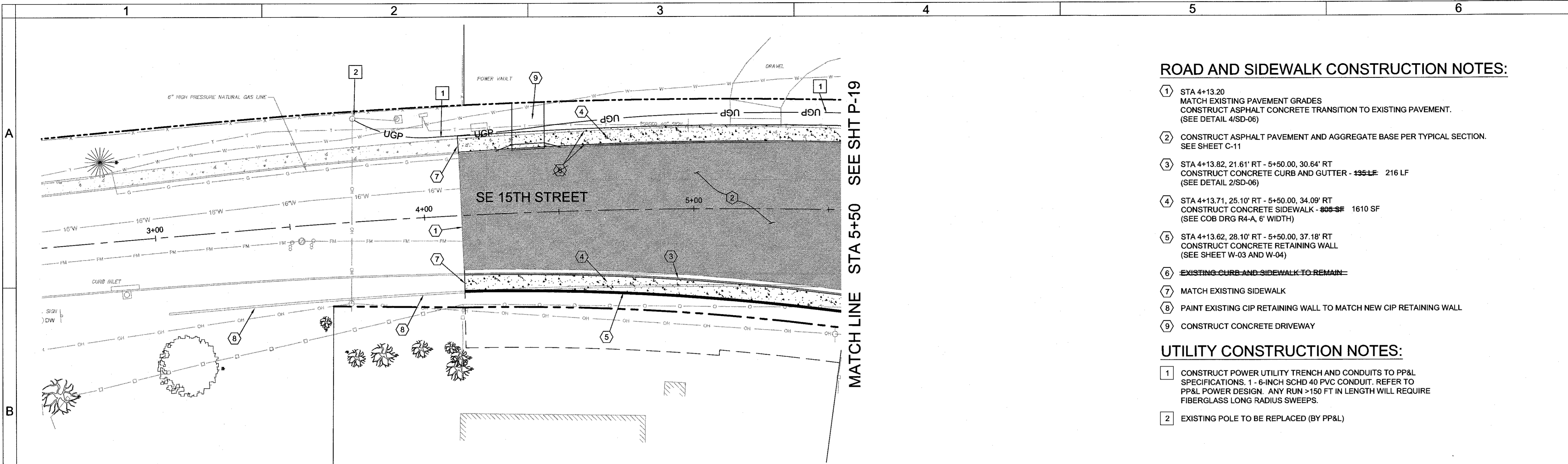
HWA SURVEYORS, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES INC
4230 O.A. RILEY ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541.389.9351 FAX: 541.386.5416

DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

VERIFY SCALES
0 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET:
P-17

COB # ST12CJ



ROAD AND SIDEWALK CONSTRUCTION NOTES:

- ① STA 4+13.20
MATCH EXISTING PAVEMENT GRADES
CONSTRUCT ASPHALT CONCRETE TRANSITION TO EXISTING PAVEMENT.
(SEE DETAIL 4/SD-06)
- ② CONSTRUCT ASPHALT PAVEMENT AND AGGREGATE BASE PER TYPICAL SECTION.
SEE SHEET C-11
- ③ STA 4+13.82, 21.61' RT - 5+50.00, 30.64' RT
CONSTRUCT CONCRETE CURB AND GUTTER - 165 SF 216 LF
(SEE DETAIL 2/SD-06)
- ④ STA 4+13.71, 25.10' RT - 5+50.00, 34.09' RT
CONSTRUCT CONCRETE SIDEWALK - 805 SF 1610 LF
(SEE COB DRG R4-A, 6' WIDTH)
- ⑤ STA 4+13.62, 28.10' RT - 5+50.00, 37.18' RT
CONSTRUCT CONCRETE RETAINING WALL
(SEE SHEET W-03 AND W-04)
- ⑥ EXISTING CURB AND SIDEWALK TO REMAIN
- ⑦ MATCH EXISTING SIDEWALK
- ⑧ PAINT EXISTING CIP RETAINING WALL TO MATCH NEW CIP RETAINING WALL
- ⑨ CONSTRUCT CONCRETE DRIVEWAY

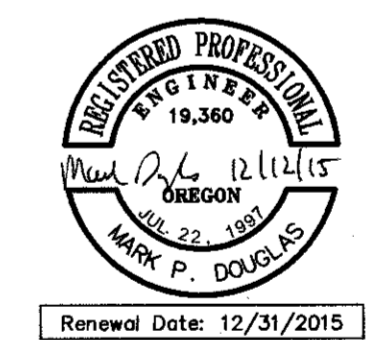
UTILITY CONSTRUCTION NOTES:

- ① CONSTRUCT POWER UTILITY TRENCH AND CONDUITS TO PP&L SPECIFICATIONS. 1 - 6-INCH SCHD 40 PVC CONDUIT. REFER TO PP&L POWER DESIGN. ANY RUN >150 FT IN LENGTH WILL REQUIRE FIBERGLASS LONG RADIUS SWEEPS.
- ② EXISTING POLE TO BE REPLACED (BY PP&L)

RECORD DRAWING CERTIFICATION

I CERTIFY THAT THIS PROJECT HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE CITY APPROVED PLANS AND THE CITY OF BEND PUBLIC IMPROVEMENT CONSTRUCTION PROCEDURE STANDARD AND SPECIFICATIONS, DATED JULY 1, 2011. THIS CERTIFICATION IS BASED ON PERIODIC INSPECTIONS PERFORMED BY ME OR BY REPRESENTATIVES UNDER MY DIRECT SUPERVISION AND INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND OTHER INDEPENDENT TESTING AND INSPECTION AGENCIES. THE INFORMATION PROVIDED BY OTHERS HAS BEEN ASSUMED TO BE CORRECT AND HAS NOT BE VERIFIED BY THE ENGINEER. THIS CERTIFICATION INDICATES THAT I HAVE REVIEWED THIS INFORMATION AND VERIFIED THAT ANY REVISION(S) OR CHANGES AS DEFINED BY THE RECORD DO NOT APPEAR TO BE ADVERSE TO THE PLANNED USE AND/OR INTENT OF THE ORIGINAL DESIGN.

Signature: Mark P. Douglas
Date: 12/21/15



**REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
15TH ST. PLAN & PROFILE, STA 3+50 TO 5+50**
CITY OF BEND, OREGON



REVISIONS:

1.	MPD 12/09/2015	RECORD DRAWING
2.		
3.		

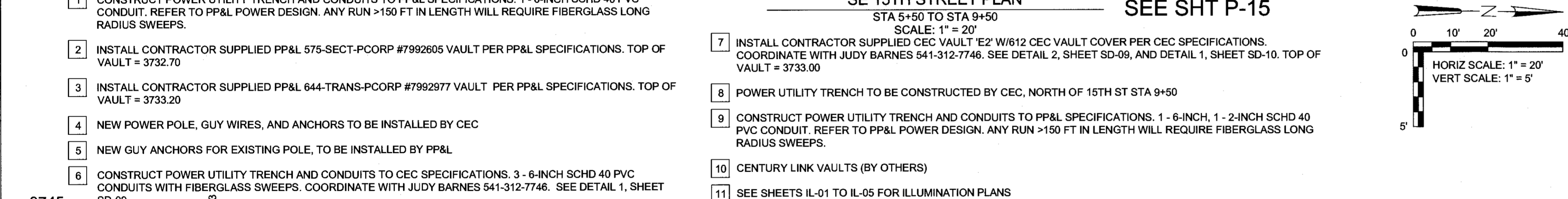
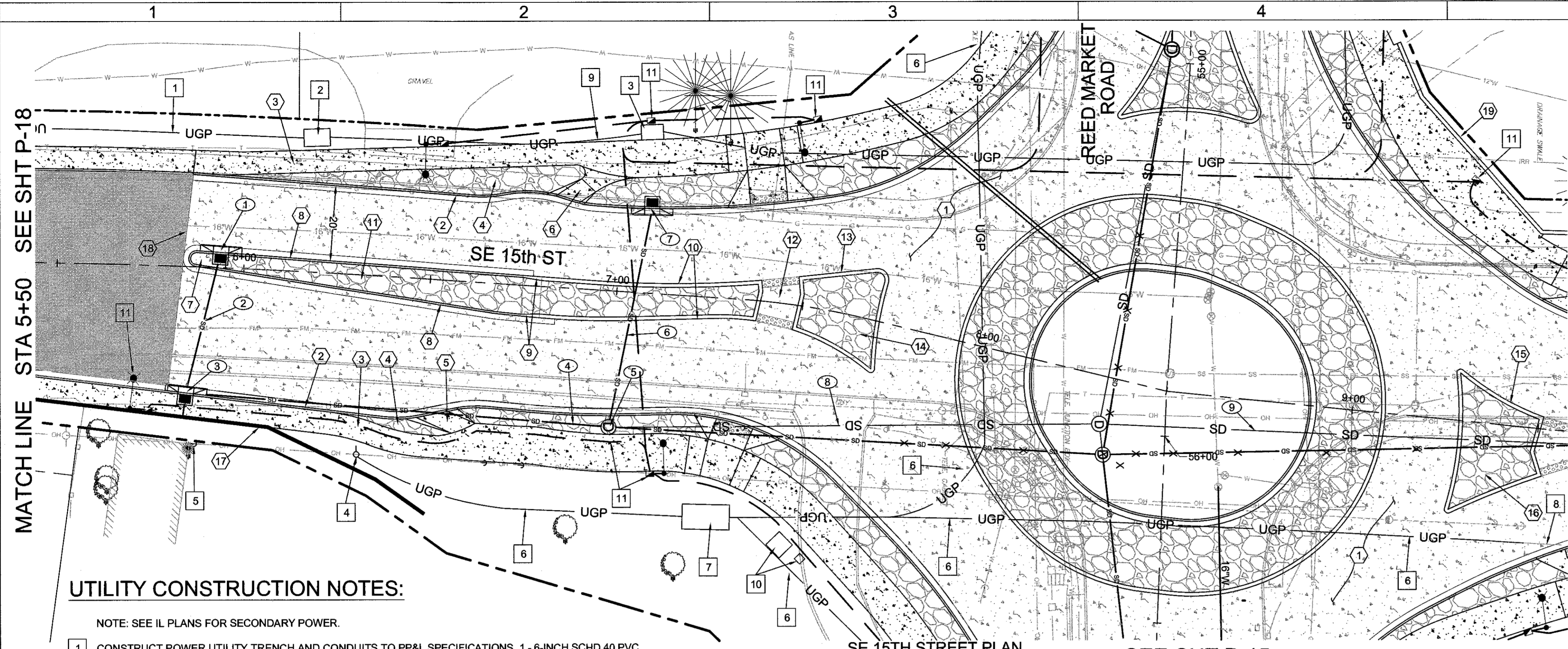
HWA SURVEYORS, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC
42930 O.B. RUEY ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541.389.9351 FAX: 541.388.5414

DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

VERIFY SCALES
0 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET: **P-18**

COB # ST12CJ



ROAD AND SIDEWALK CONSTRUCTION NOTES:

- 1 CONSTRUCT PLAIN DOWELED CONCRETE AND AGGREGATE BASE PER TYPICAL SECTION. SEE SHEETS C-08 - C-14
- 2 STA 5+85.53, 24.61' LT - 6+93.10, 22.43' LT ; 5+50.00, 30.64' RT - 6+67.37, 33.02' RT CONSTRUCT CONCRETE CURB AND GUTTER - 226 LF (SEE DETAIL 2/SD-06)
- 3 STA 5+85.57, 27.69' LT - 6+93.22, 33.08' LT ; STA 5+50.00, 34.09' RT - 6+67.22, 42.77' RT CONSTRUCT CONCRETE WALKS - 1,392 SF (SEE COB DRG R4-A, 6' WIDTH)
- 4 STA 5+93.66 - 6+89.50 (LT) ; 6+25.59 - 6+58.25 (RT) CONSTRUCT STAMPED COLORED CONCRETE - 484 SF (SEE DETAIL 5/SD-06)
- 5 CONSTRUCT BICYCLE EXIT RAMP CONCRETE WALKS - 62 SF (SEE DETAIL 3/SD-07)
- 6 CONSTRUCT BICYCLE ENTRANCE RAMP CONCRETE WALKS - 40 SF (SEE DETAIL 4/SD-07)
- 7 CONSTRUCT MEDIAN END (SEE COB DRG R-25) CONSTRUCT 6" THICK CONCRETE PAVEMENT - 32 SF
- 8 STA 5+85.18 - 6+74.73 CONSTRUCT MEDIAN CONCRETE CURB AND GUTTER - 183 LF (SEE DETAIL 2/SD-06)
- 9 STA 6+74.73 - 6+79.73 TAPER FROM CURB AND GUTTER TO HIGH STRENGTH LOW PROFILE MOUNTABLE CURB - 10 LF (SEE DETAIL 7/SD-06)
- 10 STA 6+79.73 - 7+38.97 CONSTRUCT HIGH STRENGTH LOW PROFILE MOUNTABLE CURB - 129 LF (SEE DETAIL 3/SD-06)
- 11 STA 5+95.08 - 7+37.97 CONSTRUCT STAMPED COLORED CONCRETE MEDIAN - 1,078 SF (SEE DETAIL 5/SD-06)
- 12 CONSTRUCT ACCESSIBLE MEDIAN OPENING CONSTRUCT 6" THICK CONCRETE PAVEMENT - 128 SF TRUNCATED DOME DETECTABLE WARNINGS - 40 SF
- 13 STA 7+47.89 - 7+72.64 CONSTRUCT HIGH STRENGTH LOW PROFILE MOUNTABLE CURB - 91 LF (SEE DETAIL 3/SD-06)
- 14 STA 7+48.89 - 7+71.64 CONSTRUCT STAMPED COLORED CONCRETE MEDIAN - 387 SF (SEE DETAIL 5/SD-06)
- 15 STA 9+26.87 - 9+52.12 CONSTRUCT HIGH STRENGTH LOW PROFILE MOUNTABLE CURB - 110 LF (SEE DETAIL 3/SD-06)
- 16 STA 9+27.87 - 9+51.12 CONSTRUCT STAMPED COLORED CONCRETE MEDIAN - 491 SF (SEE DETAIL 5/SD-06)
- 17 STA 5+50.00, 37.18' RT - 6+52.36, 62.87' RT CONSTRUCT CONCRETE RETAINING WALL WITH FENCE (SEE SHEET W-03 AND W-04)
- 18 CONSTRUCT ASPHALT TO PLAIN DOWELED CONCRETE TRANSITION FLEXIBLE TO RIGID PAVEMENT TRANSITION - 1 (SEE DETAIL 1/SD-07)
- 19 REED STA 54+93.94, 55.26' LT - 15TH STA 9+71.32, 53.04' LT CONSTRUCT RETAINING WALL (SEE SHEET W-01 AND W-02)

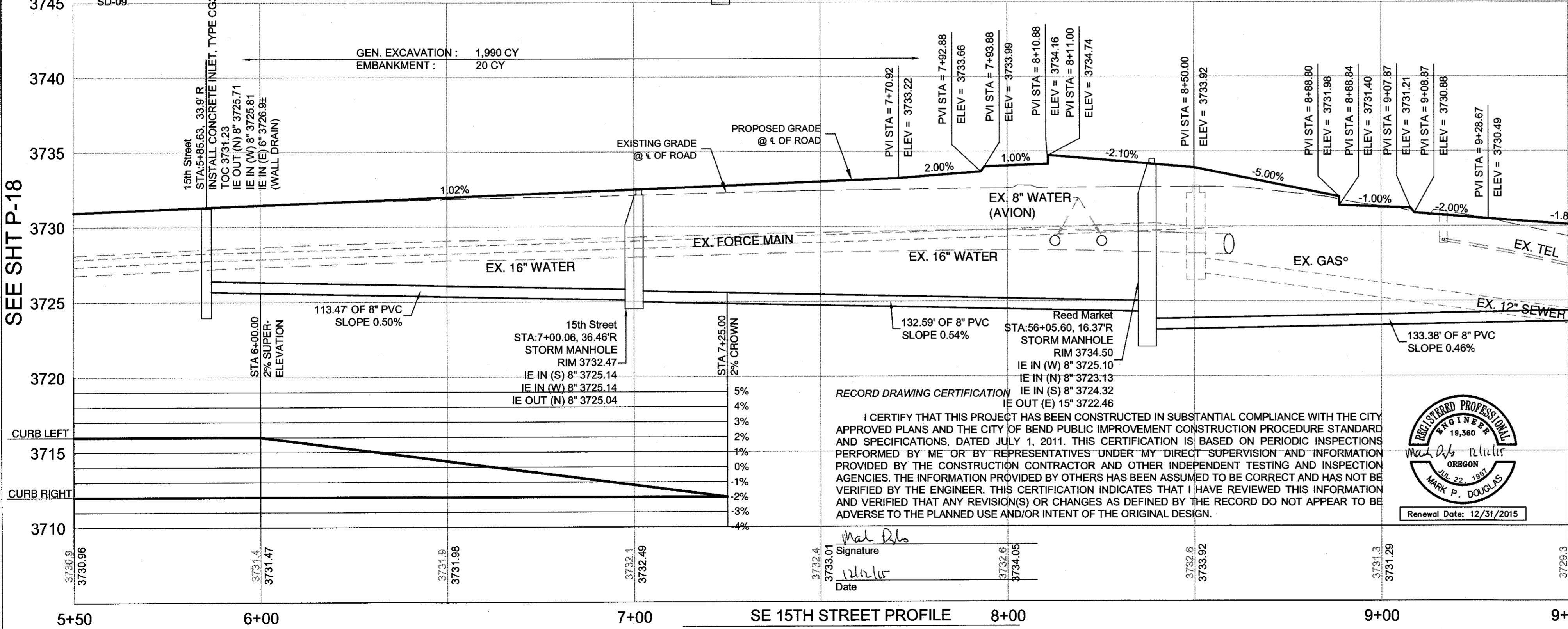
STORM SEWER CONSTRUCTION NOTES:

- 1 STA 5+93.69, 4.06' LT CONSTRUCT CONCRETE INLET TYPE CG-3 W/18" SUMP - 1 (SEE DRG RD371, RD372, AND STRM-8)
- 2 STA 5+93.69, 4.06' LT - 5+85.63, 33.86' RT INSTALL 8" STORM SEWER PIPE, 5-10 FT DEPTH - C900 PVC - 39 LF (SEE COB DRG S-1, 2/P-25)
- 3 STA 5+85.63, 33.86' RT CONSTRUCT CONCRETE INLET TYPE CG-3 W/18" SUMP - 1 (SEE DRG RD371, RD372, AND STRM-8)
- 4 STA 5+85.63, 33.86' RT - 7+00.06, 36.46' RT INSTALL 8" STORM SEWER PIPE, 5-10 FT DEPTH - C900 PVC - 114 LF (SEE COB DRG S-1)
- 5 STA 7+00.06, 36.46' RT CONSTRUCT STORM SEWER MANHOLE - 1 (SEE COB DRG S-3B, STRM-8)
- 6 STA 7+00.06, 36.46' RT - 6+97.89, 22.42' LT INSTALL 8" STORM SEWER PIPE, 5-10 FT DEPTH - C900 PVC - 59 LF (SEE COB DRG S-1, 3/P-25)
- 7 STA 7+08.03, 22.70' LT CONSTRUCT CONCRETE INLET TYPE CG-3 W/18" SUMP - 1 (SEE DRG RD371, RD372, AND STRM-8)
- 8 STA 7+00.06, 36.46' RT - 8+37.41, 20.53' RT INSTALL 8" STORM SEWER PIPE, 5-10 FT DEPTH - C900 PVC - 133 LF (SEE COB DRG S-1)
- 9 STA 8+37.41, 20.53' RT - 9+66.96, 3.06' RT INSTALL 8" STORM SEWER PIPE, 5-10 FT DEPTH - C900 PVC - 134 LF (SEE COB DRG S-1)

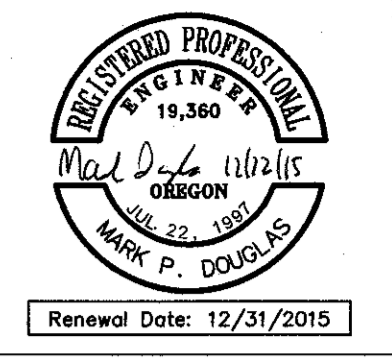
UTILITY CONSTRUCTION NOTES:

- NOTE: SEE IL PLANS FOR SECONDARY POWER.
- 1 CONSTRUCT POWER UTILITY TRENCH AND CONDUITS TO PP&L SPECIFICATIONS. 1 - 6-INCH SCHD 40 PVC CONDUIT. REFER TO PP&L POWER DESIGN. ANY RUN >150 FT IN LENGTH WILL REQUIRE FIBERGLASS LONG RADIUS SWEEPS.
 - 2 INSTALL CONTRACTOR SUPPLIED PP&L 575-SECT-PCORP #7992605 VAULT PER PP&L SPECIFICATIONS. TOP OF VAULT = 3732.70
 - 3 INSTALL CONTRACTOR SUPPLIED PP&L 644-TRANS-PCORP #7992977 VAULT PER PP&L SPECIFICATIONS. TOP OF VAULT = 3733.20
 - 4 NEW POWER POLE, GUY WIRES, AND ANCHORS TO BE INSTALLED BY CEC
 - 5 NEW GUY ANCHORS FOR EXISTING POLE, TO BE INSTALLED BY PP&L
 - 6 CONSTRUCT POWER UTILITY TRENCH AND CONDUITS TO CEC SPECIFICATIONS. 3 - 6-INCH SCHD 40 PVC CONDUITS WITH FIBERGLASS SWEEPS. COORDINATE WITH JUDY BARNES 541-312-7746. SEE DETAIL 1, SHEET SD-09.
 - 7 INSTALL CONTRACTOR SUPPLIED CEC VAULT "E2" W/612 CEC VAULT COVER PER CEC SPECIFICATIONS. COORDINATE WITH JUDY BARNES 541-312-7746. SEE DETAIL 2, SHEET SD-09, AND DETAIL 1, SHEET SD-10. TOP OF VAULT = 3733.00
 - 8 POWER UTILITY TRENCH TO BE CONSTRUCTED BY CEC, NORTH OF 15TH ST STA 9+50
 - 9 CONSTRUCT POWER UTILITY TRENCH AND CONDUITS TO PP&L SPECIFICATIONS. 1 - 6-INCH, 1 - 2-INCH SCHD 40 PVC CONDUIT. REFER TO PP&L POWER DESIGN. ANY RUN >150 FT IN LENGTH WILL REQUIRE FIBERGLASS LONG RADIUS SWEEPS.
 - 10 CENTURY LINK VAULTS (BY OTHERS)
 - 11 SEE SHEETS IL-01 TO IL-05 FOR ILLUMINATION PLANS

- 1 CONSTRUCT POWER UTILITY TRENCH AND CONDUITS TO PP&L SPECIFICATIONS. 1 - 6-INCH SCHD 40 PVC CONDUIT. REFER TO PP&L POWER DESIGN. ANY RUN >150 FT IN LENGTH WILL REQUIRE FIBERGLASS LONG RADIUS SWEEPS.
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- 7 INSTALL CONTRACTOR SUPPLIED CEC VAULT "E2" W/612 CEC VAULT COVER PER CEC SPECIFICATIONS. COORDINATE WITH JUDY BARNES 541-312-7746. SEE DETAIL 2, SHEET SD-09, AND DETAIL 1, SHEET SD-10. TOP OF VAULT = 3733.00
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- 9 CONSTRUCT POWER UTILITY TRENCH AND CONDUITS TO PP&L SPECIFICATIONS. 1 - 6-INCH, 1 - 2-INCH SCHD 40 PVC CONDUIT. REFER TO PP&L POWER DESIGN. ANY RUN >150 FT IN LENGTH WILL REQUIRE FIBERGLASS LONG RADIUS SWEEPS.
- 10 CENTURY LINK VAULTS (BY OTHERS)
- 11 SEE SHEETS IL-01 TO IL-05 FOR ILLUMINATION PLANS



SE 15TH STREET PROFILE
STA 5+50 TO STA 9+50
SCALE: 1" = 20' HORIZ
1" = 5' VERT



REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
15TH ST. PLAN & PROFILE, STA 5+50 TO 9+50
CITY OF BEND, OREGON



REVISIONS:
1. MPD 12/09/2015 RECORD DRAWING

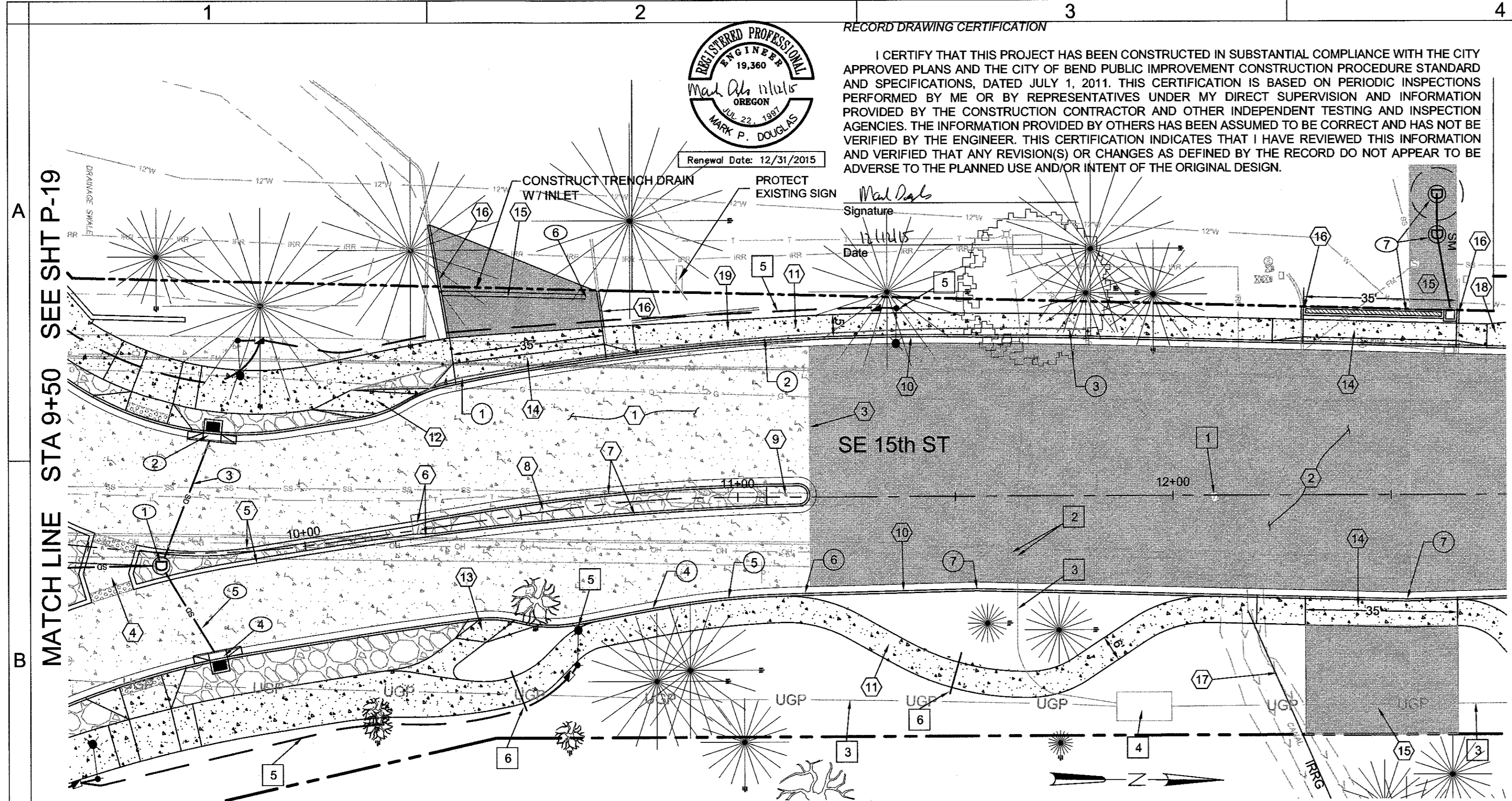
HWA SURVEYORS, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC
42930 O.B. NILEY ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541.389.9351 FAX: 541.388.5416

DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

VERIFY SCALES
0 1" BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET: **P-19**

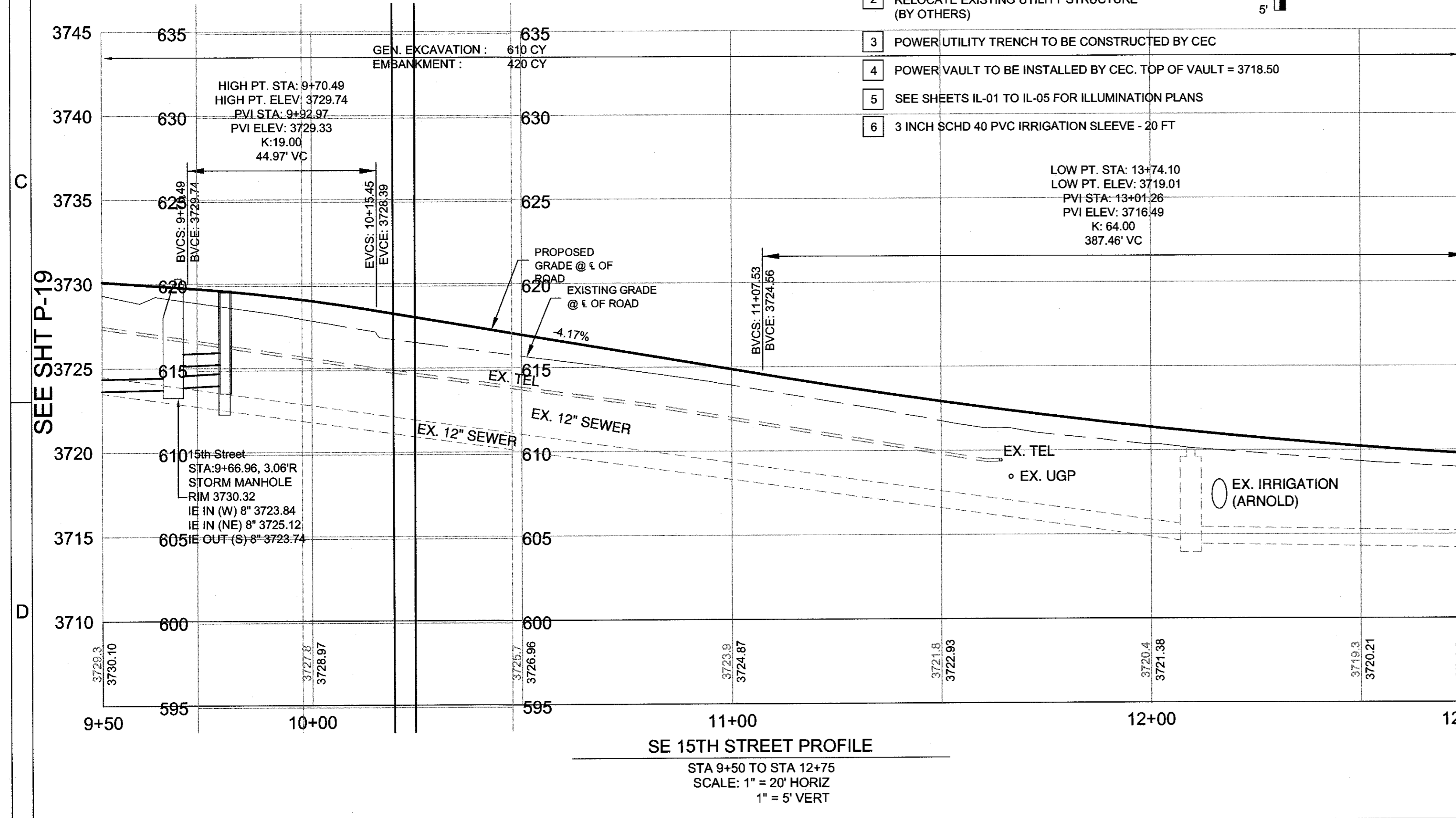
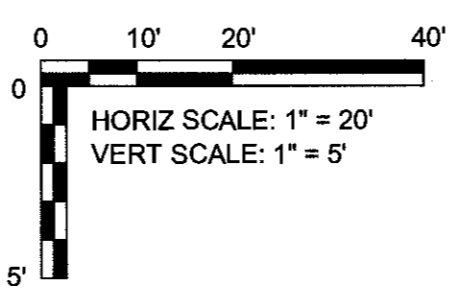
COB # ST12CJ



SE 15TH STREET PLAN
STA 9+50 TO STA 12+75
SCALE: 1" = 20'

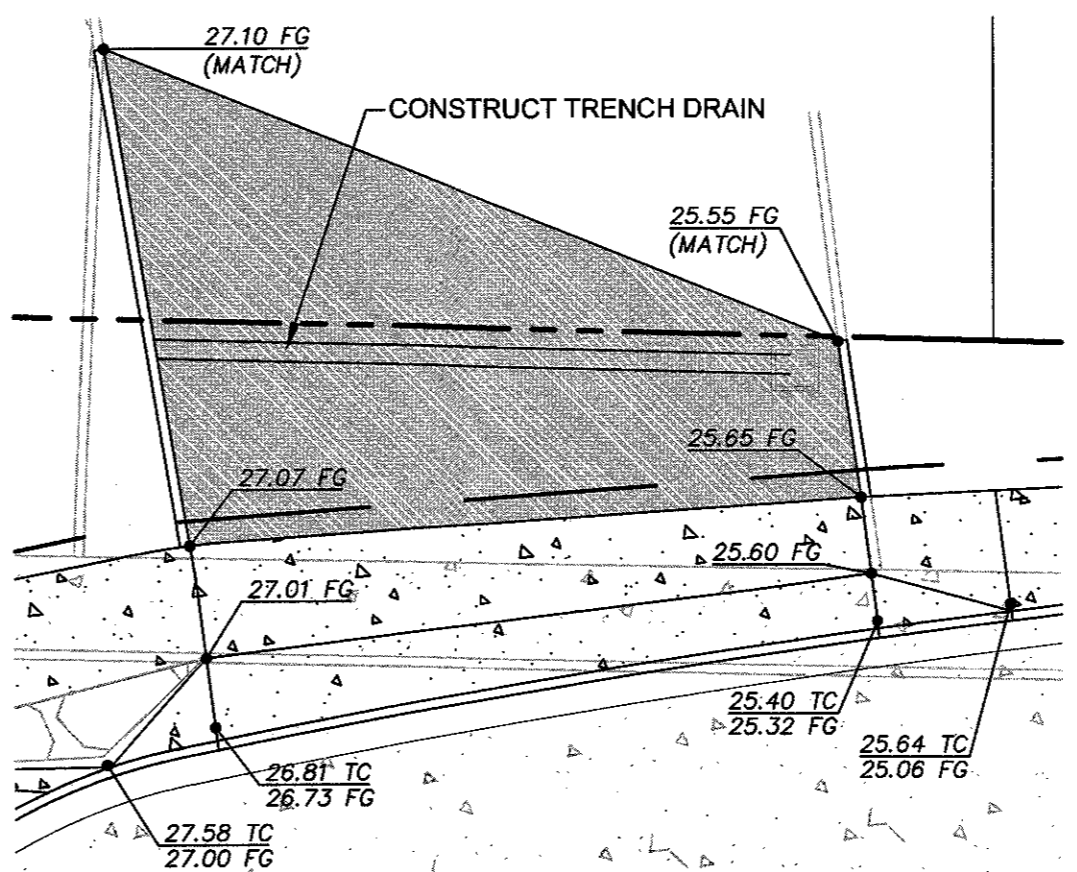
UTILITY CONSTRUCTION NOTES:

- ADJUST MANHOLE TO FINISHED GRADES
MINOR ADJUSTMENT OF MANHOLES - 1
(SEE DRG S-3B)
- RELOCATE EXISTING UTILITY STRUCTURE
(BY OTHERS)
- POWER UTILITY TRENCH TO BE CONSTRUCTED BY CEC
- POWER VAULT TO BE INSTALLED BY CEC. TOP OF VAULT = 3718.50
- SEE SHEETS IL-01 TO IL-05 FOR ILLUMINATION PLANS
- 3 INCH SCHD 40 PVC IRRIGATION SLEEVE - 20 FT

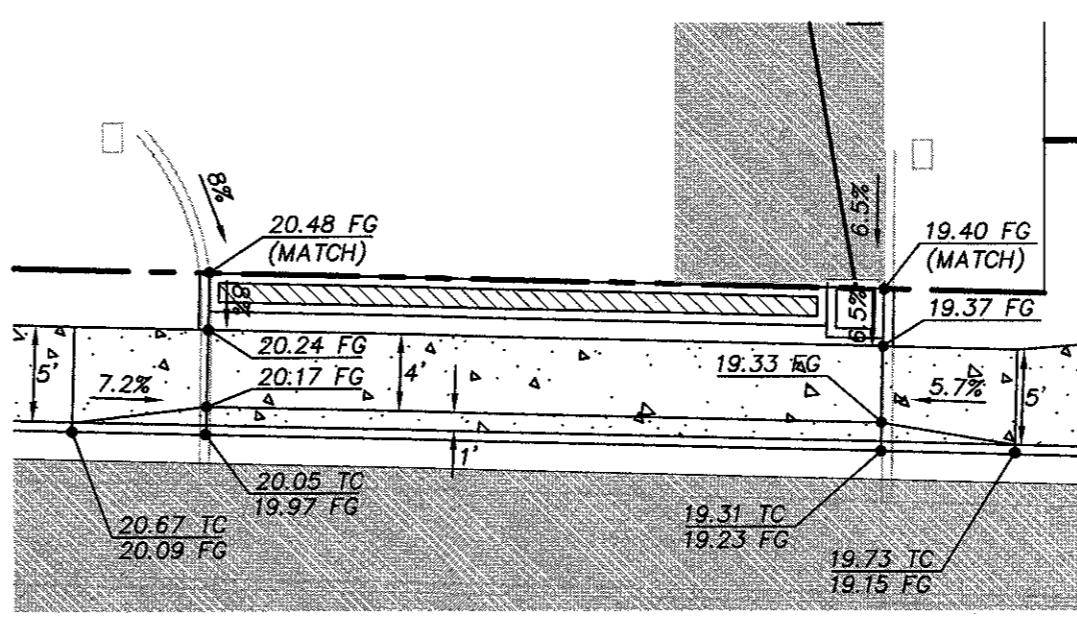


SE 15TH STREET PROFILE
STA 9+50 TO STA 12+75
SCALE: 1" = 20' HORIZ
1" = 5' VERT

MATCH LINE STA 12+75 SEE SHT P-21

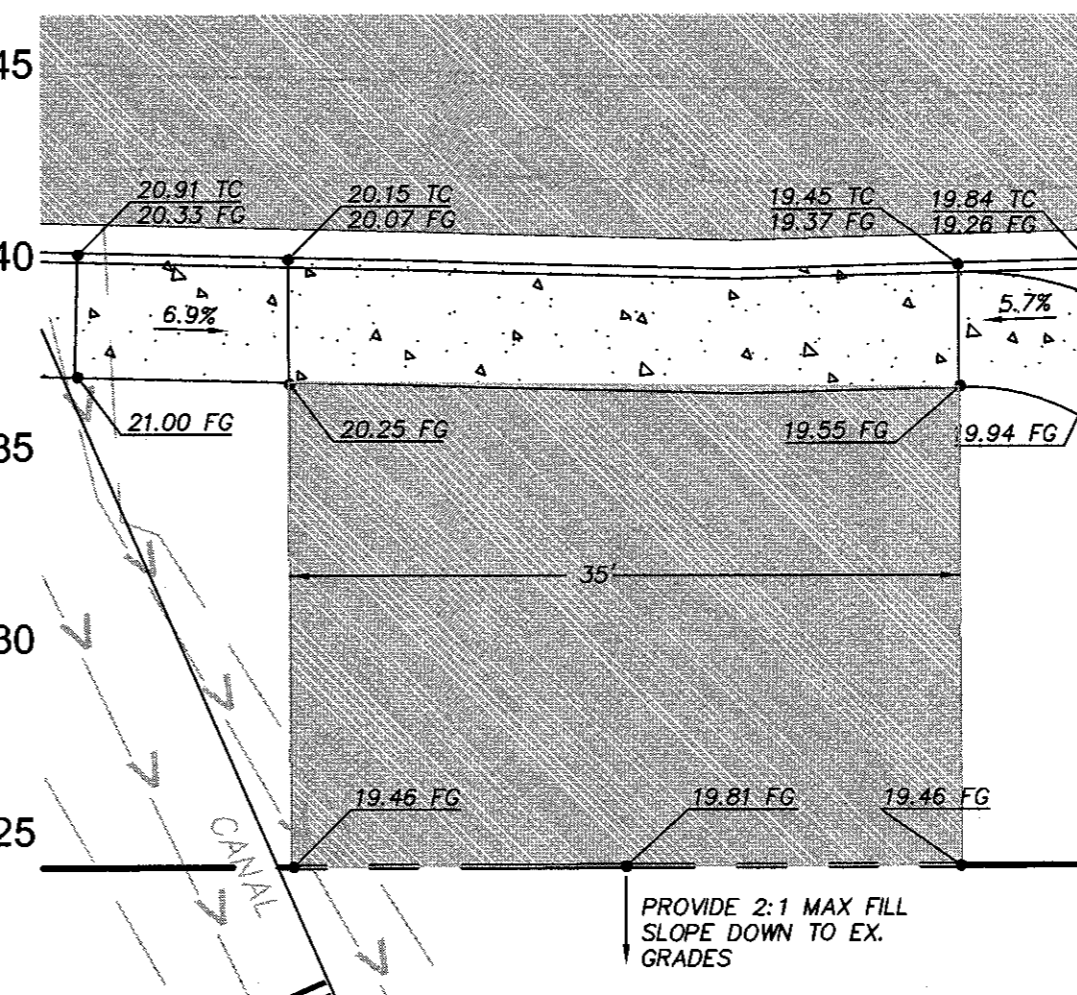


DRIVEWAY GRADING DETAIL
SCALE: 1" = 10'



DRIVEWAY GRADING DETAIL
SCALE: 1" = 10'

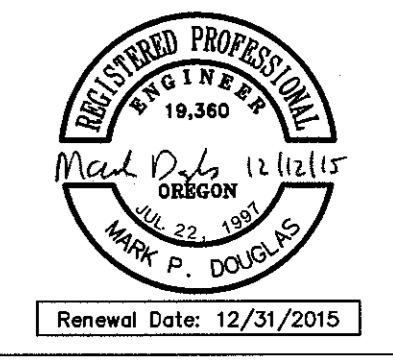
MATCH LINE STA 12+75 SEE SHT P-21



DRIVEWAY GRADING DETAIL
SCALE: 1" = 10'

CURB RETURN TABLE				
POINT	FC LOCATION	TP ELEV	DESC	RADIUS
①	STA 10+41.19, 33.15' LT	3726.66	PC	
②	STA 11+06.37, 36.60' LT	3723.88	1/2Δ	680 FT
③	STA 11+76.41, 38.26' LT	3721.30	PT	
④	STA 10+78.72, 24.74' RT	3725.26	PC	
⑤	STA 10+97.72, 22.96' LT	3724.51	1/2Δ	200 FT
⑥	STA 11+15.35, 22.07' LT	3723.80	PT	
⑦	STA 11+54.87, 21.17' LT	3722.34	PT	

- ### ROAD AND SIDEWALK CONSTRUCTION NOTES:
- CONSTRUCT PLAIN DOWELED CONCRETE AND AGGREGATE BASE PER TYPICAL SECTION. SEE SHEETS C-08 - C-14
 - CONSTRUCT ASPHALT PAVEMENT AND AGGREGATE BASE PER TYPICAL SECTION. SEE SHEET C-13
 - STA 11+16.68
CONSTRUCT ASPHALT TO PLAIN DOWELED CONCRETE TRANSITION FLEXIBLE TO RIGID PAVEMENT TRANSITION - 1
(SEE DETAIL 1/SD-07)
 - CONSTRUCT ACCESSIBLE MEDIAN OPENING
CONSTRUCT 6" THICK CONCRETE PAVEMENT - 136 SF
TRUNCATED DOME DETECTABLE WARNINGS - 40 SF
 - STA 9+59.74 - 10+24.97
CONSTRUCT HIGH STRENGTH LOW PROFILE MOUNTABLE CURB - 140 LF
(SEE DETAIL 3/SD-06)
 - STA 10+24.97 - 10+29.97
TAPER FROM HIGH STRENGTH LOW PROFILE MOUNTABLE CURB TO CURB AND GUTTER - 10 LF
(SEE DETAIL 7/SD-06)
 - STA 10+29.97 - 11+16.68
CONSTRUCT MEDIAN CONCRETE CURB AND GUTTER - 177 LF
(SEE DETAIL 2/SD-06)
 - STA 9+60.74 - 11+15.68
CONSTRUCT STAMPED COLORED CONCRETE MEDIAN - 486 SF
(SEE DETAIL 5/SD-06)
 - CONSTRUCT MEDIAN END
(SEE COB DRG R-25)
CONSTRUCT 6" THICK CONCRETE PAVEMENT - 39 SF
 - STA 10+16.24, 26.98' LT - 12+75, 35.51' LT ; 10+35.91, 21.91' RT - 12+75, 23.35' RT
CONSTRUCT CONCRETE CURB AND GUTTER - 502 LF
(SEE DETAIL 2/SD-06)
 - STA 10+16.08, 37.74' LT - 12+75, 39.01' LT ; STA 10+35.55, 39.89' RT - 12+75, 30.63' RT
CONSTRUCT CONCRETE WALKS - 2,503 SF
(SEE COB DRG R-4A, 5' MIN. WIDTH), SEE SHEET P-22
 - CONSTRUCT BICYCLE EXIT RAMP
CONCRETE WALKS - 101 SF (SEE DETAIL 3/SD-07)
 - CONSTRUCT BICYCLE ENTRANCE RAMP
CONCRETE WALKS - 57 SF (SEE DETAIL 4/SD-07)
 - STA 10+57.02, 32.58' LT, STA 12+47.37, 34.28' LT, AND STA 12+47.67, 23.75' RT
CONSTRUCT STANDARD CURB-TIGHT SIDEWALK DRIVEWAY - 905 SF
(SEE COB DRG R-6A WEST, DRG R-5B EAST)
REFER TO GRADING DETAIL, THIS SHEET
 - CONSTRUCT ASPHALT DRIVEWAY (SEE DETAIL 4/SD-08)
 - CONSTRUCT 12" CONCRETE CURB - 49 LF
(SEE COB DRG R-3)
 - CONSTRUCT IRRIGATION PIPING IMPROVEMENTS.
REFER TO SHEET P-22
 - TRANSITION FROM 5' WALK TO 6' WALK
 - TRANSITION FROM 6' WALK TO 5' WALK
- ### STORM SEWER CONSTRUCTION NOTES:
- STA 9+66.96, 3.06' RT
CONSTRUCT STORM SEWER MANHOLE - 1
(SEE COB DRG S-3B, STRM-8)
 - STA 9+79.20, 27.34' LT
CONSTRUCT CONCRETE INLET TYPE CG-3 W/18" SUMP - 1
(SEE DRG RD371, RD372, AND STRM-8)
 - STA 9+66.96, 3.06' RT - 9+79.20, 27.34' LT
INSTALL 8" STORM SEWER PIPE, 5-10 FT DEPTH - C900 PVC - 33 LF
(SEE COB DRG S-1, 4/P-25)
 - STA 9+79.47, 24.20' RT
CONSTRUCT CONCRETE INLET TYPE CG-3 W/18" SUMP - 1
(SEE DRG RD371, RD372, AND STRM-8)
 - STA 9+66.96, 3.06' RT - 9+79.47, 24.20' RT
INSTALL 8" STORM SEWER PIPE, 0-5 FT DEPTH - C900 PVC - 25 LF
(SEE COB DRG S-1, 4/P-25)
 - EXISTING CATCH BASIN TO REMAIN
ADJUST TO FINISHED GRADES
ADJUSTING INLETS - 1
 - INSTALL 10" x 10" TRENCH DRAIN W/ INLET - 33 LF
(SEE DETAIL 4/SD-10)
INSTALL 8" STORM SEWER PIPE AT 1.5% MIN. SLOPE, 2' MIN. COVER, 0-5 FT DEPTH - C900 PVC - 20 LF
CONSTRUCT SEDIMENTATION MANHOLE - 1
(SEE DRG STRM-7)
CONSTRUCT 100 CY DRYWELL - 1
(SEE DRG R-12)
COORDINATE EXACT LOCATION OF FACILITIES WITH CITY PRIOR TO CONSTRUCTION. SAWCUT AND REMOVE AC AS NEEDED. PATCH BACK PER DRIVEWAY DETAIL 4/SD-08
- FC = FACE OF CURB PRC = POINT OF REVERSE CURVATURE
TP = TOP OF PAVEMENT 1/2 Δ = MID POINT
PC = POINT OF CURVATURE PT = POINT OF TANGENCY



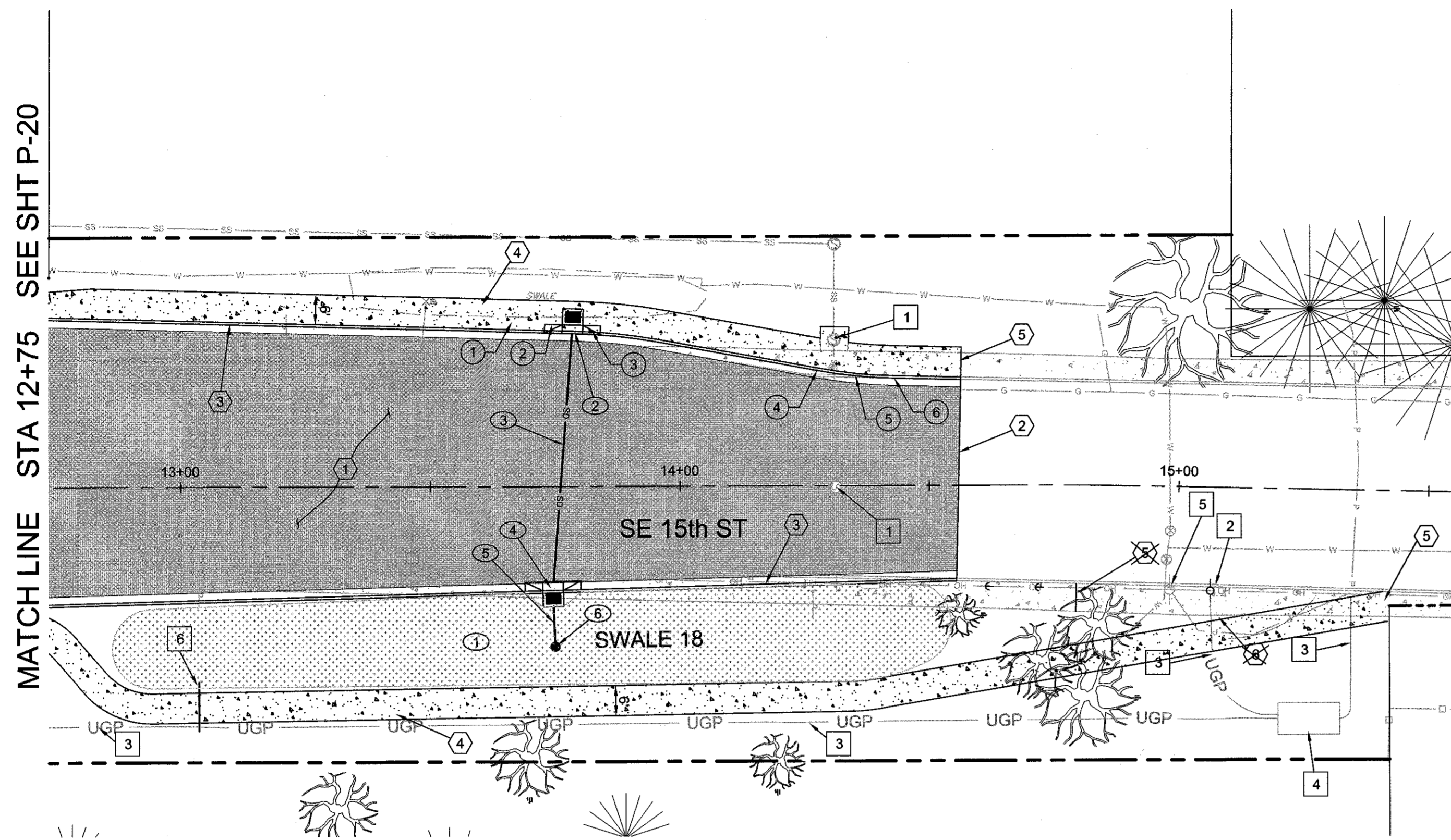
REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
15TH ST. PLAN & PROFILE, STA 9+50 TO 12+75
CITY OF BEND, OREGON



DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

HWA
SURVEYORS, ENGINEERS
& PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC.
6280 O.E. BUEY ROAD, SUITE 100
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PHONE: 541-389-9351 FAX: 541-388-5416

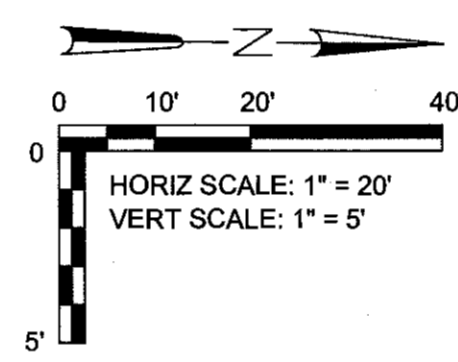
VERIFY SCALES
0 1"
BAR EQUALS ONE INCH
ON ORIGINAL DRAWING
SHEET:
P-20
COB # ST12CJ



SE 15th STREET PLAN
STA 12+75 TO STA 15+50
SCALE: 1" = 20'

POINT	FC LOCATION	TP ELEV	DESC	RADIUS
①	STA 13+66.45, 32.96' LT	3718.35	PC	
②	STA 13+74.49, 32.44' LT	3718.36	1/2Δ	106 FT
③	STA 13+82.46, 31.30' LT	3718.39	PT	
④	STA 14+27.58, 23.09' LT	3718.77	PC	
⑤	STA 14+35.30, 22.00' LT	3718.86	1/2Δ	100 FT
⑥	STA 14+43.09, 21.51' LT	3718.91	PT	
⑦	STA 12+53.58, 23.92' LT	3719.66	PT	

FC = FACE OF CURB
TP = TOP OF PAVEMENT
PC = POINT OF CURVATURE
PRC = POINT OF REVERSE CURVATURE
1/2 Δ = MID POINT
PT = POINT OF TANGENCY



ROAD AND SIDEWALK CONSTRUCTION NOTES:

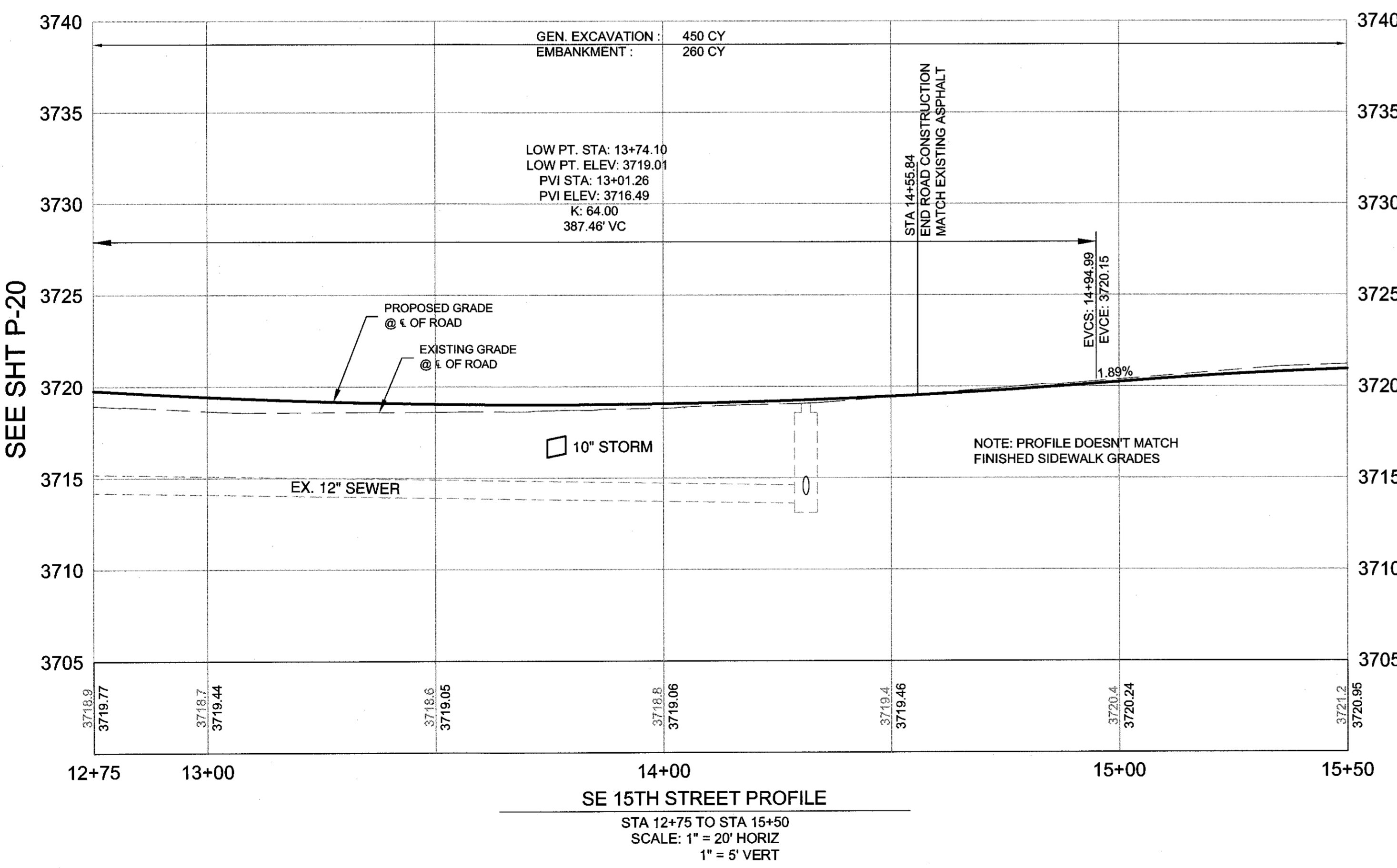
- ① CONSTRUCT ASPHALT PAVEMENT AND AGGREGATE BASE PER TYPICAL SECTION. SEE SHEET C-13
- ② STA 14+56± MATCH EXISTING PAVEMENT GRADES. CONSTRUCT ASPHALT CONCRETE TRANSITION TO EXISTING PAVEMENT. (SEE DETAIL 4/SD-06)
- ③ STA 12+75, 35.51' LT - 14+56.34, 21.19' LT ; 12+75, 23.35' RT - 14+55.41, 18.56' RT. CONSTRUCT CONCRETE CURB AND GUTTER - 363 LF (SEE DETAIL 2/SD-06)
- ④ STA 12+75, 39.01' LT - 14+56.42, 24.69' LT ; STA 12+75, 30.63' RT - 14+79.48, 22.43' RT. CONSTRUCT CONCRETE SIDEWALK - 2,384 SF (SEE COB DRG R4-A, 6' WIDTH). SEE SHEET P-22
- ⑤ MATCH EXISTING SIDEWALK
- ⑥ ~~WIDEN EXISTING SIDEWALK TO PROVIDE 5 FT MIN CLEAR WIDTH FROM NEW UTILITY POLE~~
~~CONSTRUCT CONCRETE SIDEWALK - 12 SF~~
~~(SEE COB DRG R-4A)~~

STORM SEWER CONSTRUCTION NOTES:

- ① CONSTRUCT SWALE 18. (SEE COB DRG STRM-2, STRM-3)
- ② STA 13+78.59, 31.93' LT. CONSTRUCT CONCRETE INLET TYPE CG-3 W/18" SUMP - 1 (SEE DRG RD371, RD372, AND STRM-8)
- ③ STA 13+78.59, 31.93' RT - 13+74.55, 20.71' RT. INSTALL 10" STORM SEWER PIPE, 0-5 FT DEPTH - D.I. - 53 LF (SEE COB DRG S-1, S/P-25)
- ④ STA 13+74.55, 20.71' RT. CONSTRUCT CONCRETE INLET TYPE CG-3 W/18" SUMP - 1 (SEE DRG RD371, RD372, AND STRM-8)
- ⑤ STA 13+74.55, 20.71' RT - 13+74.98, 31.94' RT. INSTALL 12" STORM SEWER PIPE, 0-5 FT DEPTH - C900 PVC - 12 LF (SEE COB DRG S-1, S/P-25)
- ⑥ STA 13+74.98, 31.94' RT. CONSTRUCT SWALE OVERFLOW STRUCTURE (SEE DETAIL 3/SD-05)

UTILITY CONSTRUCTION NOTES:

- ① ADJUST MANHOLE TO FINISHED GRADES. MINOR ADJUSTMENT OF MANHOLES - 2 (SEE DRG S-3B)
- ② NEW UTILITY POLE, GUY WIRES, AND ANCHORS TO BE INSTALLED BY CEC
- ③ POWER UTILITY TRENCH TO BE CONSTRUCTED BY CEC
- ④ POWER VAULT TO BE INSTALLED BY CEC
- ⑤ UTILITY POLE TO BE REMOVED BY CEC
- ⑥ 3 INCH SCHD 40 PVC IRRIGATION SLEEVE - 10 FT



SE 15th STREET PROFILE
STA 12+75 TO STA 15+50
SCALE: 1" = 20' HORIZ
1" = 5' VERT

RECORD DRAWING CERTIFICATION

I CERTIFY THAT THIS PROJECT HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE CITY APPROVED PLANS AND THE CITY OF BEND PUBLIC IMPROVEMENT CONSTRUCTION PROCEDURE STANDARD AND SPECIFICATIONS, DATED JULY 1, 2011. THIS CERTIFICATION IS BASED ON PERIODIC INSPECTIONS PERFORMED BY ME OR BY REPRESENTATIVES UNDER MY DIRECT SUPERVISION AND INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND OTHER INDEPENDENT TESTING AND INSPECTION AGENCIES. THE INFORMATION PROVIDED BY OTHERS HAS BEEN ASSUMED TO BE CORRECT AND HAS NOT BEEN VERIFIED BY THE ENGINEER. THIS CERTIFICATION INDICATES THAT I HAVE REVIEWED THIS INFORMATION AND VERIFIED THAT ANY REVISION(S) OR CHANGES AS DEFINED BY THE RECORD DO NOT APPEAR TO BE ADVERSE TO THE PLANNED USE AND/OR INTENT OF THE ORIGINAL DESIGN.

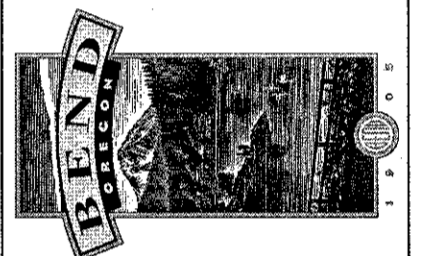
Signature: *Mark P. Douglas*
Date: 12/15/14



Renewal Date: 12/31/2015



REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
15TH ST. PLAN & PROFILE, STA 12+75 TO 15+50
CITY OF BEND, OREGON



REVISIONS:

1. MPD 12/09/2015 RECORD DRAWING	2.	3.
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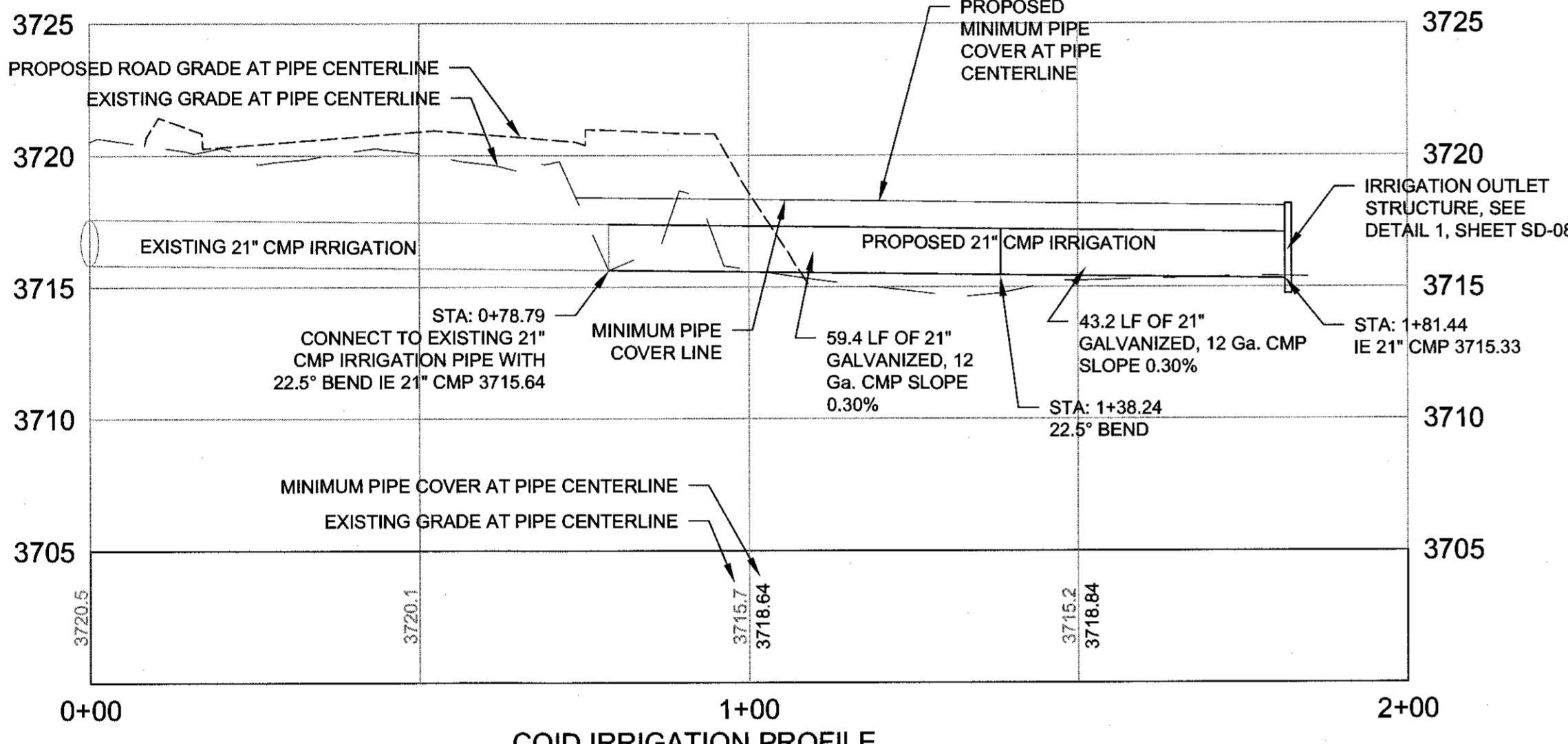
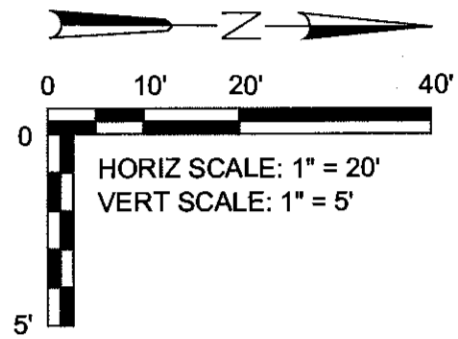
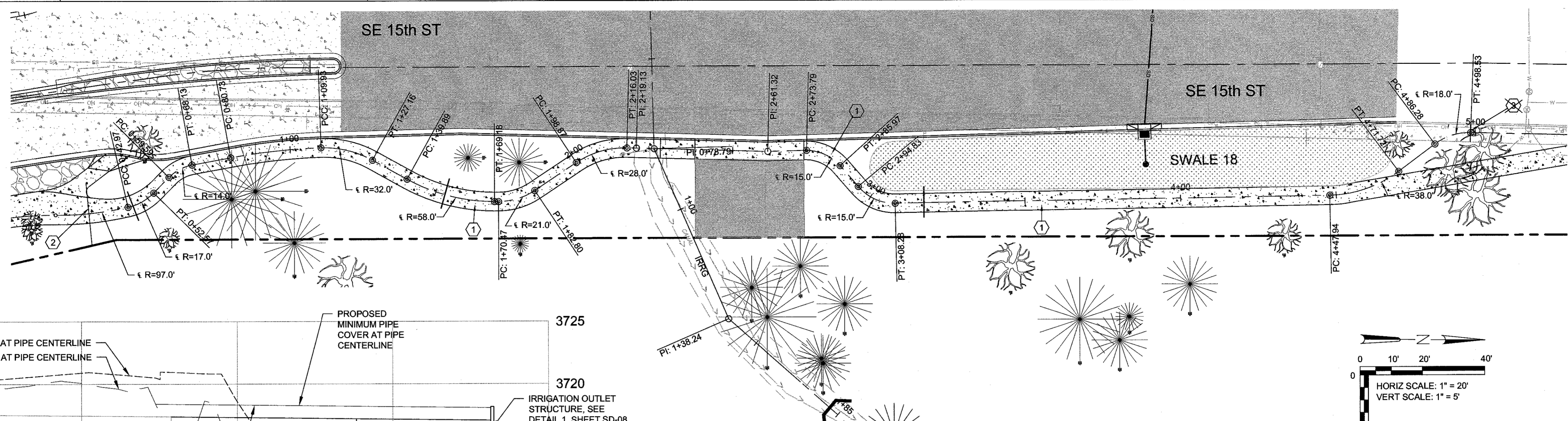
HWA SURVEYORS, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC.
6230 O.E. BILLY ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541.389.9351 FAX: 541.386.5416

DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

VERIFY SCALES
0 1" BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET: **P-21**

COB # ST12CJ



SE 15TH STREET SIDEWALK PLAN
 STA 0+30.25 TO STA 4+98.47 =
 15TH ST. STA 10+29.42 40.27 RT TO STA 14+79.55 22.2 RT
 SCALE: 1" = 20'

RECORD DRAWING CERTIFICATION

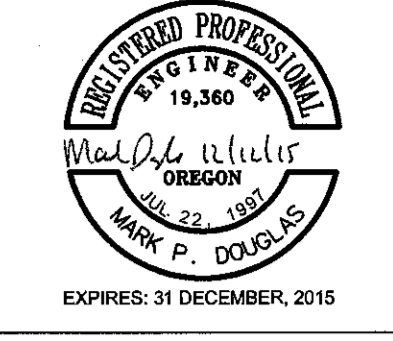
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Mark P. Douglas
 Signature
 Date



SIDEWALK CONSTRUCTION NOTES:

- ① STA 12+75, 30.63' RT - 14+79.48, 22.43' RT
 CONSTRUCT CONCRETE SIDEWALK - SEE SHEETS P-20, P-21 FOR QTY'S
 (SEE COB DRG R4-A, 6' WIDTH)
- ② STA 0+30.25 = 15TH ST. STA 10+29.42 40.27 RT
 MATCH POINT SEE SHEET P-20 FOR CONTINUATION
- ③ MATCH EXISTING SIDEWALK



REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
15TH ST. EAST SIDEWALK PLAN & PROFILE
 CITY OF BEND, OREGON



REVISIONS:	DATE	DESCRIPTION
1	12/09/2015	RECORD DRAWING
2		
3		

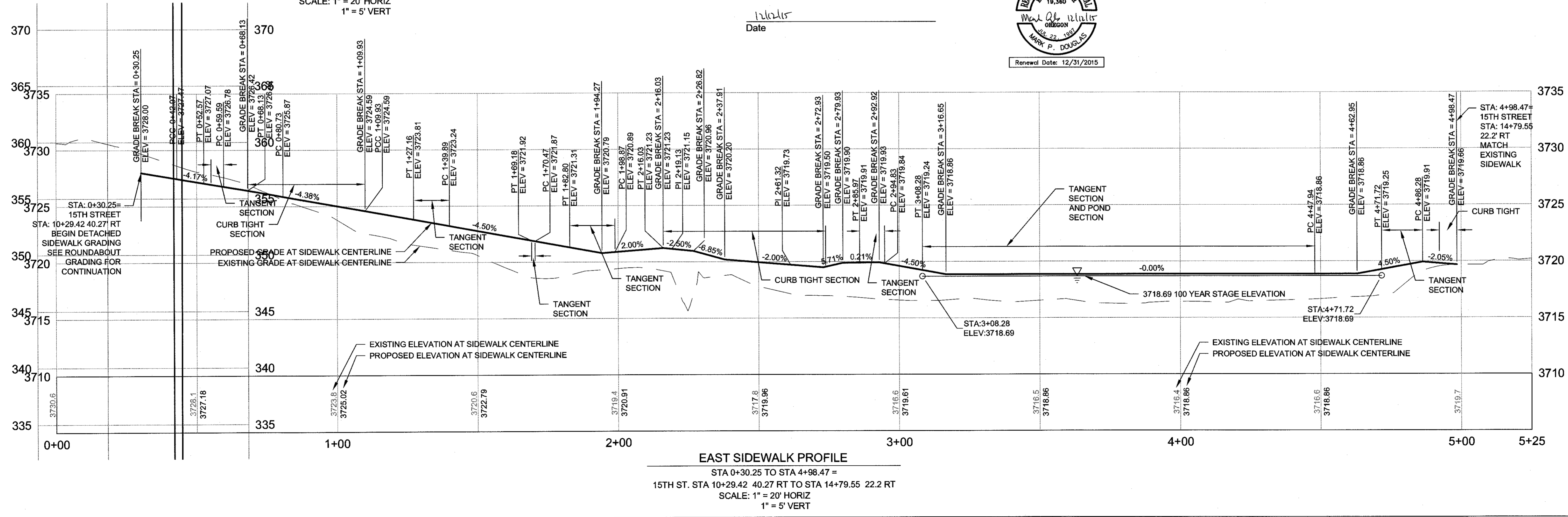
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DESIGNED BY: MD
 DRAWN BY: MD
 SCALE: AS SHOWN
 FILE: REED 15TH BASE
 DATE: 04/21/2014

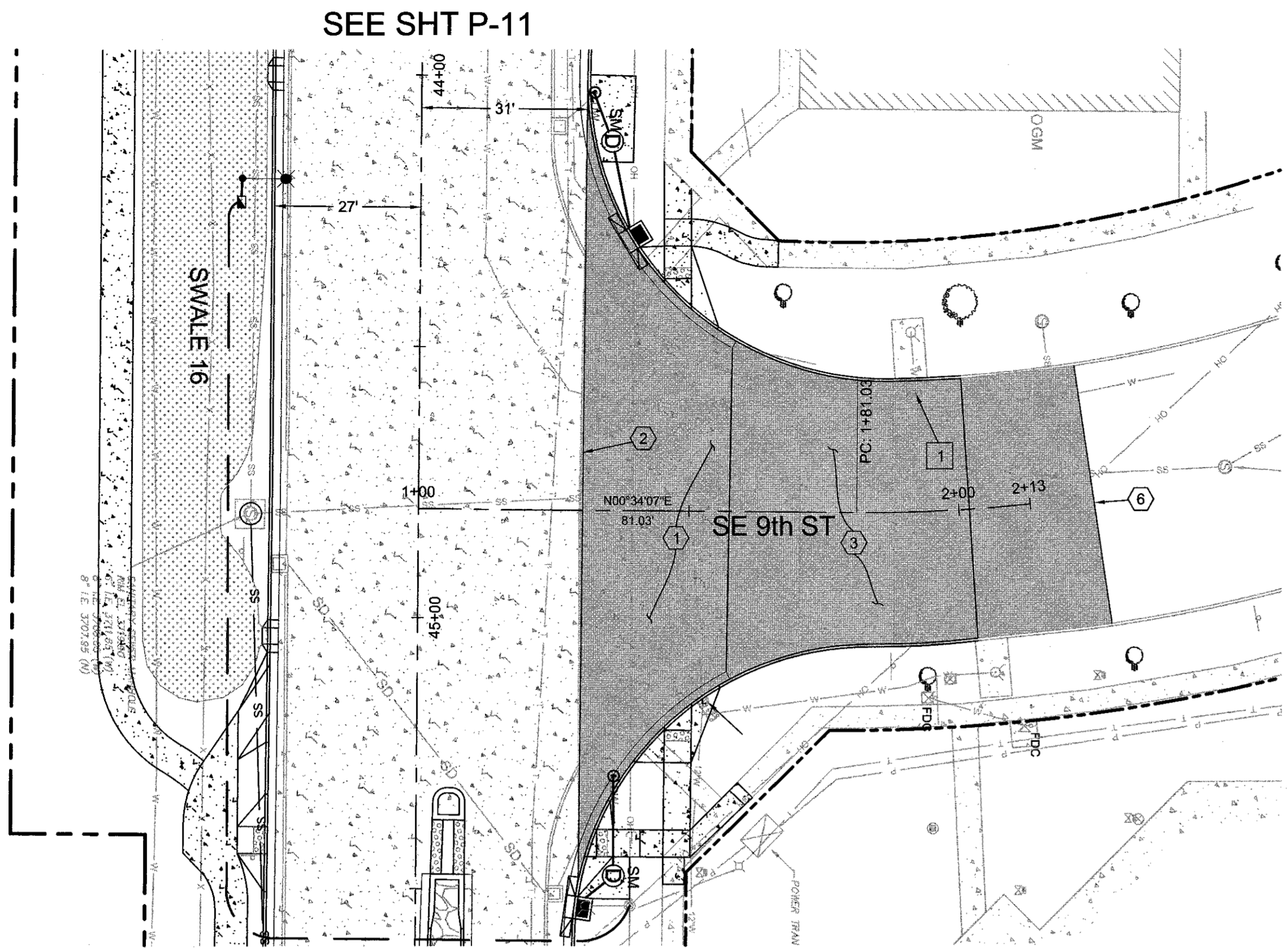
VERIFY SCALES
 0 1" = 1"
 BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET: **P-22**

COB # ST12CJ



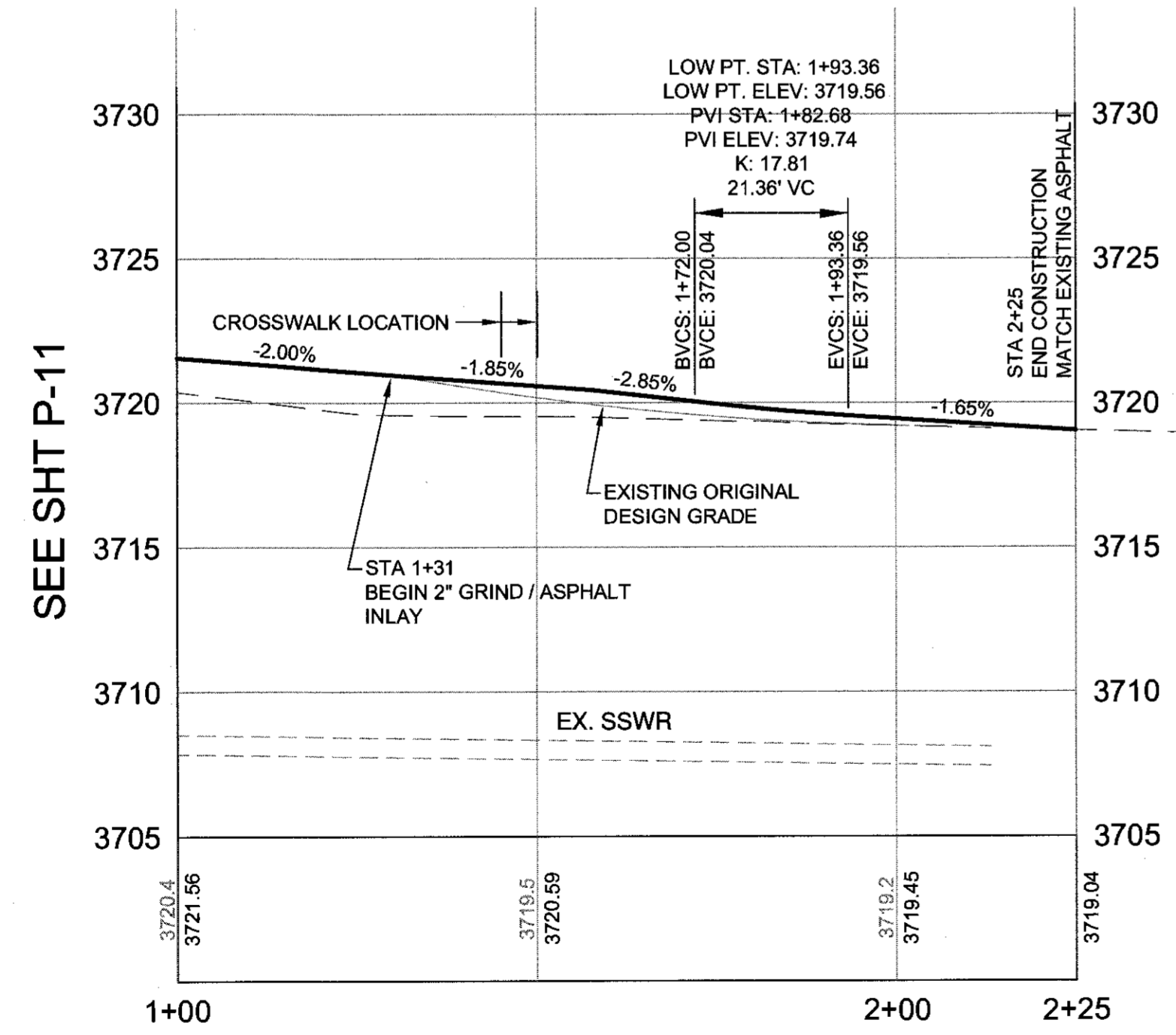
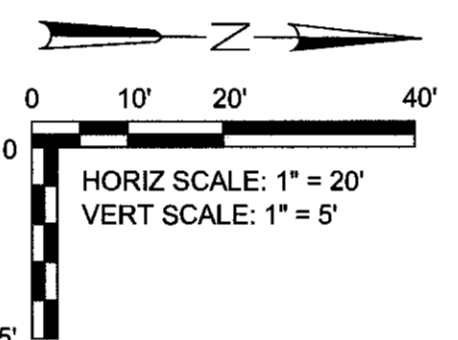
EAST SIDEWALK PROFILE
 STA 0+30.25 TO STA 4+98.47 =
 15TH ST. STA 10+29.42 40.27 RT TO STA 14+79.55 22.2 RT
 SCALE: 1" = 20' HORIZ
 1" = 5' VERT



SEE SHT P-11

SEE SHT P-12

SE 9TH STREET PLAN
SCALE: 1" = 20'



SE 9TH STREET PROFILE
SCALE: 1" = 20' HORIZ
1" = 5' VERT

ROAD AND SIDEWALK CONSTRUCTION NOTES:

- ① CONSTRUCT 2" MIN. HMAC OVERLAY. GRIND EX. CONCRETE AS NECESSARY.
- ② STA 1+31
CONSTRUCT 2" MIN. HMAC OVERLAY. GRIND EX. CONCRETE AS NECESSARY.
- ③ CONSTRUCT 2" MIN. HMAC OVERLAY. GRIND EX. HMAC AS NECESSARY.
- ④ NOT USED
- ⑤ NOT USED
- ⑥ STA 2+25
MATCH EXISTING PAVEMENT GRADES
CONSTRUCT 2" MIN. HMAC OVERLAY. GRIND EX. HMAC AS NECESSARY.

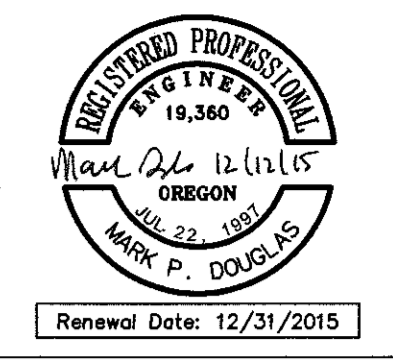
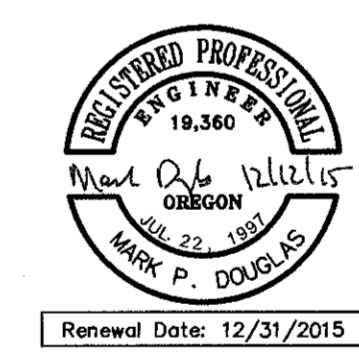
UTILITY CONSTRUCTION NOTES:

- ① ADJUST WATER VALVE BOX TO FINISHED GRADES
ADJUSTING BOXES - 1

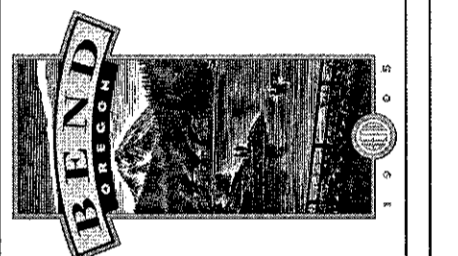
RECORD DRAWING CERTIFICATION

I CERTIFY THAT THIS PROJECT HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE CITY APPROVED PLANS AND THE CITY OF BEND PUBLIC IMPROVEMENT CONSTRUCTION PROCEDURE STANDARD AND SPECIFICATIONS, DATED JULY 1, 2011. THIS CERTIFICATION IS BASED ON PERIODIC INSPECTIONS PERFORMED BY ME OR BY REPRESENTATIVES UNDER MY DIRECT SUPERVISION AND INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND OTHER INDEPENDENT TESTING AND INSPECTION AGENCIES. THE INFORMATION PROVIDED BY OTHERS HAS BEEN ASSUMED TO BE CORRECT AND HAS NOT BE VERIFIED BY THE ENGINEER. THIS CERTIFICATION INDICATES THAT I HAVE REVIEWED THIS INFORMATION AND VERIFIED THAT ANY REVISION(S) OR CHANGES AS DEFINED BY THE RECORD DO NOT APPEAR TO BE ADVERSE TO THE PLANNED USE AND/OR INTENT OF THE ORIGINAL DESIGN.

Signature: Mark P. Douglas
Date: 12/21/15



REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
9TH STREET PLAN & PROFILE
CITY OF BEND, OREGON



REVISIONS:

1.	MPD 12/09/2015	RECORD DRAWING
2.		
3.		

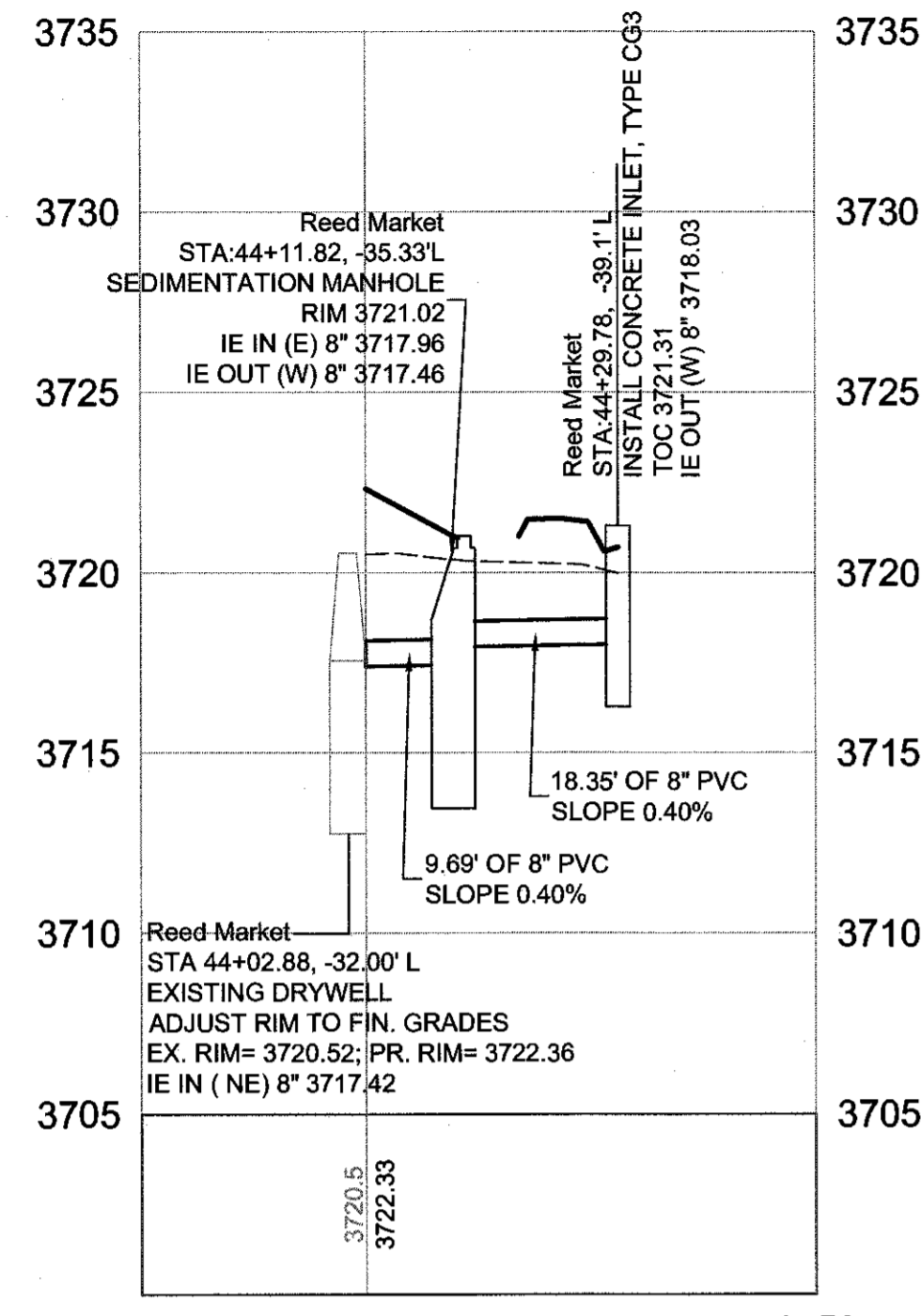
HWA SURVEYORS, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC.
4230 O.A. RILEY ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541.389.9321 FAX: 541.388.5416

DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

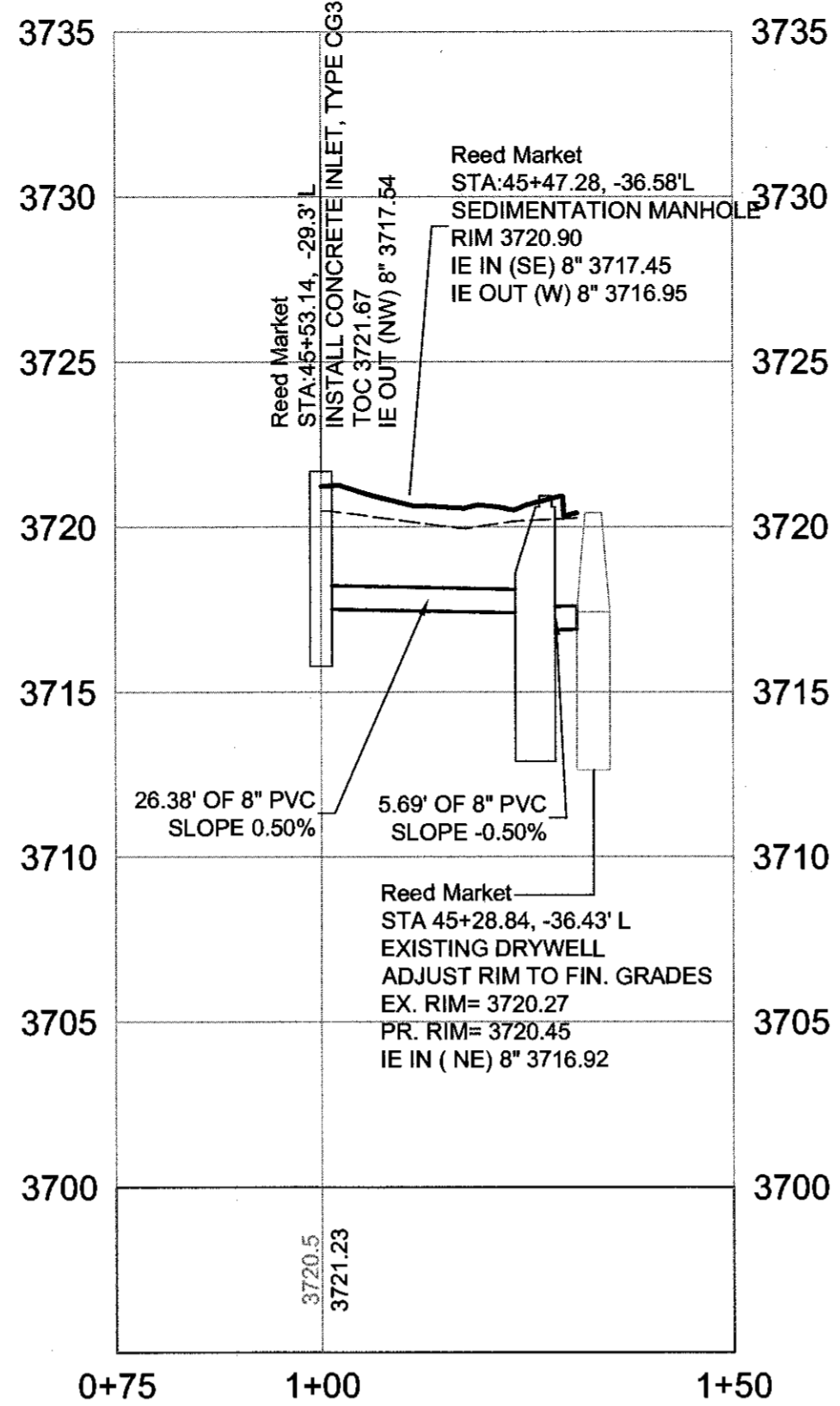
VERIFY SCALES
0 1"
BAR EQUALS ONE INCH
ON ORIGINAL DRAWING

SHEET:
P-23

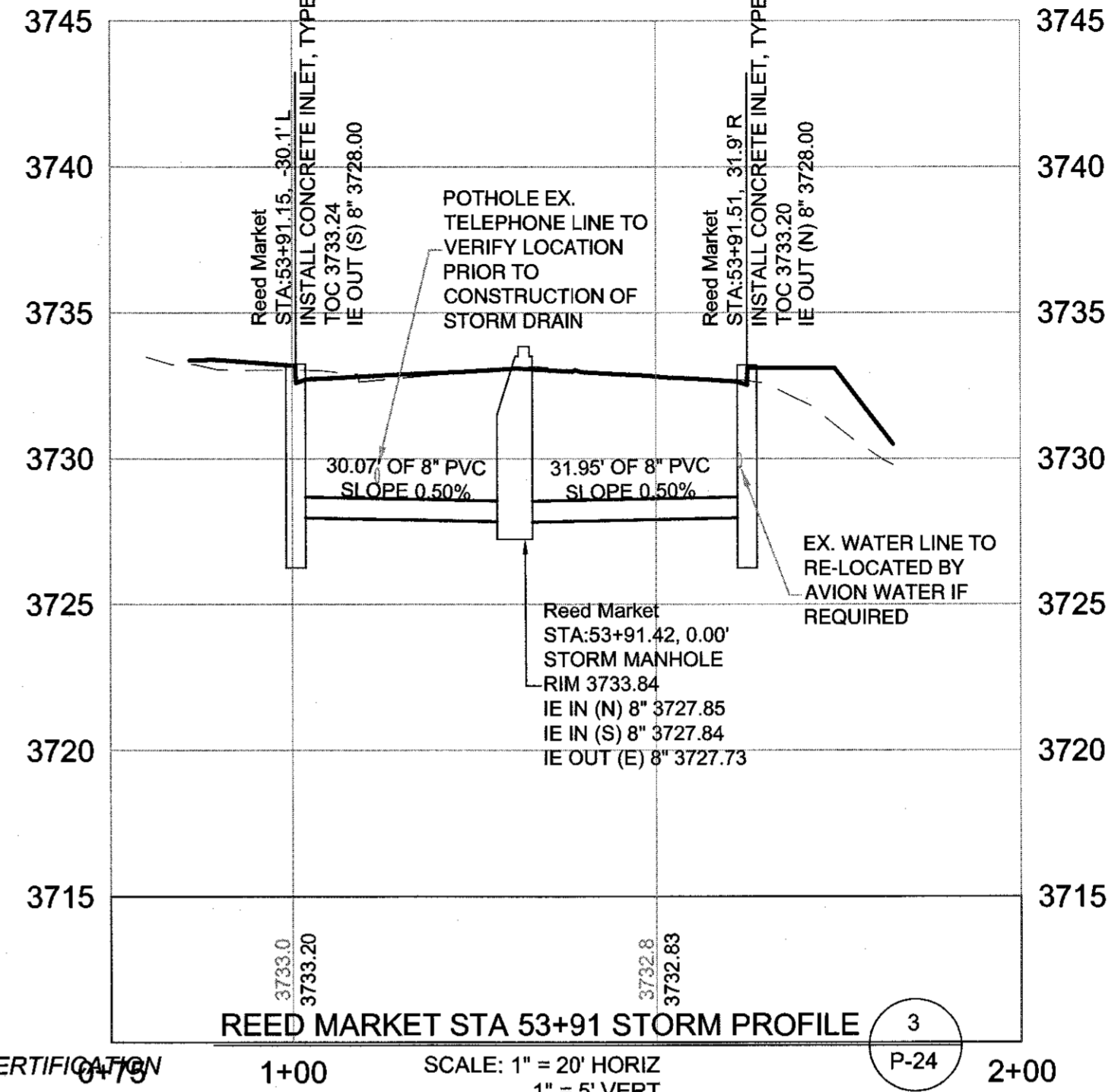
COB # ST12CJ



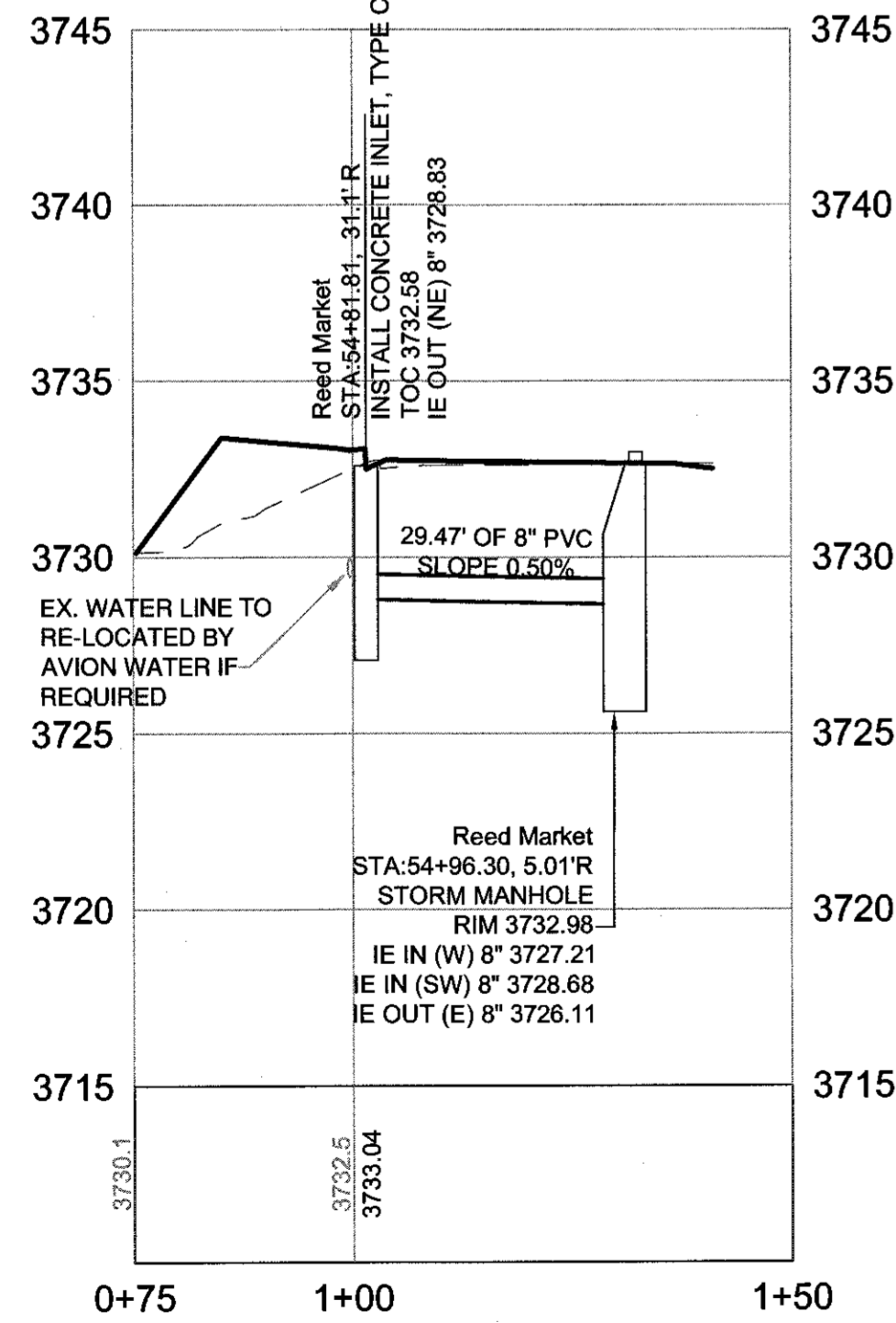
REED MARKET STA 44+02 STORM PROFILE 1
SCALE: 1" = 20' HORIZ
1" = 5' VERT P-24



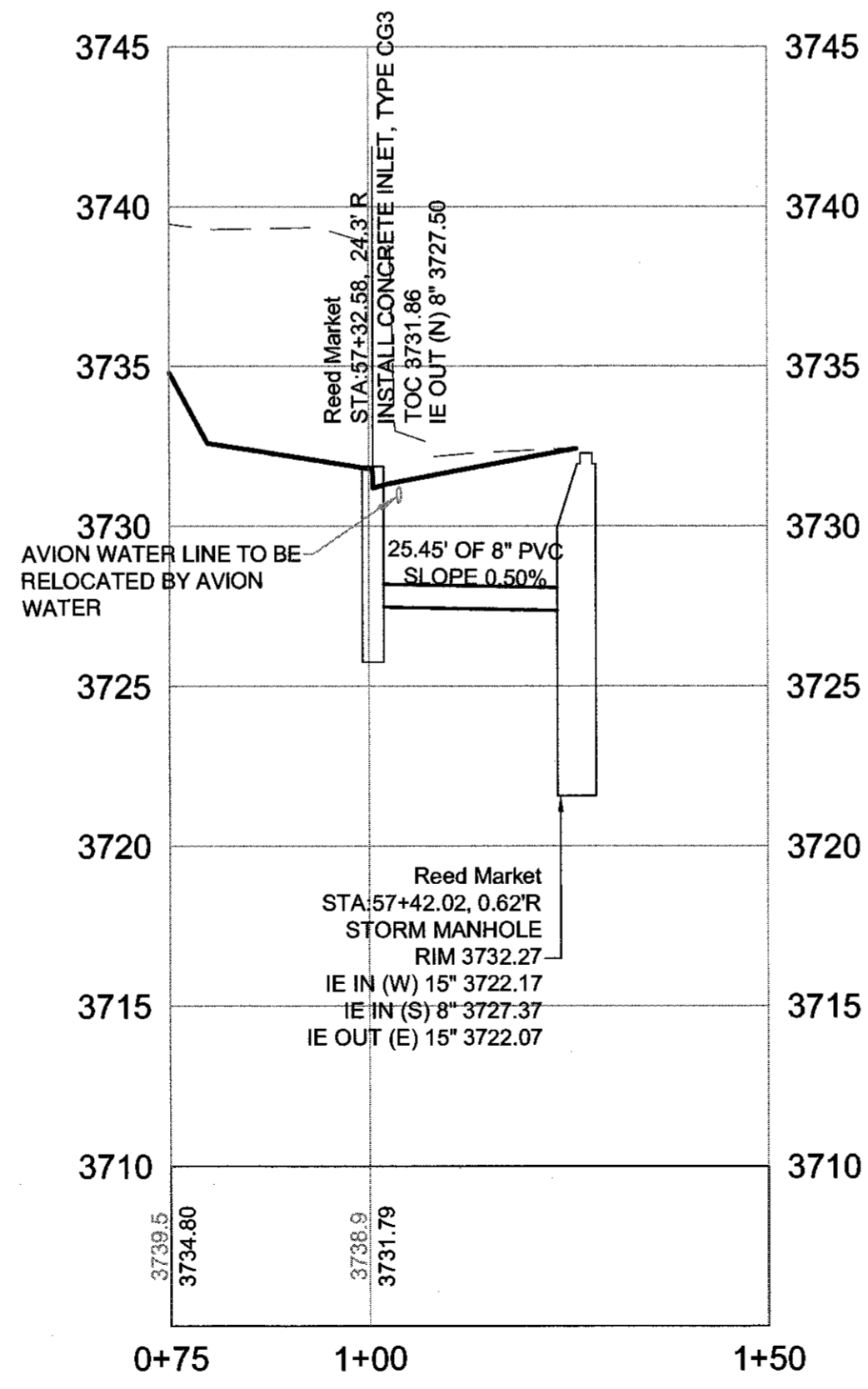
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SCALE: 1" = 20' HORIZ
1" = 5' VERT P-24



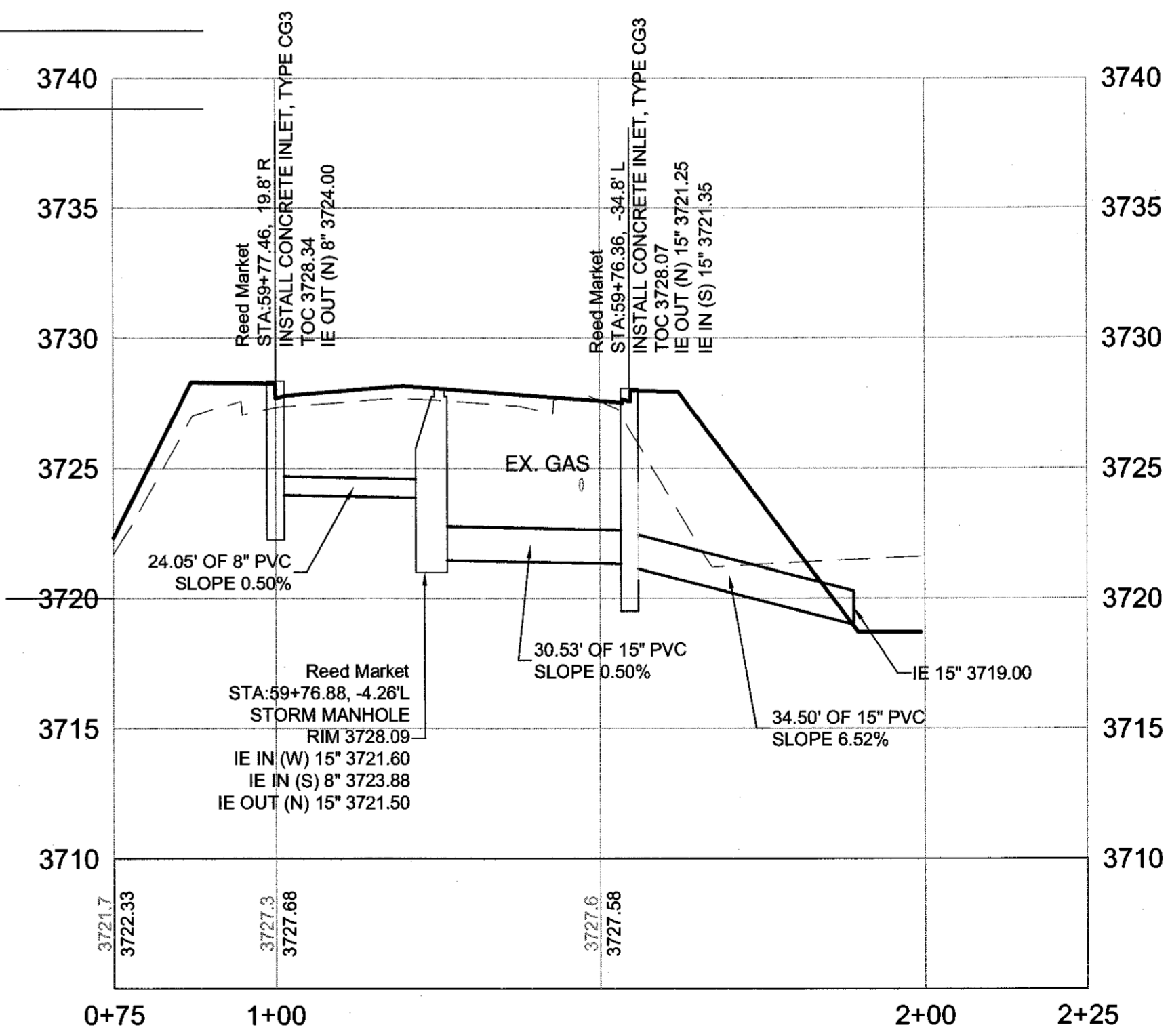
REED MARKET STA 53+91 STORM PROFILE 3
SCALE: 1" = 20' HORIZ
1" = 5' VERT P-24



REED MARKET STA 54+81 STORM PROFILE 4
SCALE: 1" = 20' HORIZ
1" = 5' VERT P-24



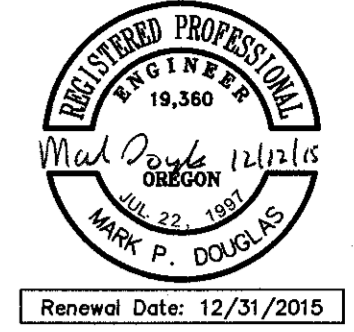
REED MARKET STA 57+32 STORM PROFILE 5
SCALE: 1" = 20' HORIZ
1" = 5' VERT P-24



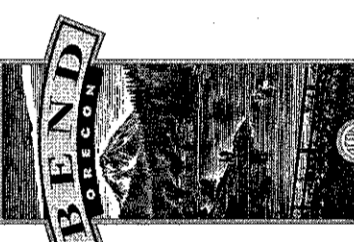
REED MARKET STA 59+77 STORM PROFILE 6
SCALE: 1" = 20' HORIZ
1" = 5' VERT P-24

RECORD DRAWING CERTIFICATION
I CERTIFY THAT THIS PROJECT HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE CITY APPROVED PLANS AND THE CITY OF BEND PUBLIC IMPROVEMENT CONSTRUCTION PROCEDURE STANDARD AND SPECIFICATIONS, DATED JULY 1, 2011. THIS CERTIFICATION IS BASED ON PERIODIC INSPECTIONS PERFORMED BY ME OR BY REPRESENTATIVES UNDER MY DIRECT SUPERVISION AND INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND OTHER INDEPENDENT TESTING AND INSPECTION AGENCIES. THE INFORMATION PROVIDED BY OTHERS HAS BEEN ASSUMED TO BE CORRECT AND HAS NOT BEEN VERIFIED BY THE ENGINEER. THIS CERTIFICATION INDICATES THAT I HAVE REVIEWED THIS INFORMATION AND VERIFIED THAT ANY REVISION(S) OR CHANGES AS DEFINED BY THE RECORD DO NOT APPEAR TO BE ADVERSE TO THE PLANNED USE AND/OR INTENT OF THE ORIGINAL DESIGN.

Signature: *Mark P. Douglas*
Date: 12/21/15
Professional Engineer Seal: Mark P. Douglas, No. 19,360, Oregon, Renewal Date: 12/31/2015



REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
STORM DRAIN PROFILES
CITY OF BEND, OREGON



REVISIONS:

1.	MPD 12/09/2015	RECORD DRAWING
2.		
3.		

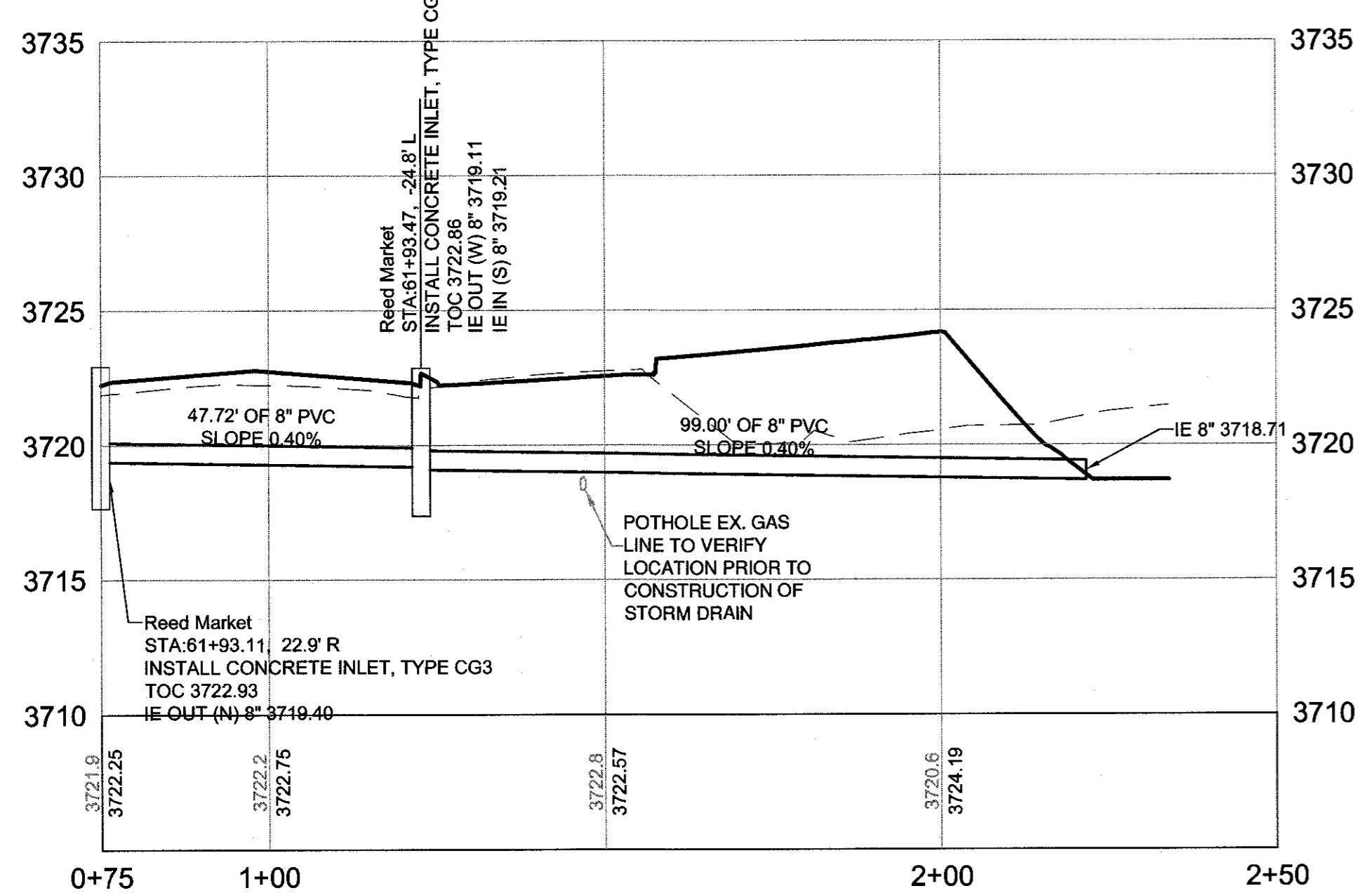
HWA SURVEYORS, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC.
42930 O.B. NILEY ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541.389.7351 FAX: 541.388.5416

DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

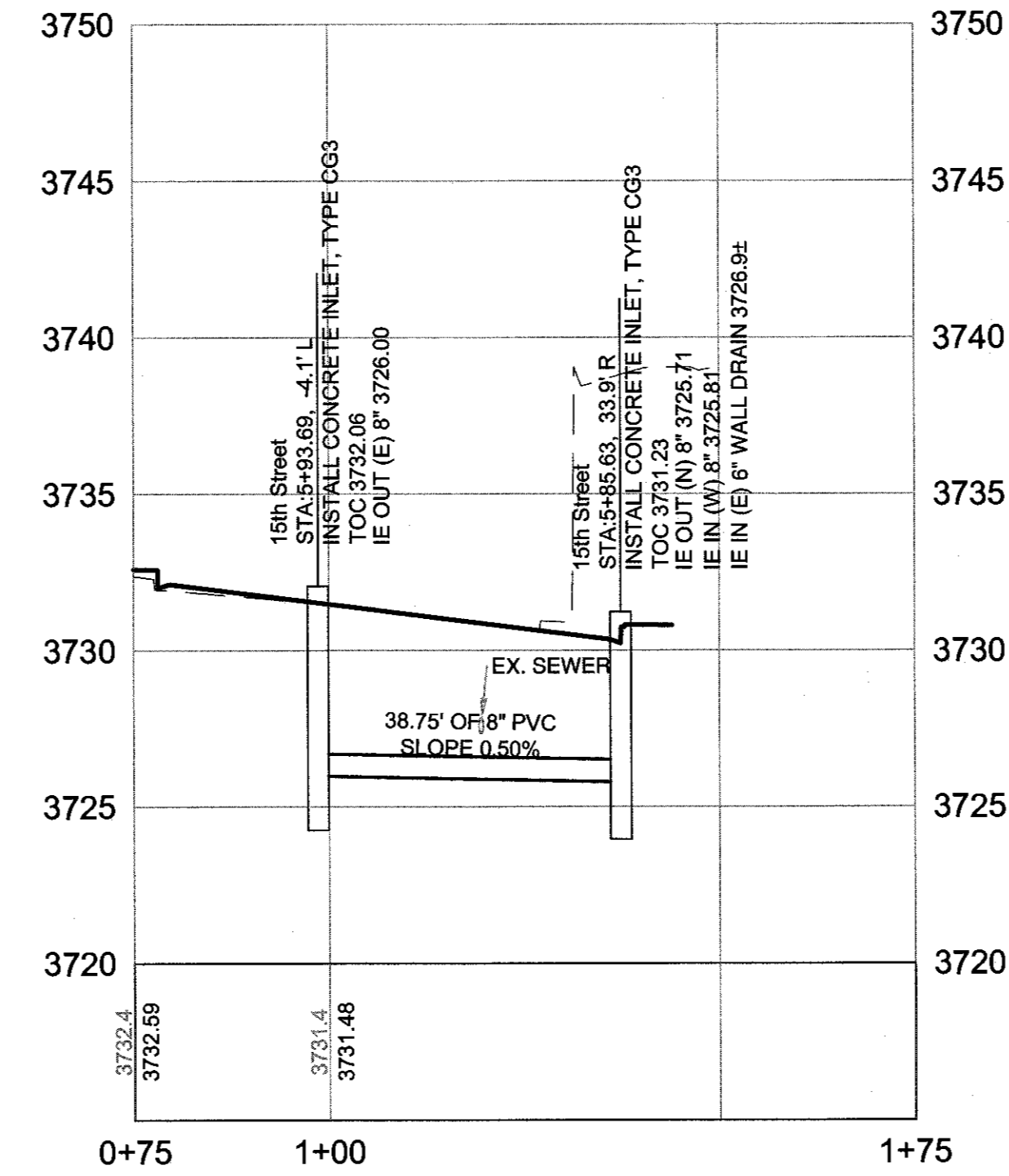
VERIFY SCALES
0 1" BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET: **P-24**

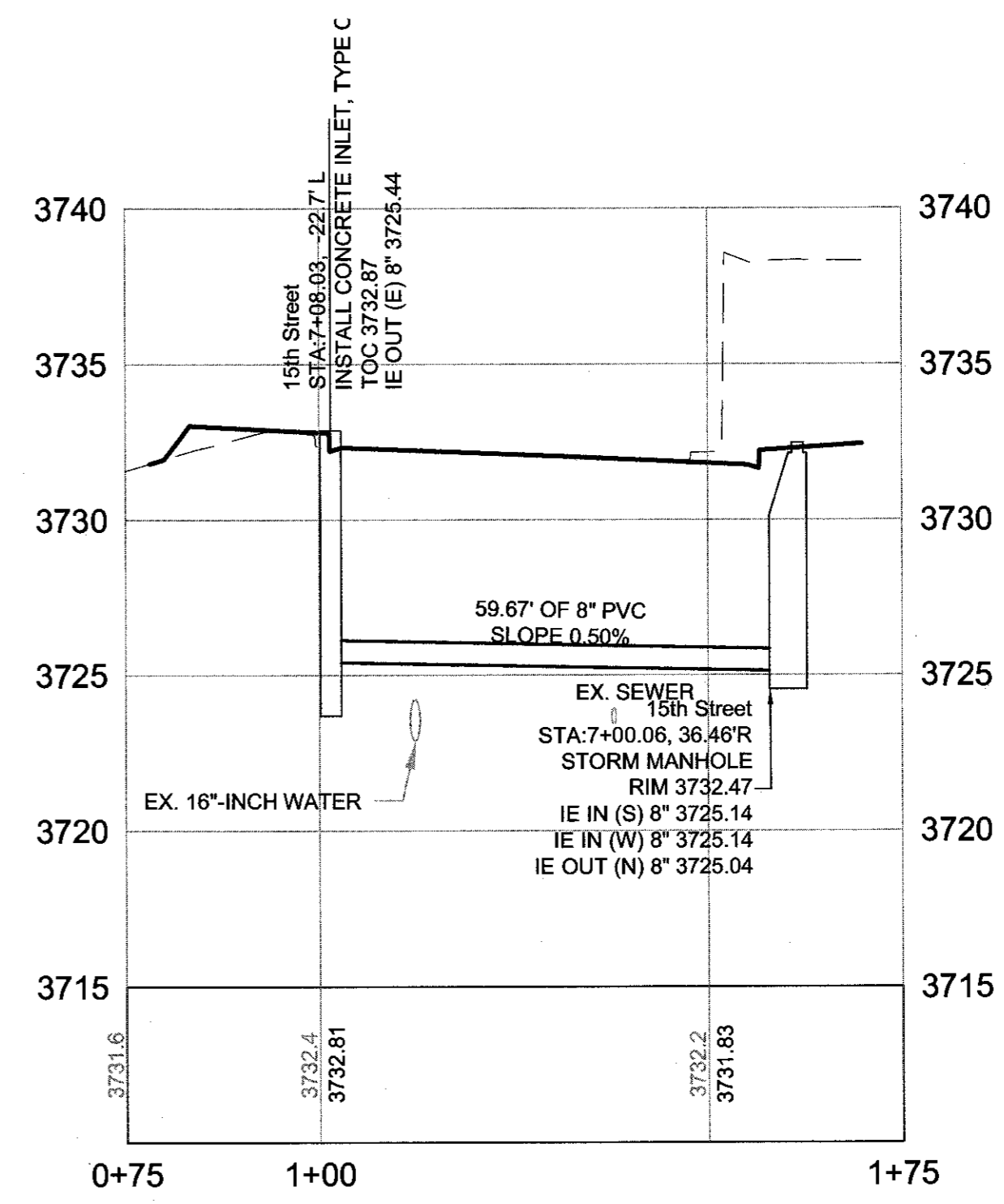
COB # ST12CJ



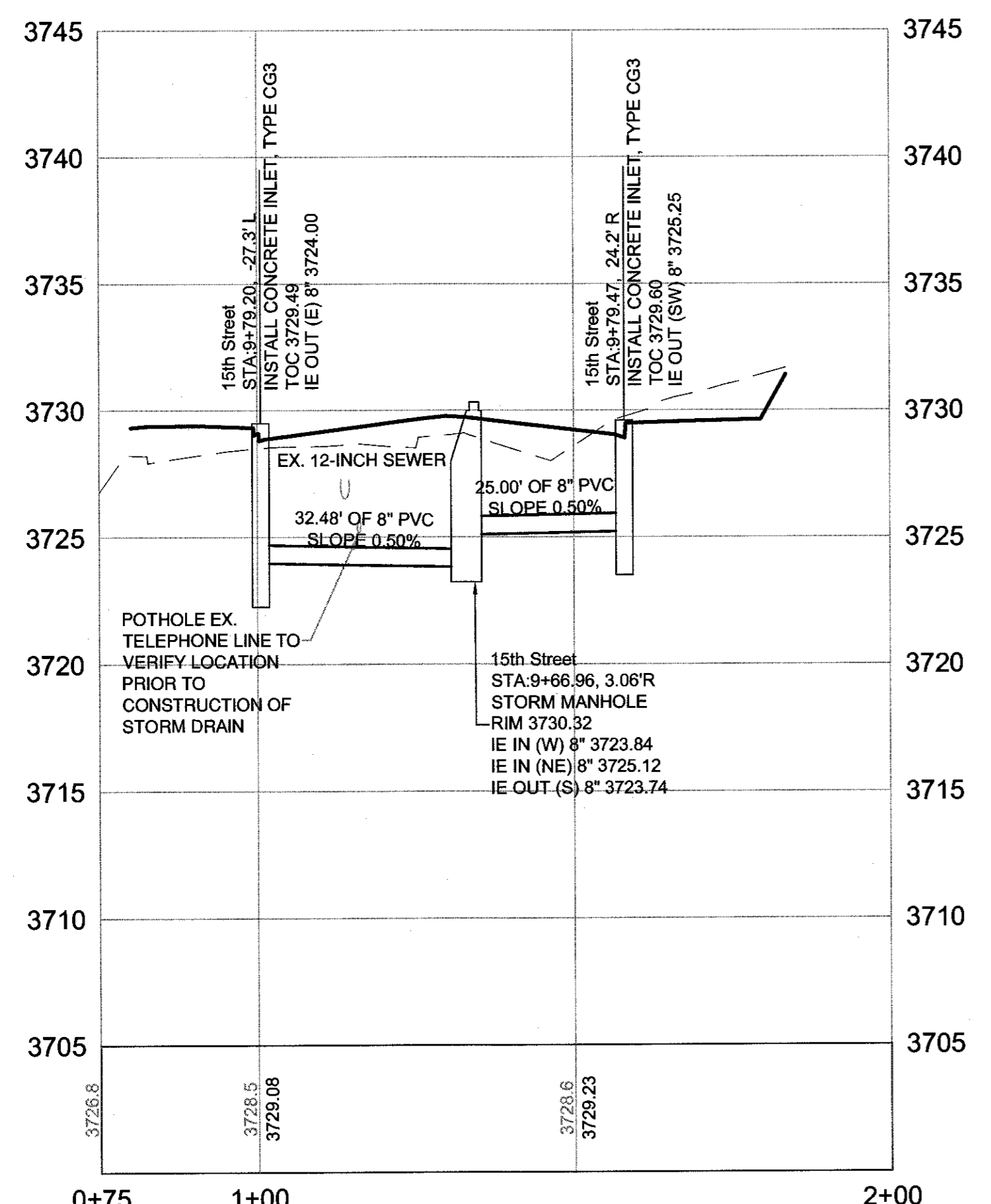
REED MARKET STA 61+93 STORM PROFILE 1
 SCALE: 1" = 20' HORIZ
 1" = 5' VERT P-25



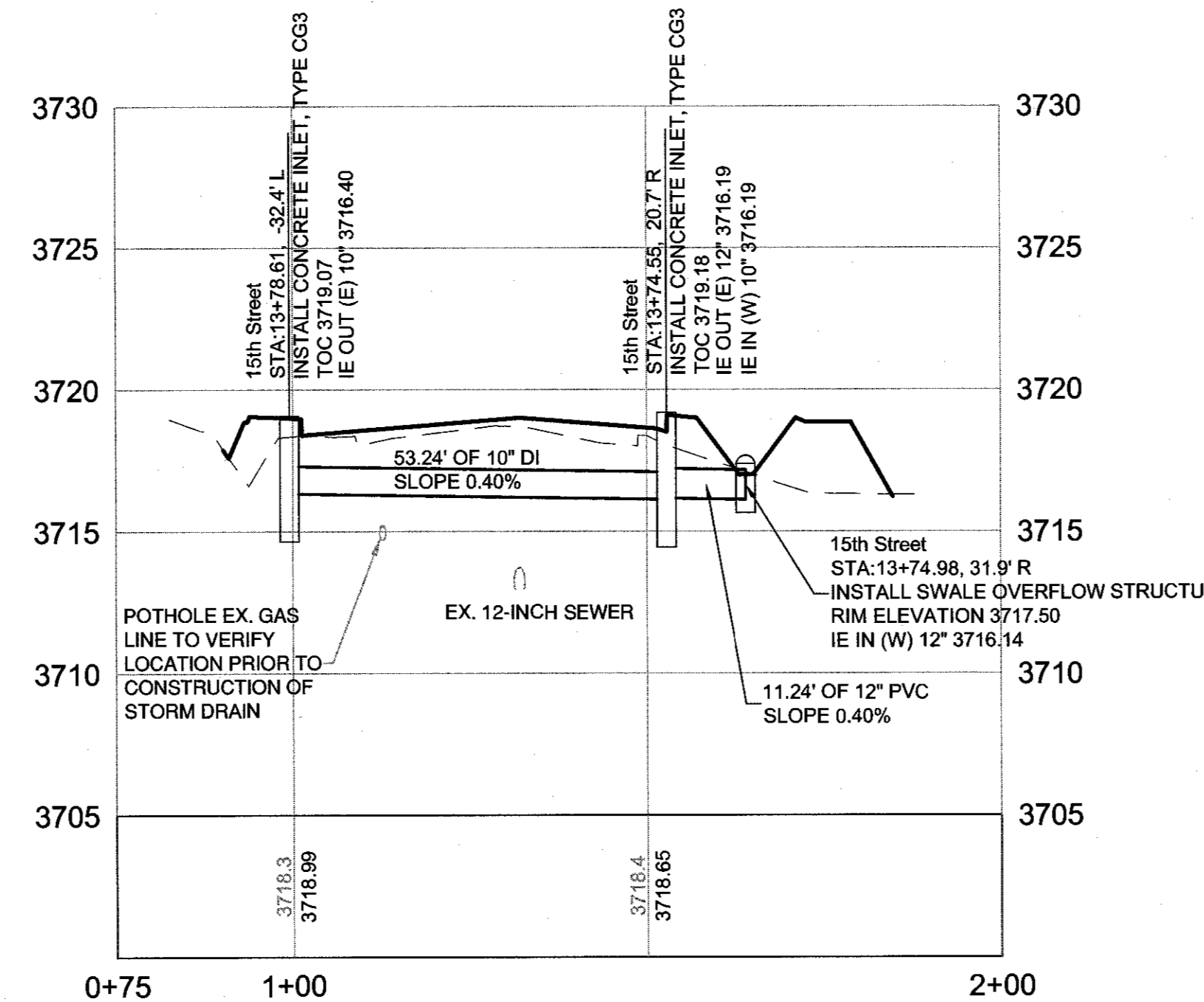
15TH STREET STA 5+94 STORM PROFILE 2
 SCALE: 1" = 20' HORIZ
 1" = 5' VERT P-25



15TH STREET STA 6+98 STORM PROFILE 3
 SCALE: 1" = 20' HORIZ
 1" = 5' VERT P-25



15TH STREET STA 9+79 STORM PROFILE 4
 SCALE: 1" = 20' HORIZ
 1" = 5' VERT P-25

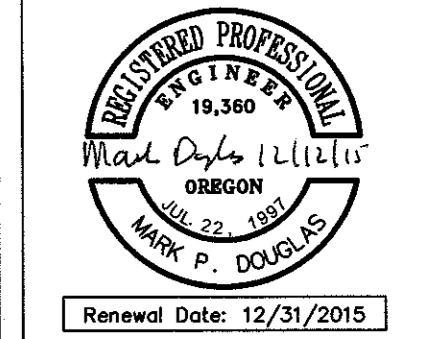


15TH STREET STA 13+79 STORM PROFILE 5
 SCALE: 1" = 20' HORIZ
 1" = 5' VERT P-25

RECORD DRAWING CERTIFICATION

I CERTIFY THAT THIS PROJECT HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE CITY APPROVED PLANS AND THE CITY OF BEND PUBLIC IMPROVEMENT CONSTRUCTION PROCEDURE STANDARD AND SPECIFICATIONS, DATED JULY 1, 2011. THIS CERTIFICATION IS BASED ON PERIODIC INSPECTIONS PERFORMED BY ME OR BY REPRESENTATIVES UNDER MY DIRECT SUPERVISION AND INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND OTHER INDEPENDENT TESTING AND INSPECTION AGENCIES. THE INFORMATION PROVIDED BY OTHERS HAS BEEN ASSUMED TO BE CORRECT AND HAS NOT BE VERIFIED BY THE ENGINEER. THIS CERTIFICATION INDICATES THAT I HAVE REVIEWED THIS INFORMATION AND VERIFIED THAT ANY REVISION(S) OR CHANGES AS DEFINED BY THE RECORD DO NOT APPEAR TO BE ADVERSE TO THE PLANNED USE AND/OR INTENT OF THE ORIGINAL DESIGN.

Signature: *Mark P. Douglas*
 Date: 12/31/2015



**REED MARKET ROAD
 3RD STREET TO NEWBERRY DRIVE
 STORM DRAIN PROFILES**
 CITY OF BEND, OREGON



REVISIONS:

1.	MPD 12/09/2015	RECORD DRAWING
2.		
3.		

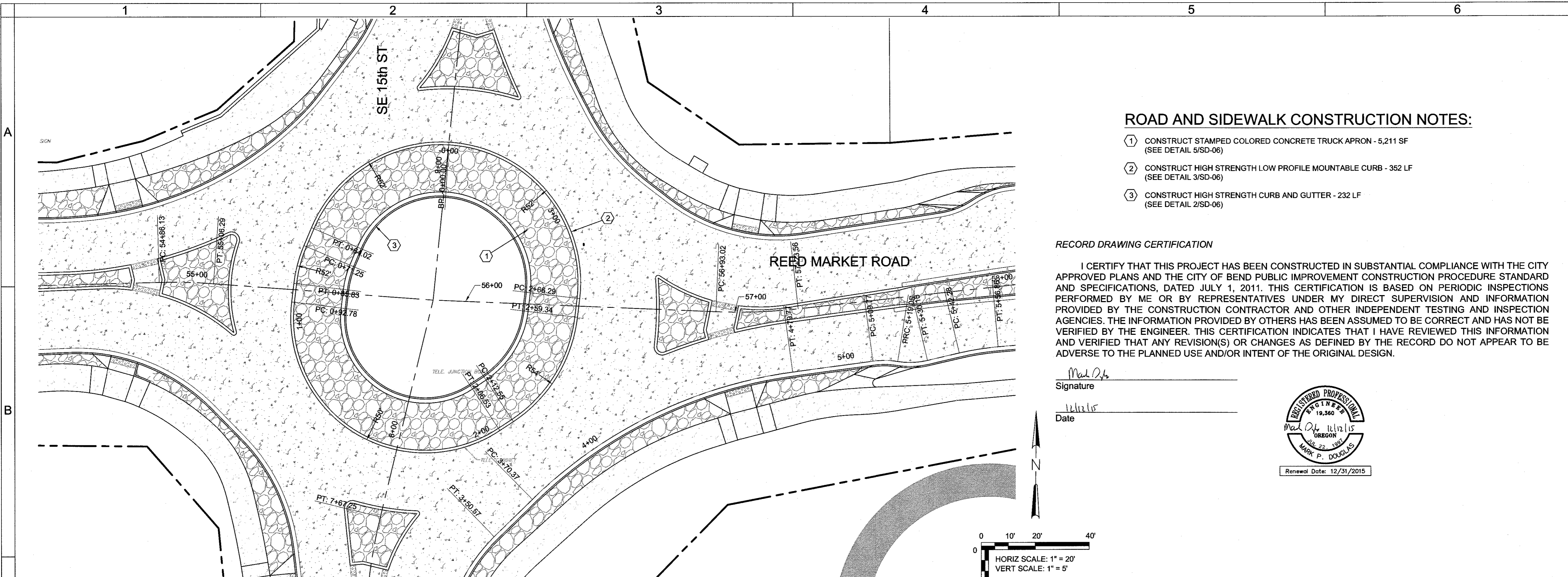
HWA SURVEYORS, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC.
 4230 O.E. HWY ROAD, SUITE 100
 BEND, OREGON 97701
 PHONE: 541.389.9351 FAX: 541.386.5414

DESIGNED BY: MD
 DRAWN BY: MD
 SCALE: AS SHOWN
 FILE: REED 15TH BASE
 DATE: 04/21/2014

VERIFY SCALES
 0 1"
 BAR EQUALS ONE INCH
 ON ORIGINAL DRAWING

SHEET:
P-25

COB # ST12CJ



INNER CURB PLAN (FACE OF MOUNTABLE CURB)
SCALE: 1" = 20'

ROAD AND SIDEWALK CONSTRUCTION NOTES:

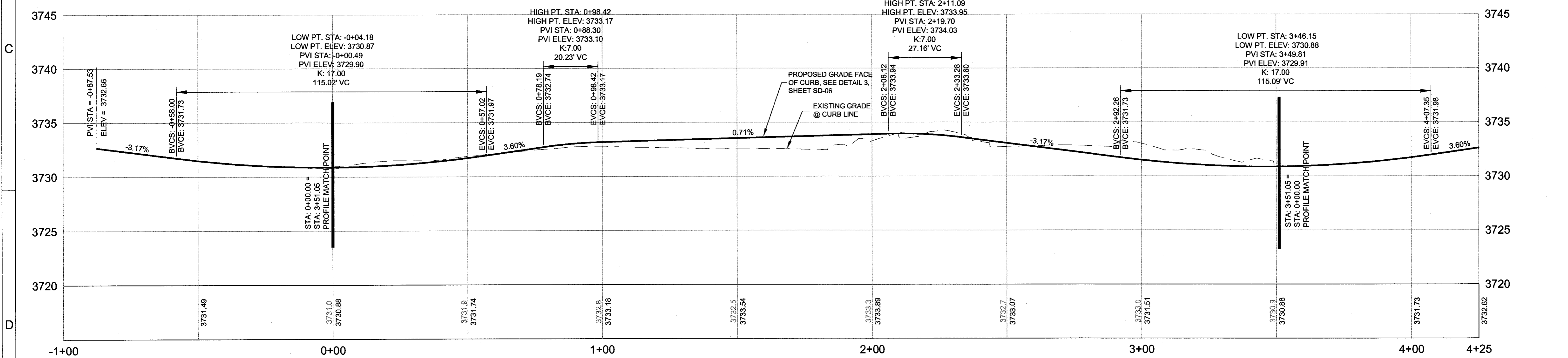
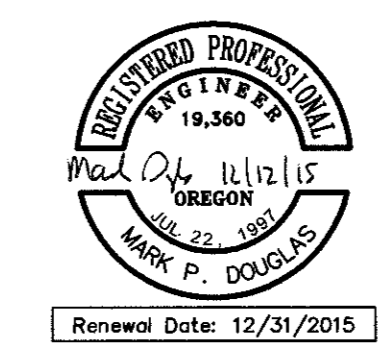
- ① CONSTRUCT STAMPED COLORED CONCRETE TRUCK APRON - 5,211 SF (SEE DETAIL 5/SD-06)
- ② CONSTRUCT HIGH STRENGTH LOW PROFILE MOUNTABLE CURB - 352 LF (SEE DETAIL 3/SD-06)
- ③ CONSTRUCT HIGH STRENGTH CURB AND GUTTER - 232 LF (SEE DETAIL 2/SD-06)

RECORD DRAWING CERTIFICATION

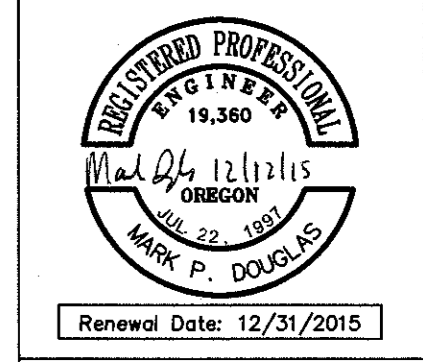
I CERTIFY THAT THIS PROJECT HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE CITY APPROVED PLANS AND THE CITY OF BEND PUBLIC IMPROVEMENT CONSTRUCTION PROCEDURE STANDARD AND SPECIFICATIONS, DATED JULY 1, 2011. THIS CERTIFICATION IS BASED ON PERIODIC INSPECTIONS PERFORMED BY ME OR BY REPRESENTATIVES UNDER MY DIRECT SUPERVISION AND INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND OTHER INDEPENDENT TESTING AND INSPECTION AGENCIES. THE INFORMATION PROVIDED BY OTHERS HAS BEEN ASSUMED TO BE CORRECT AND HAS NOT BEEN VERIFIED BY THE ENGINEER. THIS CERTIFICATION INDICATES THAT I HAVE REVIEWED THIS INFORMATION AND VERIFIED THAT ANY REVISION(S) OR CHANGES AS DEFINED BY THE RECORD DO NOT APPEAR TO BE ADVERSE TO THE PLANNED USE AND/OR INTENT OF THE ORIGINAL DESIGN.

Signature: Mark P. Douglas

Date: 12/15



INNER CURB PROFILE (FACE OF MOUNTABLE CURB)
SCALE: 1" = 20' HORIZ
1" = 5' VERT



REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
INNER CURB PLAN & PROFILE
CITY OF BEND, OREGON



REVISIONS:

1.	MPD 12/09/2015	RECORD DRAWING
2.		
3.		

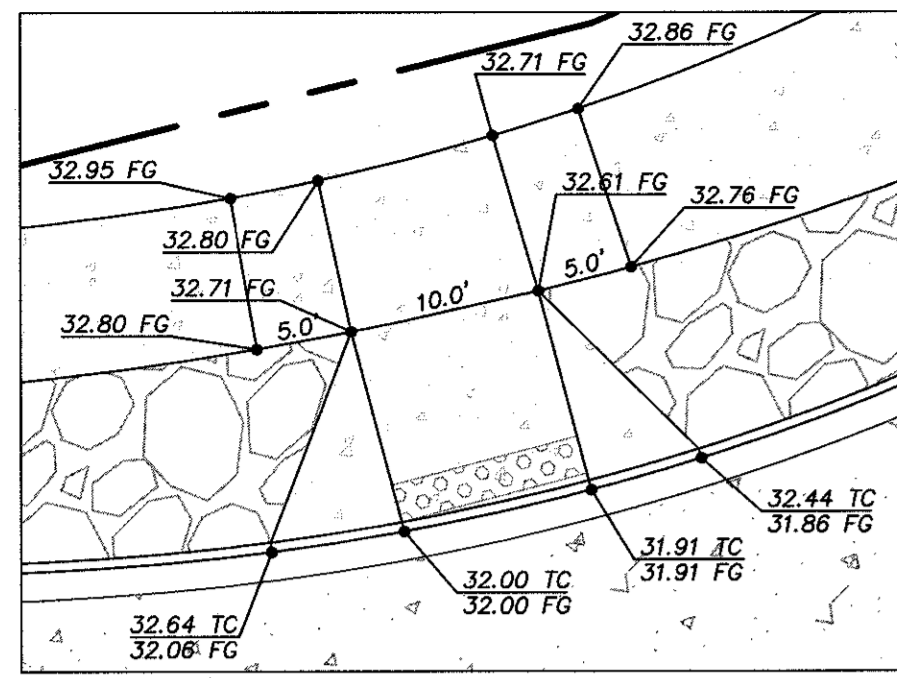
HWA SURVEYORS, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC.
42930 O.E. FILEY ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541.389.9351 FAX: 541.386.5416

DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

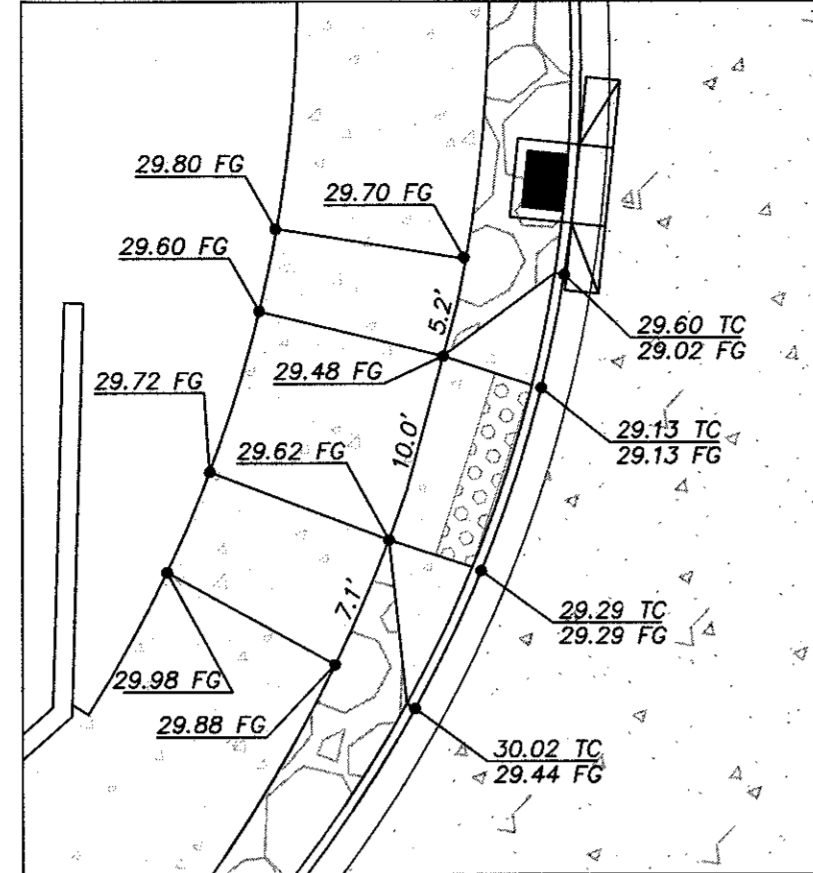
VERIFY SCALES
0 1" BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET: **RA-01**

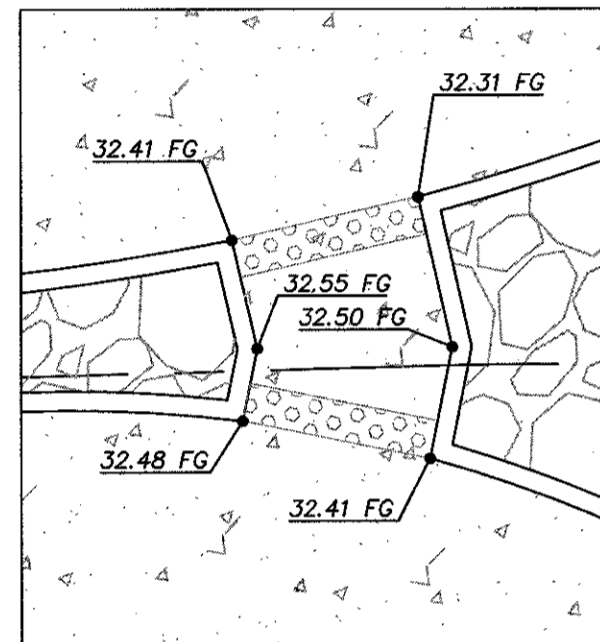
COB # ST12CJ



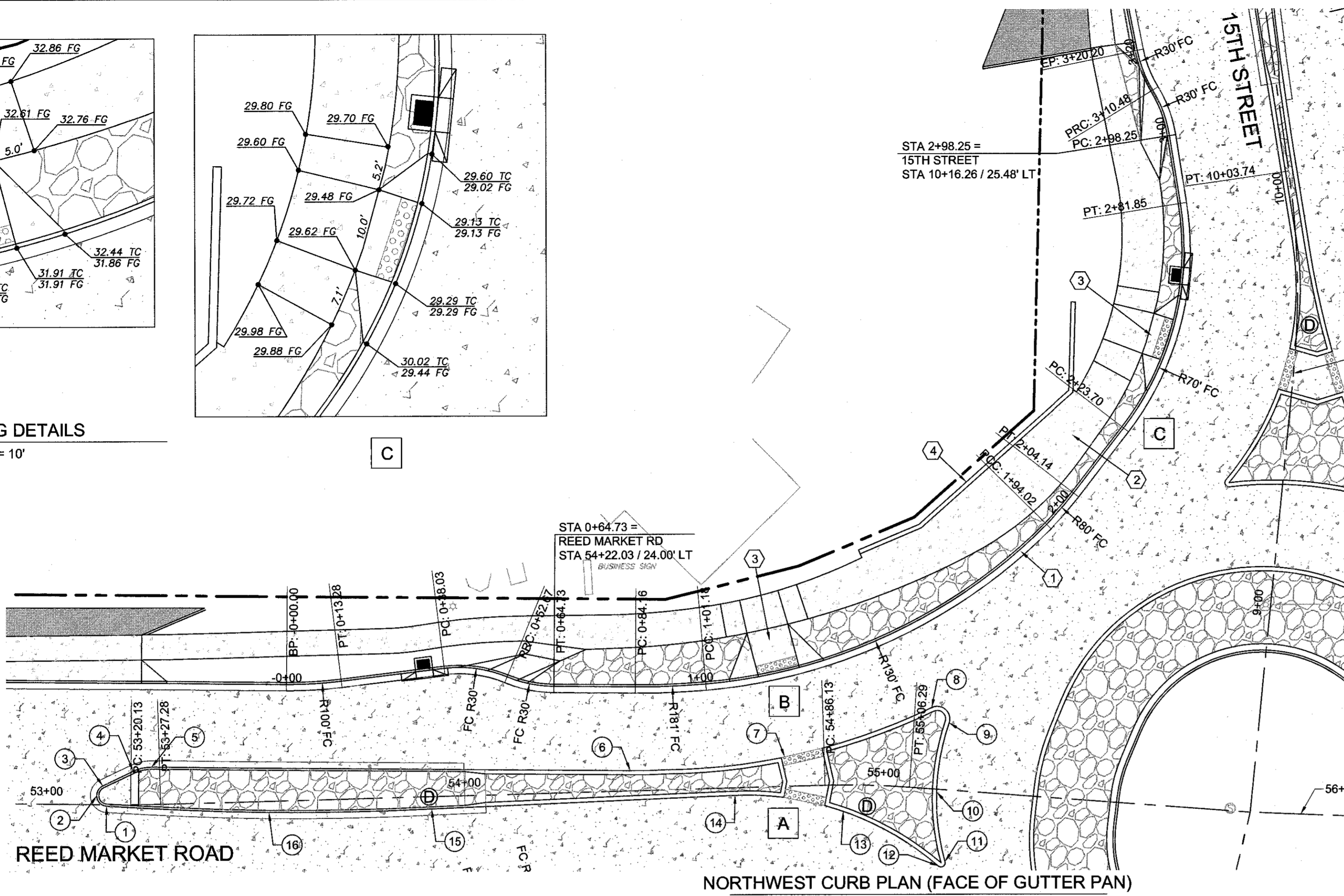
RAMP GRADING DETAILS
SCALE: 1" = 10'



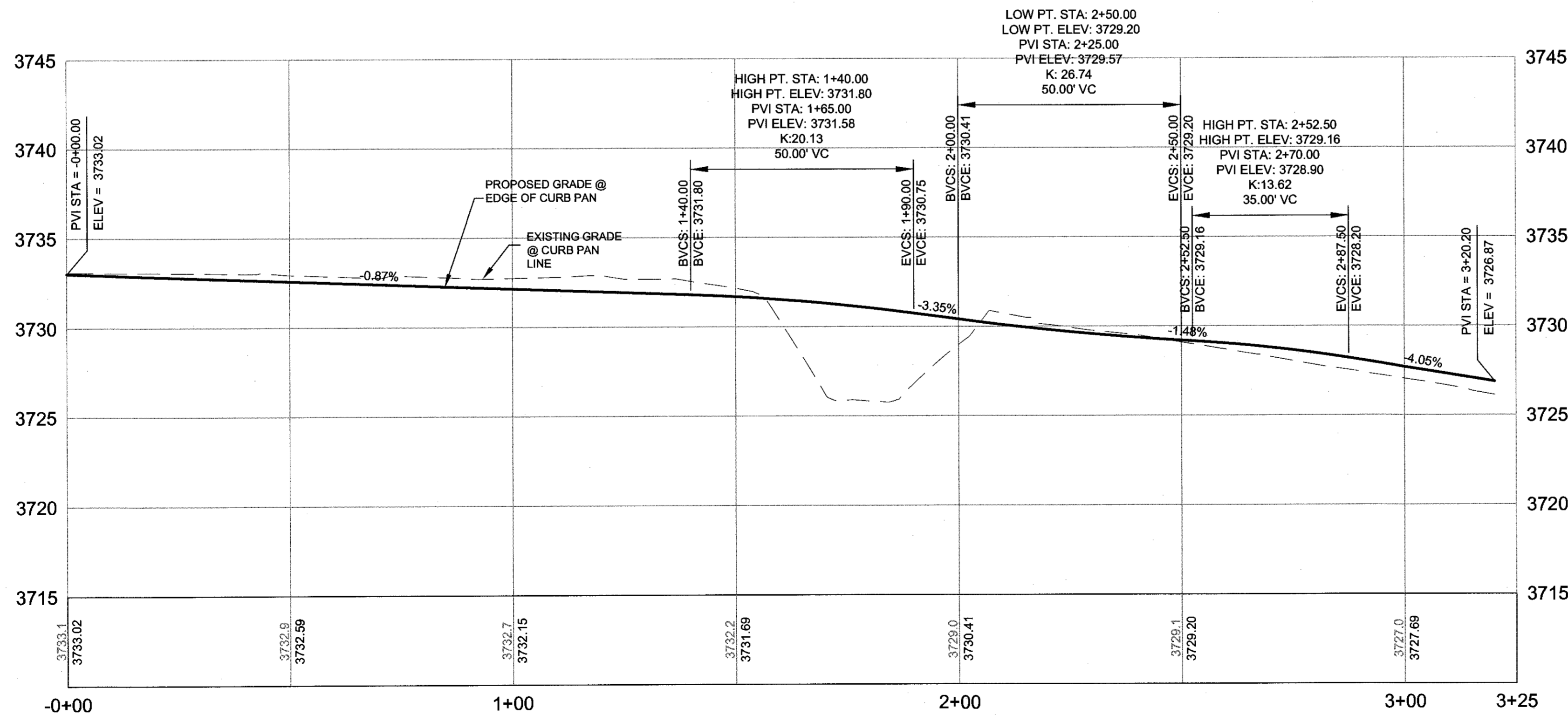
C



A



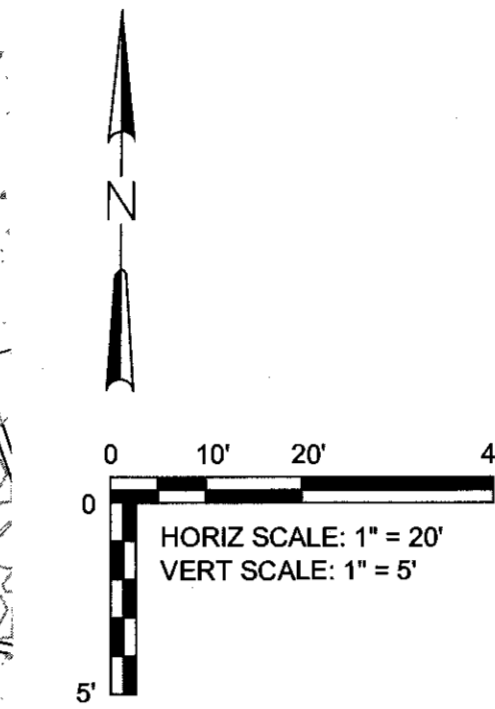
NORTHWEST CURB PLAN (FACE OF GUTTER PAN)
SCALE: 1" = 20'



NORTHWEST CURB PROFILE (FACE OF GUTTER PAN)
SCALE: 1" = 20' HORIZ
1" = 5' VERT

ROAD AND SIDEWALK CONSTRUCTION NOTES:

- ① STA 0+64.73 - 2+98.25
CONSTRUCT HIGH STRENGTH CONCRETE CURB AND GUTTER - 231 LF
(SEE DETAIL 2/SD-06)
- ② STA 0+64.73 - 2+98.25
CONSTRUCT ROUNDABOUT CONCRETE SHARED PATH
CONCRETE WALKS - 2,000 SF
STAMPED CONCRETE - 1,195 SF
(SEE DETAIL 5/SD-06)
- ③ CONSTRUCT PERPENDICULAR CURB RAMP - 277 SF
(SEE COB DRG R-6A)
REFER TO GRADING DETAIL, THIS SHEET
- ④ CONSTRUCT RETAINING WALL
SEE SHEET W-01 AND W-02



RECORD DRAWING CERTIFICATION

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Signature: *Mark P. Douglas*
Date: 12/14/14

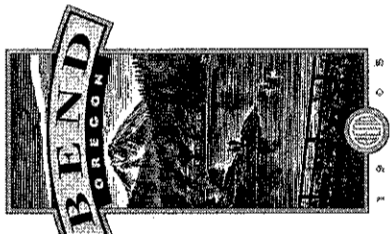


POINT	FC LOCATION	TP ELEV	DESC	RADIUS
①	STA 53+14.35, 0.36' RT	3733.89	PC	
②	STA 53+12.00, 2.14' LT	3733.87	1/2A	2.55 FT
③	STA 53+13.41, 4.47' LT	3733.81	PT	
④	STA 53+20.69, 7.99' LT	3733.68	PC	10 FT
⑤	STA 53+25.26, 8.94' LT	3733.63	PT	
⑥	STA 54+39.71, 4.86' LT	3732.76	PC	
⑦	STA 54+76.70, 7.03' LT	3732.41	1/2A	150 FT
⑧	STA 55+10.25, 19.35' LT	3732.12	PRC	3 FT
⑨	STA 55+14.65, 15.98' LT	3732.23	PRC	
⑩	STA 55+12.84, 0.67' RT	3732.60	1/2A	55.74 FT
⑪	STA 55+16.05, 17.10' RT	3732.79	PRC	1 FT
⑫	STA 55+14.52, 18.24' RT	3732.74	PRC	
⑬	STA 54+90.45, 6.29' RT	3732.38	1/2A	70 FT
⑭	STA 54+64.57, 1.80' RT	3732.62	PT	
⑮	STA 53+91.94, 2.94' RT	3733.20	PC	
⑯	STA 53+53.10, 2.63' RT	3733.52	1/2A	657.66 FT

FC = FACE OF CURB
TP = TOP OF PAVEMENT
PC = POINT OF CURVATURE
PRC = POINT OF REVERSE CURVATURE
1/2A = MID POINT
PT = POINT OF TANGENCY



REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
NORTHWEST CURB PLAN & PROFILE
CITY OF BEND, OREGON



REVISIONS:

1.	MPD 12/09/2015	RECORD DRAWING
2.		
3.		

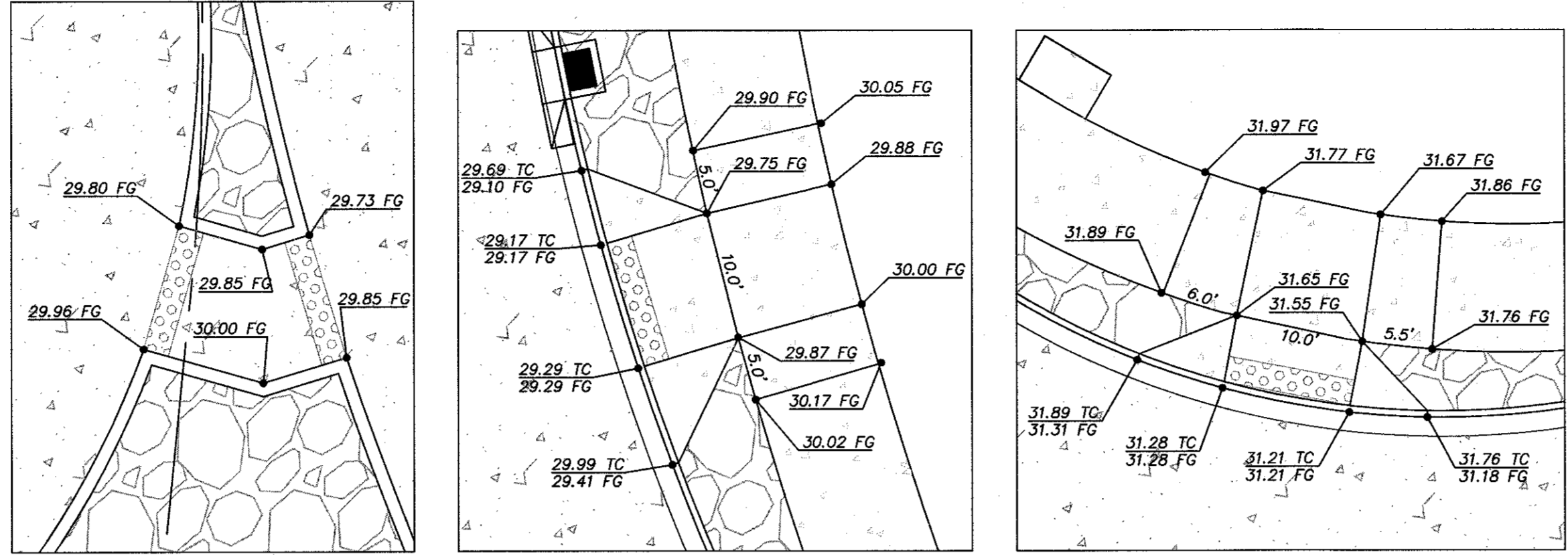
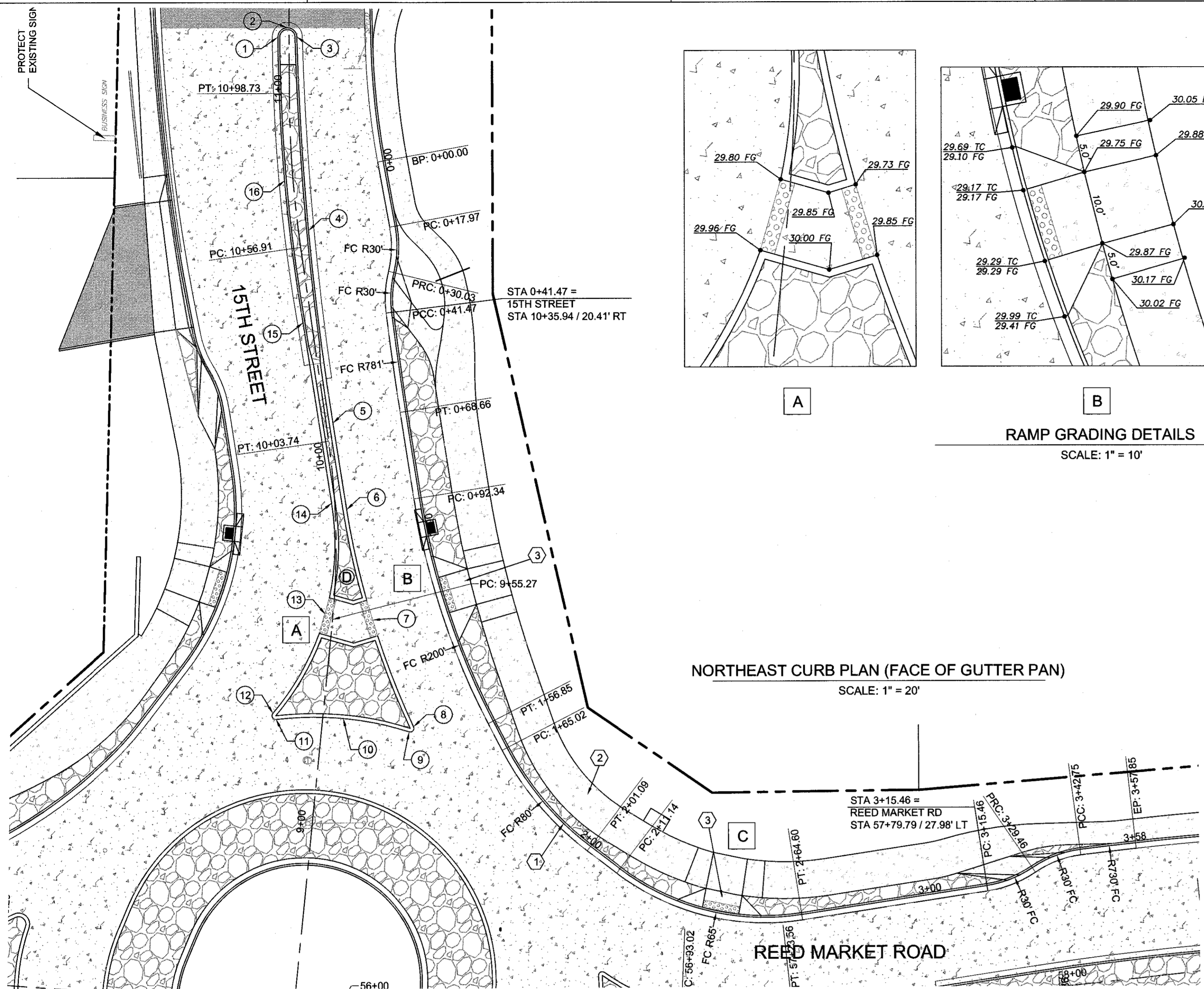
HWA SURVEYORS, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC.
42930 O.B. NILEY ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541.389.9351 FAX: 541.388.5416

DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

VERIFY SCALES
0 1" BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET: **RA-02**

COB # ST12CJ



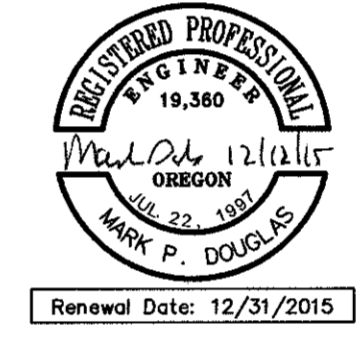
RAMP GRADING DETAILS
SCALE: 1" = 10'

NORTHEAST CURB PLAN (FACE OF GUTTER PAN)
SCALE: 1" = 20'

RECORD DRAWING CERTIFICATION

I CERTIFY THAT THIS PROJECT HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE CITY APPROVED PLANS AND THE CITY OF BEND PUBLIC IMPROVEMENT CONSTRUCTION PROCEDURE STANDARD AND SPECIFICATIONS, DATED JULY 1, 2011. THIS CERTIFICATION IS BASED ON PERIODIC INSPECTIONS PERFORMED BY ME OR BY REPRESENTATIVES UNDER MY DIRECT SUPERVISION AND INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND OTHER INDEPENDENT TESTING AND INSPECTION AGENCIES. THE INFORMATION PROVIDED BY OTHERS HAS BEEN ASSUMED TO BE CORRECT AND HAS NOT BEEN VERIFIED BY THE ENGINEER. THIS CERTIFICATION INDICATES THAT I HAVE REVIEWED THIS INFORMATION AND VERIFIED THAT ANY REVISION(S) OR CHANGES AS DEFINED BY THE RECORD DO NOT APPEAR TO BE ADVERSE TO THE PLANNED USE AND/OR INTENT OF THE ORIGINAL DESIGN.

Mark P. Douglas
Signature
Date



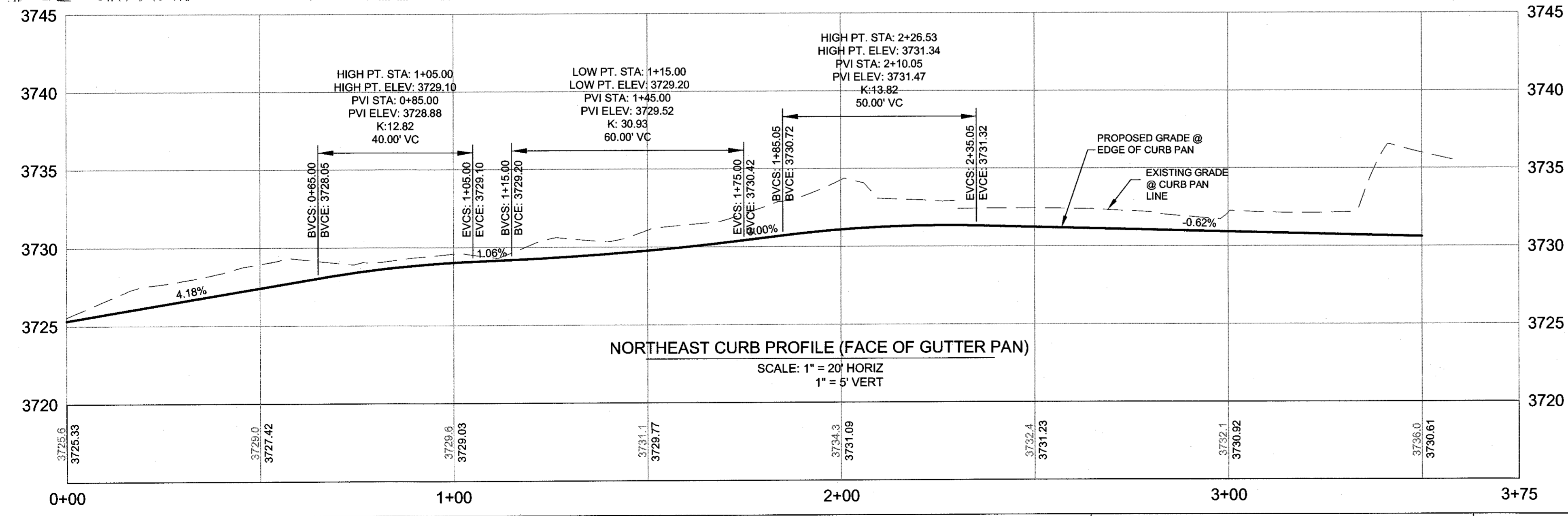
ROAD AND SIDEWALK CONSTRUCTION NOTES:

- STA 0+41.47 - 3+15.46
CONSTRUCT HIGH STRENGTH CONCRETE CURB AND GUTTER - 272 LF
(SEE DETAIL 2/SD-06)
- STA 0+41.47 - 3+15.46
CONSTRUCT ROUNDABOUT CONCRETE SHARED PATH
CONCRETE WALKS - 2,623 SF
STAMPED CONCRETE - 1,206 SF
(SEE DETAIL 5/SD-06)
- CONSTRUCT PERPENDICULAR CURB RAMP - 249 SF
(SEE COB DRG R-6A)
REFER TO GRADING DETAIL, THIS SHEET

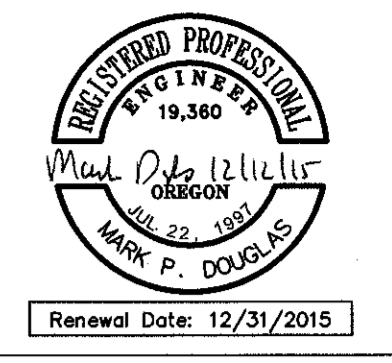
CURB RETURN TABLE

POINT	FC LOCATION	TP ELEV	DESC	RADIUS
1	STA 11+14.08, 3.05' LT	3724.23	PC	
2	STA 11+16.59, 0.51' LT	3724.18	1/2Δ	2.57 FT
3	STA 11+14.15, 2.09' RT	3724.25	PRC	
4	STA 10+61.14, 2.74' RT	3726.44	1/2Δ	801 FT
5	STA 10+08.46, 1.86' RT	3728.64	PT	
6	STA 9+85.04, 3.12' RT	3729.35	PC	
7	STA 9+56.12, 10.84' RT	3729.80	1/2Δ	220 FT
8	STA 9+28.62, 24.79' RT	3730.35	PRC	1 FT
9	STA 9+27.12, 23.73' RT	3730.40	PRC	
10	STA 9+28.89, 5.59' RT	3730.60	1/2Δ	88 FT
11	STA 9+26.87, 12.53' LT	3730.40	PRC	1 FT
12	STA 9+28.42, 13.57' RT	3730.35	PRC	
13	STA 9+56.49, 2.08' LT	3729.87	1/2Δ	71 FT
14	STA 9+87.04, 0.85' LT	3729.35	PT	
15	STA 10+36.56, 2.28' LT	3727.47	PC	
16	STA 10+75.35, 2.30' LT	3725.85	1/2Δ	472.24 FT

FC = FACE OF CURB
TP = TOP OF PAVEMENT
PC = POINT OF CURVATURE
PRC = POINT OF REVERSE CURVATURE
1/2 Δ = MID POINT
PT = POINT OF TANGENCY



NORTHEAST CURB PROFILE (FACE OF GUTTER PAN)
SCALE: 1" = 20' HORIZ
1" = 5' VERT



REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
NORTHEAST CURB PLAN & PROFILE
CITY OF BEND, OREGON



REVISIONS:

1. MPD 12/09/2015
RECORD DRAWING

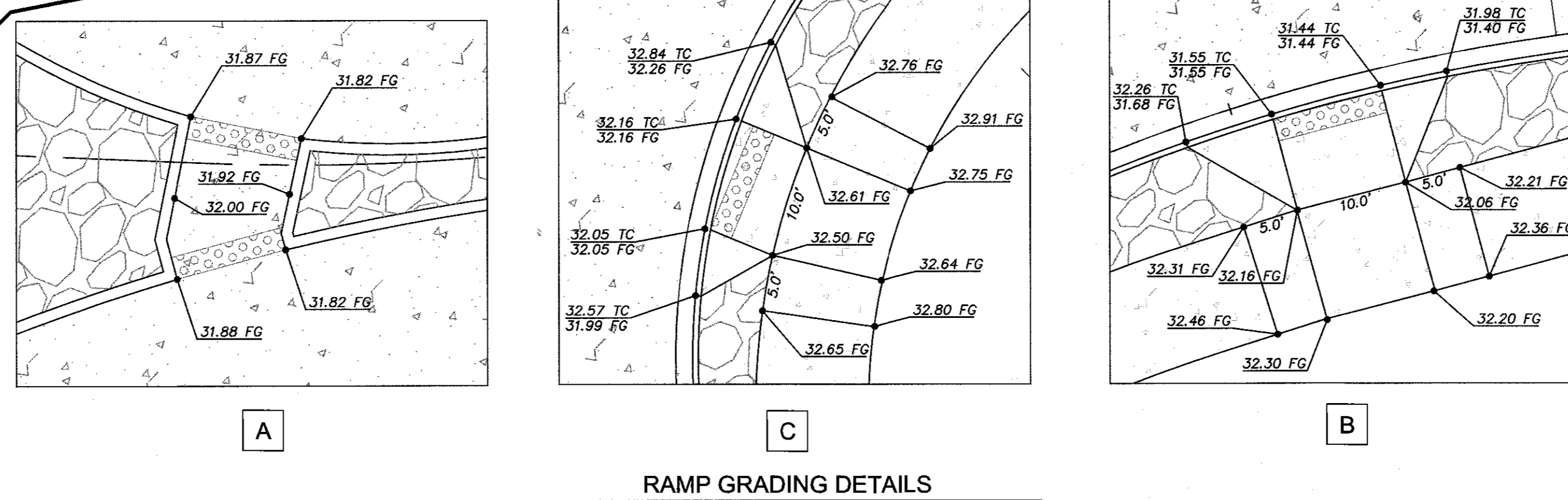
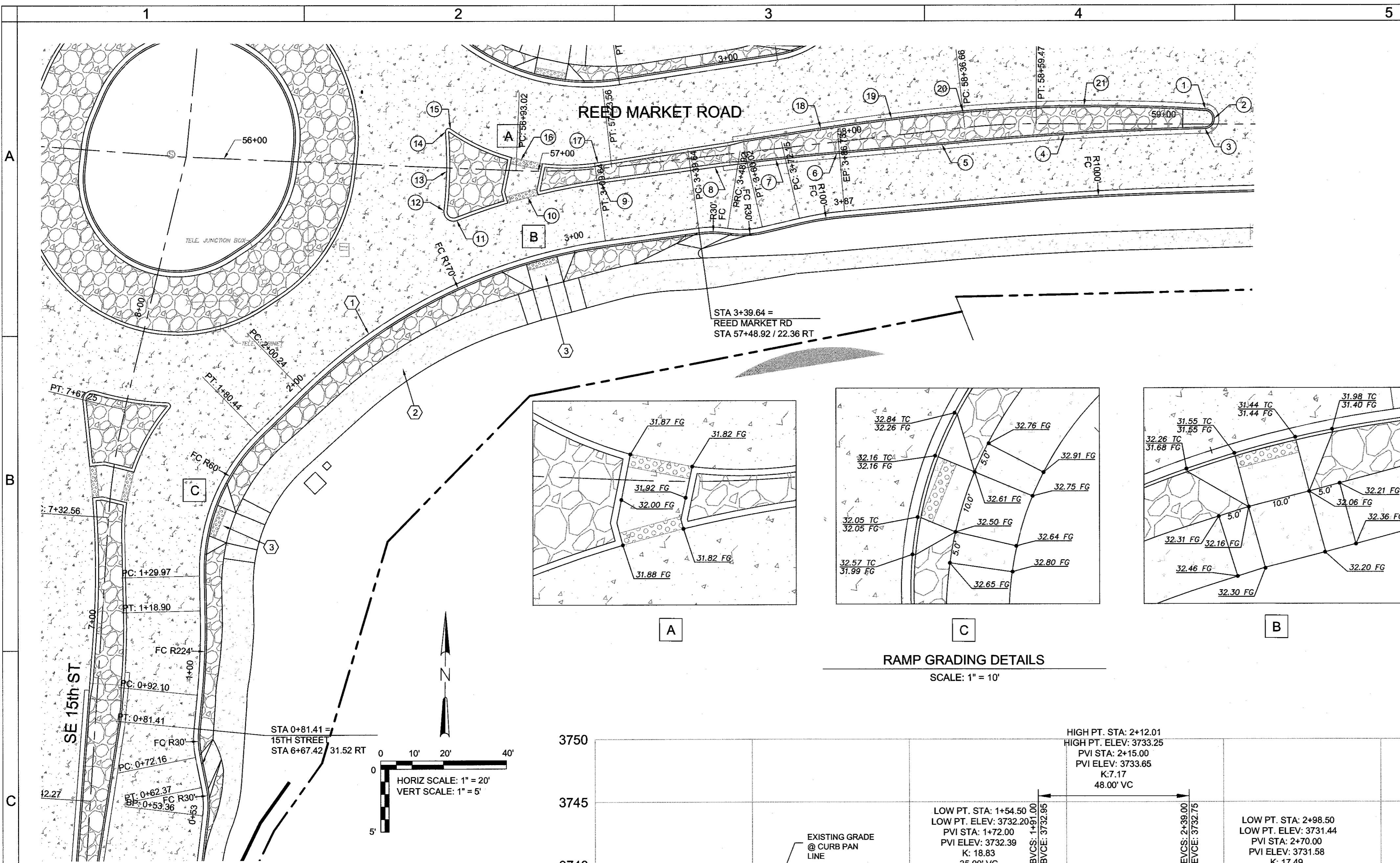
HWA
SURVEYORS, ENGINEERS
& PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC.
42730 O.B. NILEY ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541.389.9351 FAX: 541.388.5416

DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

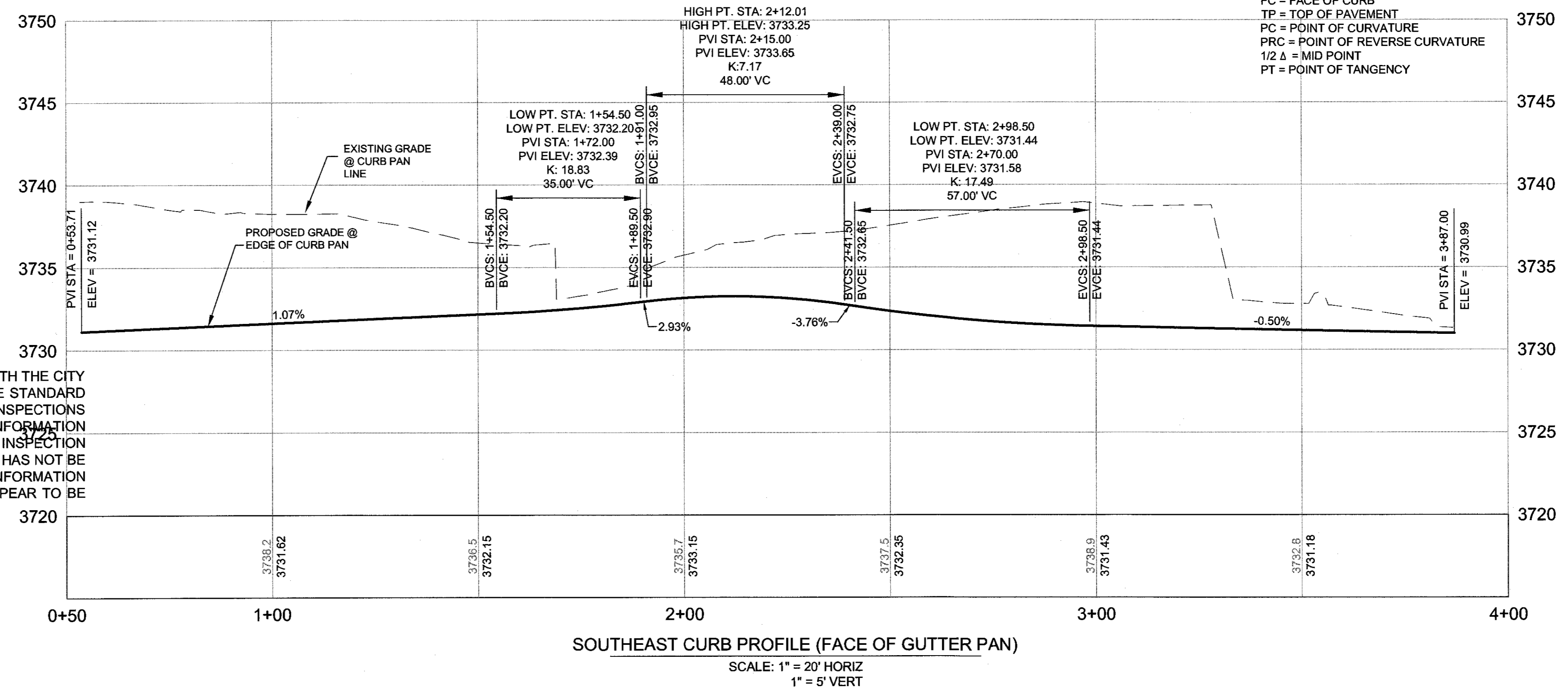
VERIFY SCALES
0 1" BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET: RA-03

COB # ST12CJ



RAMP GRADING DETAILS
SCALE: 1" = 10'



SOUTHEAST CURB PROFILE (FACE OF GUTTER PAN)
SCALE: 1" = 20' HORIZ
1" = 5' VERT

ROAD AND SIDEWALK CONSTRUCTION NOTES:

- ① STA 0+81.41 - 5+09.77
CONSTRUCT HIGH STRENGTH CONCRETE CURB AND GUTTER - 257 LF
(SEE DETAIL 5/SD-06)
- ② STA 0+81.41 - 5+09.77
CONSTRUCT ROUNDABOUT CONCRETE SHARED PATH
CONCRETE WALKS - 2,462 SF
STAMPED CONCRETE - 1,344 SF
(SEE DETAIL 5/SD-06)
- ③ CONSTRUCT PERPENDICULAR CURB RAMP - 246 SF
(SEE COB DRG R-6A) REFER TO GRADING DETAIL, THIS SHEET

POINT	FC LOCATION	TP ELEV	DESC	RADIUS
①	STA 59+13.30, 4.86' LT	3729.69	PC	
②	STA 59+16.11, 1.82' LT	3729.69	1/2Δ	3.14 FT
③	STA 59+13.20, 1.40' RT	3729.76	PRC	
④	STA 58+68.38, 3.42' RT	3730.58	1/2Δ	1100 FT
⑤	STA 58+28.81, 4.50' RT	3731.08	PT	
⑥	STA 57+95.26, 3.68' RT	3731.36	PC	
⑦	STA 57+75.75, 3.44' RT	3731.47	1/2Δ	800 FT
⑧	STA 57+56.24, 3.68' RT	3731.56	PT	
⑨	STA 57+19.73, 4.60' RT	3731.72	PC	
⑩	STA 56+96.97, 8.40' RT	3731.84	1/2Δ	200 FT
⑪	STA 56+74.84, 16.64' RT	3731.71	PRC	3 FT
⑫	STA 56+70.63, 13.67' RT	3731.79	PRC	
⑬	STA 56+70.96, 1.08' RT	3732.04	1/2Δ	130.46 FT
⑭	STA 56+70.08, 11.48' LT	3731.85	PRC	1 FT
⑮	STA 56+71.61, 12.44' LT	3731.81	PRC	
⑯	STA 56+94.47, 3.45' LT	3731.85	1/2Δ	65 FT
⑰	STA 57+19.31, 1.87' LT	3731.78	PT	
⑱	STA 57+91.09, 4.94' LT	3731.36	PC	
⑲	STA 58+13.83, 5.53' LT	3731.20	1/2Δ	699 FT
⑳	STA 58+36.58, 5.37' LT	3730.97	PT	
㉑	STA 58+74.64, 5.90' LT	3730.43	1/2Δ	514.33 FT

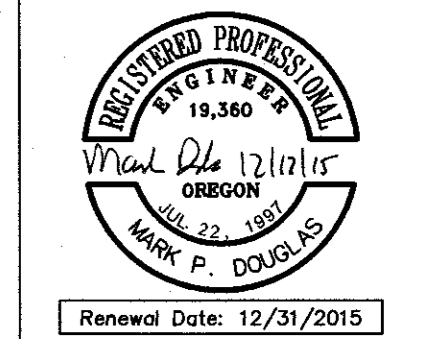
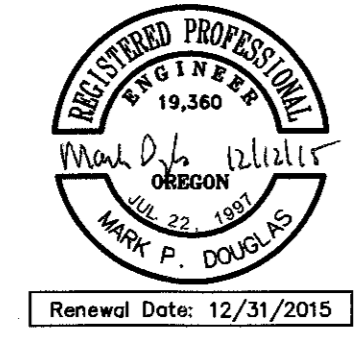
FC = FACE OF CURB
TP = TOP OF PAVEMENT
PC = POINT OF CURVATURE
PRC = POINT OF REVERSE CURVATURE
1/2 Δ = MID POINT
PT = POINT OF TANGENCY

SOUTHEAST CURB PLAN (FACE OF GUTTER PAN)
SCALE: 1" = 20'

RECORD DRAWING CERTIFICATION

I CERTIFY THAT THIS PROJECT HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE CITY APPROVED PLANS AND THE CITY OF BEND PUBLIC IMPROVEMENT CONSTRUCTION PROCEDURE STANDARD AND SPECIFICATIONS, DATED JULY 1, 2011. THIS CERTIFICATION IS BASED ON PERIODIC INSPECTIONS PERFORMED BY ME OR BY REPRESENTATIVES UNDER MY DIRECT SUPERVISION AND INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND OTHER INDEPENDENT TESTING AND INSPECTION AGENCIES. THE INFORMATION PROVIDED BY OTHERS HAS BEEN ASSUMED TO BE CORRECT AND HAS NOT BE VERIFIED BY THE ENGINEER. THIS CERTIFICATION INDICATES THAT I HAVE REVIEWED THIS INFORMATION AND VERIFIED THAT ANY REVISION(S) OR CHANGES AS DEFINED BY THE RECORD DO NOT APPEAR TO BE ADVERSE TO THE PLANNED USE AND/OR INTENT OF THE ORIGINAL DESIGN.

Signature: *Mark P. Douglas*
Date: 12/11/15



REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
SOUTHEAST CURB PLAN & PROFILE
CITY OF BEND, OREGON



REVISIONS:
1. MPD 12/09/2015 RECORD DRAWING

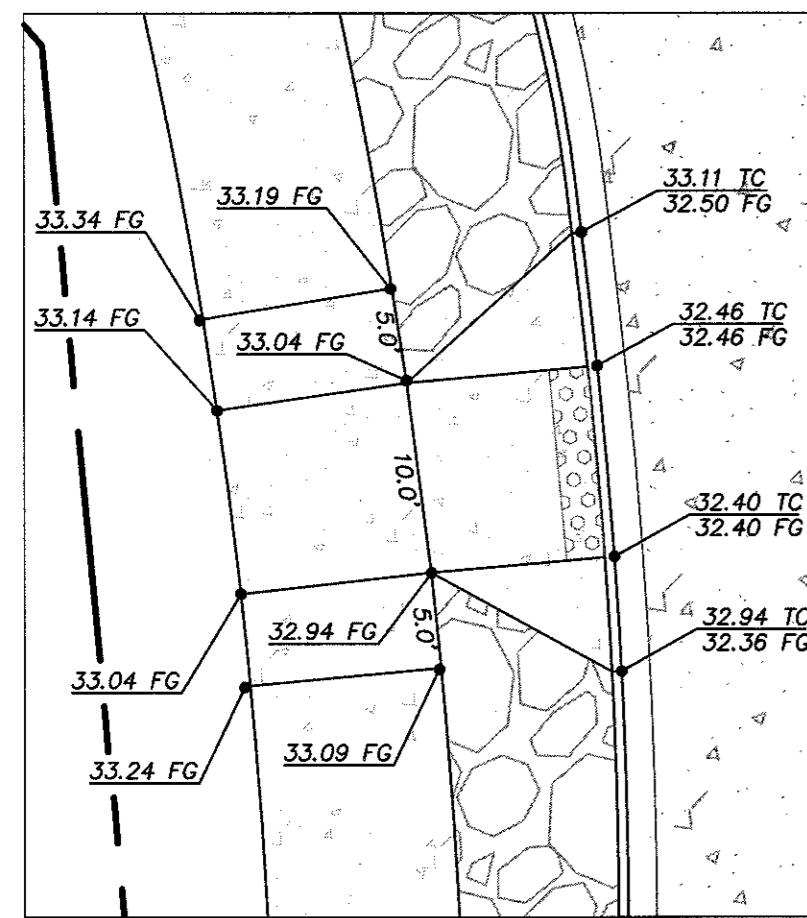
HWA SURVEYORS, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC
62930 O.B. RILEY ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541.389.9351 FAX: 541.388.5416

DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

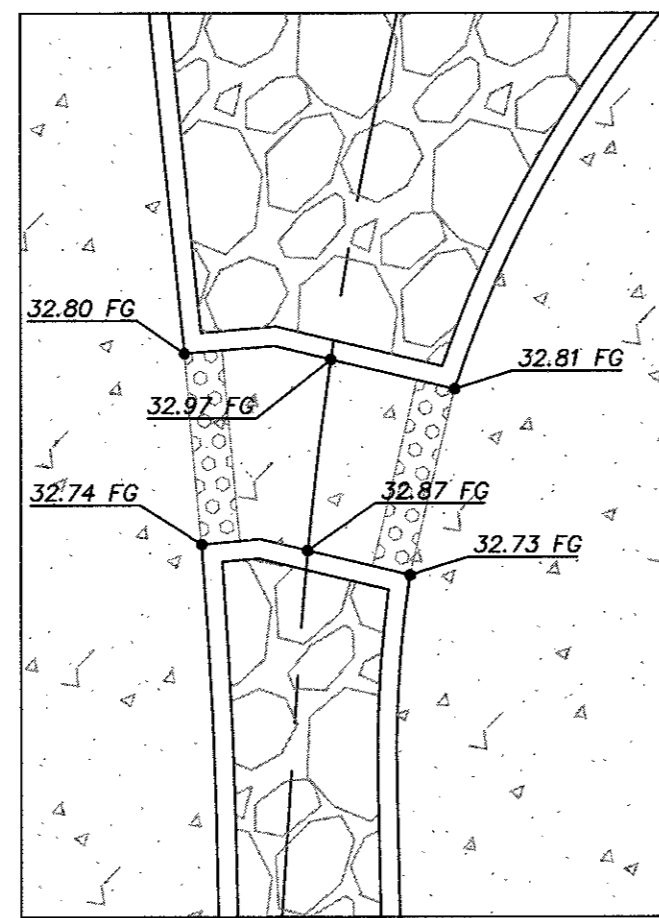
VERIFY SCALES
0 1" BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET: RA-04

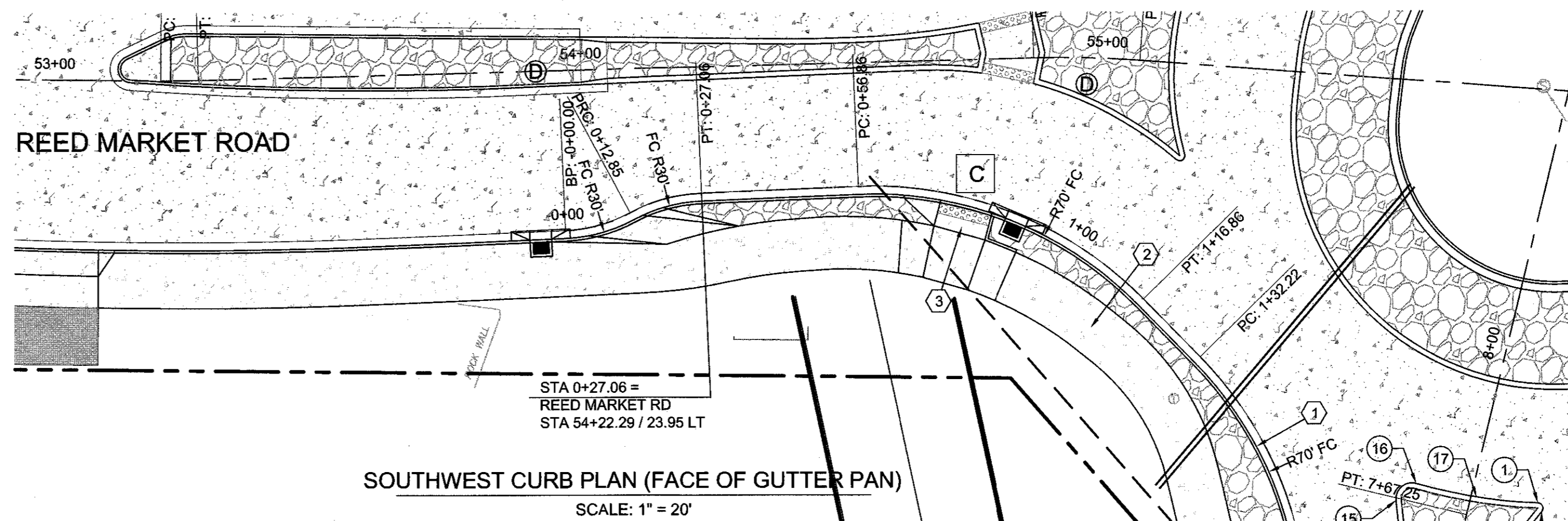
COB # ST12CJ



A



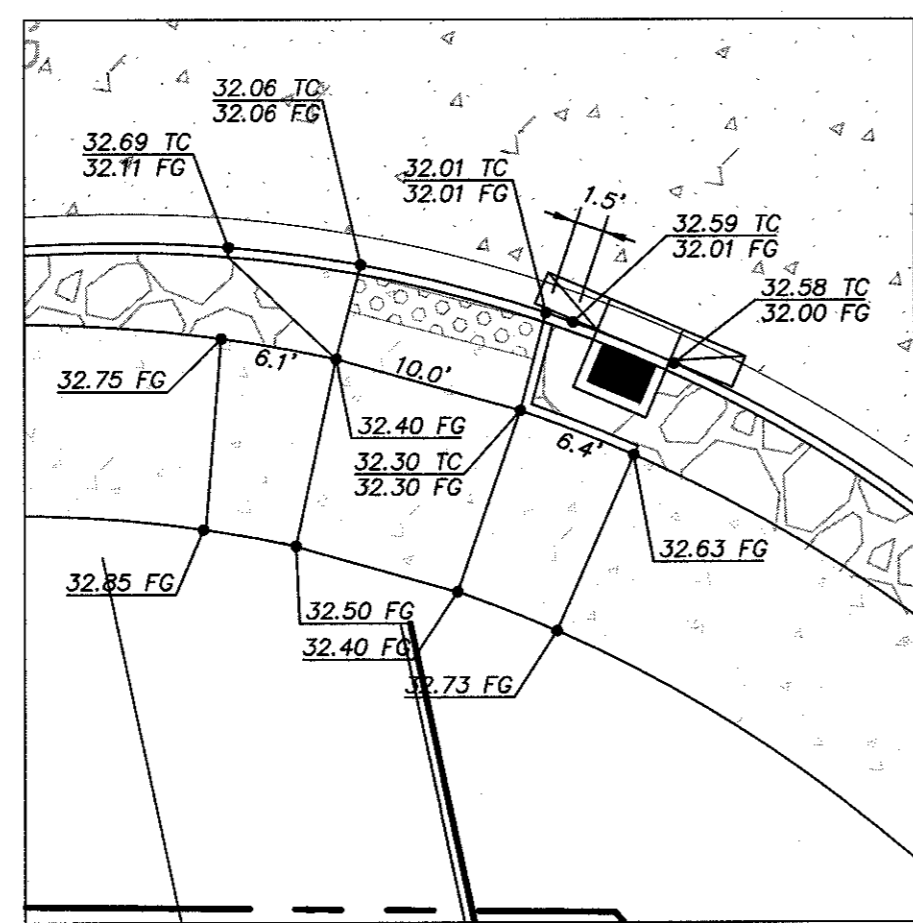
B



SOUTHWEST CURB PLAN (FACE OF GUTTER PAN)
SCALE: 1" = 20'

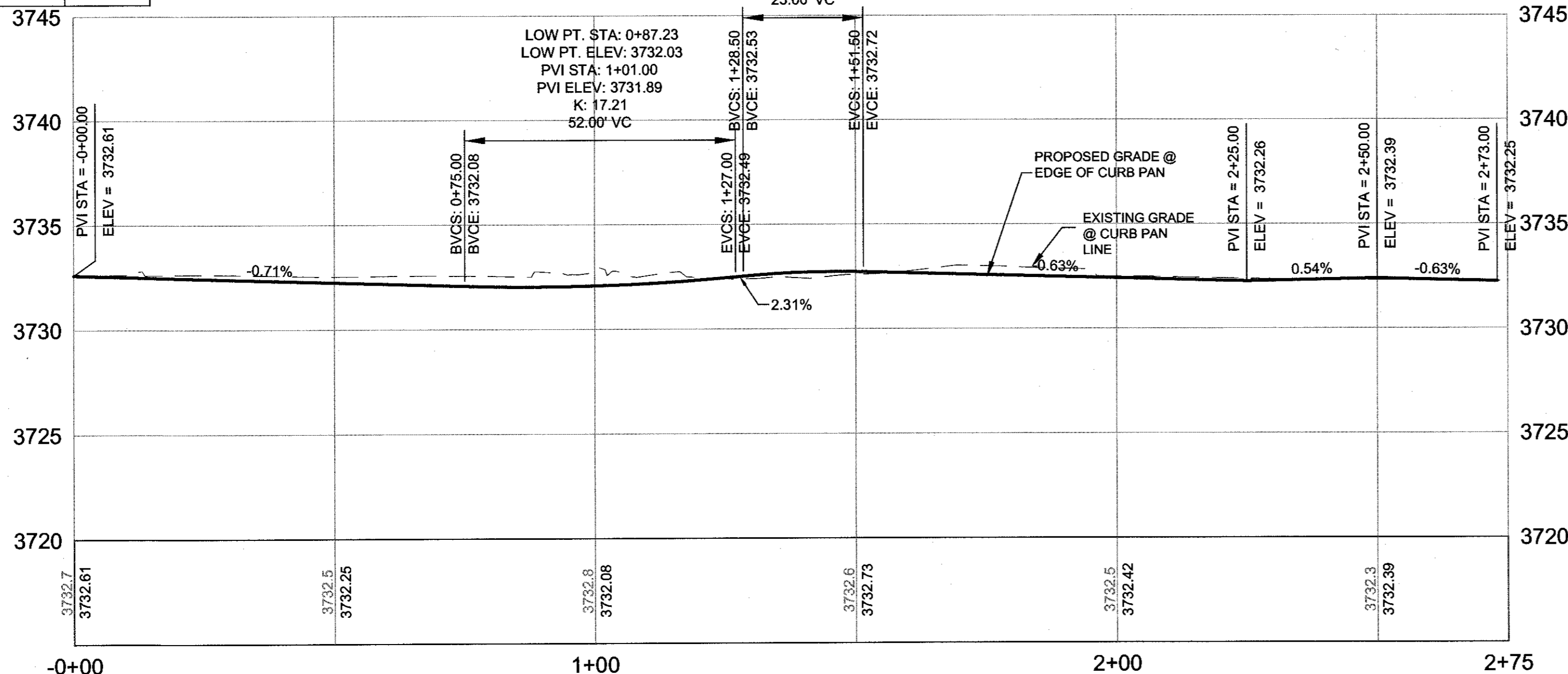
POINT	FC LOCATION	TP ELEV	DESC	RADIUS
1	STA 7+72.64, 12.66' RT	3733.29	PC	1 FT
2	STA 7+71.21, 13.76' RT	3733.24	PRC	
3	STA 7+49.45, 6.88' RT	3732.82	1/2Δ	61 FT
4	STA 7+26.95, 5.54' RT	3732.64	PT	
5	STA 7+02.79, 7.69' RT	3732.35	PC	
6	STA 6+90.83, 8.39' RT	3732.21	1/2Δ	199 FT
7	STA 6+78.85, 8.37' RT	3732.09	PT	
8	STA 6+67.76, 8.02' RT	3731.99	PT	
9	STA 5+86.93, 0.15' LT	3731.32	PC	
10	STA 5+85.18, 2.30' LT	3731.26	1/2Δ	2 FT
11	STA 5+87.25, 4.29' LT	3731.24	PT	
12	STA 6+92.95, 2.43' LT	3732.35	PC	
13	STA 7+19.85, 3.36' LT	3732.61	1/2Δ	300 FT
14	STA 7+46.09, 7.17' LT	3732.78	PT	
15	STA 7+66.83, 13.63' LT	3733.03	PRC	3 FT
16	STA 7+70.81, 10.67' LT	3733.15	PRC	
17	STA 7+71.00, 1.06' RT	3733.22	1/2Δ	95 FT

FC = FACE OF CURB
TP = TOP OF PAVEMENT
PC = POINT OF CURVATURE
PRC = POINT OF REVERSE CURVATURE
1/2 Δ = MID POINT
PT = POINT OF TANGENCY



RAMP GRADING DETAILS
SCALE: 1" = 10'

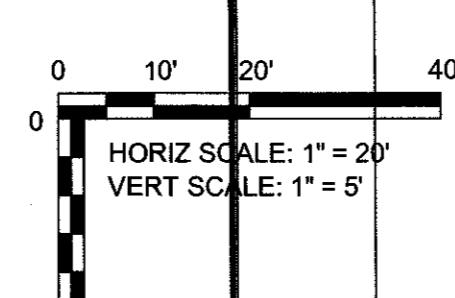
HIGH PT. STA: 1+46.59
HIGH PT. ELEV: 3732.74
PVI STA: 1+40.00
PVI ELEV: 3732.79
K: 7.83
23.00' VC



SOUTHWEST CURB PROFILE (FACE OF GUTTER PAN)
SCALE: 1" = 20' HORIZ
1" = 5' VERT

ROAD AND SIDEWALK CONSTRUCTION NOTES:

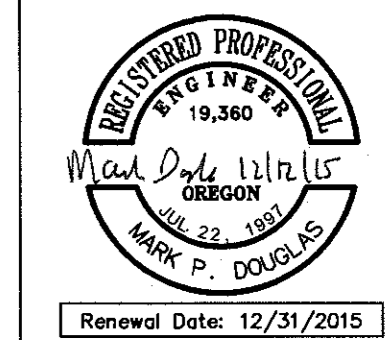
- 1 STA 0+27.06 - 2+40.11
CONSTRUCT HIGH STRENGTH CONCRETE CURB AND GUTTER - 211 LF
(SEE DETAIL 2/SD-06)
- 2 STA 0+27.06 - 2+40.11
CONSTRUCT ROUNDABOUT CONCRETE SHARED PATH
CONCRETE WALKS - 1,933 SF
STAMPED CONCRETE - 996 SF
(SEE DETAIL 5/SD-06)
- 3 CONSTRUCT PERPENDICULAR CURB RAMP - 263 SF
(SEE COB DRG R-6A)
REFER TO GRADING DETAIL, THIS SHEET



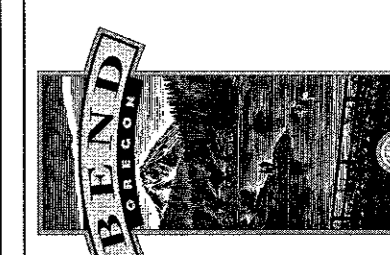
RECORD DRAWING CERTIFICATION

I CERTIFY THAT THIS PROJECT HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE CITY APPROVED PLANS AND THE CITY OF BEND PUBLIC IMPROVEMENT CONSTRUCTION PROCEDURE STANDARD AND SPECIFICATIONS, DATED JULY 1, 2011. THIS CERTIFICATION IS BASED ON PERIODIC INSPECTIONS PERFORMED BY ME OR BY REPRESENTATIVES UNDER MY DIRECT SUPERVISION AND INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND OTHER INDEPENDENT TESTING AND INSPECTION AGENCIES. THE INFORMATION PROVIDED BY OTHERS HAS BEEN ASSUMED TO BE CORRECT AND HAS NOT BE VERIFIED BY THE ENGINEER. THIS CERTIFICATION INDICATES THAT I HAVE REVIEWED THIS INFORMATION AND VERIFIED THAT ANY REVISION(S) OR CHANGES AS DEFINED BY THE RECORD DO NOT APPEAR TO BE ADVERSE TO THE PLANNED USE AND/OR INTENT OF THE ORIGINAL DESIGN.

Signature: *Mark P. Douglas*
Date: *04/21/2014*



REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
SOUTHWEST CURB PLAN & PROFILE
CITY OF BEND, OREGON



REVISIONS:
1. MPD 12/09/2015
RECORD DRAWING

HWA SURVEYORS, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC
4293 O.B. NILEY ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541.389.9351 FAX: 541.388.5416

DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

VERIFY SCALES
0 1" BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET: RA-05

COB # ST12CJ

CONTRACTOR TO CLEAN AND TEST EXISTING DRYWELL PRIOR TO CONCRETE PAVING AND CURB CONSTRUCTION. REPORT RESULTS TO ENGINEER.

BASIN A1 IMPERVIOUS = 9,758 SF (0.22 Ac)

DRYWELL TESTING

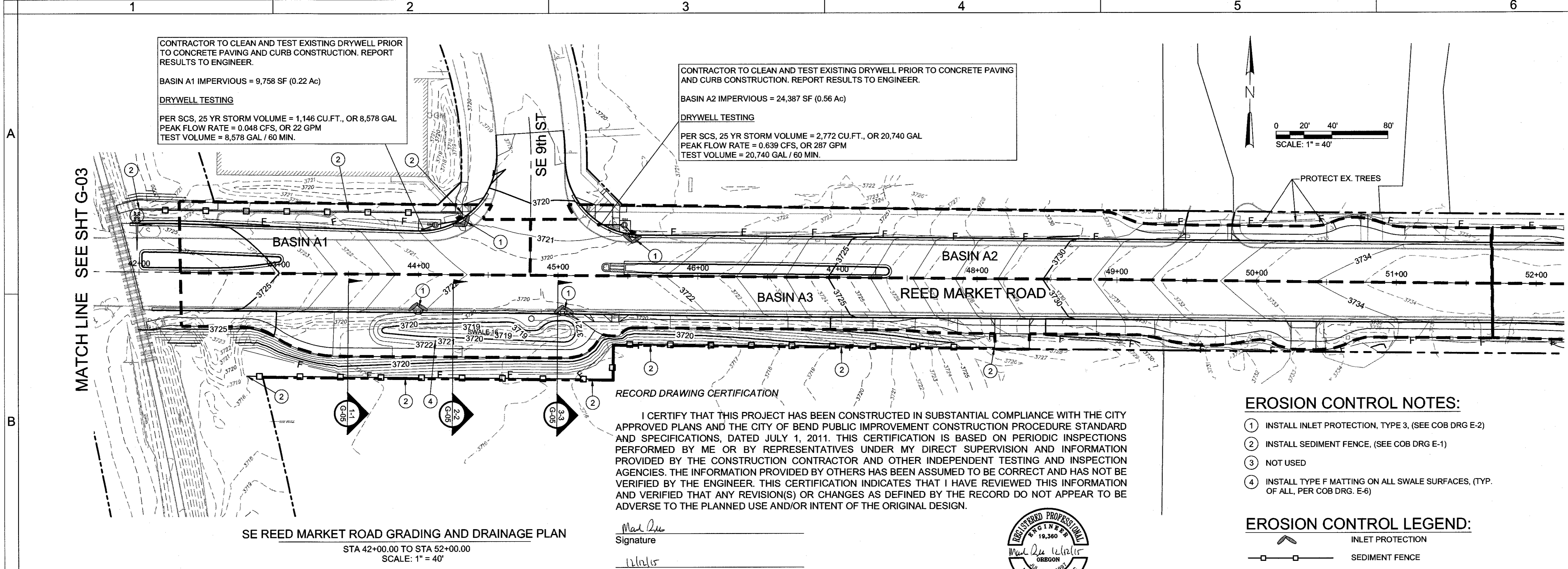
PER SCS, 25 YR STORM VOLUME = 1,146 CU.FT., OR 8,578 GAL
 PEAK FLOW RATE = 0.048 CFS, OR 22 GPM
 TEST VOLUME = 8,578 GAL / 60 MIN.

CONTRACTOR TO CLEAN AND TEST EXISTING DRYWELL PRIOR TO CONCRETE PAVING AND CURB CONSTRUCTION. REPORT RESULTS TO ENGINEER.

BASIN A2 IMPERVIOUS = 24,387 SF (0.56 Ac)

DRYWELL TESTING

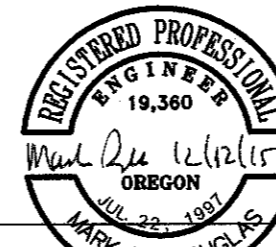
PER SCS, 25 YR STORM VOLUME = 2,772 CU.FT., OR 20,740 GAL
 PEAK FLOW RATE = 0.639 CFS, OR 287 GPM
 TEST VOLUME = 20,740 GAL / 60 MIN.



RECORD DRAWING CERTIFICATION

I CERTIFY THAT THIS PROJECT HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE CITY APPROVED PLANS AND THE CITY OF BEND PUBLIC IMPROVEMENT CONSTRUCTION PROCEDURE STANDARD AND SPECIFICATIONS, DATED JULY 1, 2011. THIS CERTIFICATION IS BASED ON PERIODIC INSPECTIONS PERFORMED BY ME OR BY REPRESENTATIVES UNDER MY DIRECT SUPERVISION AND INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND OTHER INDEPENDENT TESTING AND INSPECTION AGENCIES. THE INFORMATION PROVIDED BY OTHERS HAS BEEN ASSUMED TO BE CORRECT AND HAS NOT BEEN VERIFIED BY THE ENGINEER. THIS CERTIFICATION INDICATES THAT I HAVE REVIEWED THIS INFORMATION AND VERIFIED THAT ANY REVISION(S) OR CHANGES AS DEFINED BY THE RECORD DO NOT APPEAR TO BE ADVERSE TO THE PLANNED USE AND/OR INTENT OF THE ORIGINAL DESIGN.

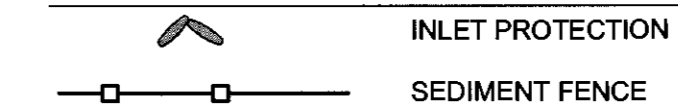
Mark P. Douglas
 Signature
 Date



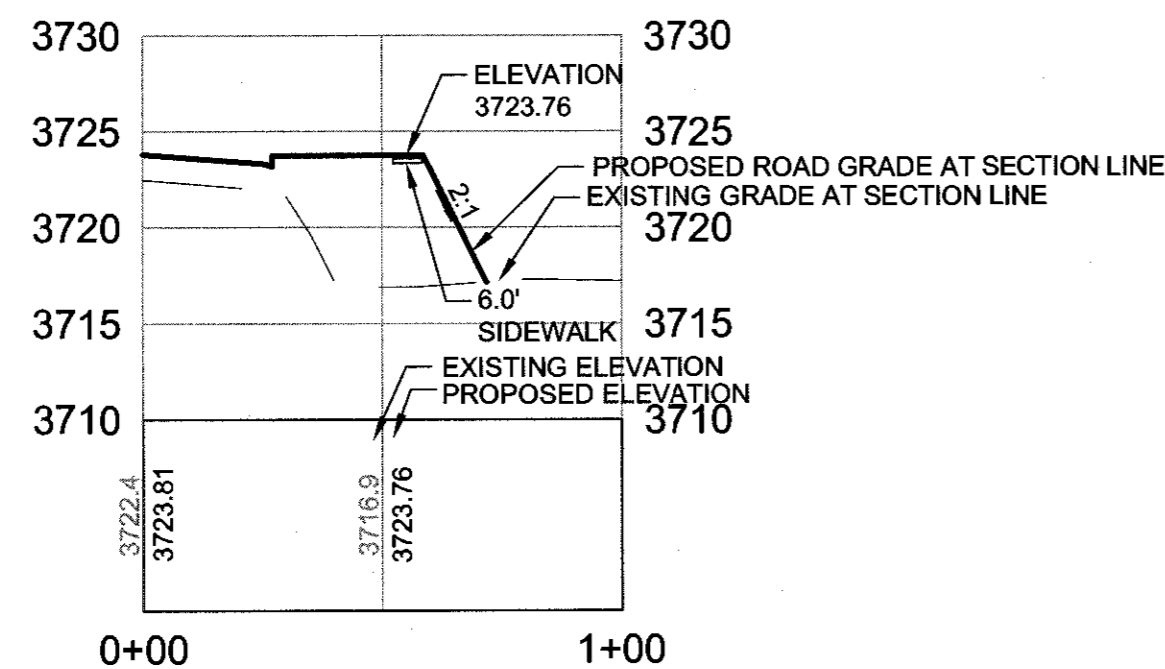
EROSION CONTROL NOTES:

- ① INSTALL INLET PROTECTION, TYPE 3, (SEE COB DRG E-2)
- ② INSTALL SEDIMENT FENCE, (SEE COB DRG E-1)
- ③ NOT USED
- ④ INSTALL TYPE F MATTING ON ALL SWALE SURFACES, (TYP. OF ALL, PER COB DRG. E-6)

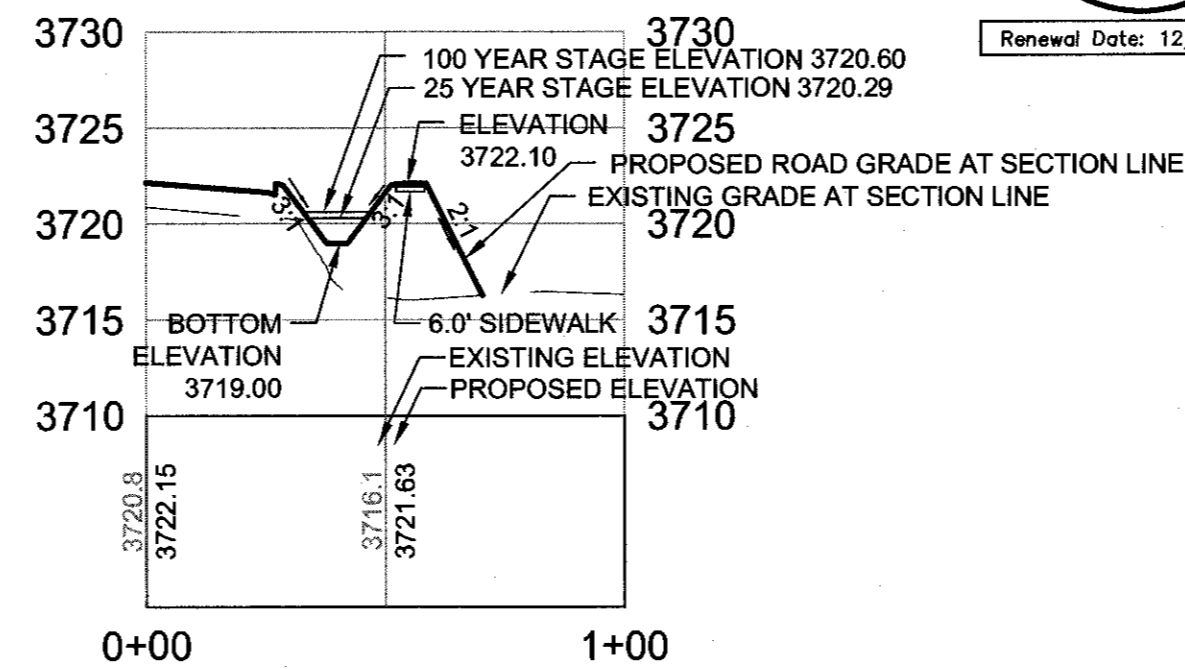
EROSION CONTROL LEGEND:



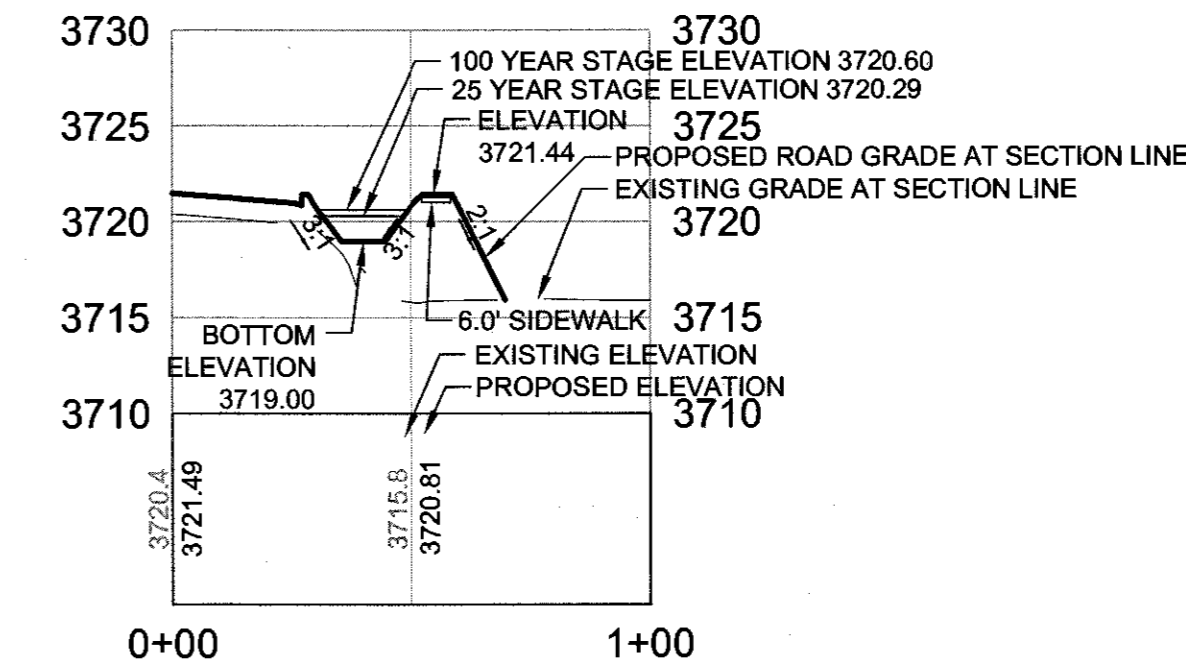
SE REED MARKET ROAD GRADING AND DRAINAGE PLAN
 STA 42+00.00 TO STA 52+00.00
 SCALE: 1" = 40'



**REED MARKET ROAD STA: 43+50.00
 STORMWATER SWALE 16 SECTION**
 SCALE: HORIZONTAL 1"=40'
 VERTICAL 1"=10'



**REED MARKET ROAD STA: 44+25.00
 STORMWATER SWALE 16 SECTION**
 SCALE: HORIZONTAL 1"=40'
 VERTICAL 1"=10'



**REED MARKET ROAD STA: 45+00.00
 STORMWATER SWALE 16 SECTION**
 SCALE: HORIZONTAL 1"=40'
 VERTICAL 1"=10'

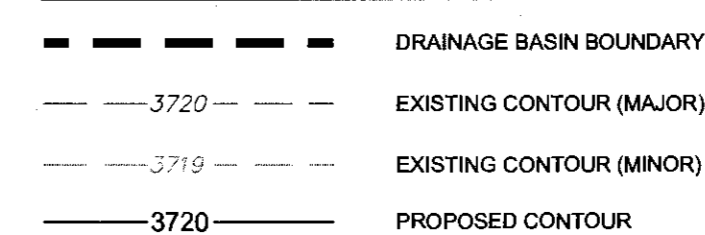
Reed Market Road Stormwater Calculation Summary

BASIN	AREA (SF)	IMPERVIOUS %	Q25 (CFS)	Q100 (CFS)	V25 (CF)	V100 (CF)
A1	12,352	79%	0.338	0.441	1,459	1,891
A2	31,672	77%	0.833	1.098	3,614	4,720
A3	41,668	79%	1.160	1.512	5,002	6,482

EROSION CONTROL GENERAL NOTES:

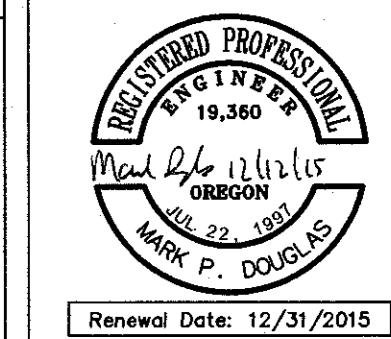
- THE CONTRACTOR IS RESPONSIBLE FOR THE ADJUSTMENT, MAINTENANCE, AND ANY UPGRADING OF THESE EROSION CONTROL FACILITIES FOR THE DURATION OF THE PROJECT
- THE EROSION CONTROL MEASURES SHOWN ON THIS PLAN ARE FOR ANTICIPATED SITE CONDITIONS, AND ARE THE MINIMUM ANTICIPATED MEASURES NEEDED. THE CONTRACTOR WILL BE RESPONSIBLE FOR ADJUSTING OR UPGRADING THESE MEASURES AS NEEDED TO DEAL WITH VARYING CONDITIONS, TO ENSURE THAT SEDIMENT OR SEDIMENT LADEN WATERS DO NOT LEAVE THE SITE.
- THE CONTRACTOR SHALL DEVELOP A REVISED PLAN OF THE EROSION CONTROL MEASURES PROPOSED AS REQUIRED BY SECTION 00280. IMPLEMENT THIS PLAN FOR ALL CLEARING AND GRADING OPERATIONS.
- INSTALL EROSION CONTROL MEASURES WITHIN RIGHT-OF-WAY UNLESS DIRECTED OTHERWISE.
- INSTALL CONSTRUCTION ENTRANCES AT THE BEGINNING OF CONSTRUCTION AND MAINTAIN FOR THE DURATION THIS APPLIES TO EACH CONSTRUCTION STAGE. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN.
- CONSTRUCT PERIMETER EROSION CONTROL MEASURES DOWNSLOPE OF ANY FILL SLOPES EXCEEDING 18-INCH IN HEIGHT, AT 5-FEET FROM THE TOE OF SLOPE, BUT WITHIN THE RIGHT-OF-WAY.
- PROTECT ALL INLETS DURING CONSTRUCTION TO PREVENT SEDIMENT FROM ENTERING STORM DRAIN SYSTEMS.
- THE USE OF STRAW BALES IS NOT ALLOWED ON THIS PROJECT.

GRADING LEGEND:



GRADING GENERAL NOTES:

- ALL GRADING TO BE PER CITY OF BEND GRADING ORDINANCE
- SEE DEMOLITION PLANS FOR EXISTING TREES TO BE PROTECTED IN PLACE
- CONSTRUCT STORMWATER SWALES PER CITY DETAIL STRM-2 AND SHEET LA-1



REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
 RMR GRADING & DRAINAGE PLAN, STA 42+00 TO 52+00
 CITY OF BEND, OREGON



REVISIONS:

1. MPD 12/09/2015 RECORD DRAWING	2.	3.
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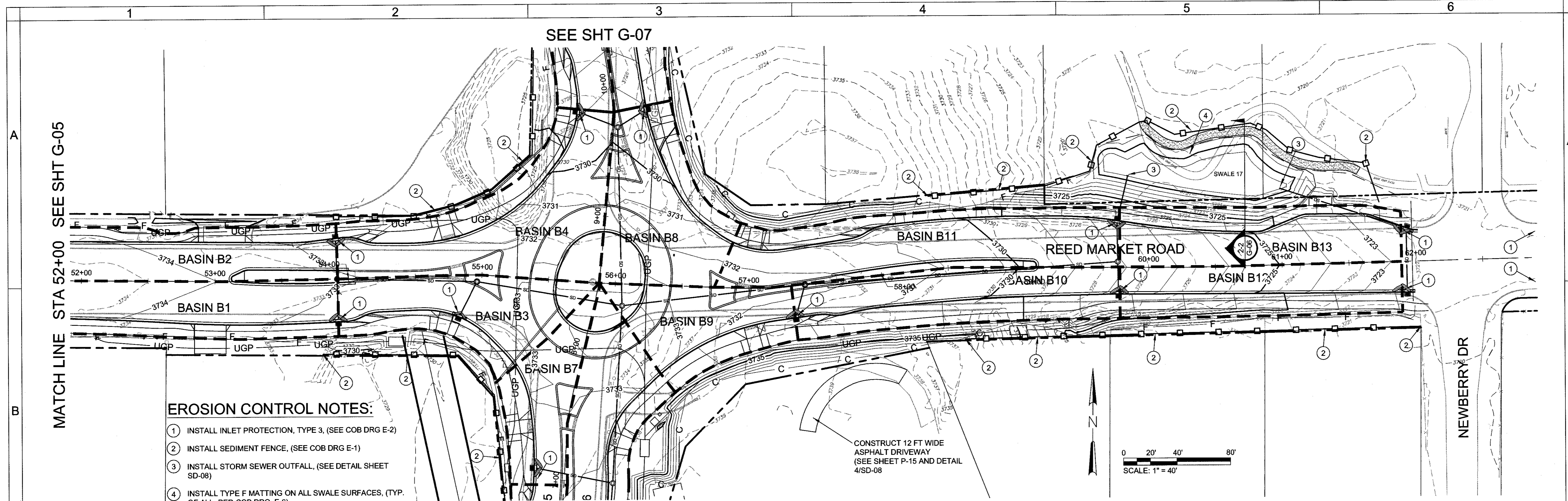
HWA
 SURVEYORS, ENGINEERS
 & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC
 42320 O.B. HILLY ROAD SUITE 100
 BEND, OREGON 97701
 PHONE: 541.389.9351 FAX: 541.388.5416

DESIGNED BY: MD
 DRAWN BY: MD
 SCALE: AS SHOWN
 FILE: REED 15TH BASE
 DATE: 04/21/2014

VERIFY SCALES
 0 1"
 BAR EQUALS ONE INCH
 ON ORIGINAL DRAWING

SHEET:
G-05

COB # ST12CJ



EROSION CONTROL NOTES:

- ① INSTALL INLET PROTECTION, TYPE 3, (SEE COB DRG E-2)
- ② INSTALL SEDIMENT FENCE, (SEE COB DRG E-1)
- ③ INSTALL STORM SEWER OUTFALL, (SEE DETAIL SHEET SD-08)
- ④ INSTALL TYPE F MATTING ON ALL SWALE SURFACES, (TYP. OF ALL, PER COB DRG. E-6)

EROSION CONTROL LEGEND:



SE REED MARKET ROAD GRADING AND DRAINAGE PLAN

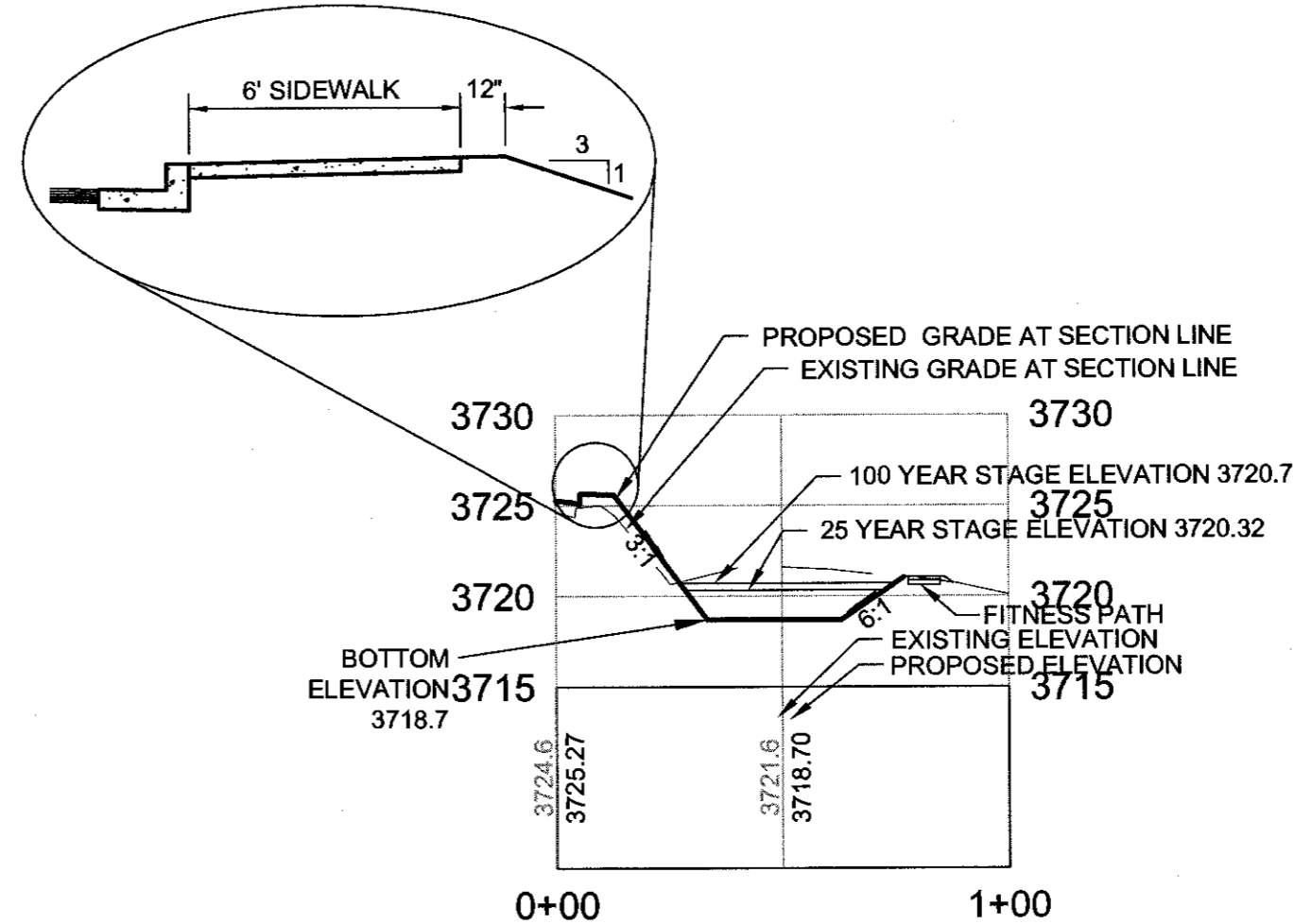
STA 52+00.00 TO STA 62+00.00
SCALE: 1" = 40'

Reed Market Road Stormwater Calculation Summary

BASIN	AREA (SF)	IMPERVIOUS %	Q25 (CFS)	Q100 (CFS)	V25 (CF)	V100 (CF)
B1	9,290	90%	0.311	0.389	1,336	1,680
B2	8,821	92%	0.309	0.383	1,336	1,667
B3	8,588	93%	0.309	0.383	1,336	1,667
B4	14,112	93%	0.495	0.613	2,138	2,667
B5	4,070	90%	0.133	0.167	573	720
B6	11,962	96%	0.402	0.494	1,754	2,171
B7	5,665	93%	0.201	0.249	869	1,084
B8	9,751	89%	0.326	0.407	1,400	1,759
B9	7,140	81%	0.204	0.263	877	1,128
B10	9,818	76%	0.263	0.346	1,139	1,487
B11	12,982	100%	0.513	0.621	2,318	2,826
B12	7,996	71%	0.182	0.246	803	1,065
B13	9,100	87%	0.297	0.375	1,272	1,611
B	119,295	89%	4.028	5.037	17,304	21,754

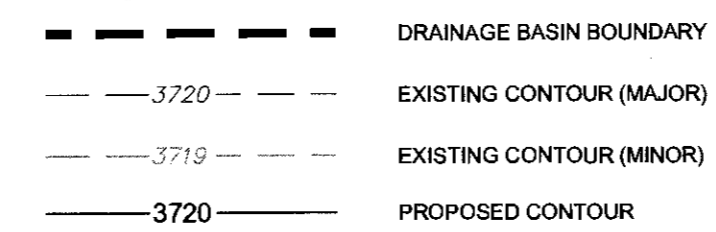
EROSION CONTROL GENERAL NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR THE ADJUSTMENT, MAINTENANCE, AND ANY UPGRADING OF THESE EROSION CONTROL FACILITIES FOR THE DURATION OF THE PROJECT.
- THE EROSION CONTROL MEASURES SHOWN ON THIS PLAN ARE FOR ANTICIPATED SITE CONDITIONS, AND ARE THE MINIMUM ANTICIPATED MEASURES NEEDED. THE CONTRACTOR WILL BE RESPONSIBLE FOR ADJUSTING OR UPGRADING THESE MEASURES AS NEEDED TO DEAL WITH VARYING CONDITIONS, TO ENSURE THAT SEDIMENT OR SEDIMENT LADEN WATERS DO NOT LEAVE THE SITE.
- THE CONTRACTOR SHALL DEVELOP A REVISED PLAN OF THE EROSION CONTROL MEASURES PROPOSED AS REQUIRED BY SECTION 00280. IMPLEMENT THIS PLAN FOR ALL CLEARING AND GRADING OPERATIONS.
- INSTALL EROSION CONTROL MEASURES WITHIN RIGHT-OF-WAY UNLESS DIRECTED OTHERWISE.
- INSTALL CONSTRUCTION ENTRANCES AT THE BEGINNING OF CONSTRUCTION AND MAINTAIN FOR THE DURATION. THIS APPLIES TO EACH CONSTRUCTION STAGE. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN.
- CONSTRUCT PERIMETER EROSION CONTROL MEASURES DOWNSLOPE OF ANY FILL SLOPES EXCEEDING 18-INCH IN HEIGHT, AT 5-FEET FROM THE TOE OF SLOPE, BUT WITHIN THE RIGHT-OF-WAY.
- PROTECT ALL INLETS DURING CONSTRUCTION TO PREVENT SEDIMENT FROM ENTERING STORM DRAIN SYSTEMS.
- THE USE OF STRAW BALES IS NOT ALLOWED ON THIS PROJECT.



REED MARKET ROAD STA: 60+75.00
STORMWATER SWALE 17 SECTION
SCALE: HORIZONTAL 1"=40'
VERTICAL 1"=10'

GRADING LEGEND:



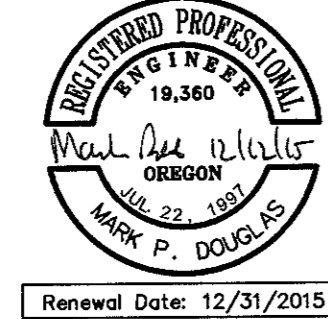
GRADING NOTES:

- ALL GRADING TO BE PER CITY OF BEND GRADING ORDINANCE
- SEE DEMOLITION PLANS FOR EXISTING TREES TO BE PROTECTED IN PLACE
- CONSTRUCT STORMWATER SWALES PER CITY DETAIL STRM-2 AND SHEET LA-1

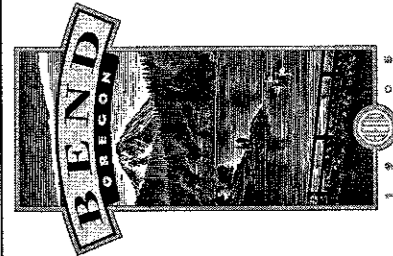
RECORD DRAWING CERTIFICATION

I CERTIFY THAT THIS PROJECT HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE CITY APPROVED PLANS AND THE CITY OF BEND PUBLIC IMPROVEMENT CONSTRUCTION PROCEDURE STANDARD AND SPECIFICATIONS, DATED JULY 1, 2011. THIS CERTIFICATION IS BASED ON PERIODIC INSPECTIONS PERFORMED BY ME OR BY REPRESENTATIVES UNDER MY DIRECT SUPERVISION AND INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND OTHER INDEPENDENT TESTING AND INSPECTION AGENCIES. THE INFORMATION PROVIDED BY OTHERS HAS BEEN ASSUMED TO BE CORRECT AND HAS NOT BE VERIFIED BY THE ENGINEER. THIS CERTIFICATION INDICATES THAT I HAVE REVIEWED THIS INFORMATION AND VERIFIED THAT ANY REVISION(S) OR CHANGES AS DEFINED BY THE RECORD DO NOT APPEAR TO BE ADVERSE TO THE PLANNED USE AND/OR INTENT OF THE ORIGINAL DESIGN.

Signature: *Mark P. Douglas*
Date: 12/16



REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
RMR GRADING & DRAINAGE PLAN, STA 52+00 TO 62+00
CITY OF BEND, OREGON



REVISIONS:
1. MPD 12/09/2015 RECORD DRAWING

HWA SURVEYORS, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC
62980 N. BUEY ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541.389.9351 FAX: 541.388.5416

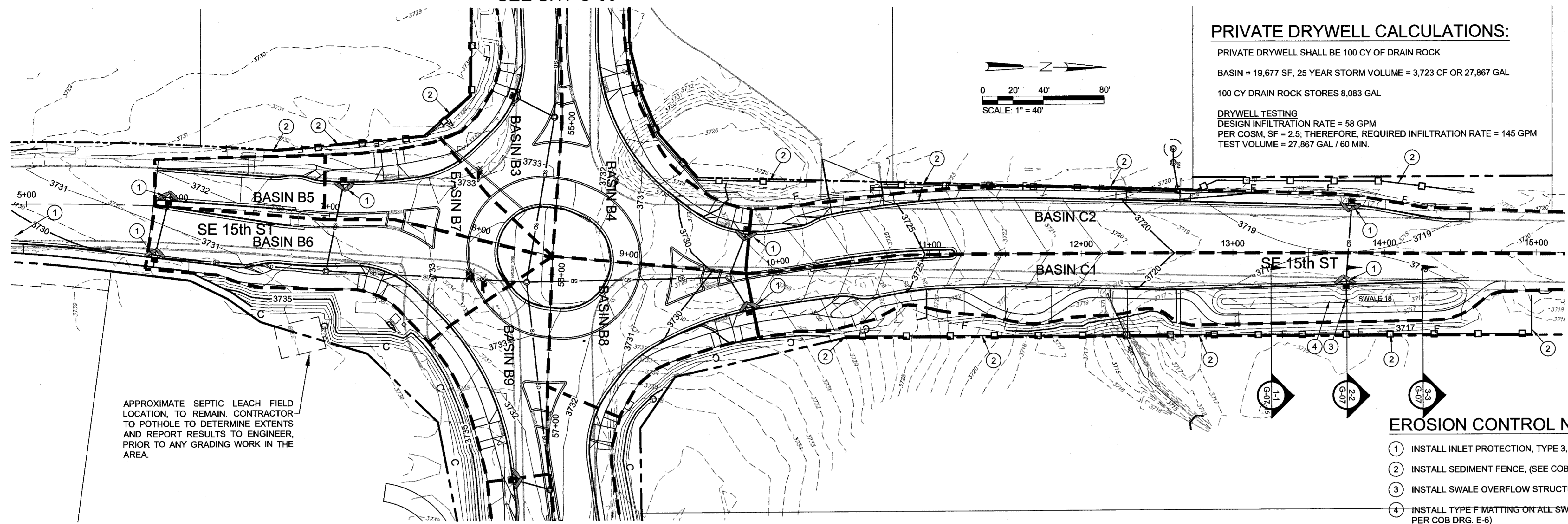
DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED-15TH BASE
DATE: 04/21/2014

VERIFY SCALES
0 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET: **G-06**

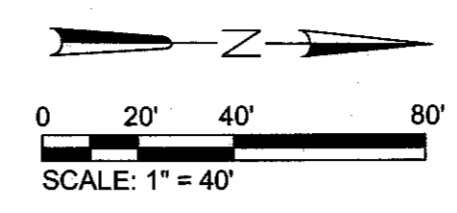
COB # ST12CJ

SEE SHT G-06



PRIVATE DRYWELL CALCULATIONS:
 PRIVATE DRYWELL SHALL BE 100 CY OF DRAIN ROCK
 BASIN = 19,677 SF, 25 YEAR STORM VOLUME = 3,723 CF OR 27,867 GAL
 100 CY DRAIN ROCK STORES 8,083 GAL
 DRYWELL TESTING
 DESIGN INFILTRATION RATE = 58 GPM
 PER COSM, SF = 2.5, THEREFORE, REQUIRED INFILTRATION RATE = 145 GPM
 TEST VOLUME = 27,867 GAL / 60 MIN.

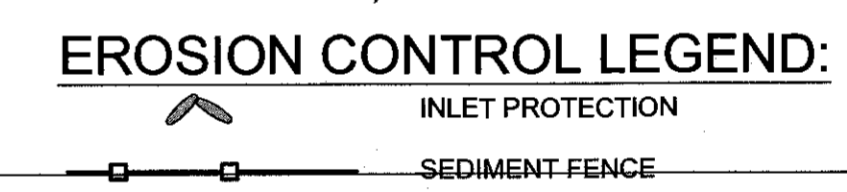
APPROXIMATE SEPTIC LEACH FIELD LOCATION, TO REMAIN. CONTRACTOR TO POTHOLE TO DETERMINE EXTENTS AND REPORT RESULTS TO ENGINEER, PRIOR TO ANY GRADING WORK IN THE AREA.



SEE SHT G-06

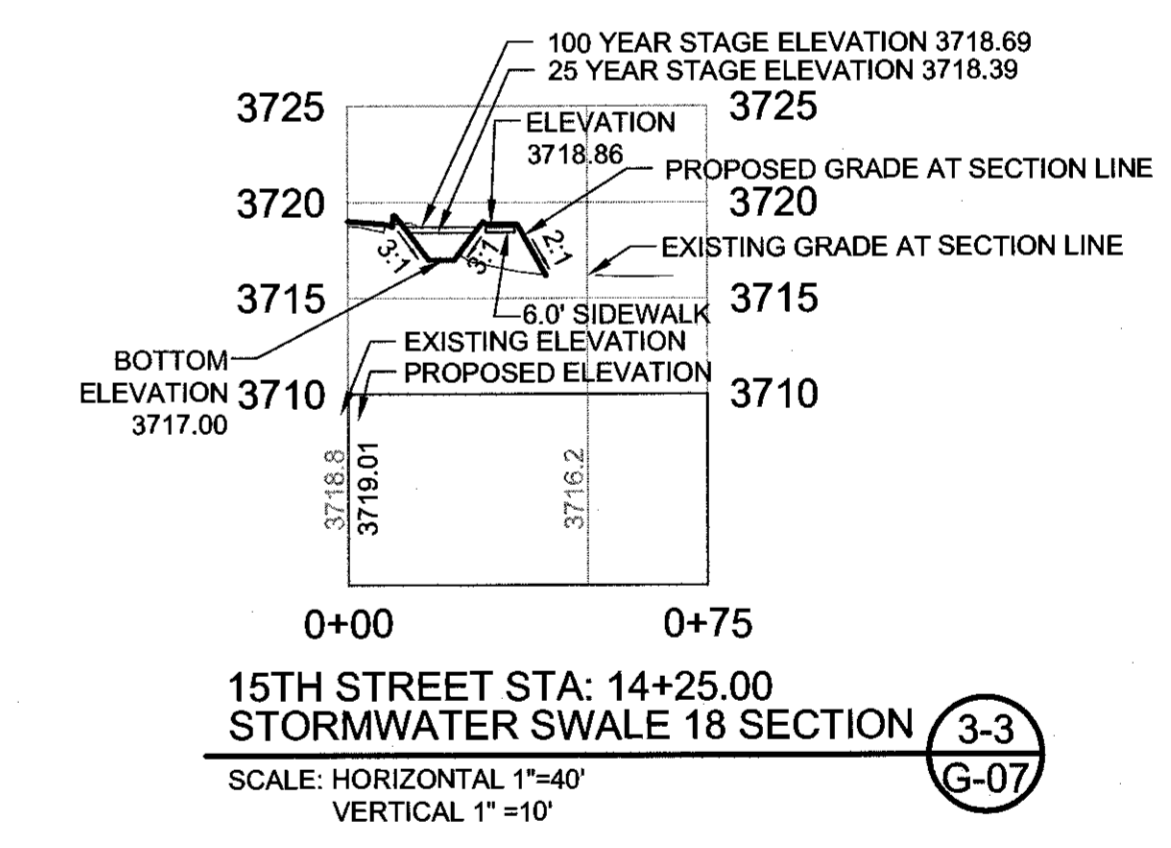
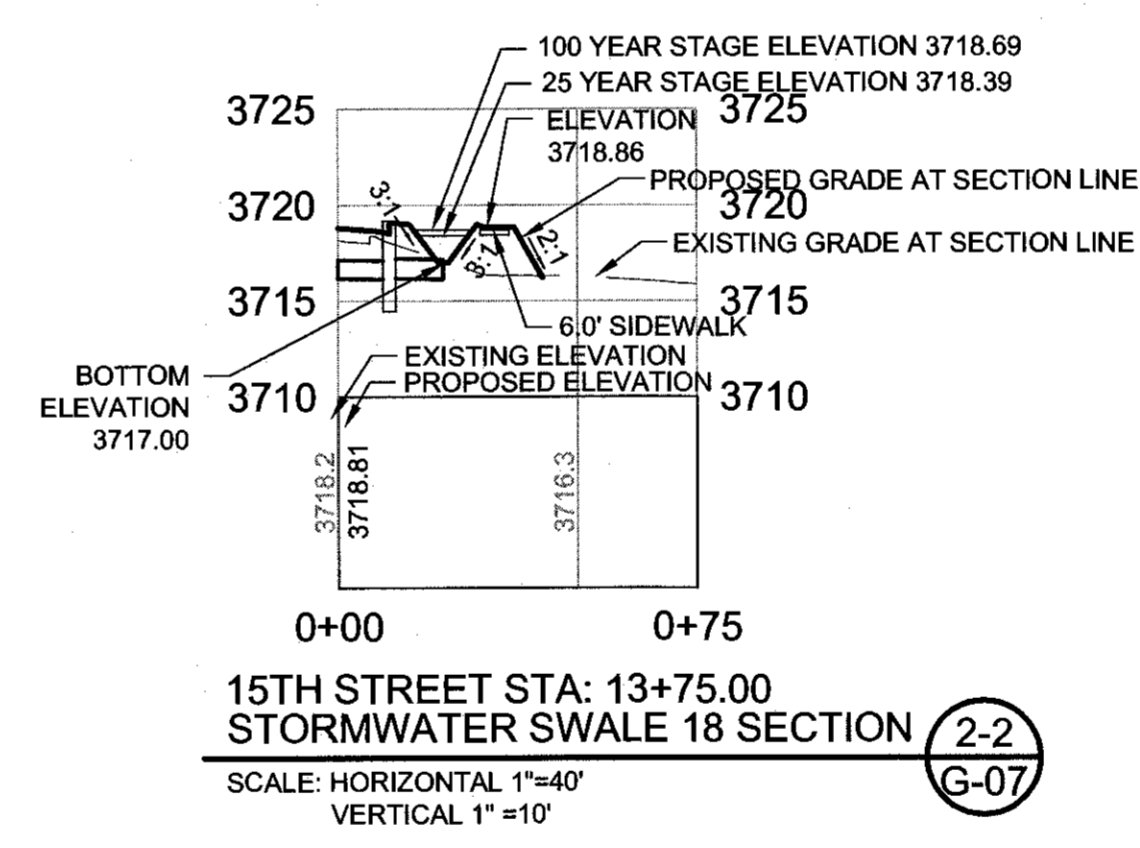
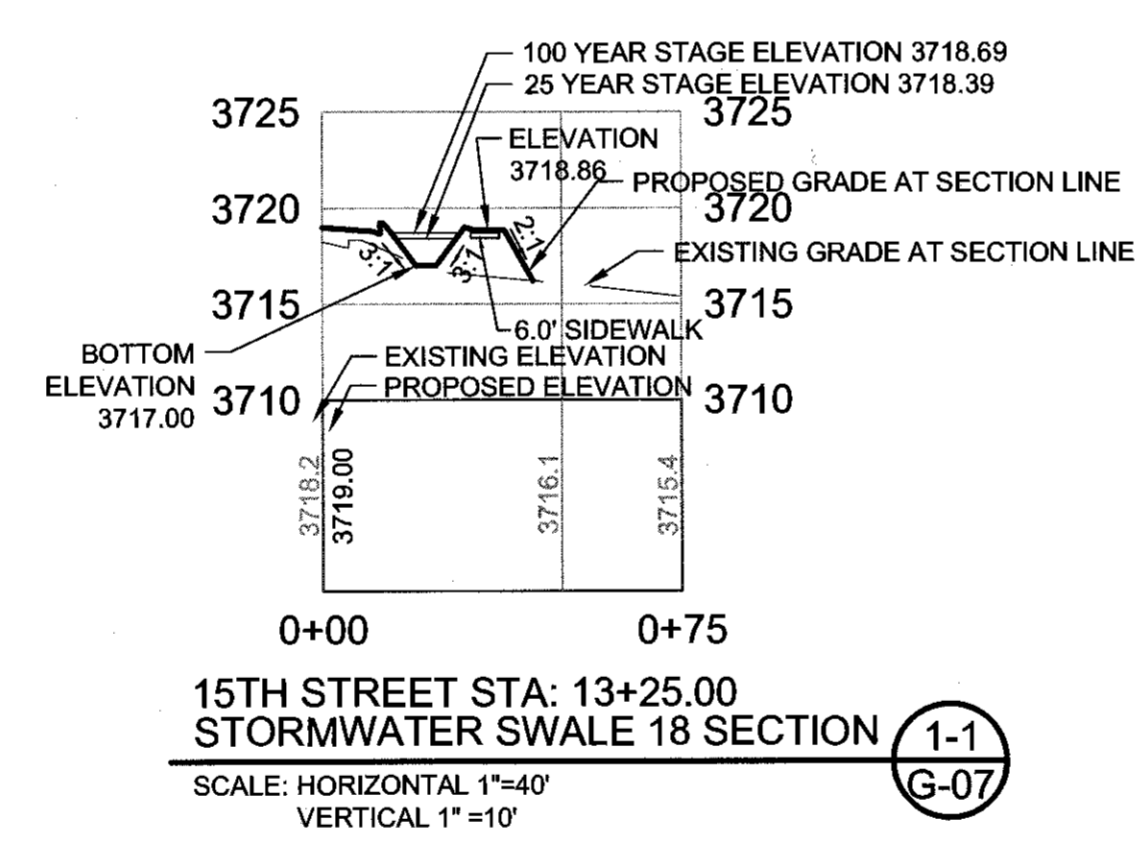
SE 15TH STREET GRADING AND DRAINAGE PLAN
 STA 4+00.00 TO STA 15+00.00
 SCALE: 1" = 40'

- EROSION CONTROL NOTES:**
- INSTALL INLET PROTECTION, TYPE 3, (SEE COB DRG E-2)
 - INSTALL SEDIMENT FENCE, (SEE COB DRG E-1)
 - INSTALL SWALE OVERFLOW STRUCTURE, (SEE DETAIL 3/SD-05)
 - INSTALL TYPE F MATTING ON ALL SWALE SURFACES, (TYP. OF ALL, PER COB DRG. E-6)



Reed Market Rd. - 15th St. Stormwater Calculation Summary

BASIN	AREA (SF)	IMPERVIOUS %	Q25 (CFS)	Q100 (CFS)	V25 (CF)	V100 (CF)
C1	23,195	75%	0.605	0.797	2,624	3,427
C2	23,042	100%	0.907	1.096	4,096	4,993
C	46,237	87%	1.498	1.892	6,419	8,131



EROSION CONTROL GENERAL NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR THE ADJUSTMENT, MAINTENANCE, AND ANY UPGRADING OF THESE EROSION CONTROL FACILITIES FOR THE DURATION OF THE PROJECT
- THE EROSION CONTROL MEASURES SHOWN ON THIS PLAN ARE FOR ANTICIPATED SITE CONDITIONS, AND ARE THE MINIMUM ANTICIPATED MEASURES NEEDED. THE CONTRACTOR WILL BE RESPONSIBLE FOR ADJUSTING OR UPGRADING THESE MEASURES AS NEEDED TO DEAL WITH VARYING CONDITIONS, TO ENSURE THAT SEDIMENT OR SEDIMENT LADEN WATERS DO NOT LEAVE THE SITE.
- THE CONTRACTOR SHALL DEVELOP A REVISED PLAN OF THE EROSION CONTROL MEASURES PROPOSED AS REQUIRED BY SECTION 00260. IMPLEMENT THIS PLAN FOR ALL CLEARING AND GRADING OPERATIONS.
- INSTALL EROSION CONTROL MEASURES WITHIN RIGHT-OF-WAY UNLESS DIRECTED OTHERWISE.
- INSTALL CONSTRUCTION ENTRANCES AT THE BEGINNING OF CONSTRUCTION AND MAINTAIN FOR THE DURATION. THIS APPLIES TO EACH CONSTRUCTION STAGE. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN.
- CONSTRUCT PERIMETER EROSION CONTROL MEASURES DOWNSLOPE OF ANY FILL SLOPES EXCEEDING 18-INCH IN HEIGHT, AT 5-FEET FROM THE TOE OF SLOPE, BUT WITHIN THE RIGHT-OF-WAY.
- PROTECT ALL INLETS DURING CONSTRUCTION TO PREVENT SEDIMENT FROM ENTERING STORM DRAIN SYSTEMS.
- THE USE OF STRAW BALES IS NOT ALLOWED ON THIS PROJECT.

RECORD DRAWING CERTIFICATION

I CERTIFY THAT THIS PROJECT HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE CITY APPROVED PLANS AND THE CITY OF BEND PUBLIC IMPROVEMENT CONSTRUCTION PROCEDURE STANDARD AND SPECIFICATIONS, DATED JULY 1, 2011. THIS CERTIFICATION IS BASED ON PERIODIC INSPECTIONS PERFORMED BY ME OR BY REPRESENTATIVES UNDER MY DIRECT SUPERVISION AND INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND OTHER INDEPENDENT TESTING AND INSPECTION AGENCIES. THE INFORMATION PROVIDED BY OTHERS HAS BEEN ASSUMED TO BE CORRECT AND HAS NOT BEEN VERIFIED BY THE ENGINEER. THIS CERTIFICATION INDICATES THAT I HAVE REVIEWED THIS INFORMATION AND VERIFIED THAT ANY REVISION(S) OR CHANGES AS DEFINED BY THE RECORD DO NOT APPEAR TO BE ADVERSE TO THE PLANNED USE AND/OR INTENT OF THE ORIGINAL DESIGN.

Signature: *Mark P. Douglas*
 Date: _____

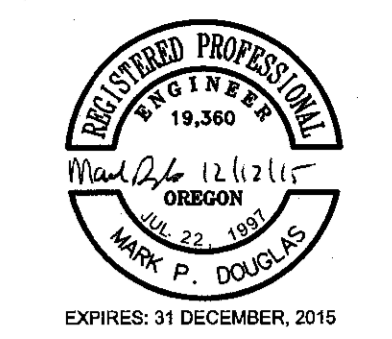


GRADING LEGEND:

- DRAINAGE BASIN BOUNDARY
- 3720 --- EXISTING CONTOUR (MAJOR)
- 3719 --- EXISTING CONTOUR (MINOR)
- 3720 --- PROPOSED CONTOUR

GRADING NOTES:

- ALL GRADING TO BE PER CITY OF BEND GRADING ORDINANCE
- SEE DEMOLITION PLANS FOR EXISTING TREES TO BE PROTECTED IN PLACE
- CONSTRUCT STORMWATER SWALES PER CITY DETAIL STRM-2 AND SHEET LA-1



REED MARKET ROAD
 3RD STREET TO NEWBERRY DRIVE
 15TH ST GRADING & DRAINAGE PLAN, STA 5+00 TO 15+00
 CITY OF BEND, OREGON



REVISIONS:

1	MPD 12/09/2015	RECORD DRAWING
2		
3		

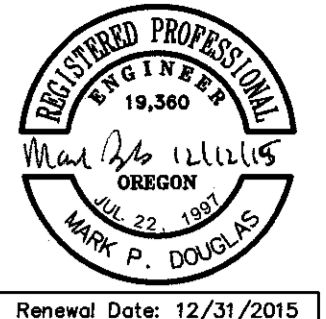
HWA SURVEYORS, ENGINEERS & PLANNERS
 HICKMAN, WILLIAMS & ASSOCIATES, INC.
 42930 O.B. WILEY ROAD SUITE 100
 BEND, OREGON 97701
 PHONE: 541.389.9351 FAX: 541.388.5416

DESIGNED BY: MD
 DRAWN BY: MD
 SCALE: AS SHOWN
 FILE: REED 15TH BASE
 DATE: 04/21/2014

VERIFY SCALES
 0 1" BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET: **G-07**

COB # ST12CJ



**REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
RMR CONCRETE JOINTING PLAN**

CITY OF BEND, OREGON



REVISIONS:

1.	MPD 12/09/2015
2.	RECORD DRAWING
3.	

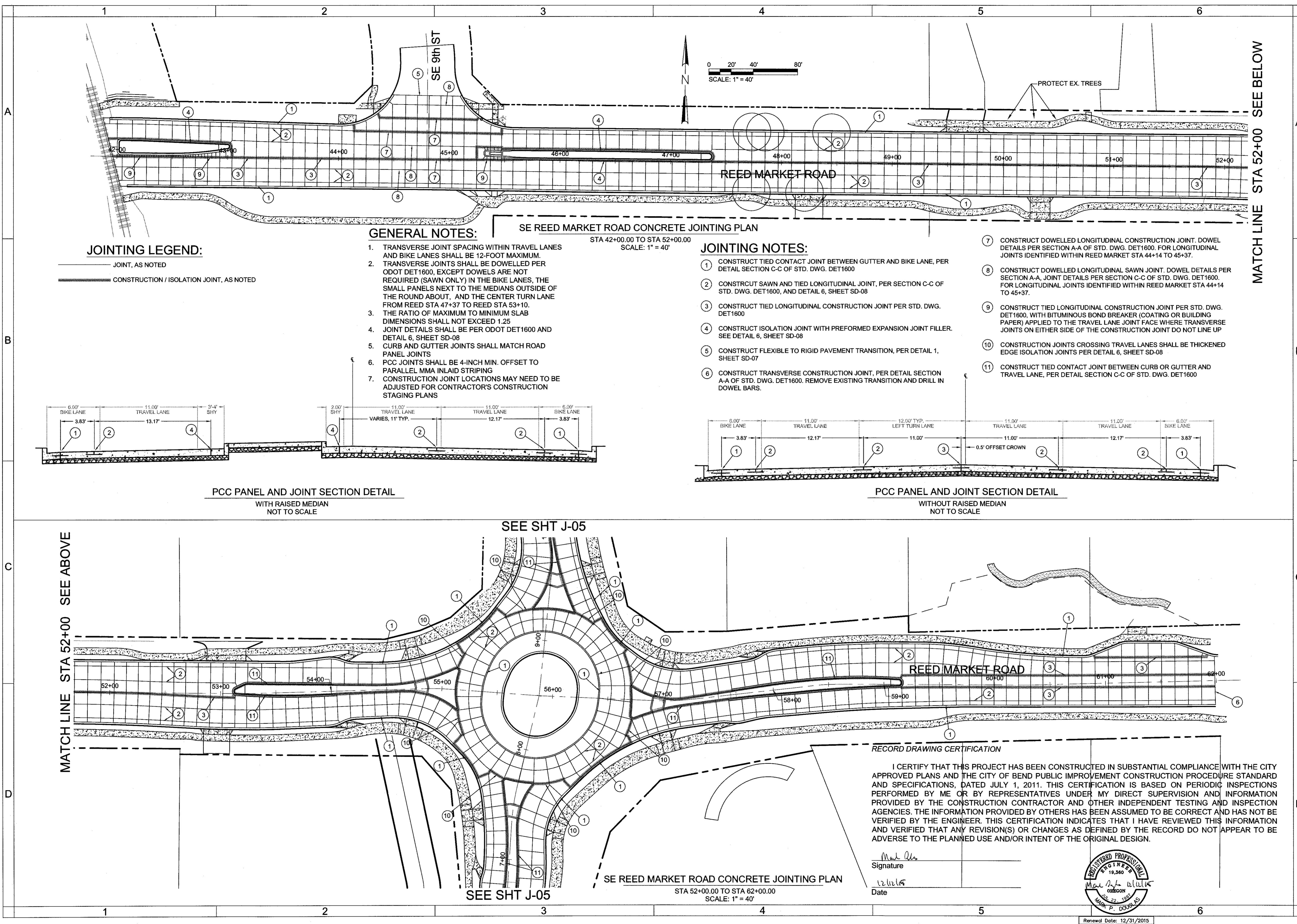
HWA SURVIVORS, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC.
45730 O.B. RILEY ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541.389.7551 FAX: 541.388.5416

DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

VERIFY SCALES
0 1" BAR EQUALS ONE INCH ON ORIGINAL DRAWING
SHEET:

J-04

COB # ST12CJ



JOINTING LEGEND:
 ——— JOINT, AS NOTED
 ——— CONSTRUCTION / ISOLATION JOINT, AS NOTED

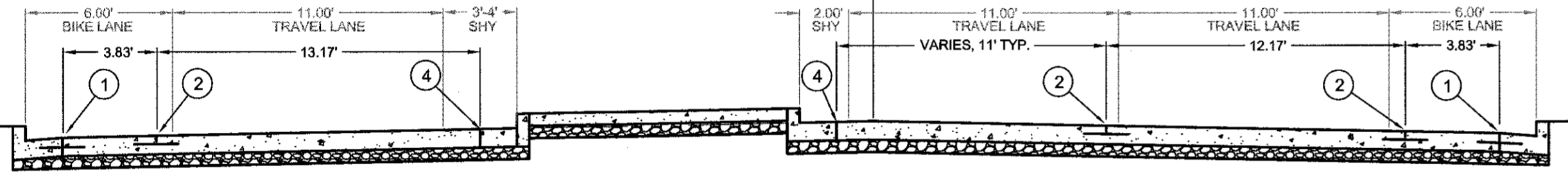
GENERAL NOTES:

1. TRANSVERSE JOINT SPACING WITHIN TRAVEL LANES AND BIKE LANES SHALL BE 12-FOOT MAXIMUM.
2. TRANSVERSE JOINTS SHALL BE DOWELLED PER ODOT DET1600, EXCEPT DOWELS ARE NOT REQUIRED (SAWN ONLY) IN THE BIKE LANES, THE SMALL PANELS NEXT TO THE MEDIANS OUTSIDE OF THE ROUND ABOUT, AND THE CENTER TURN LANE FROM REED STA 47+37 TO REED STA 53+10.
3. THE RATIO OF MAXIMUM TO MINIMUM SLAB DIMENSIONS SHALL NOT EXCEED 1.25
4. JOINT DETAILS SHALL BE PER ODOT DET1600 AND DETAIL 6, SHEET SD-08
5. CURB AND GUTTER JOINTS SHALL MATCH ROAD PANEL JOINTS
6. PCC JOINTS SHALL BE 4-INCH MIN. OFFSET TO PARALLEL MMA INLAID STRIPING
7. CONSTRUCTION JOINT LOCATIONS MAY NEED TO BE ADJUSTED FOR CONTRACTOR'S CONSTRUCTION STAGING PLANS

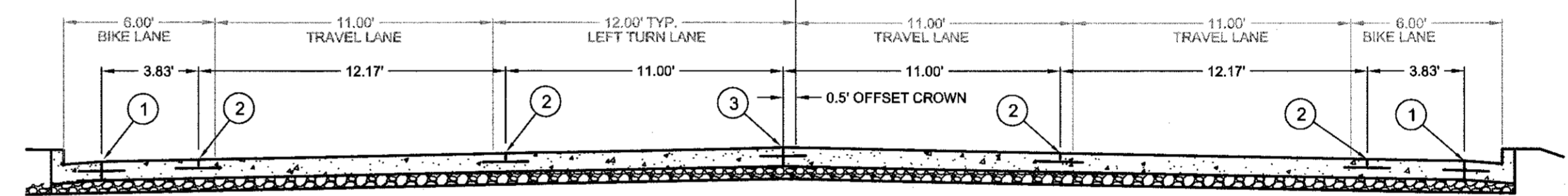
JOINTING NOTES:

1. CONSTRUCT TIED CONTACT JOINT BETWEEN GUTTER AND BIKE LANE, PER DETAIL SECTION C-C OF STD. DWG. DET1600
2. CONSTRUCT SAWN AND TIED LONGITUDINAL JOINT, PER SECTION C-C OF STD. DWG. DET1600, AND DETAIL 6, SHEET SD-08
3. CONSTRUCT TIED LONGITUDINAL CONSTRUCTION JOINT PER STD. DWG. DET1600
4. CONSTRUCT ISOLATION JOINT WITH PREFORMED EXPANSION JOINT FILLER. SEE DETAIL 6, SHEET SD-08
5. CONSTRUCT FLEXIBLE TO RIGID PAVEMENT TRANSITION, PER DETAIL 1, SHEET SD-07
6. CONSTRUCT TRANSVERSE CONSTRUCTION JOINT, PER DETAIL SECTION A-A OF STD. DWG. DET1600. REMOVE EXISTING TRANSITION AND DRILL IN DOWEL BARS.

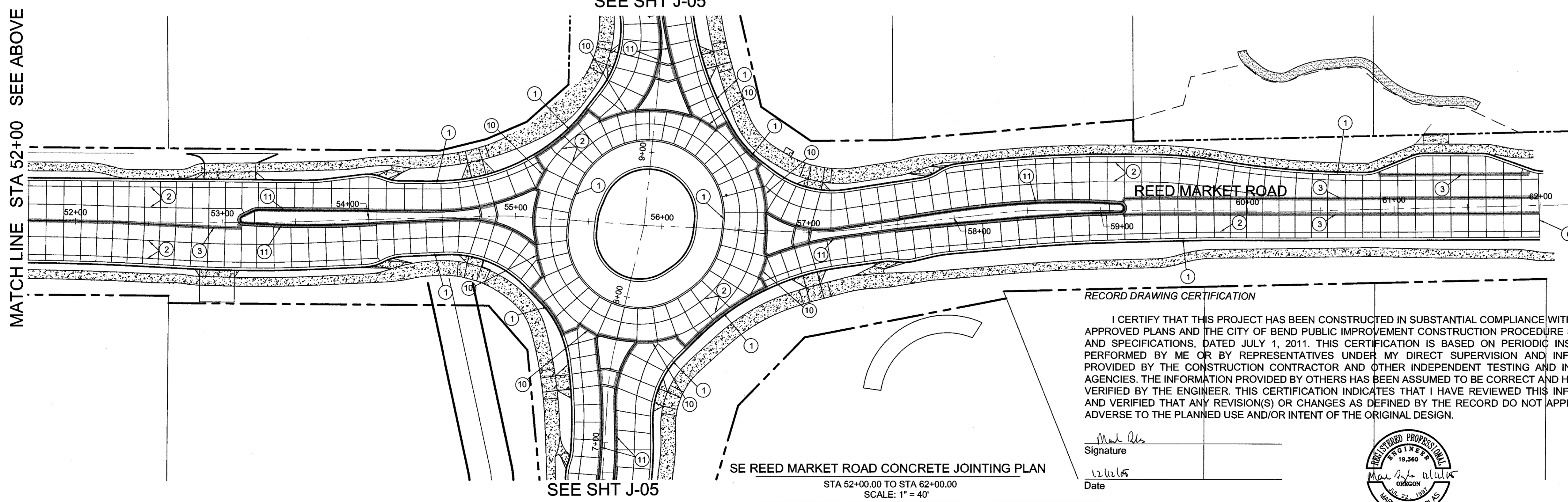
7. CONSTRUCT DOWELLED LONGITUDINAL CONSTRUCTION JOINT. DOWEL DETAILS PER SECTION A-A OF STD. DWG. DET1600. FOR LONGITUDINAL JOINTS IDENTIFIED WITHIN REED MARKET STA 44+14 TO 45+37.
8. CONSTRUCT DOWELLED LONGITUDINAL SAWN JOINT. DOWEL DETAILS PER SECTION A-A, JOINT DETAILS PER SECTION C-C OF STD. DWG. DET1600. FOR LONGITUDINAL JOINTS IDENTIFIED WITHIN REED MARKET STA 44+14 TO 45+37.
9. CONSTRUCT TIED LONGITUDINAL CONSTRUCTION JOINT PER STD. DWG. DET1600. WITH BITUMINOUS BOND BREAKER (COATING OR BUILDING PAPER) APPLIED TO THE TRAVEL LANE JOINT FACE WHERE TRANSVERSE JOINTS ON EITHER SIDE OF THE CONSTRUCTION JOINT DO NOT LINE UP
10. CONSTRUCTION JOINTS CROSSING TRAVEL LANES SHALL BE THICKENED EDGE ISOLATION JOINTS PER DETAIL 6, SHEET SD-08
11. CONSTRUCT TIED CONTACT JOINT BETWEEN CURB OR GUTTER AND TRAVEL LANE, PER DETAIL SECTION C-C OF STD. DWG. DET1600



PCC PANEL AND JOINT SECTION DETAIL
WITH RAISED MEDIAN
NOT TO SCALE



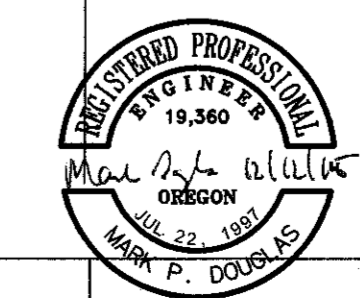
PCC PANEL AND JOINT SECTION DETAIL
WITHOUT RAISED MEDIAN
NOT TO SCALE



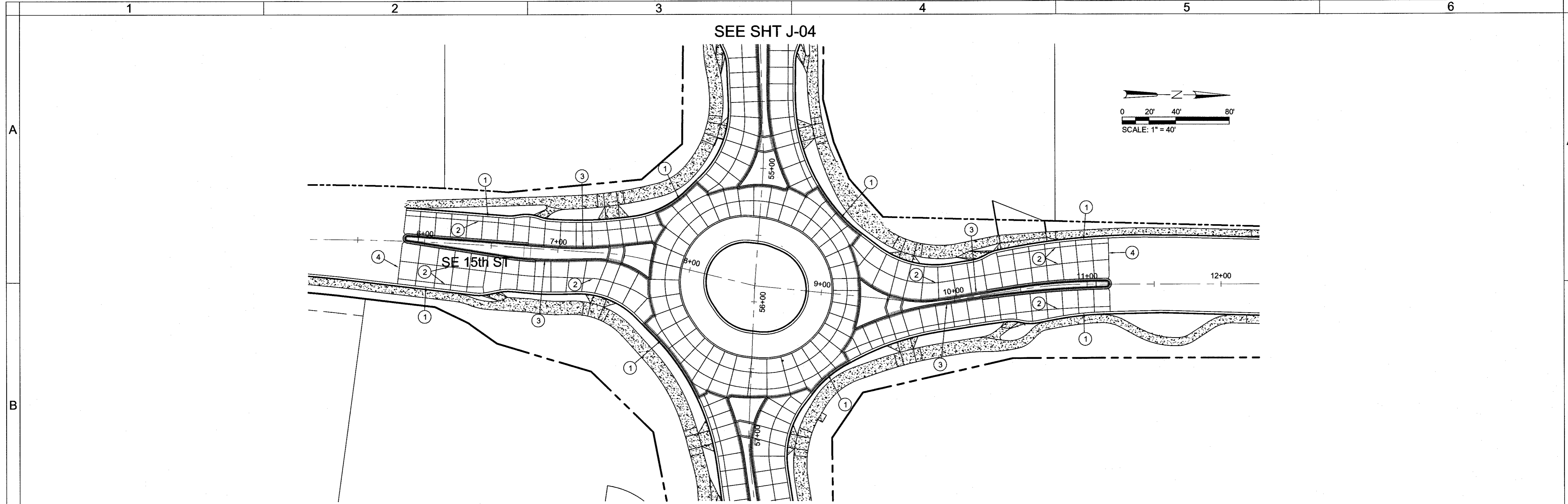
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Signature: *Mark P. Douglas*
Date: *12/15/14*



Renewal Date: 12/31/2015



GENERAL NOTES:

1. TRANSVERSE JOINT SPACING WITHIN TRAVEL LANES AND BIKE LANES SHALL BE 12-FOOT MAXIMUM.
2. TRANSVERSE JOINTS SHALL BE DOWELLED PER ODOT DET1600, EXCEPT DOWELS ARE NOT REQUIRED (SAWN ONLY) IN THE BIKE LANES, THE SMALL PANELS NEXT TO THE MEDIANS OUTSIDE OF THE ROUND ABOUT, AND THE CENTER TURN LANE FROM REED STA 47+37 TO REED STA 53+10.
3. THE RATIO OF MAXIMUM TO MINIMUM SLAB DIMENSIONS SHALL NOT EXCEED 1.25
4. JOINT DETAILS SHALL BE PER ODOT DET1600 AND DETAIL 6, SHEET SD-08
5. CURB AND GUTTER JOINTS SHALL MATCH ROAD PANEL JOINTS
6. PCC JOINTS SHALL BE 4-INCH MIN. OFFSET TO PARALLEL MMA INLAID STRIPING
7. CONSTRUCTION JOINT LOCATIONS MAY NEED TO BE ADJUSTED FOR CONTRACTOR'S CONSTRUCTION STAGING PLANS

15TH STREET CONCRETE JOINTING PLAN

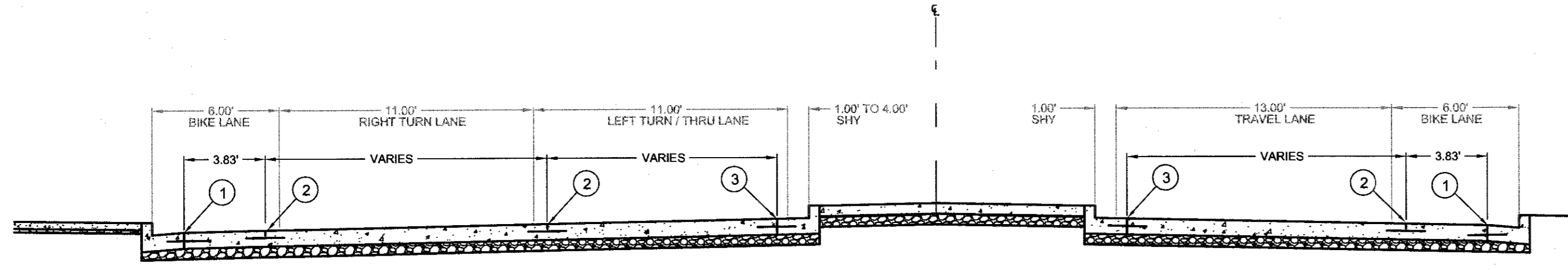
STA 5+50.00 TO STA 11+50.00
SCALE: 1" = 40'

JOINTING NOTES:

1. CONSTRUCT TIED CONTACT JOINT BETWEEN GUTTER AND BIKE LANE, PER DETAIL SECTION C-C OF STD. DWG. DET1600
2. CONSTRUCT SAWN AND TIED LONGITUDINAL JOINT, PER SECTION C-C OF STD. DWG. DET1600, AND DETAIL 6, SHEET SD-08
3. CONSTRUCT TIED CONTACT JOINT BETWEEN CURB OR GUTTER AND TRAVEL LANE, PER DETAIL SECTION C-C OF STD. DWG. DET1600
4. CONSTRUCT FLEXIBLE TO RIGID PAVEMENT TRANSITION, PER DETAIL 1, SHEET SD-07

JOINTING LEGEND:

- JOINT, AS NOTED
- CONSTRUCTION / ISOLATION JOINT, AS NOTED

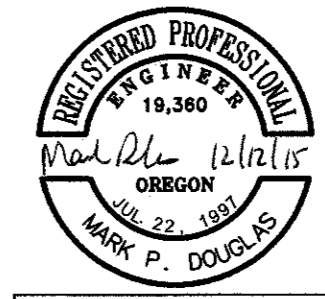


PCC PANEL AND JOINT SECTION DETAIL
WITH SPLITTER ISLAND MEDIAN
NOT TO SCALE

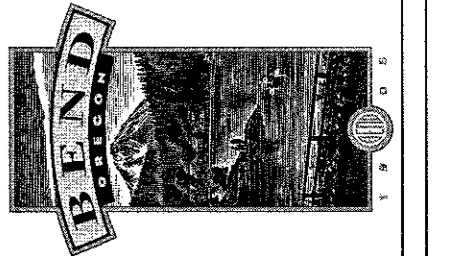
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Signature: *Mark P. Douglas*
Date: 12/31/2015



REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
15TH ST. CONCRETE JOINTING PLAN
CITY OF BEND, OREGON



REVISIONS:

1.	MPD 12/09/2015	RECORD DRAWING
2.		
3.		

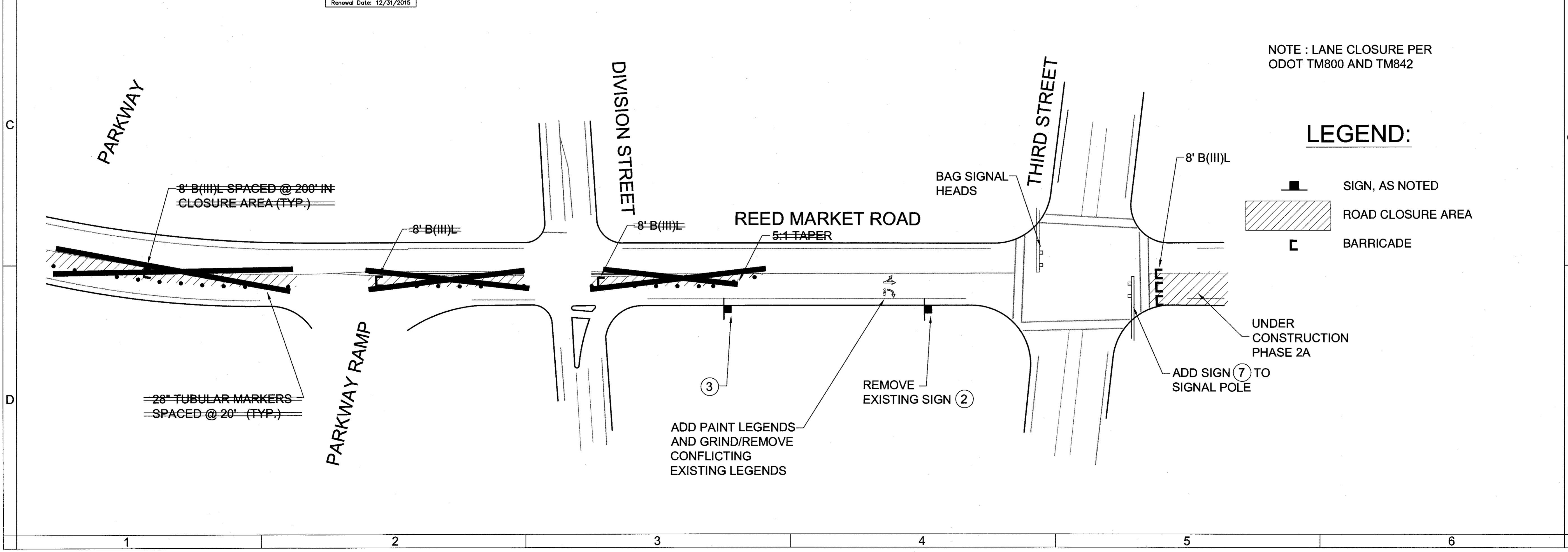
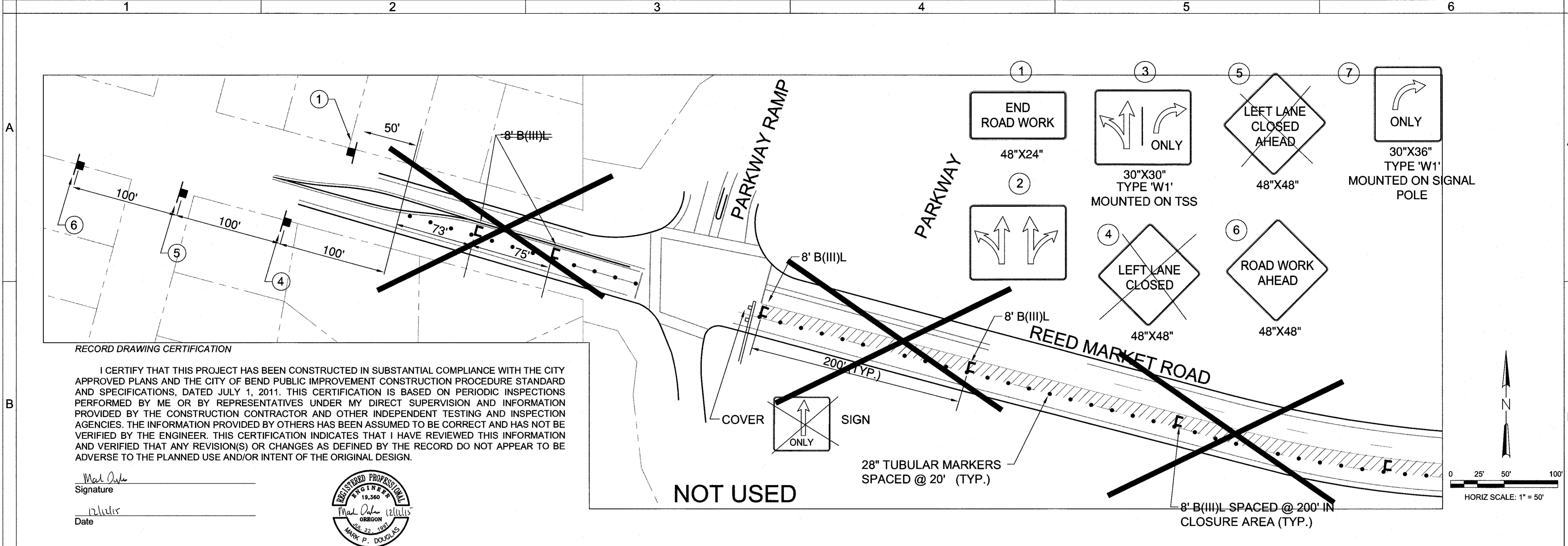
HWA SURVEYORS, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC.
42930 O.B. RILEY ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541.389.9351 FAX: 541.388.5416

DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

VERIFY SCALES
0 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET: **J-05**

COB # ST12CJ



REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
 REED MARKET / THIRD STREET TRAFFIC CONTROL PLAN
 CITY OF BEND, OREGON



REVISIONS:

1.	MPD 12/09/2015	RECORD DRAWING
2.		
3.		

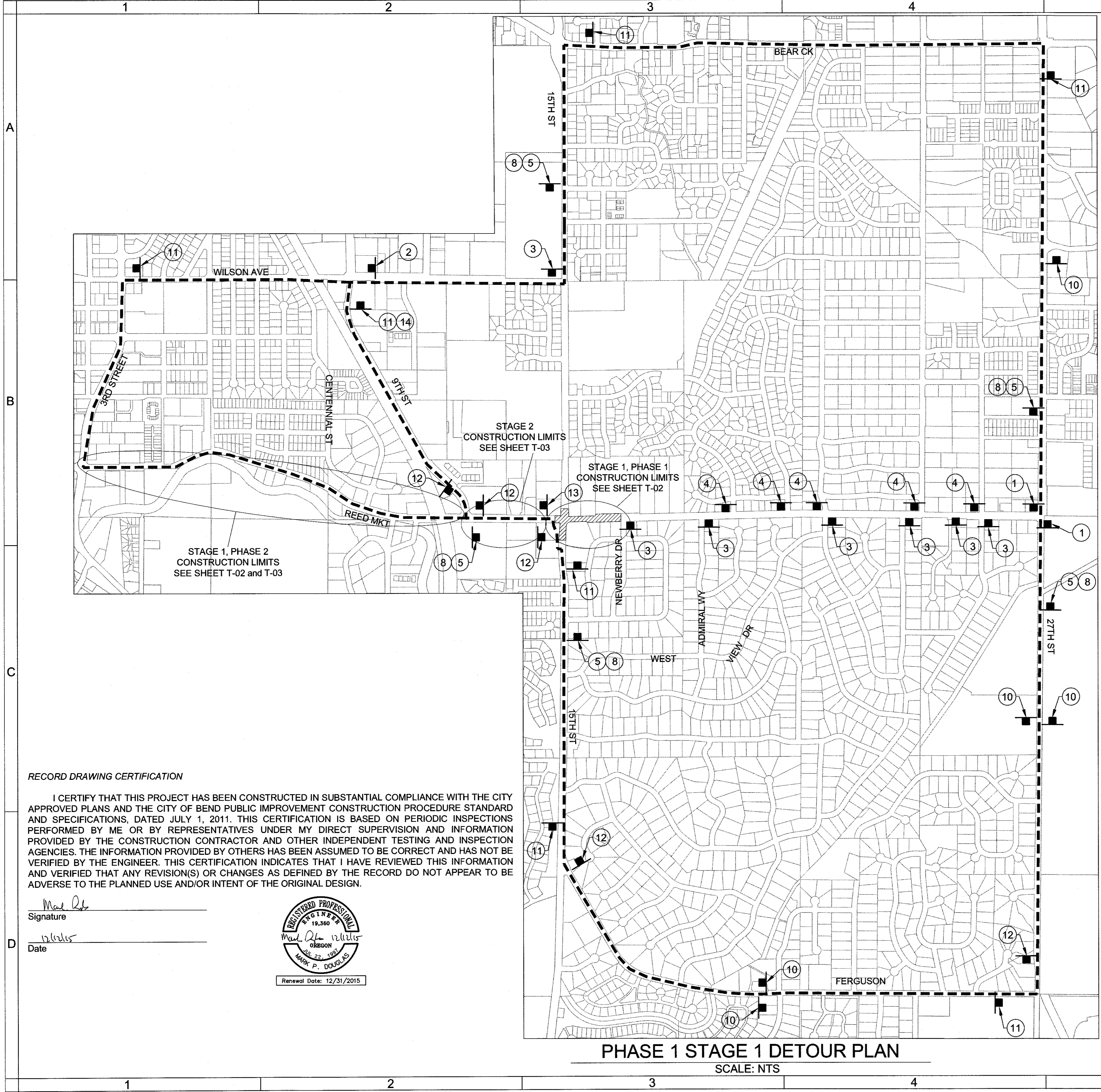
HWA SURVEYORS, ENGINEERS & PLANNERS
 HICKMAN, WILLIAMS & ASSOCIATES, INC.
 6230 O.E. RILEY ROAD, SUITE 100
 BEND, OREGON 97701
 PHONE: 541.389.9351 FAX: 541.386.5416

DESIGNED BY: MD
 DRAWN BY: MD
 SCALE: AS SHOWN
 FILE: REED 15TH BASE
 DATE: 04/21/2014

VERIFY SCALES
 0 1"
 BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET:
T-01.1

COB # ST12CJ



PHASE 1 STAGE 1 DETOUR PLAN
SCALE: NTS

LEGEND:

- ROAD CLOSURE
- DETOUR ROUTE
- PROPOSED TEMPORARY TRAFFIC CONTROL SIGN
- ROAD CLOSURE

N

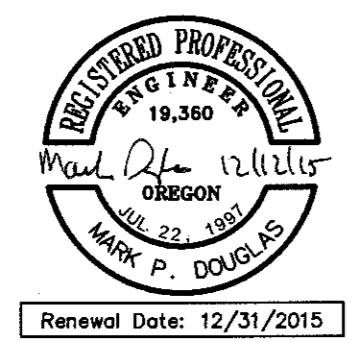
<p>REED MKRT RD/15TH ST INTERSECTION CLOSED</p> <p>↑</p> <p>DETOUR</p> <p>84"x24" M4-9 - 30"x24" MOUNTED ON WOOD POST</p> <p>①</p>	<p>REED MARKET RD. EASTBOUND CLOSED AHEAD</p> <p>66"x36"</p> <p>MOUNTED ON WOOD POST</p> <p>⑨</p>
<p>15TH STREET SOUTH BOUND TRAFFIC</p> <p>←</p> <p>DETOUR</p> <p>84"x24" M4-9L - 30"x24" MOUNTED ON WOOD POST</p> <p>②</p>	<p>REED MARKET RD</p> <p>↑</p> <p>DETOUR</p> <p>D3-1 - 54"x12" M4-9 - 30"x24" MOUNTED ON WOOD POST</p> <p>⑩</p>
<p>REED MKRT RD/15TH ST INTERSECTION CLOSED</p> <p>→</p> <p>DETOUR</p> <p>84"x24" M4-9R - 30"x24" MOUNTED ON WOOD POST</p> <p>③</p>	<p>REED MARKET RD</p> <p>←</p> <p>DETOUR</p> <p>D3-1 - 54"x12" M4-9R - 30"x24" MOUNTED ON WOOD POST</p> <p>⑪</p>
<p>REED MKRT RD/15TH ST INTERSECTION CLOSED</p> <p>←</p> <p>DETOUR</p> <p>84"x24" M4-9L - 30"x24" MOUNTED ON WOOD POST</p> <p>④</p>	<p>REED MARKET RD</p> <p>→</p> <p>DETOUR</p> <p>D3-1 - 54"x12" M4-9R - 30"x24" MOUNTED ON WOOD POST</p> <p>⑫</p>
<p>REED MKRT RD/15TH ST INTERSECTION CLOSED</p> <p>←</p> <p>DETOUR</p> <p>84"x24" M4-9L - 30"x24" MOUNTED ON WOOD POST</p> <p>④</p>	<p>REED MARKET RD. WEST BOUND CLOSED AHEAD</p> <p>66"x36"</p> <p>MOUNTED ON WOOD POST</p> <p>⑬</p>
<p>DETOUR 1000 FT</p> <p>W20-2 - 36"x36"</p> <p>MOUNTED ON WOOD POST</p> <p>⑤</p>	<p>15TH STREET NORTH BOUND TRAFFIC</p> <p>→</p> <p>DETOUR</p> <p>84"x24" M4-9L - 30"x24" MOUNTED ON WOOD POST</p> <p>⑭</p>
<p>ROAD CLOSED</p> <p>R11-2 - 48"x30"</p> <p>MOUNTED ON TSS</p> <p>⑥</p>	<p>REED MKT CLOSED @ 15TH</p> <p>USE ALT ROUTE</p> <p>PORTABLE CHANGEABLE MESSAGE SIGN - 1EA. TO BE PLACED ON REED MARKET ROAD (EAST BOUND) (SUGGESTED MESSAGE) (LOCATE AS DIRECTED)</p>
<p>(2 Ea.) - 8' B(III)LR</p> <p>⑦</p>	<p>REED MKT CLOSED</p> <p>USE ALT ROUTE</p> <p>PORTABLE CHANGEABLE MESSAGE SIGN - 4EA. TO BE PLACED ON 15TH STREET (NORTH AND SOUTH BOUND) AND ON 27TH STREET (NORTH AND SOUTH BOUND) (SUGGESTED MESSAGE) (LOCATE AS DIRECTED)</p>
<p>REED MARKET RD CLOSED AHEAD</p> <p>66"x24"</p> <p>MOUNTED ON WOOD POST</p> <p>⑧</p>	

RECORD DRAWING CERTIFICATION

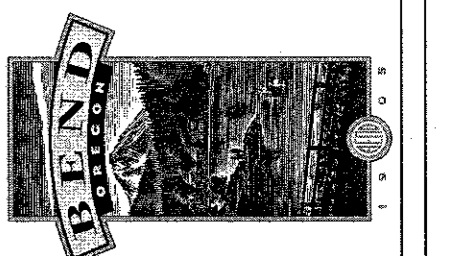
I CERTIFY THAT THIS PROJECT HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE CITY APPROVED PLANS AND THE CITY OF BEND PUBLIC IMPROVEMENT CONSTRUCTION PROCEDURE STANDARD AND SPECIFICATIONS, DATED JULY 1, 2011. THIS CERTIFICATION IS BASED ON PERIODIC INSPECTIONS PERFORMED BY ME OR BY REPRESENTATIVES UNDER MY DIRECT SUPERVISION AND INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND OTHER INDEPENDENT TESTING AND INSPECTION AGENCIES. THE INFORMATION PROVIDED BY OTHERS HAS BEEN ASSUMED TO BE CORRECT AND HAS NOT BEEN VERIFIED BY THE ENGINEER. THIS CERTIFICATION INDICATES THAT I HAVE REVIEWED THIS INFORMATION AND VERIFIED THAT ANY REVISION(S) OR CHANGES AS DEFINED BY THE RECORD DO NOT APPEAR TO BE ADVERSE TO THE PLANNED USE AND/OR INTENT OF THE ORIGINAL DESIGN.

Signature: Mark P. Douglas

Date: 04/21/2014



**REED MARKET ROAD
3RD STREET TO 15TH STREET
TRAFFIC CONTROL PLAN**
CITY OF BEND, OREGON



REVISIONS:

1. MPD 12/09/2015 RECORD DRAWING	2.	3.
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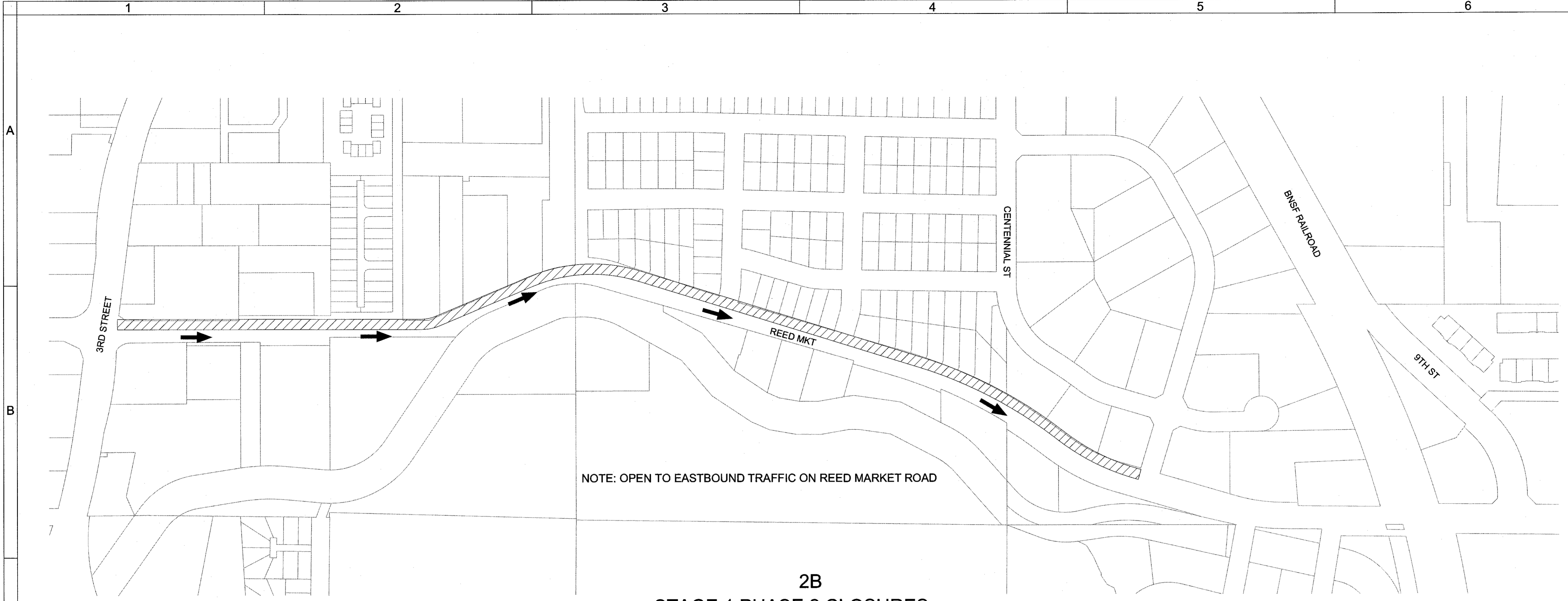
HWA SURVEYORS, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC.
62730 O.E. RILEY ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541.389.7351 FAX: 541.386.5416

DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014

VERIFY SCALES
0 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET: **T-01**

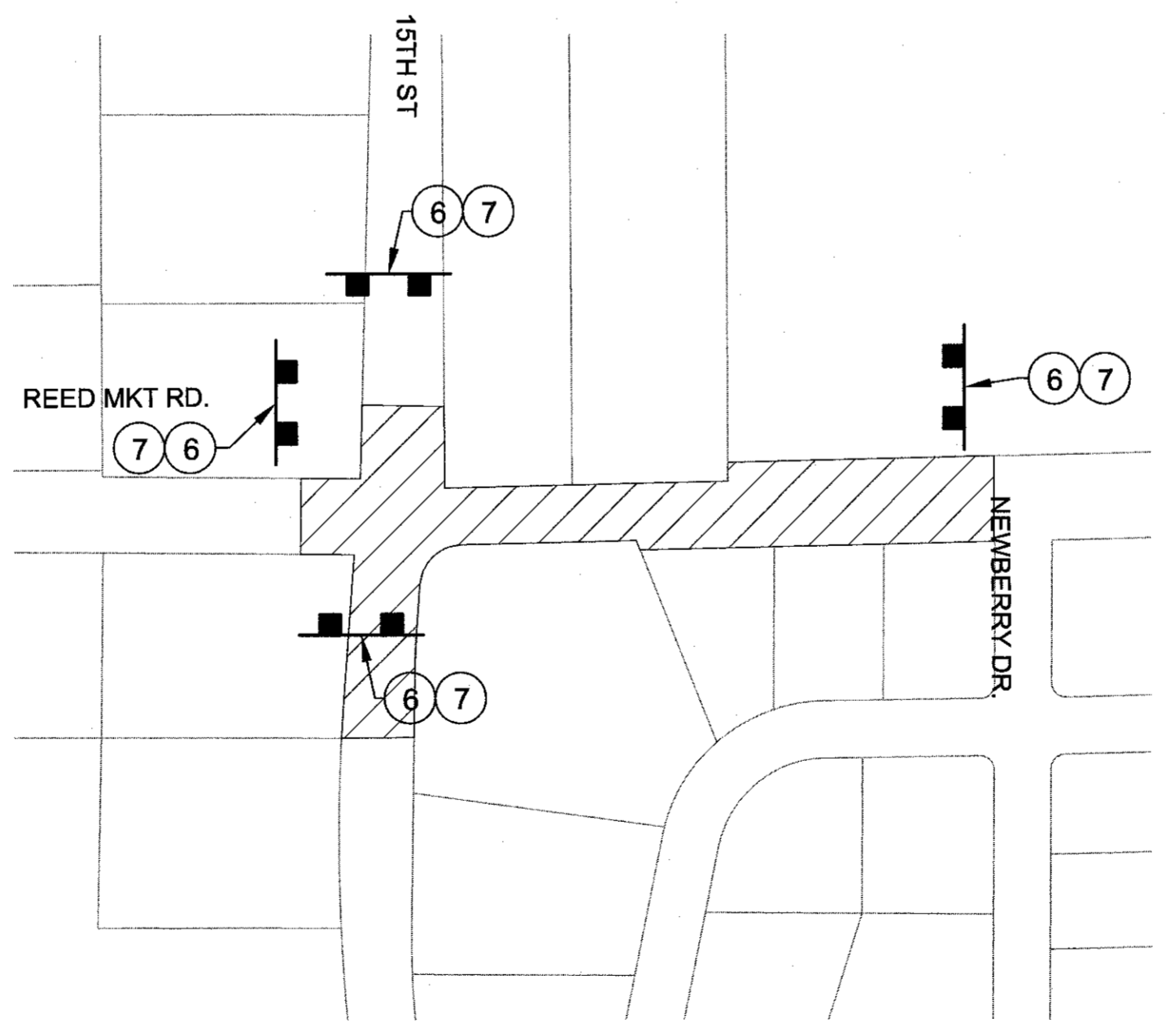
COB # ST12CJ



NOTE: OPEN TO EASTBOUND TRAFFIC ON REED MARKET ROAD

2B
STAGE 1 PHASE 2 CLOSURES

SCALE: NTS



STAGE 1 PHASE 1 CLOSURES

SCALE: NTS

ROAD CLOSED
R11-2 - 48"X30"
MOUNTED ON TSS

(6)



(2 Ea.) - 8' B(III)LR
(7)

LEGEND:

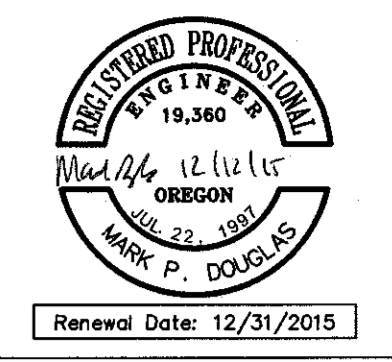


RECORD DRAWING CERTIFICATION

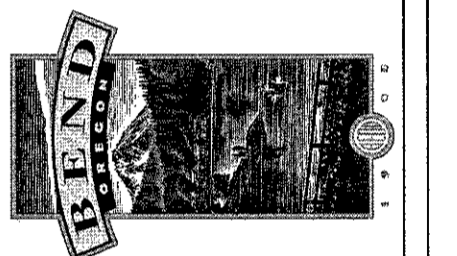
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Mark P. Douglas
Signature

12/23/14
Date



REED MARKET ROAD
3RD STREET TO 15TH STREET
TRAFFIC CONTROL PHASING PLAN
CITY OF BEND, OREGON



REVISIONS:

1.	MPD 12/09/2015	RECORD DRAWING
2.		
3.		

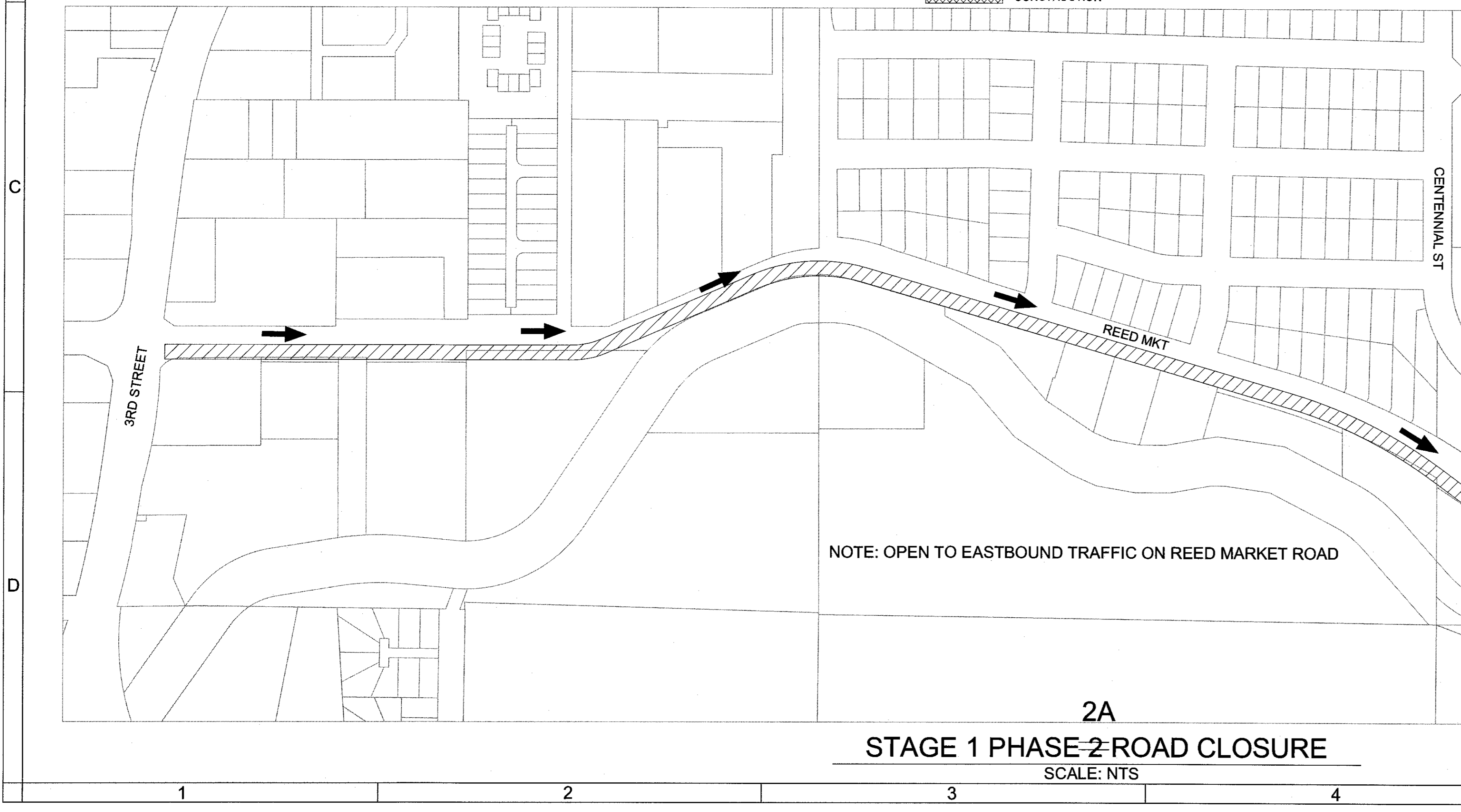
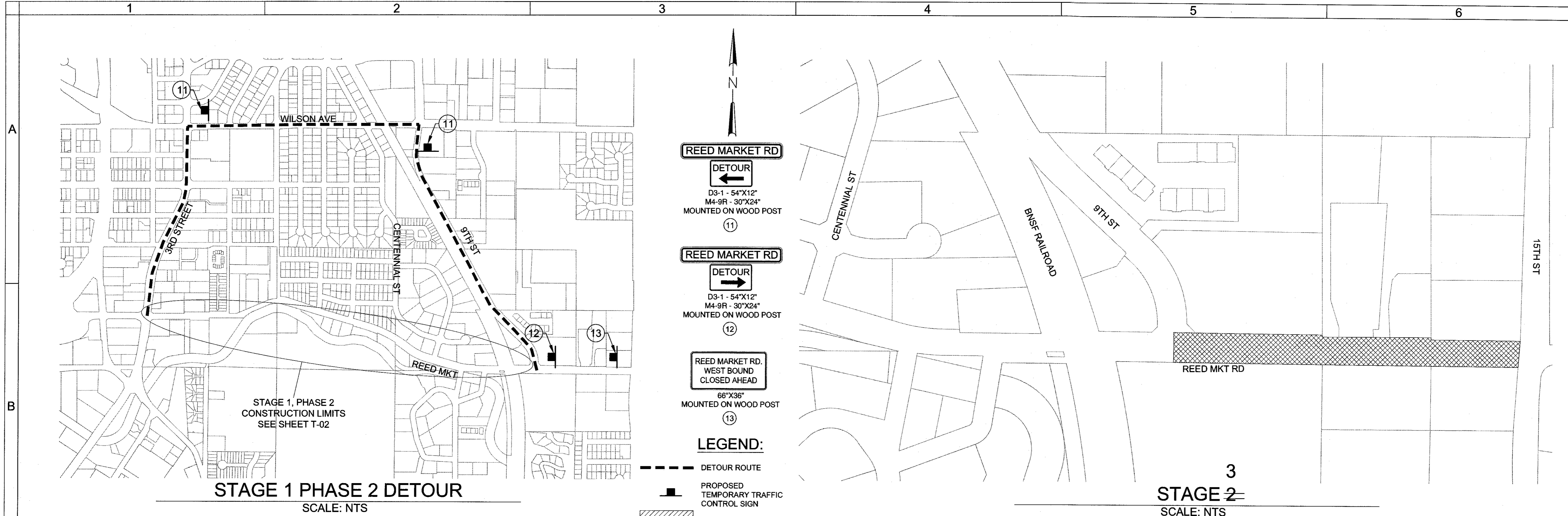
HWA SURVEYORS, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC
4230 O.E. RIET ROAD, SUITE 100
BEND, OREGON 97701
PHONE 541.389.9351 FAX: 541.386.5416

DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: **04/21/2014**

VERIFY SCALES
0 1"
BAR EQUALS ONE INCH
ON ORIGINAL DRAWING

SHEET:
T-02

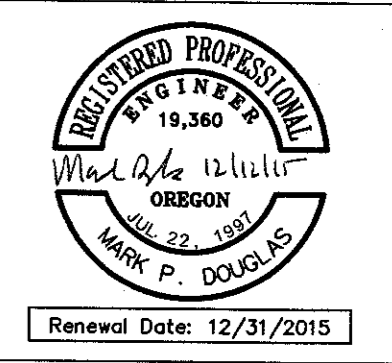
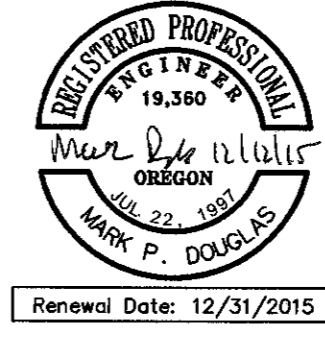
COB # **ST12CJ**



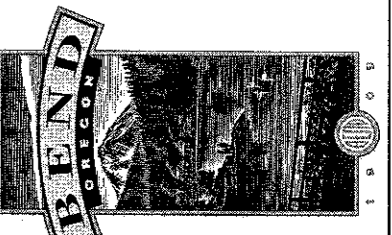
RECORD DRAWING CERTIFICATION

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Signature: *Mark DeWitt*
Date: *12/15/15*



**REED MARKET ROAD
3RD STREET TO 15TH STREET
TRAFFIC CONTROL PLAN**
CITY OF BEND, OREGON



REVISIONS:

1. MPD 12/09/2015 RECORD DRAWING	2.	3.
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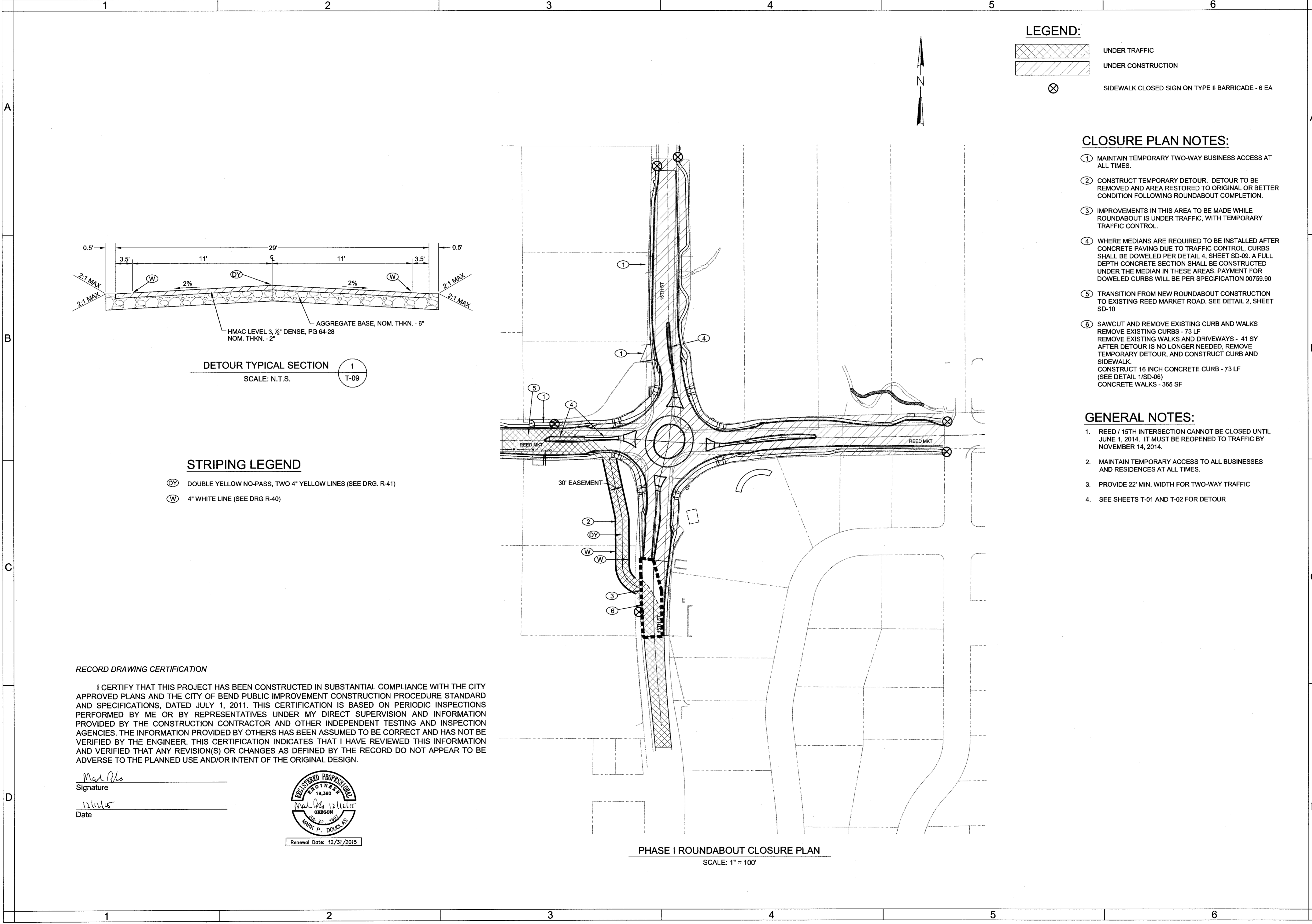
HWA SURVEYORS, ENGINEERS & PLANNERS
HICKMAN, WILLIAMS & ASSOCIATES, INC.
2930 O.E. RILEY ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541.389.9357 FAX: 541.388.8416

DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: 04/21/2014


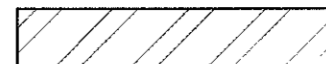

VERIFY SCALES
0 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET: **T-03**

COB# ST12CJ



LEGEND:

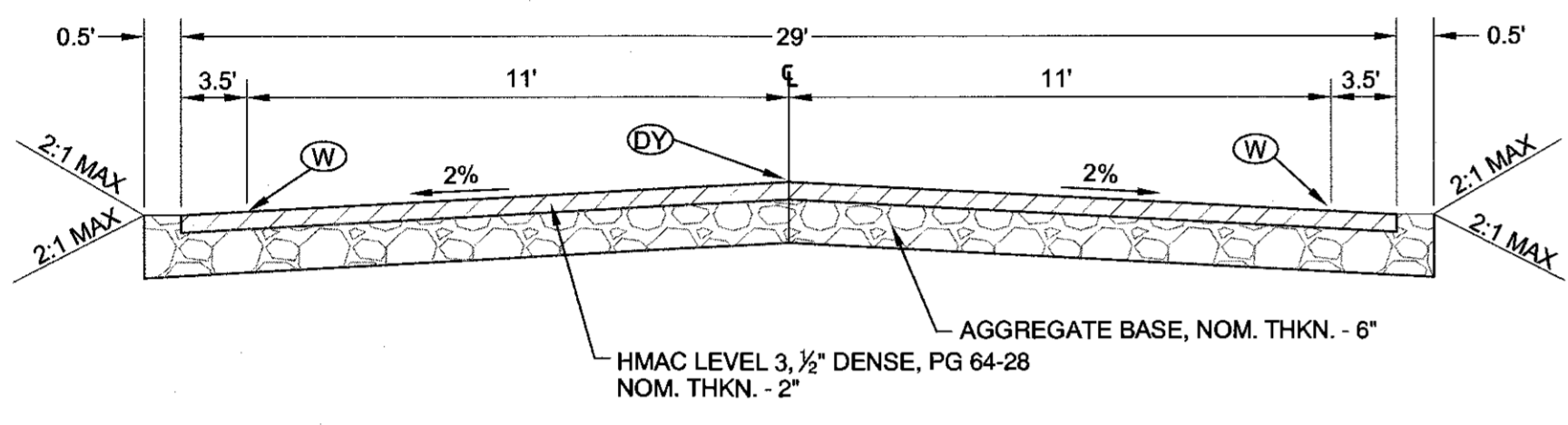
-  UNDER TRAFFIC
-  UNDER CONSTRUCTION
-  SIDEWALK CLOSED SIGN ON TYPE II BARRICADE - 6 EA

CLOSURE PLAN NOTES:

- ① MAINTAIN TEMPORARY TWO-WAY BUSINESS ACCESS AT ALL TIMES.
- ② CONSTRUCT TEMPORARY DETOUR. DETOUR TO BE REMOVED AND AREA RESTORED TO ORIGINAL OR BETTER CONDITION FOLLOWING ROUNDABOUT COMPLETION.
- ③ IMPROVEMENTS IN THIS AREA TO BE MADE WHILE ROUNDABOUT IS UNDER TRAFFIC, WITH TEMPORARY TRAFFIC CONTROL.
- ④ WHERE MEDIANS ARE REQUIRED TO BE INSTALLED AFTER CONCRETE PAVING DUE TO TRAFFIC CONTROL, CURBS SHALL BE DOWELED PER DETAIL 4, SHEET SD-09. A FULL DEPTH CONCRETE SECTION SHALL BE CONSTRUCTED UNDER THE MEDIAN IN THESE AREAS. PAYMENT FOR DOWELED CURBS WILL BE PER SPECIFICATION 00759.90
- ⑤ TRANSITION FROM NEW ROUNDABOUT CONSTRUCTION TO EXISTING REED MARKET ROAD. SEE DETAIL 2, SHEET SD-10
- ⑥ SAWCUT AND REMOVE EXISTING CURB AND WALKS REMOVE EXISTING CURBS - 73 LF REMOVE EXISTING WALKS AND DRIVEWAYS - 41 SY AFTER DETOUR IS NO LONGER NEEDED, REMOVE TEMPORARY DETOUR, AND CONSTRUCT CURB AND SIDEWALK. CONSTRUCT 16 INCH CONCRETE CURB - 73 LF (SEE DETAIL 1/SD-06) CONCRETE WALKS - 365 SF



GENERAL NOTES:

1. REED / 15TH INTERSECTION CANNOT BE CLOSED UNTIL JUNE 1, 2014. IT MUST BE REOPENED TO TRAFFIC BY NOVEMBER 14, 2014.
2. MAINTAIN TEMPORARY ACCESS TO ALL BUSINESSES AND RESIDENCES AT ALL TIMES.
3. PROVIDE 22' MIN. WIDTH FOR TWO-WAY TRAFFIC
4. SEE SHEETS T-01 AND T-02 FOR DETOUR



DETOUR TYPICAL SECTION
SCALE: N.T.S.

STRIPING LEGEND

-  DOUBLE YELLOW NO-PASS, TWO 4" YELLOW LINES (SEE DRG. R-41)
-  4" WHITE LINE (SEE DRG R-40)

RECORD DRAWING CERTIFICATION

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Signature: Mark P. Douglas
Date: 12/15



PHASE I ROUNDABOUT CLOSURE PLAN
SCALE: 1" = 100'



**REED MARKET ROAD
3RD STREET TO NEWBERRY DRIVE
ROUNDABOUT TRAFFIC CONTROL PLANS**
CITY OF BEND, OREGON

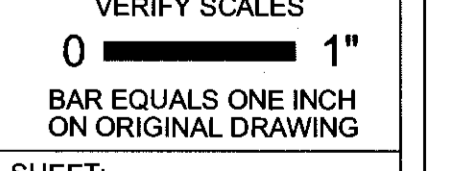


REVISIONS:

1.	MPD 12/09/2015	RECORD DRAWING
2.		
3.		

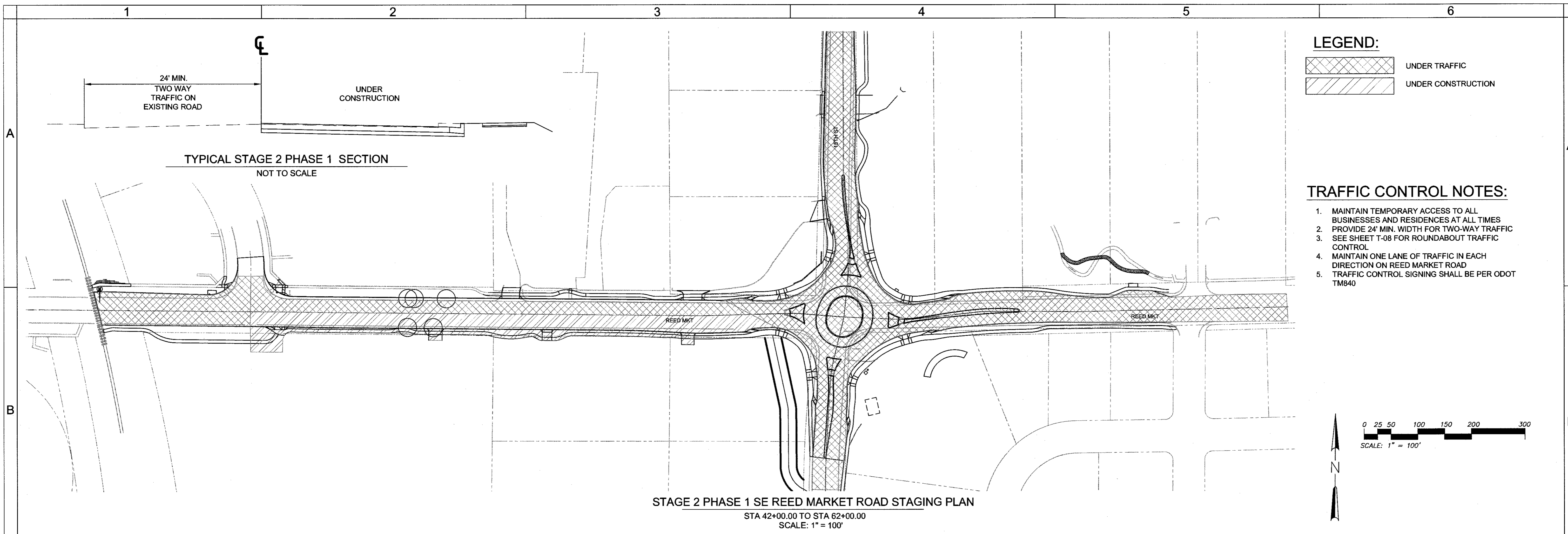
HWA SURVEYORS, ENGINEERS & PLANNERS
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42930 O.E. RILEY ROAD, SUITE 100
BEND, OREGON 97701
PHONE: 541.389.9351 FAX: 541.388.5416

DESIGNED BY: MD
DRAWN BY: MD
SCALE: AS SHOWN
FILE: REED 15TH BASE
DATE: **04/21/2014**



SHEET: **T-08**

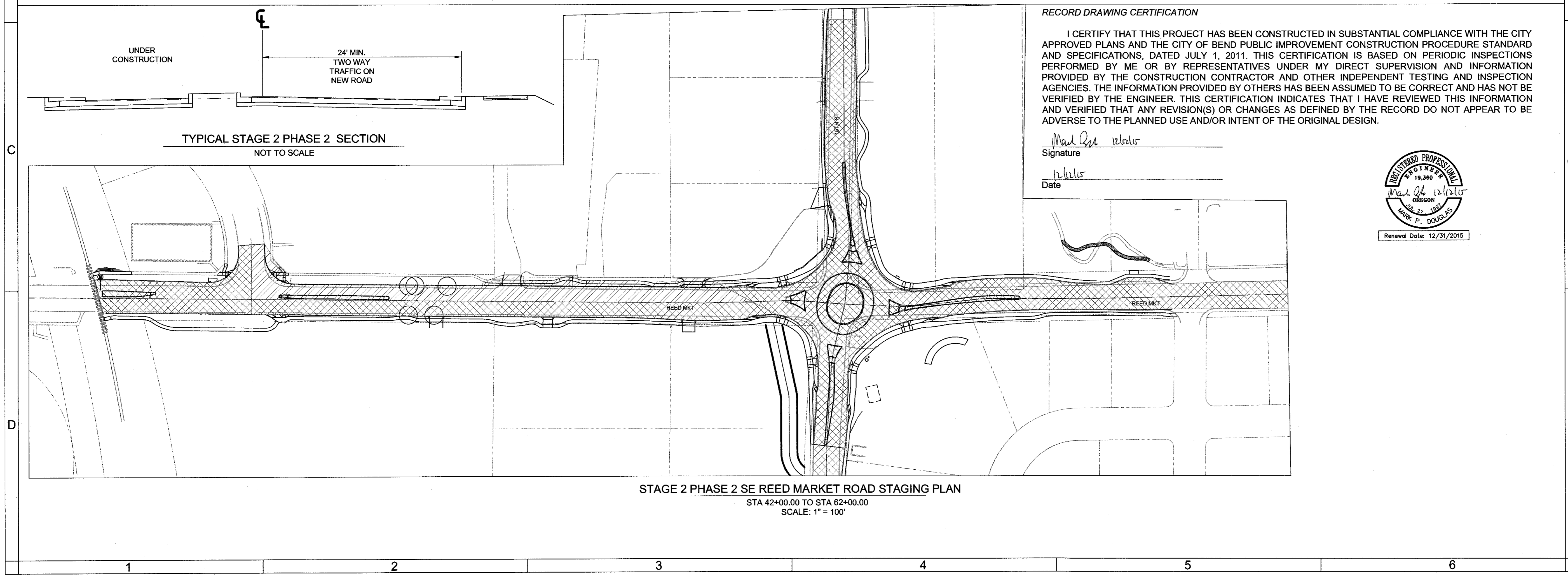
COB # **ST12CJ**



STAGE 2 PHASE 1 SE REED MARKET ROAD STAGING PLAN
 STA 42+00.00 TO STA 62+00.00
 SCALE: 1" = 100'

LEGEND:
 UNDER TRAFFIC
 UNDER CONSTRUCTION

- TRAFFIC CONTROL NOTES:**
1. MAINTAIN TEMPORARY ACCESS TO ALL BUSINESSES AND RESIDENCES AT ALL TIMES
 2. PROVIDE 24' MIN. WIDTH FOR TWO-WAY TRAFFIC
 3. SEE SHEET T-08 FOR ROUNDABOUT TRAFFIC CONTROL
 4. MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION ON REED MARKET ROAD
 5. TRAFFIC CONTROL SIGNING SHALL BE PER ODOT TM840

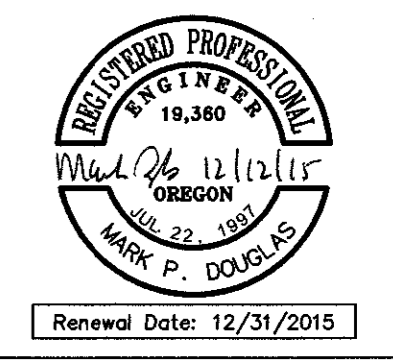
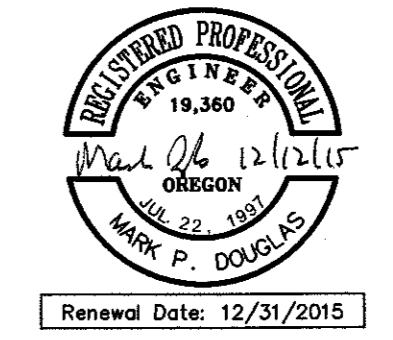


STAGE 2 PHASE 2 SE REED MARKET ROAD STAGING PLAN
 STA 42+00.00 TO STA 62+00.00
 SCALE: 1" = 100'

RECORD DRAWING CERTIFICATION

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Mark P. Douglas
 Signature
 12/21/15
 Date



**REED MARKET ROAD
 3RD STREET TO NEWBERRY DRIVE
 RMR TRAFFIC CONTROL PLANS**
 CITY OF BEND, OREGON



REVISIONS:

1.	MPD 12/09/2015	RECORD DRAWING
2.		
3.		

HWA SURVEYORS, ENGINEERS & PLANNERS
 HICKMAN, WILLIAMS & ASSOCIATES, INC.
 42930 O.E. RILEY ROAD, SUITE 100
 BEND, OREGON 97701
 PHONE: 541.389.9351 FAX: 541.386.5416

DESIGNED BY: MD
 DRAWN BY: MD
 SCALE: AS SHOWN
 FILE: REED 15TH BASE
 DATE: 04/21/2014

VERIFY SCALES
 1"
 BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET:
T-09

COB # ST12CJ