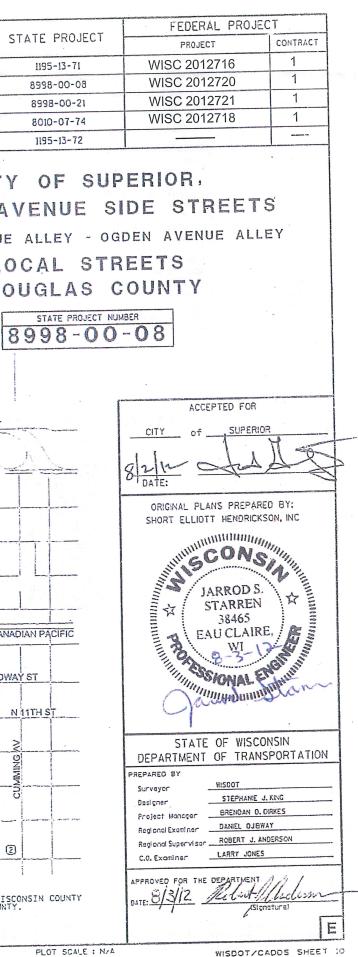
SUI	P MAR 13 ORDER OF SHEETS		STATE OF WISCONSIN	N
PROJEC WITH: 1	Section No. 1 Title Section No. 2 Typical Sections Section No. 3 Estimate of Quan	ond Details DEPAR	TMENT OF TRANSPO	
CT ID:	Section No. 3 Miscelleneous Gu Section No. 4 Right of Way Pla Section No. 5 Plan and Profile	ŕ	PLAN OF PROPOSED IMPROVEMEN	
3-72, 8	Contraction 7 Otras Distan	Drawings CITY	OF SUPERIOR, TOWER	R AVENUE CITY
195-13	Section No. 5 Structure Plans Section No. 5 Computer Earthwo Section No. 9 Cross Sections	rk Data	BELKNAP STREET - 3RD STREET	TOWER A
-08,	TOTAL SHEETS = 542	CITY OF SUPERIOR,	STH 35	RANKS AVENUE
		TOWER AVENUE	DOUGLAS	LC
-00-2		BELKNAP STREET - 3RD STREET	STATE PROJECT NUMBER	SEH Copy DO
1, 801		STH 35	1195-13-71	
0-07-		DOUGLAS COUNTY		
74 &		STATE PROJECT NUMBER	CITY OF SUPERIOR,	N N
-8668			TOWER AVENUE	
13-76			BELKNAP STREET - 3RD STREET	N 3RD ST
0,		CITY OF SUPERIOR,	STH 35	
		TOWER AVENUE	DOUGLAS COUNTY	N 5TH ST
	DESIGN DESIGNATION	BELKNAP STREET - 3RD STREET	STATE PROJECT NUMBER	≷ N6TH ST 및
	A.A.D.T. 2013 = 9553 A.A.D.T. 2023 = 10475	STH 35		
C	D.H.V. 2023 = 2734 D.D. = 58/42 T. AADT = 15.8 %	DOUGLAS COUNTY	END PROJECT 1195-13-71, 1195-13-72	
OUNTY	DESIGN SPEED = 25 MPH ESALS = 4,874,200	STATE PROJECT NUMBER	& 8010-07-74 STA 750+39.43	UNION PACIFIC
۲Υ:				WINTER ST. DATE DATE CAMA
DO	CONVENTIONAL SYMBOLS	가 있는 것을 하는 것은 것은 것은 것을 가입니다. 가 있는 것을 가 있는 것을 가 있는 것을 가 있는 것을 가 있다. 같은 것은 것을 가지 않는 것을 가 있는 것을 수 있	PROJECT 8998-00-08	BROADW
UG	PLAN CORPORATE LIMITS		THOSES . SEE	
Ē	PROPERTY LINE	ORIGINAL GROUND MARSH OR ROCK PROFILE <u>ROCK</u> (To be noted as such)		
S	LIMITED HIGHWAY EASEMENT L	SPECIAL DITCH LABEL GRADE ELEVATION K		22 53 N 12TH ST
	PROPOSED OR NEW R/W LINE	GRADE ELEVATION	BEGIN PROJECT 1195-13-71, 1195-13-72	N 33TH ST
	SLOPE INTERCEPT		& 8010-07-74 STA 688+67.69	E UNOW
	EXISTING CULVERT	FIBER OPTICF0 GASC	X = 147037.425 Y = 305490.933	
	(Box or Pipe)	SANITARY SEWER SAN STORM SEWER SS	LAYOUT	BELKNAP ST
	W	TELEPHONE T	SCALE 500 FT.	CONCENTRE ON THIS PLAN ARE REFERENCED TO THE WISI
	MARSH AREA	UTILITY PEDESTAL X POWER POLE	TOTAL NET LENGTH OF CENTERLINE = 1169 MI.	COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISH COORDINATE SYSTEM (WCCS), DOUGLAS COUNT
	WOODED OR SHRUB AREA	S TELEPHONE POLE	FLOT DATE : 7/31/2012	PLOT BY : SEM PLOT NAME :
	FILE NAME : \W1tow\116627\CAD\010101_+1.	dgn	PLUE DASE : ITOLICULE	



	STANDARD ABBREVIAT	IONS
AGG	AGGREGATE	LC
AECPRC	APRON ENDWALL FOR CULVERT PIPE	MOR
	REINFORCED CONCRETE	NC
ASPH	ASPHALTIC	N.T.S.
BM	BENCH MARK	PAVT
CE	COMMERCIAL ENTRANCE	PE
CL OR C/L OR €	CENTER LINE	PVRC
Δ	CENTRAL ANGLE OR DELTA	OOR
CONC	CONCRETE	R
CPRC	CULVERT PIPE REINFORCED CONCRETE	RES
CPRCHE	CULVERT PIPE REINFORCED CONCRETE	R/W
	HORIZONTAL ELLIPTICAL	RDWY
DISCH	DISCHARGE	R/L OR
DWY	DRIVEWAY	SAN
EOR	END POINT OF RADIUS	SS
ENT	ENTRANCE	SSPRC
FE	FIELD ENTRANCE	SSPRCHE
FO	FIBER OPTIC	
CWT	HUNDREDWEIGHT	SE
HDPE	HIGH DENSITY POLYTHENE PIPE	TYP
HYD	HYDRANT	VAR
INV	INVERT	VC
IP	IRON PIPE ON PIN	
L	LENGTH OF CURVE	

2

LONG CHORD OF CURVE MID POINT OF RADIUS NORMAL CROWN NOT TO SCALE PAVEMENT PRIVATE ENTRANCE POINT OF VERTICAL REVERSE CURVE QUARTER POINT OF RADIUS RADIUS RESIDENCE OR RESIDENTIAL RIGHT-OF-WAY ROADWAY REFERENCE LINE SANITARY SEWER STORM SEWER STORM SEWER PIPE REINFORCED CONCRETE STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL SUPERELEVATION RATE TYPICAL VARIABLE VERTICAL CURVE

## ORDER OF TYPICAL SECTION AND DETAIL SHEETS

GENERAL NOTES PROJECT OVERVIEW TYPICAL SECTIONS CONSTRUCTION DETAILS INTERSECTION DETAILS EROSION CONTROL STORM SEWER SANITARY SEWER WATERMAIN PLANTING PERMANENT SIGNING LIGHTING DETAILS SPEAKER SYSTEM TRAFFIC SIGNAL PLAN SEQUENCE OF OPERATIONS PAVEMENT MARKING TRAFFIC CONTROL AL TONMENT

#### GENERAL NOTES

WHEN THE QUANTITY OF BASE ACCREGATE IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS IS APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

ALL UTILITIES WILL BE RELOCATED OR ADJUSTED BY THEIR OWNERS WHERE REQUIRED, MUNICIPAL WATER AND SANITARY SEWER ADJUSTMENTS WILL REQUIRE COORDINATION WITH THE CONTRACTOR.

THE ESTIMATED EXTENT OF SOIL CONTAMINATION IN THE RIGHT OF WAY. AS SHOWN IN THE PLANS IS TO BE REMOVED. THE LOCATION AND AMOUNT WILL BE DETERMINED BY THE ENGINEER.

NO TREES OR SHRIJBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

THE EXACT LOCATION OF THE EROSION CONTROL DEVICES SHALL BE DETERMINED IN THE FIELD.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, ARE TO BE 4-INCH TOPSOILED, FERTILIZED, SEEDED, AND MULCHED OR EROSION MATTED AS SHOWN IN THE PLANS. FINISHED SEEDED SURFACE SHALL BE 1-INCH BELOW THE TOP OF ADJACENT CONCRETE.

THE EXACT LOCATION OF ALL DRIVEWAYS WILL BE DETERMINED BY THE ENGINEER.

ALL CURB AND GUTTER RADII, PAVEMENT DIMENSIONS AND STATIONS ARE SHOWN TO THE EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.

CONSTRUCT INSIDE EDGE OF SIDEWALK 1/4 INCH HIGHER THAN THE TOP OF CURB, WHEN THEY ARE ADJACENT TO EACH OTHER.

A VERTICAL SAWCUT SHALL BE MADE THROUGH EXISTING DRIVEWAYS AND PAVEMENTS AT REMOVAL LIMITS.

TOP OF CASTING ELEVATIONS SHOWN FOR INLETS REFER TO THE NORMAL GUTTER FLOWLINE.

ALL STORM SEWER INVERTS, ELEVATIONS, PIPE LENGTHS, AND GRADES ARE COMPUTED CENTER-TO-CENTER OF STRUCTURES.

HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYER THICKNESSES:

PAVEMENT		NOM AGG		NOM AGG	
THICKNESS	LOWER	SIZE	LOWER	SIZE	MID
(INCH) 4 5	(INCH)	(mm )	(INCH)	(mm )	(IN
7.5	3 3		2.5		22

CURB RAMP TYPES ARE SHOWN ON THE PLAN AND PROFILE SHEETS.

#### UTILITY CONTACTS

# SUPERIOR WATER, LIGHT & POWER CO.

2915 HILL AVENUE P.O. BOX 519 SUPERIOR, WISCONSIN 54880 TELEPHONE: 715.395.6315 ATTENTION: KEVIN HABERMAN EMAIL: KHABERMAN@SWLP.COM

TELEPHONE: 715.395.6346 ATTENTION: TROY AUNE EMAIL: TAUNE@SWLP.COM

TELEPHONE: 218.355.5949 ATTENTION: TIM MELBY (WATER & GAS) EMAIL: THELBY@SWLP.COM



CALL 811 OR (800)242,8511 (877)500.9592 (EMERGENCY ONLY) www.DiggersHotline.com

# RAILROAD CONTACTS

UNION PACIFIC RAILROAD COMPANY 101 N WACKER DRIVE, SUITE 1920 CHICAGO, IL 60606 TELEPHONE: 312.777.2043 ATTENTION: JOHN VENICE EMAIL: JVENICEOUP.COM

UNION PACIFIC RAILROAD COMPANY "CALL BEFORE YOU DIG" 1-800-848-8715

BNSF RAILWAY COMPANY 80 44TH AVENUE NE MINNEAPOLIS, MN 55421 TELEPHONE: 763.782.3495 ATTENTION: BENJAMIN STEINKAMP EMAIL: BENJAMIN.STEINKAMP@BNSF.COM

BNSF RRAILWAY COMPANY "CALL BEFORE YOU DIG" 1-800-533-2891

CANADIAN PACIFIC RRAILWAY "CALL BEFORE YOU DIG" 1-800-291-0741

PROJECT NO: 1195-13-71

FILE NAME : P:\UZ\W\Witnw\116687\CAD\020101\_gn.dgn

HWY: STH 35 - TOWER AVF

COUNTY: DOUGLAS

PLOT TIME : 12:02:04 PM

SUPERIOR, WISCONSIN 54880 TELEPHONE: 715.395.7539

ATTENTION: JEFF GOETZMAN

CHARTER COMMUNICATIONS

640 GARFIELD AVENUE DULUTH, MINNESOTA 55802

TELEPHONE: 218.529.8042

CENTURYLINK 2425 COUNTY ROAD M

CITY OF SUPERIOR

PUBLIC WORKS 1316 N 14TH STREET

PO BOX 518

ATTENTION: JOHN QUADE EMAIL: JQUADE@CHARTERCOM.COM

OSCEOLA, WISCONSIN 54020 ENGINEERING TELEPHONE: 715.294.2463

EMAIL: GOETZMANJ@CI.SUPERIOR.WI.US

ATTENTION: MIKE VANDENBOS EMAIL: MIKE.VANDENBOS@CENTURYLINK.COM

GENERAL NOTES PLOT DATE : 10/18/2012

PLOT BY : SEH

PLOT NAME :

NOM AGG NOM AGG DDLE SIZE UPPER SIZE NCH) (mm ) (INCH) (mm) .5 .5 2

# DESIGN CONTACT

TELEPHONE: 218.393.1915 ATTENTION: SCOTT WEYANDT

SEH THC 421 FRENETTE DRIVE CHIPPEWA FALLS, WI 54729 TELEPHONE: 715.720.6261 ATTENTION: JARROD STARREN EMAIL: JSTARREN@SEHINC.COM

# DNR CONTACT

STATE OF WISCONSIN NORTHWEST DISTRICT HWY 70 WEST P.O. BOX 309 SPOONER, WI 54801 TELEPHONE: 715.635.4229 ATTENTION: AMY CRONK EMAIL: AMY.CRONK@WISCONSIN.GOV

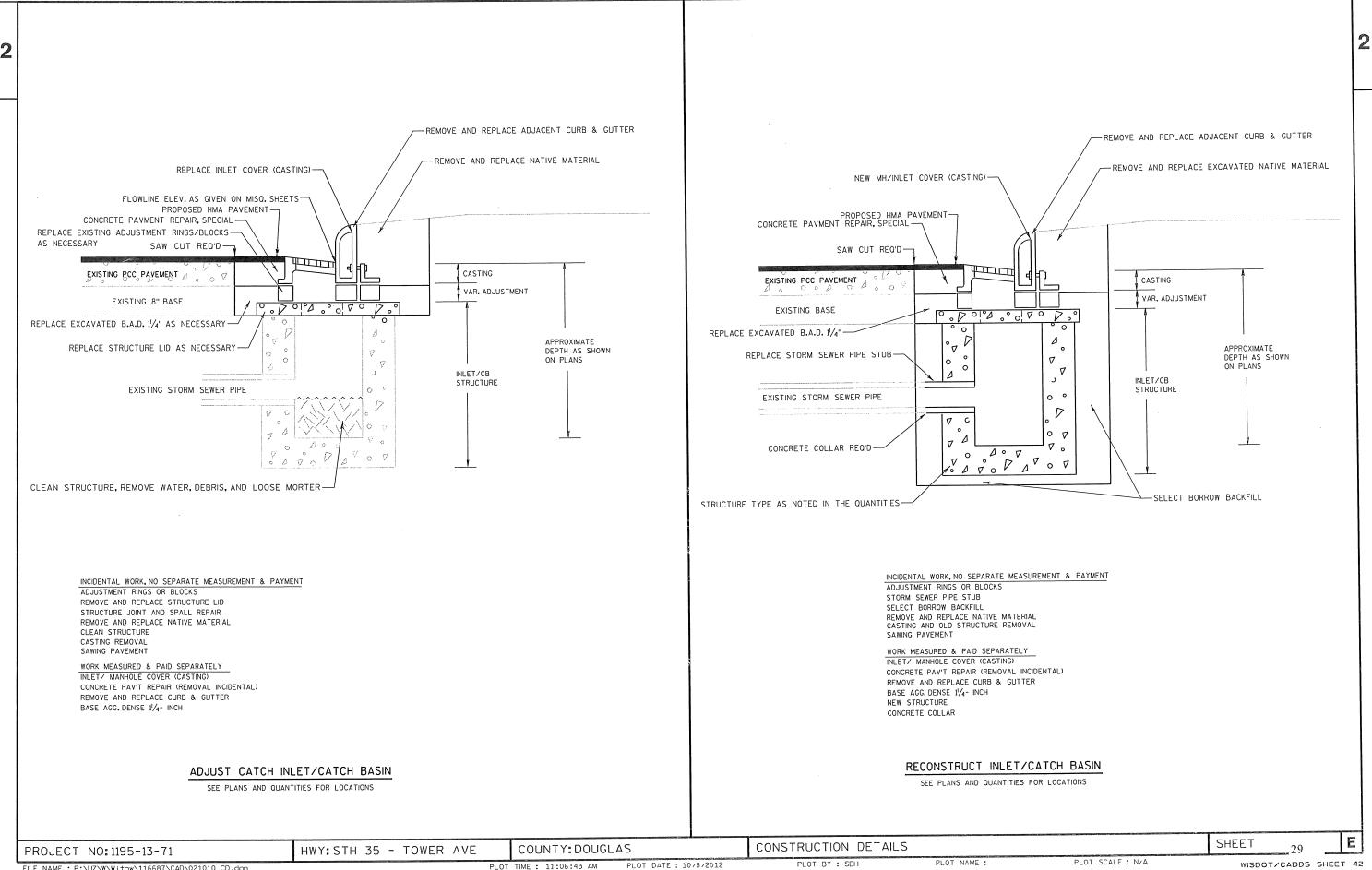
SHEET

PLOT SCALE : N/A

WISDOT/CADDS SHEET 42

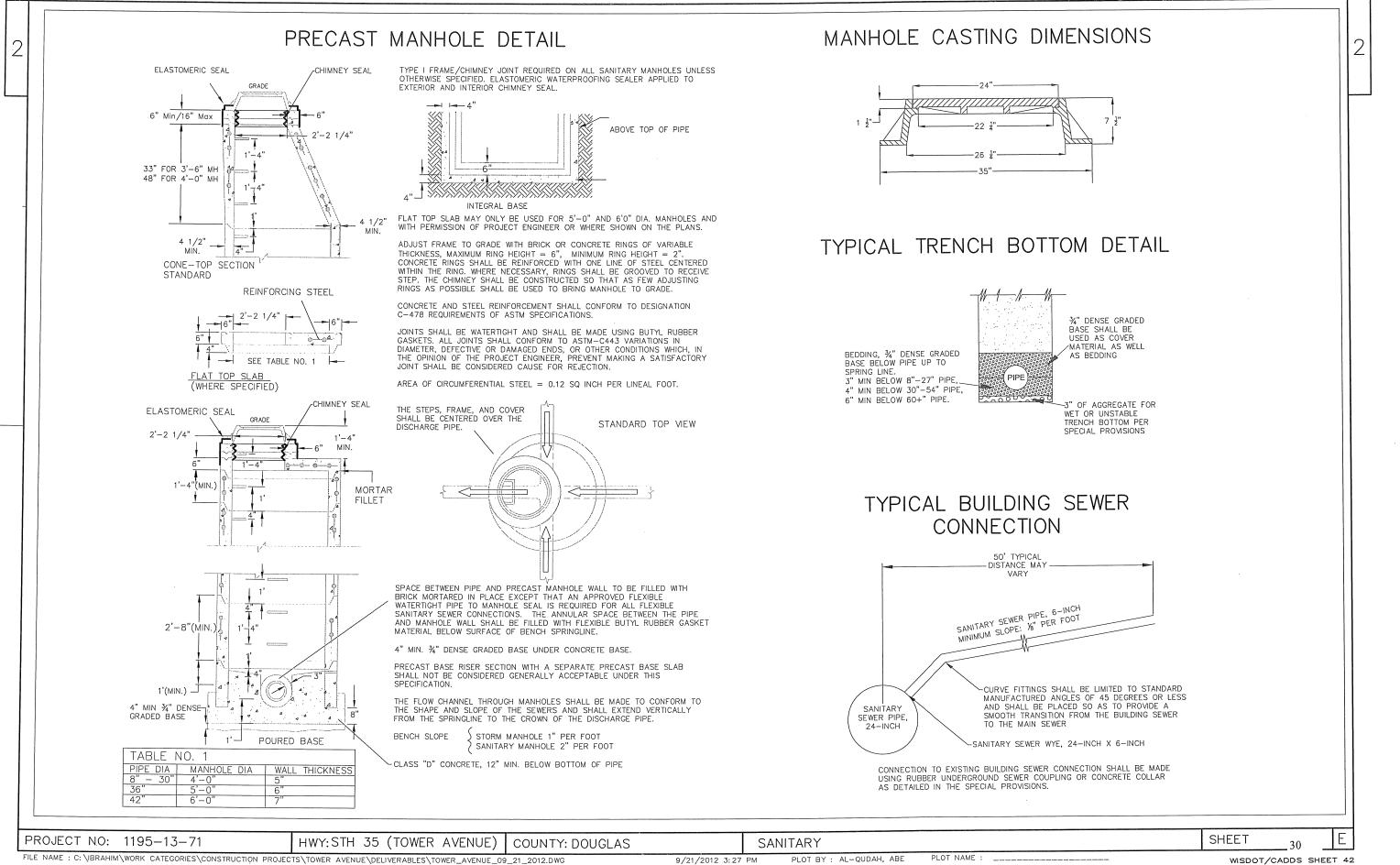
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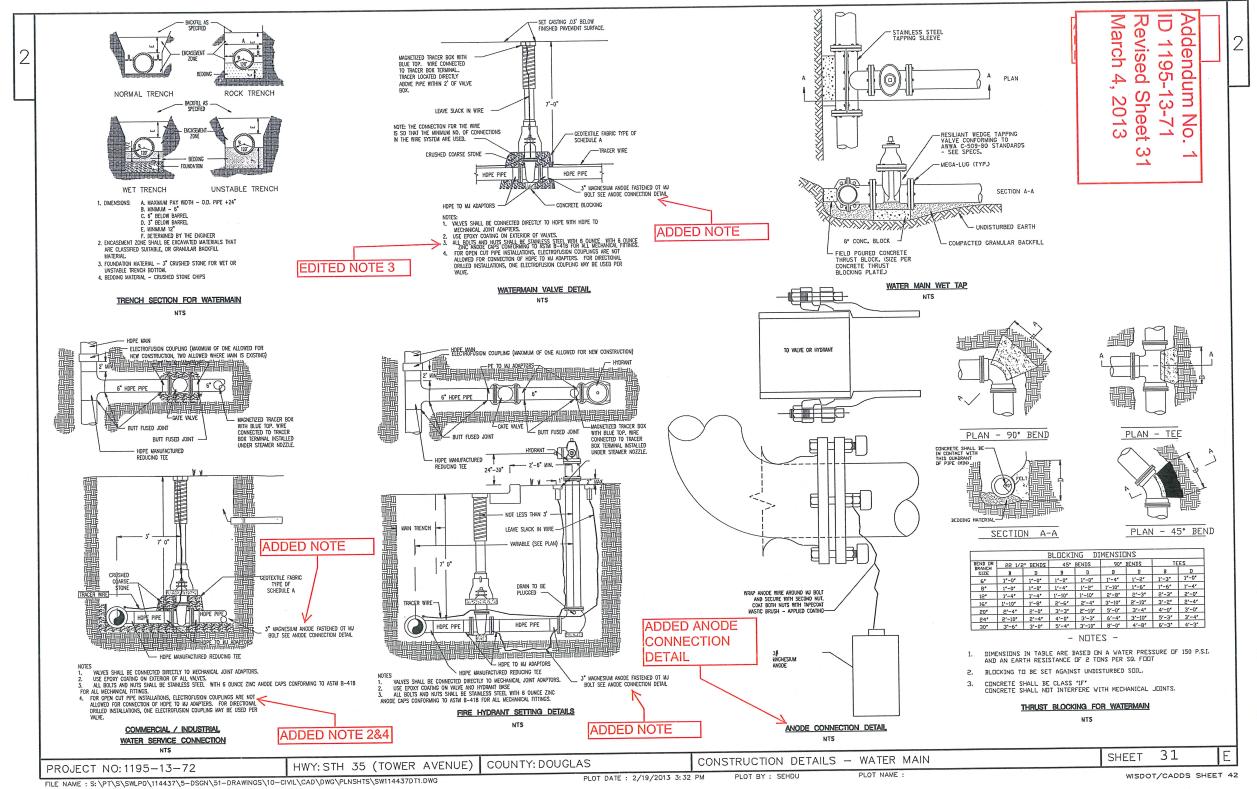
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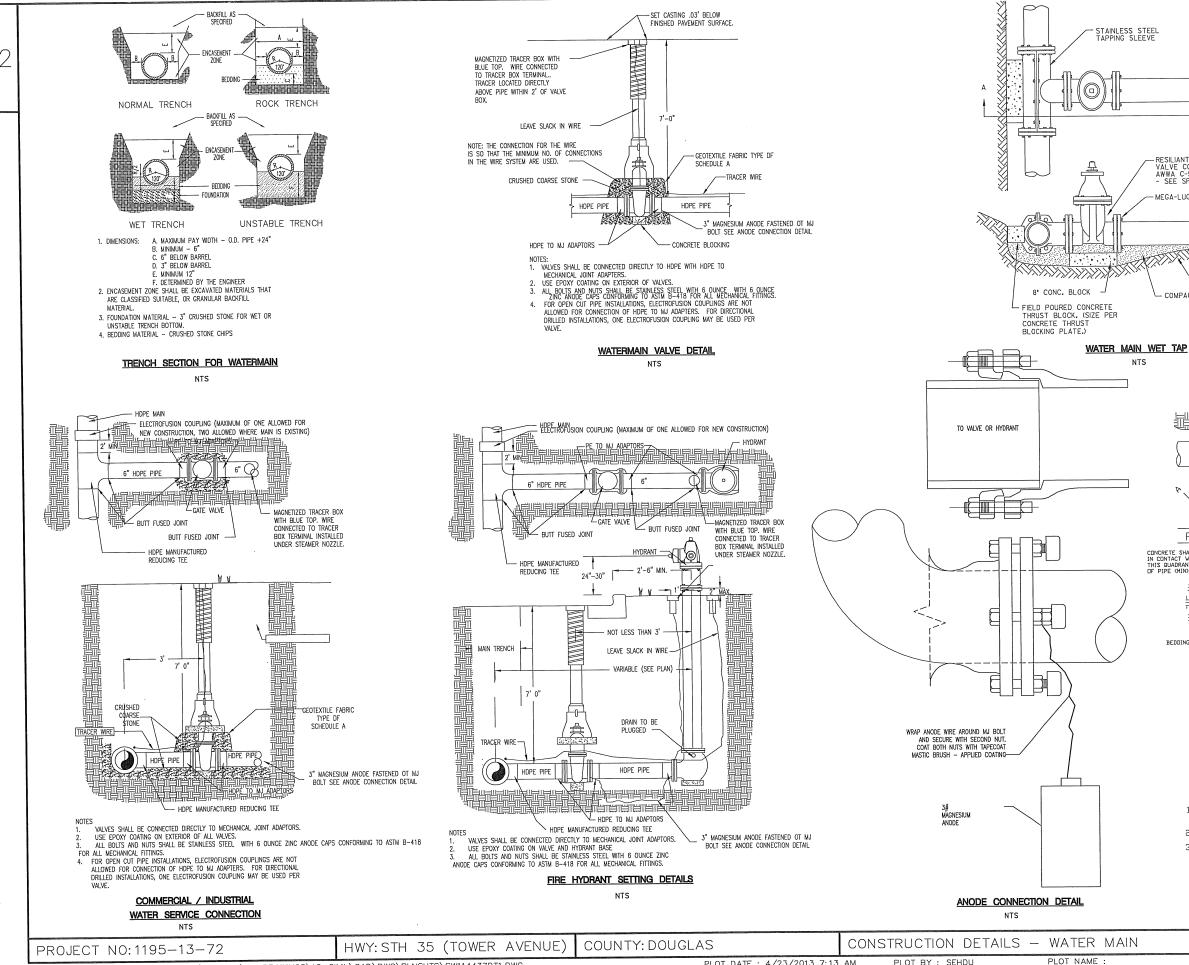


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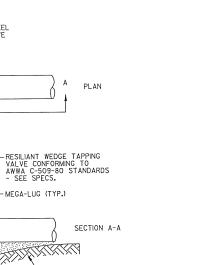






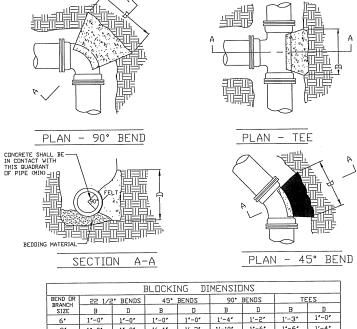
FILE NAME : S: \PT\S\SWLP0\114437\5-DSGN\51-DRAWINGS\10-CIVIL\CAD\DWG\PLNSHTS\SW114437DT1.DWG

PLOT DATE : 4/23/2013 7:13 AM



UNDISTURBED EARTH

- COMPACTED GRANULAR BACKFILL



BEND OR	22 1/2	22 1/2° BENDS		45° BENDS		90° BENDS		ES
BRANCH SIZE	В	D	В	D	В	D	В	D
6'	1'-0'	1'-0'	1'-0'	1*-0*	1'-4'	1'-2'	1'-3'	1'-0'
8'	1'-0'	1'-0'	1'-4'	1'-2'	1'-10*	1'-6'	1'-6'	1'-4'
12'	1'-4"	1'-4"	1'-10"	1'-10"	2'-8'	2'-3'	2'-3'	2'-0 <b>'</b>
16*	1'-10"	1'-8'	2'-6'	2'-4"	3'-10"	2'-10"	3'-2"	2'-4'
20'	2'-4"	2'-0'	3'-3"	2'-10'	5'-0 <b>'</b>	3'-4'	4'-0"	3'-0 <b>'</b>
24*	2'-10"	2'-4'	4'-0"	3'-3'	6'-4'	3'-10"	5′-3 <b>′</b>	3'-4'
30"	3'-6"	3'-0"	5'-4'	3'-10*	8'-0"	4'-8"	6'-3 <b>'</b>	4'-3'

#### - NOTES -

DIMENSIONS IN TABLE ARE BASED ON A WATER PRESSURE OF 150 P.S.I. AND AN EARTH RESISTANCE OF 2 TONS PER SQ. FOOT 1.

BLOCKING TO BE SET AGAINST UNDISTURBED SOIL. 2.

З.

CONCRETE SHALL BE CLASS '1F'

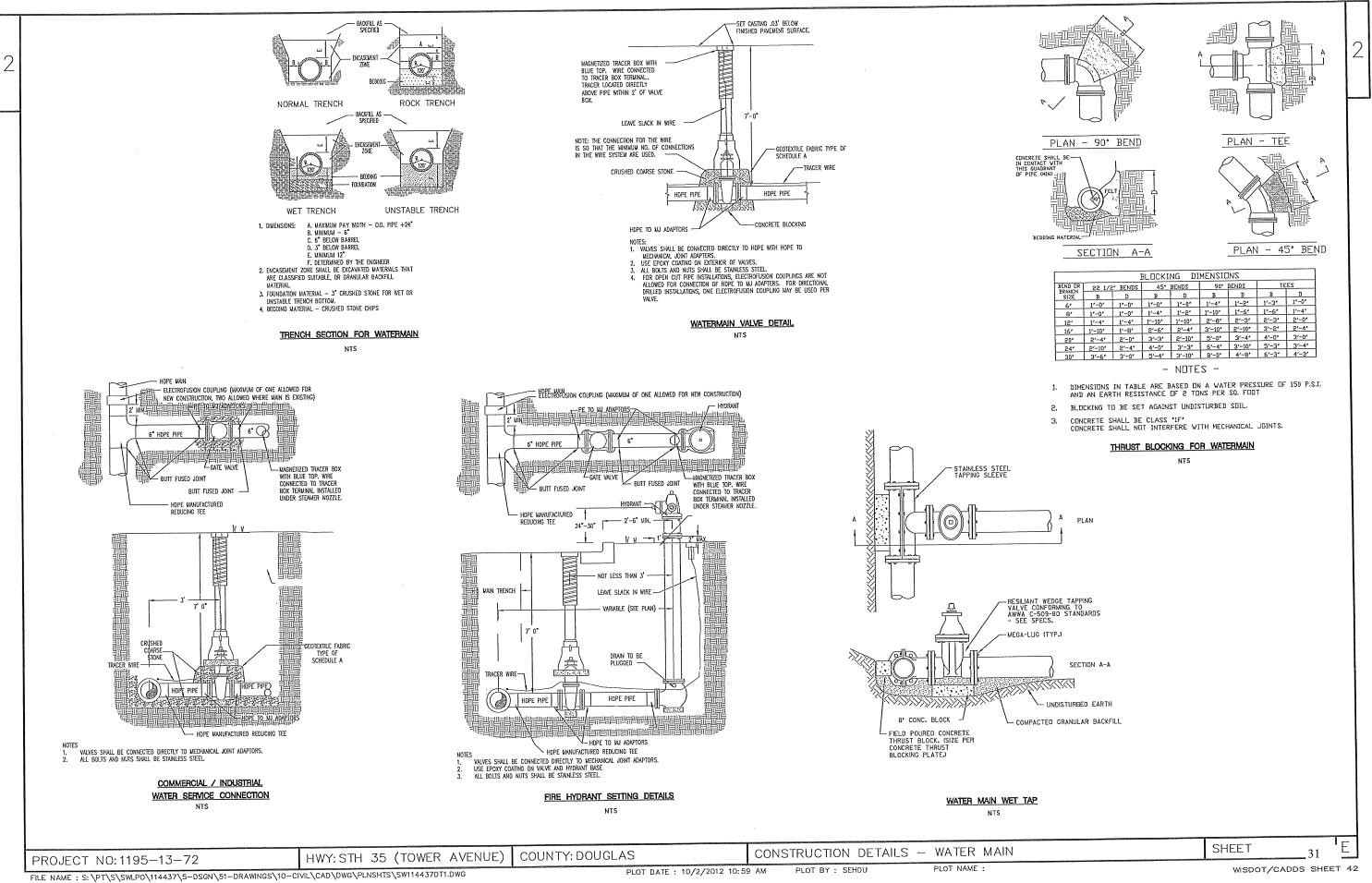
CONCRETE SHALL NOT INTERFERE WITH MECHANICAL JOINTS.

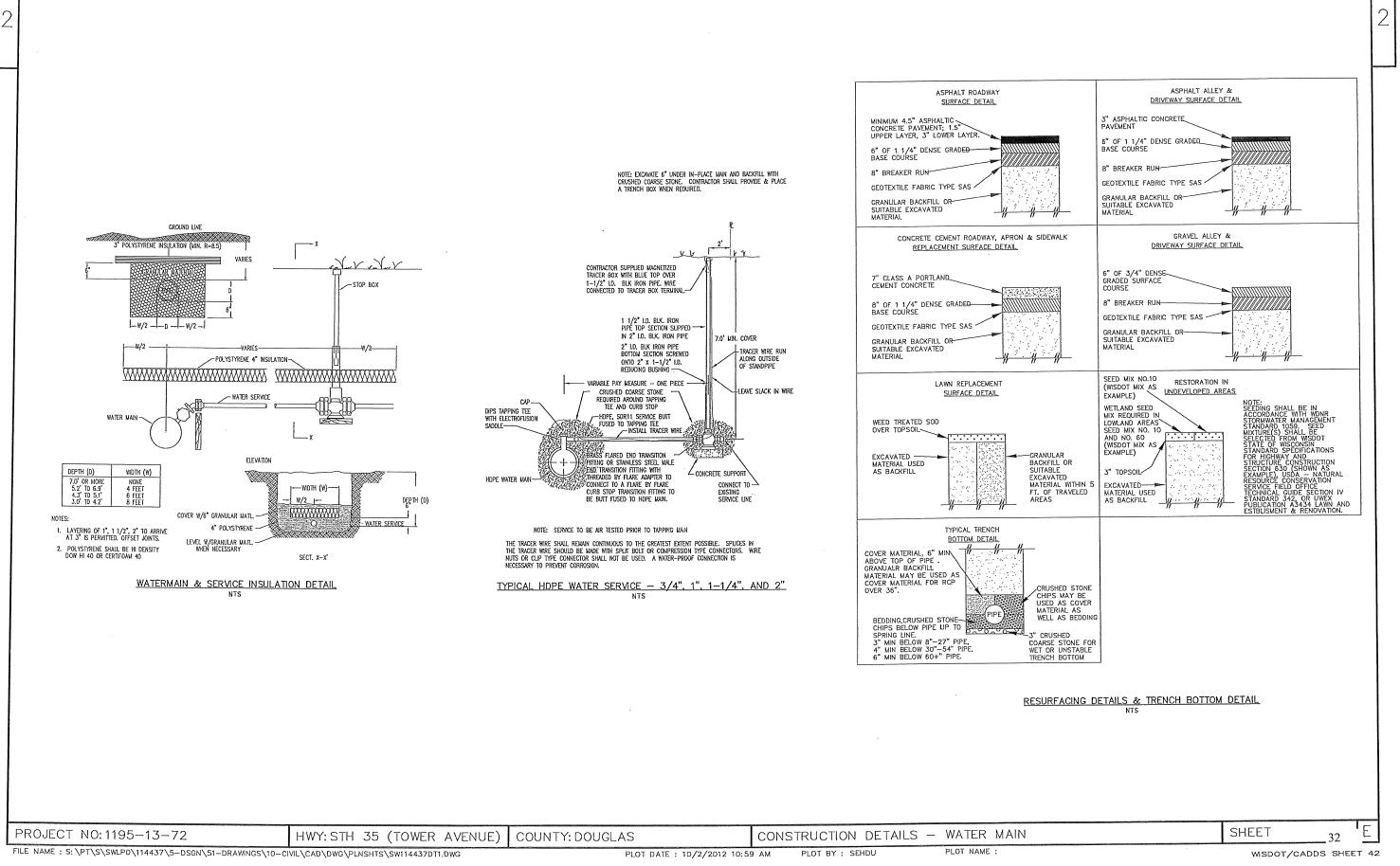
### THRUST BLOCKING FOR WATERMAIN

NTS

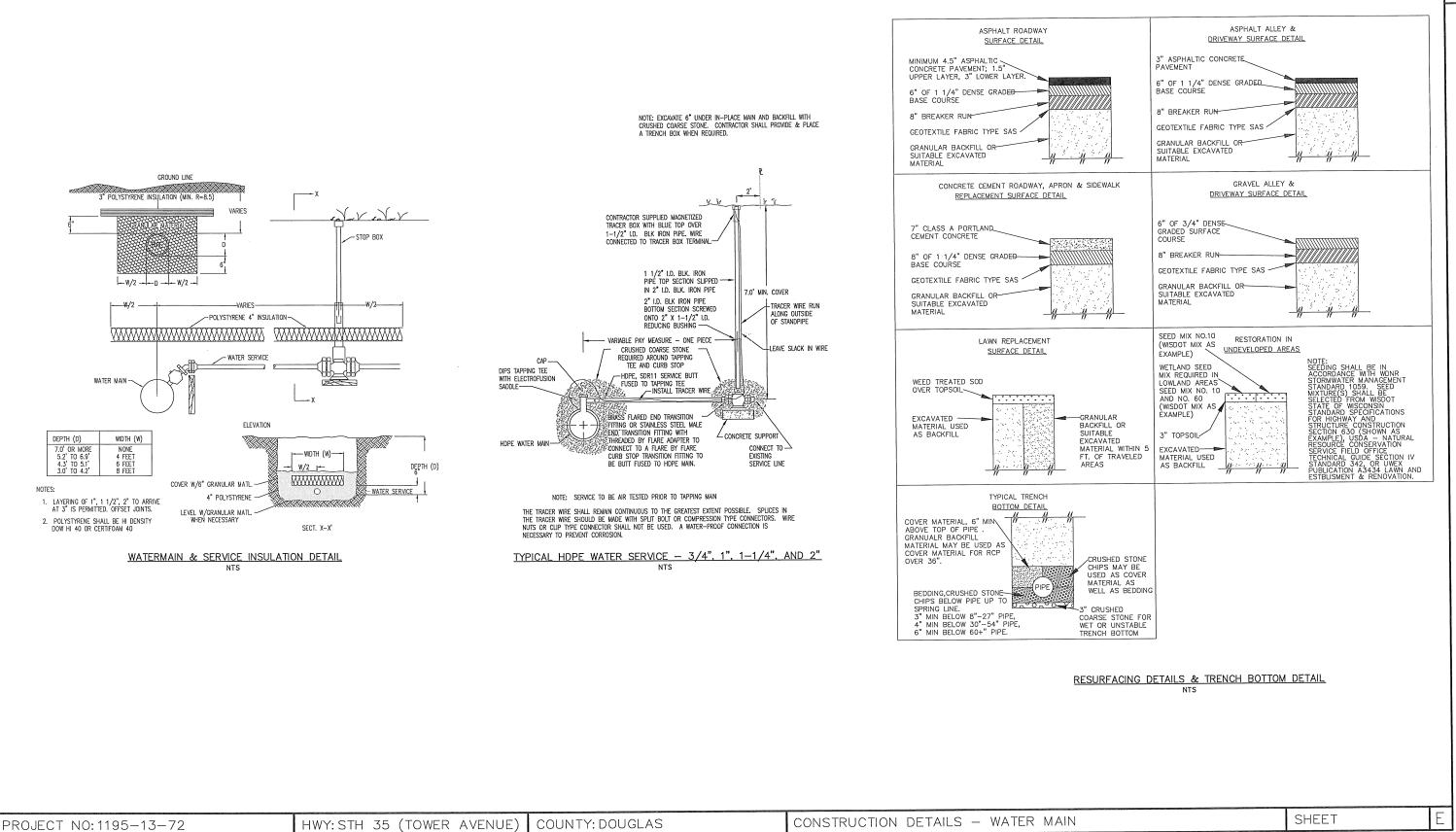
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WISDOT/CADDS SHEET 42





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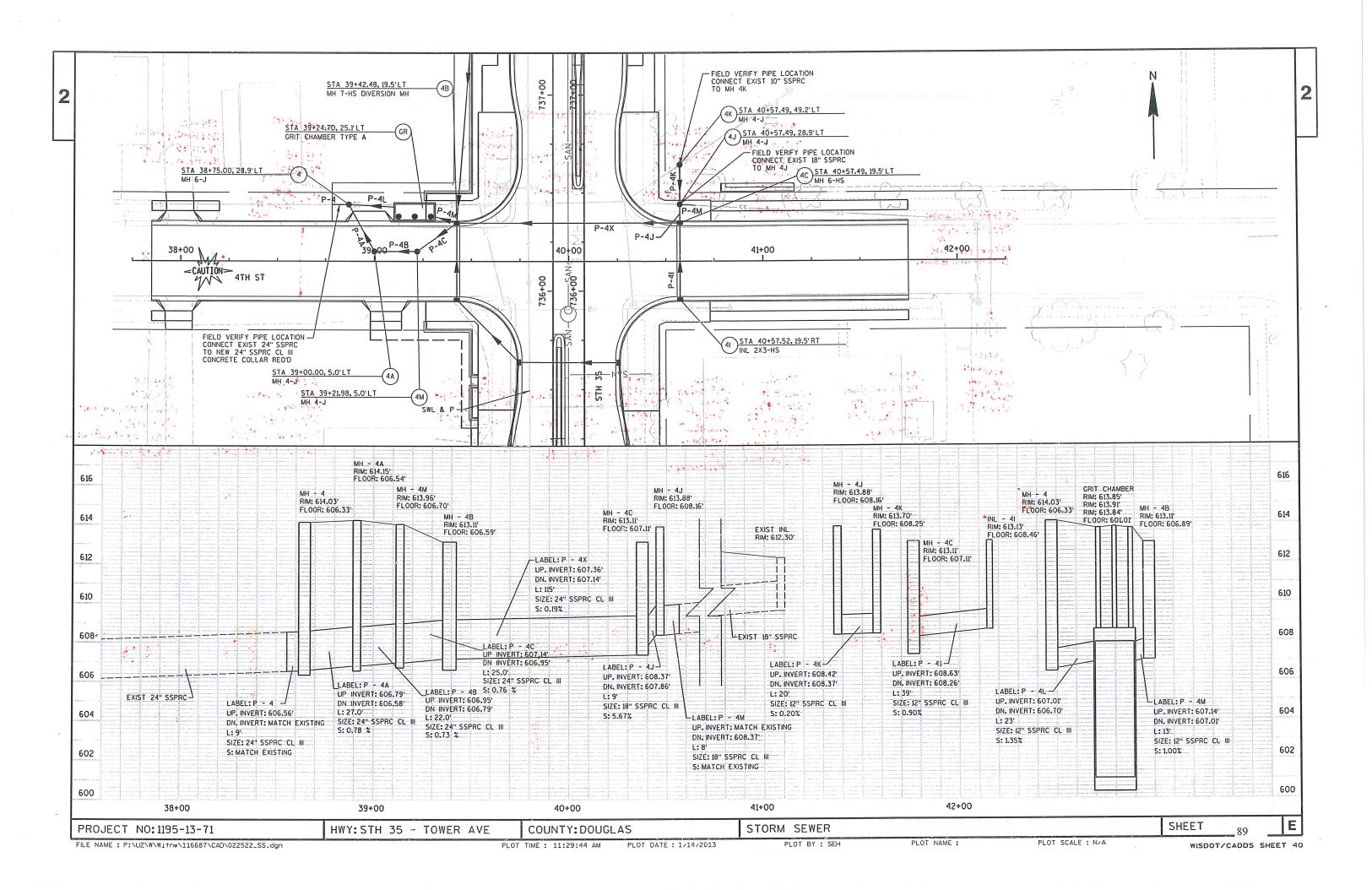


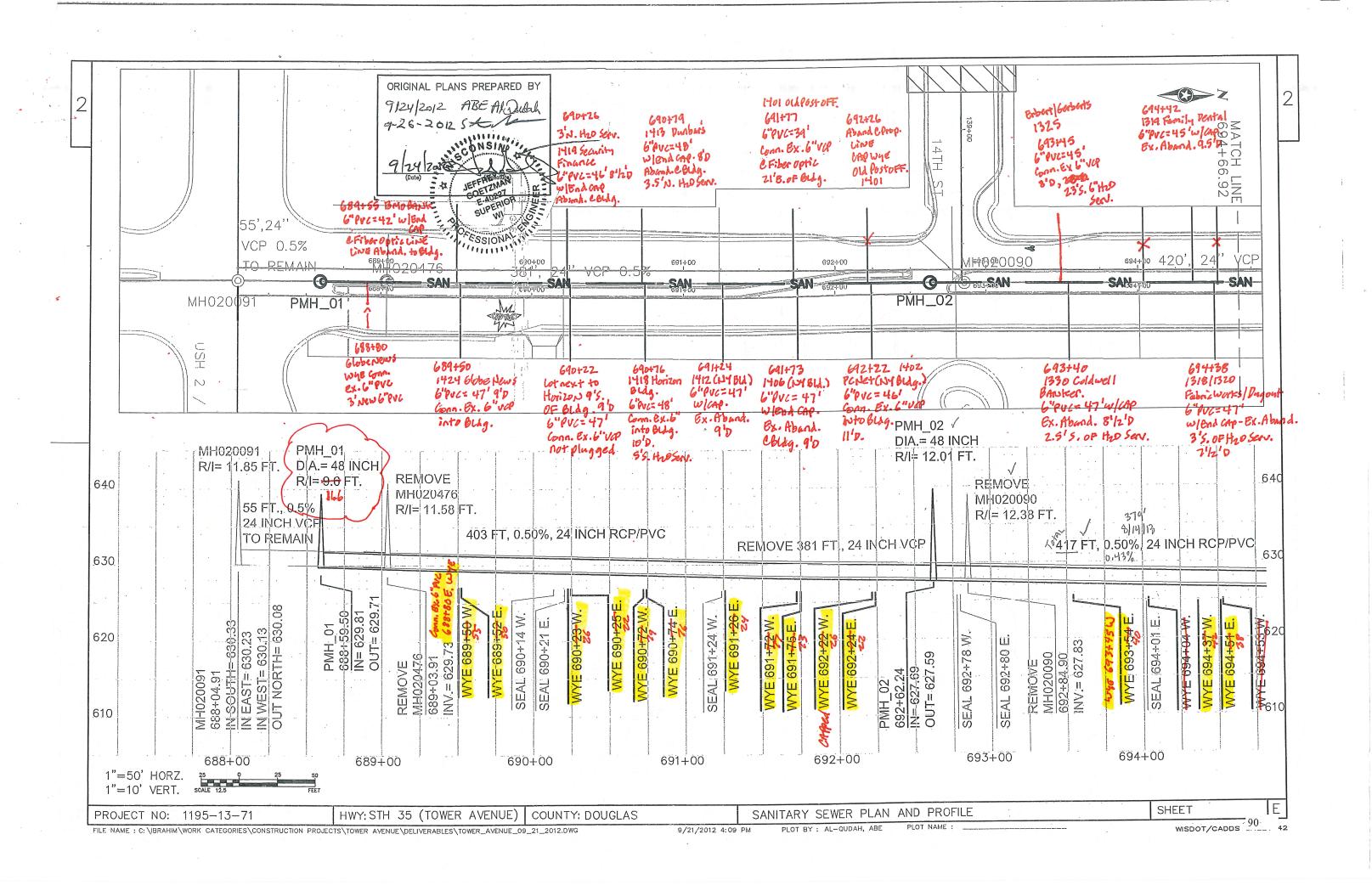
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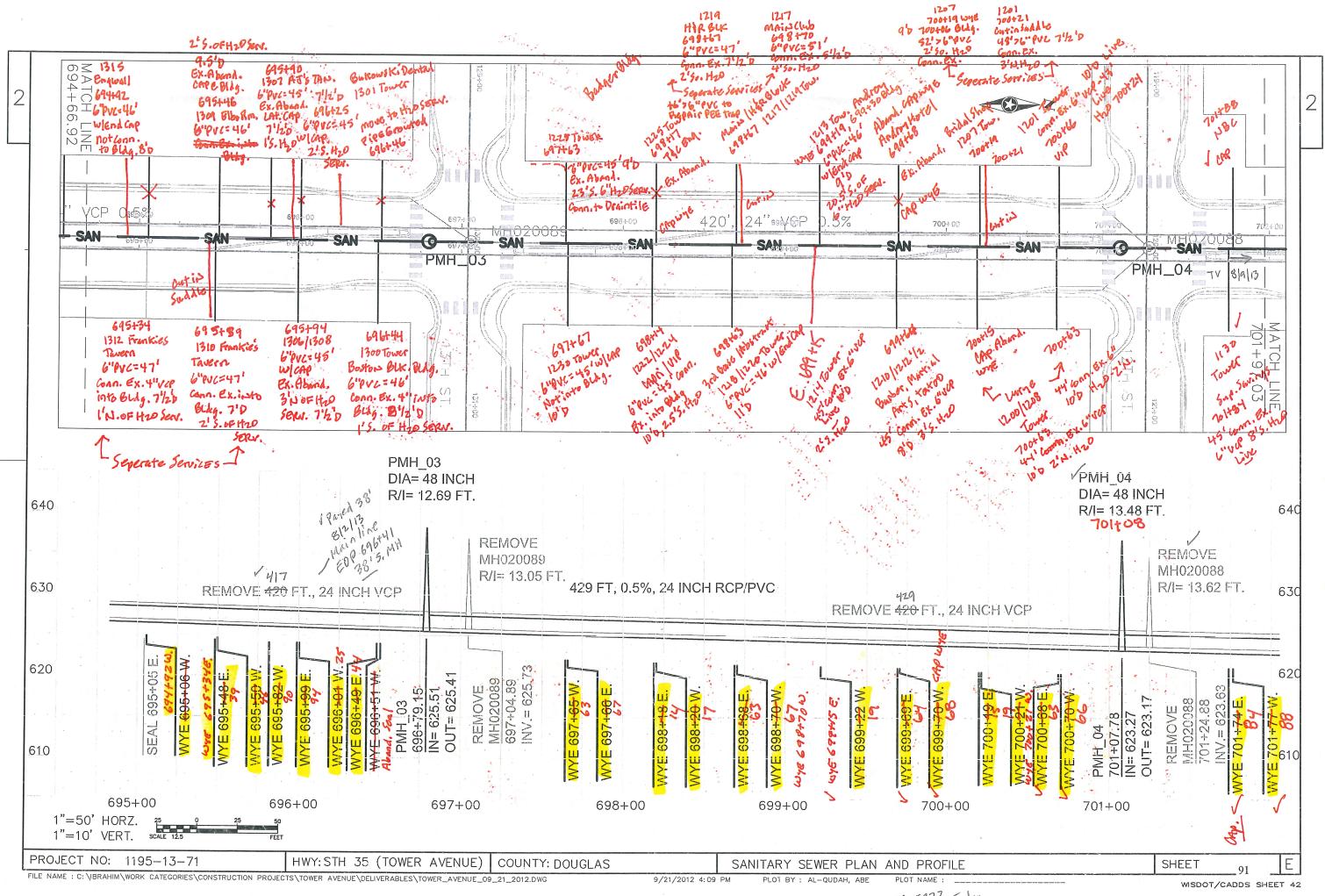
PLOT DATE : 4/23/2013 7:13 AM PLOT BY : SEHDU

PLOT NAME :

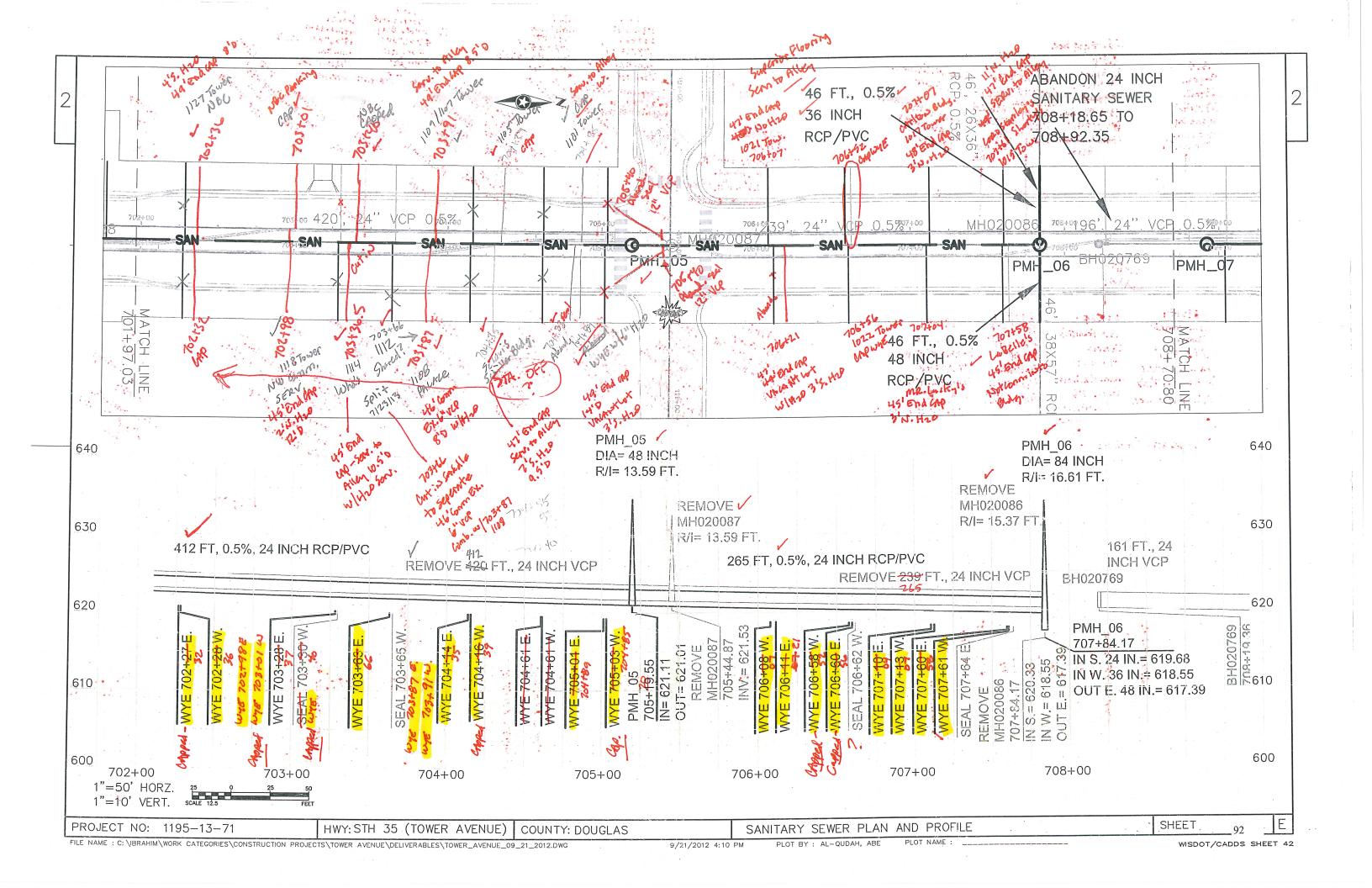
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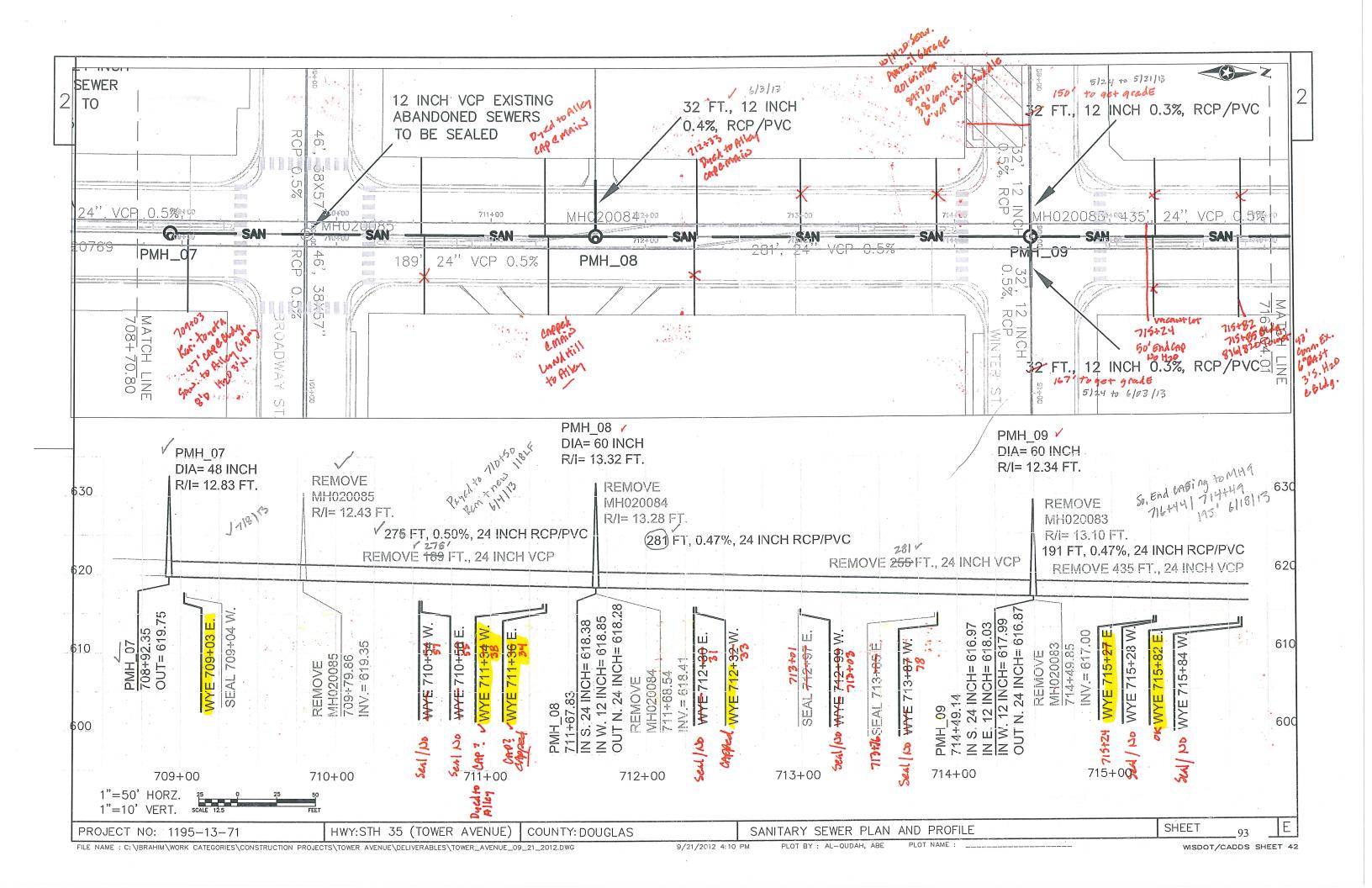


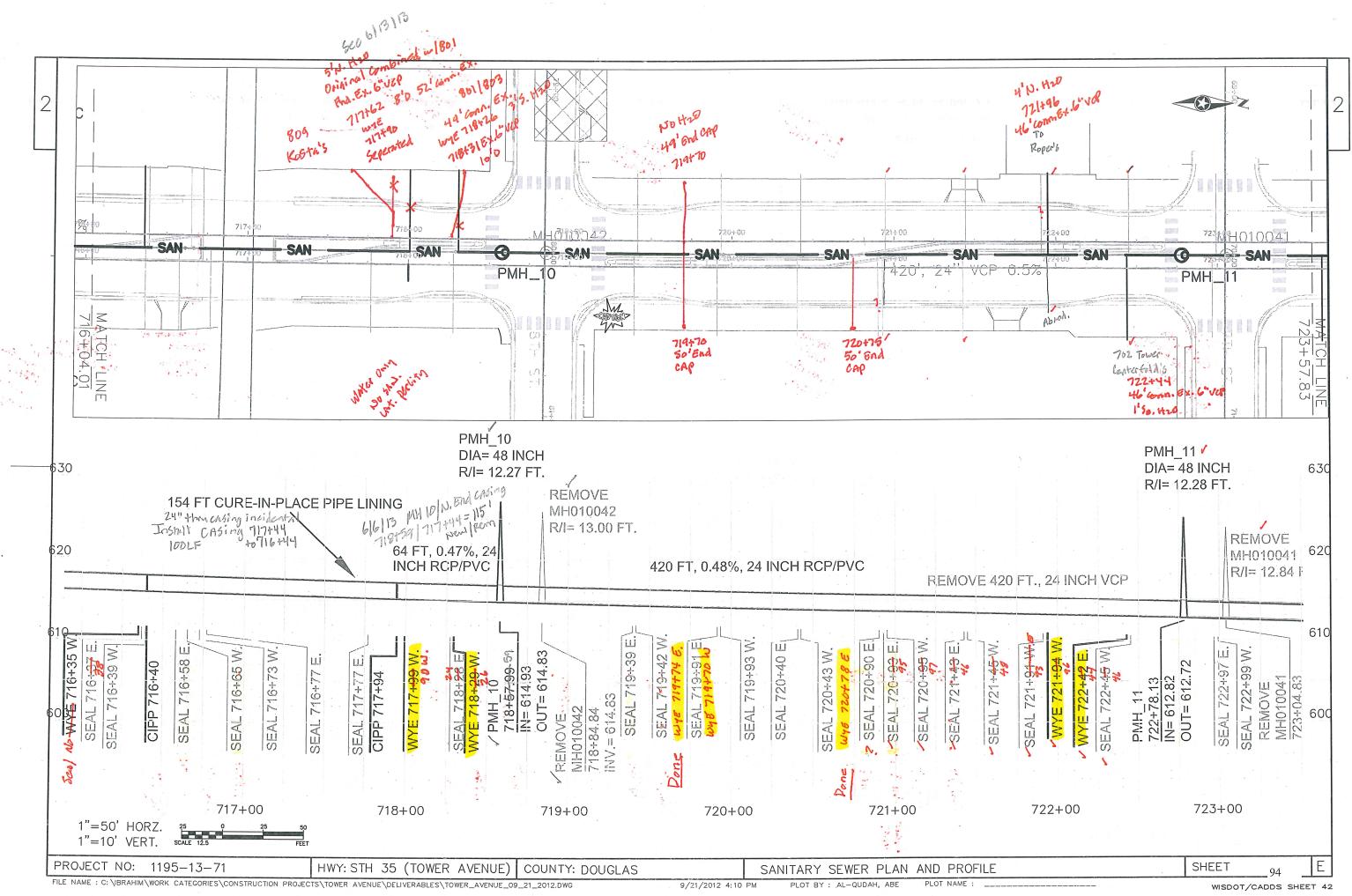


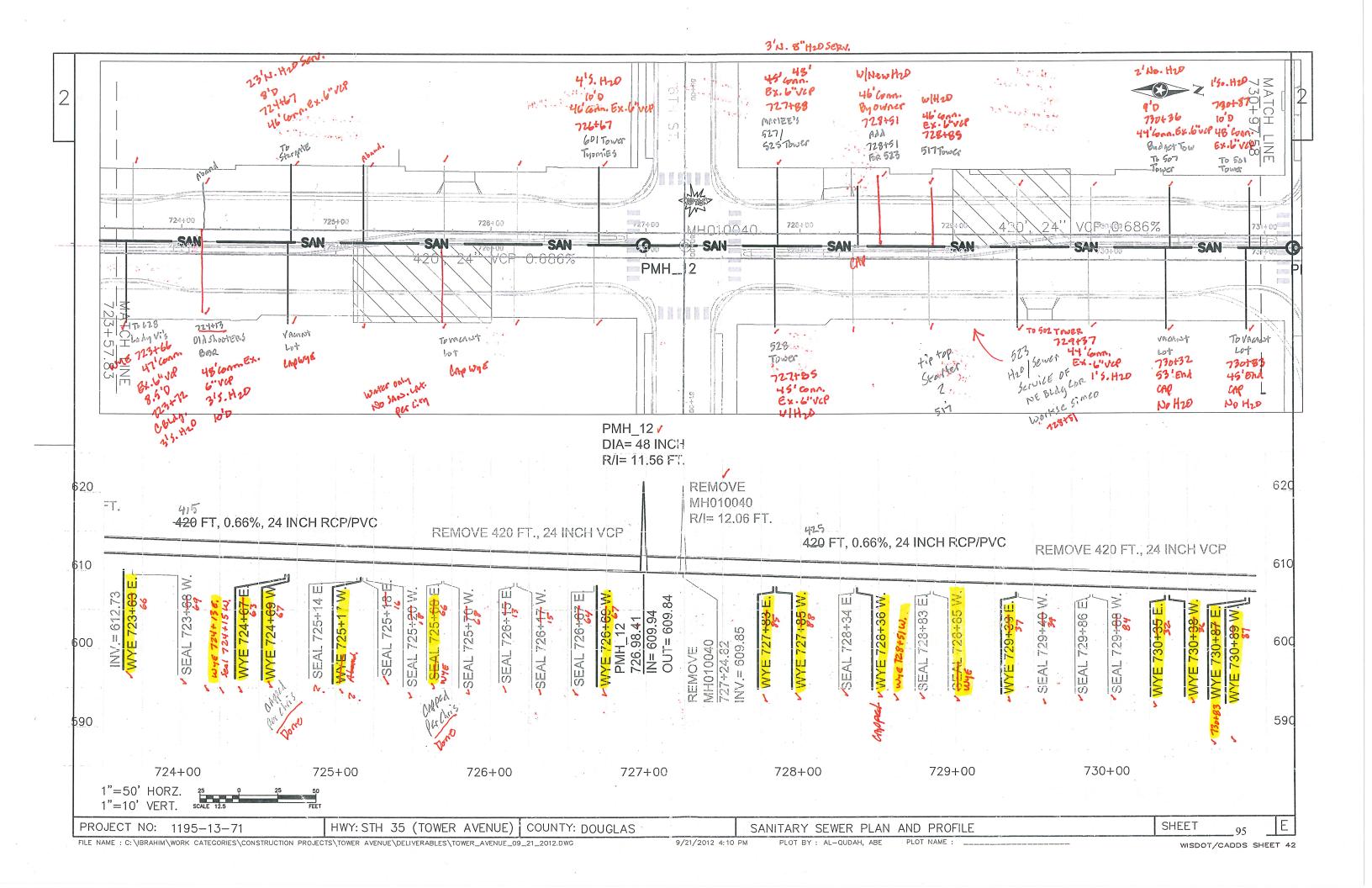


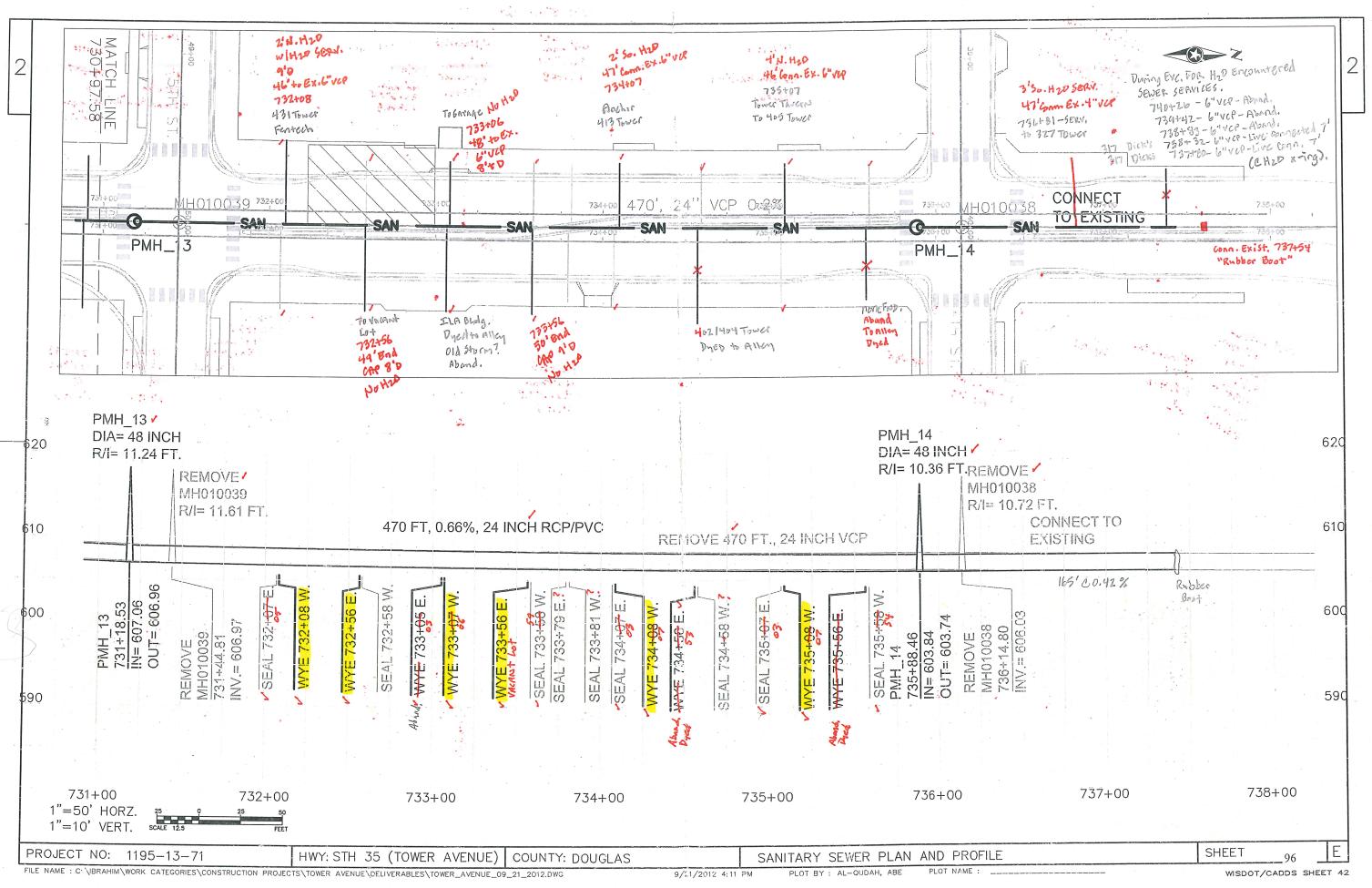
218- 349-5972 Tyles

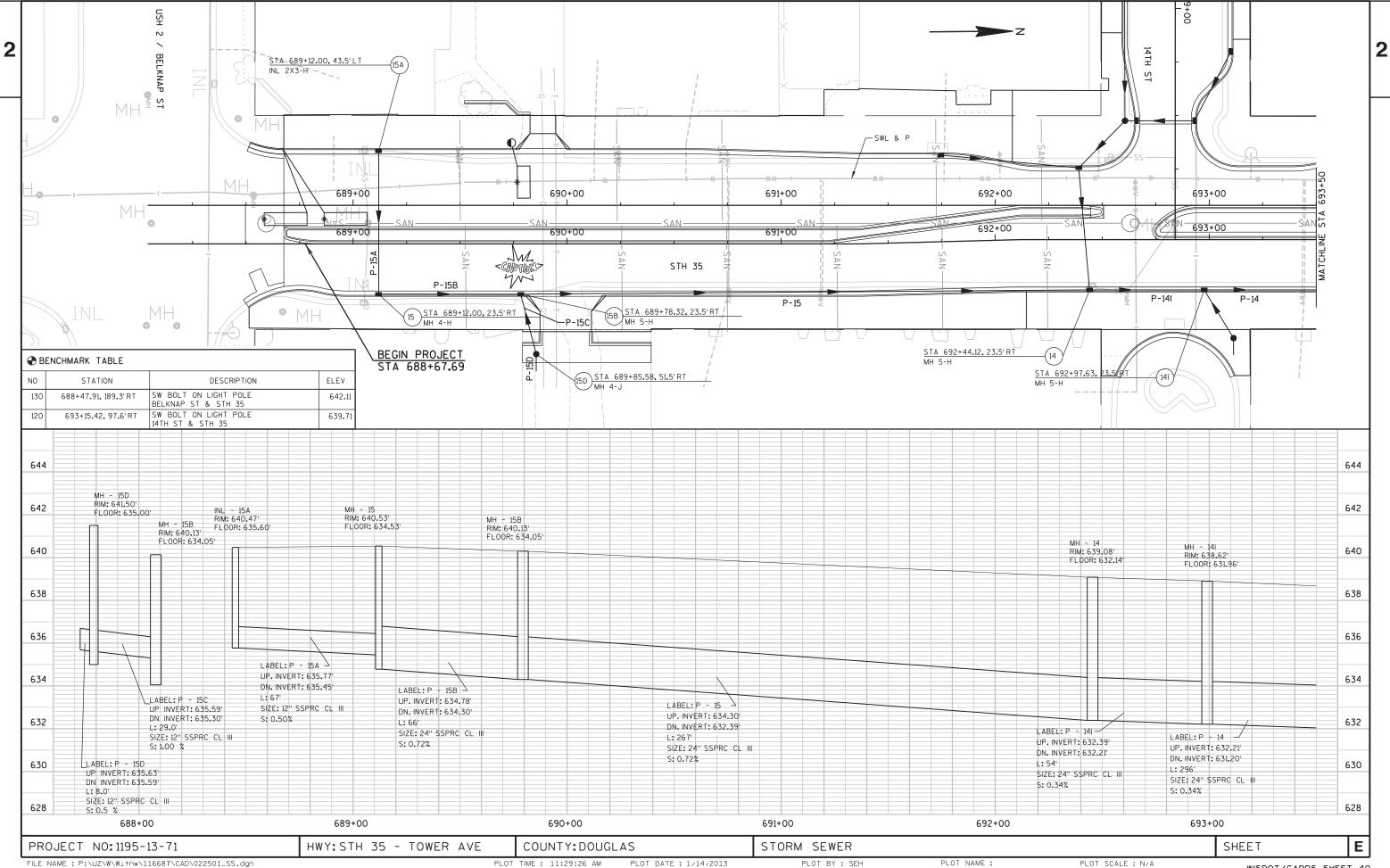


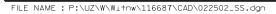




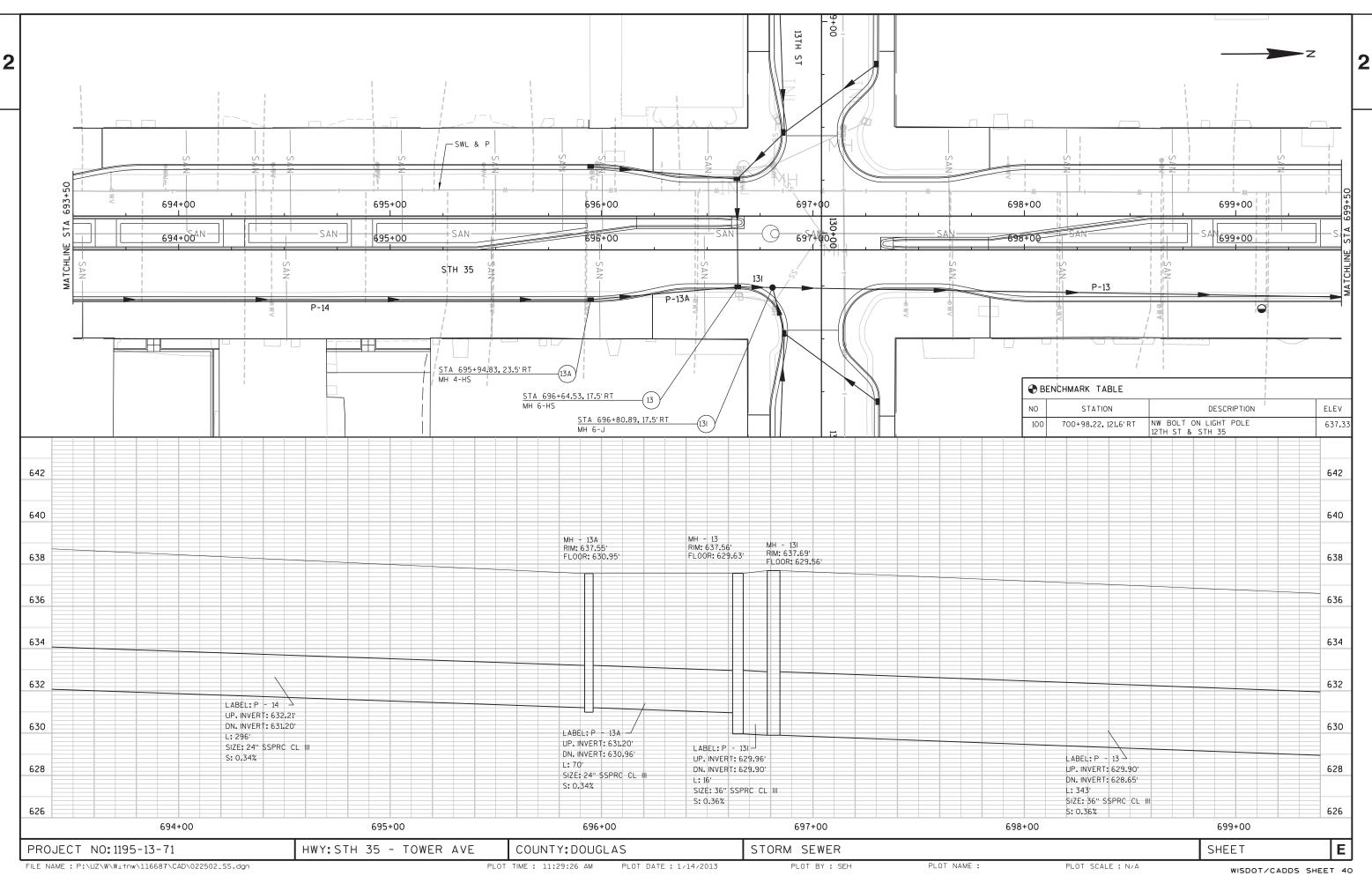


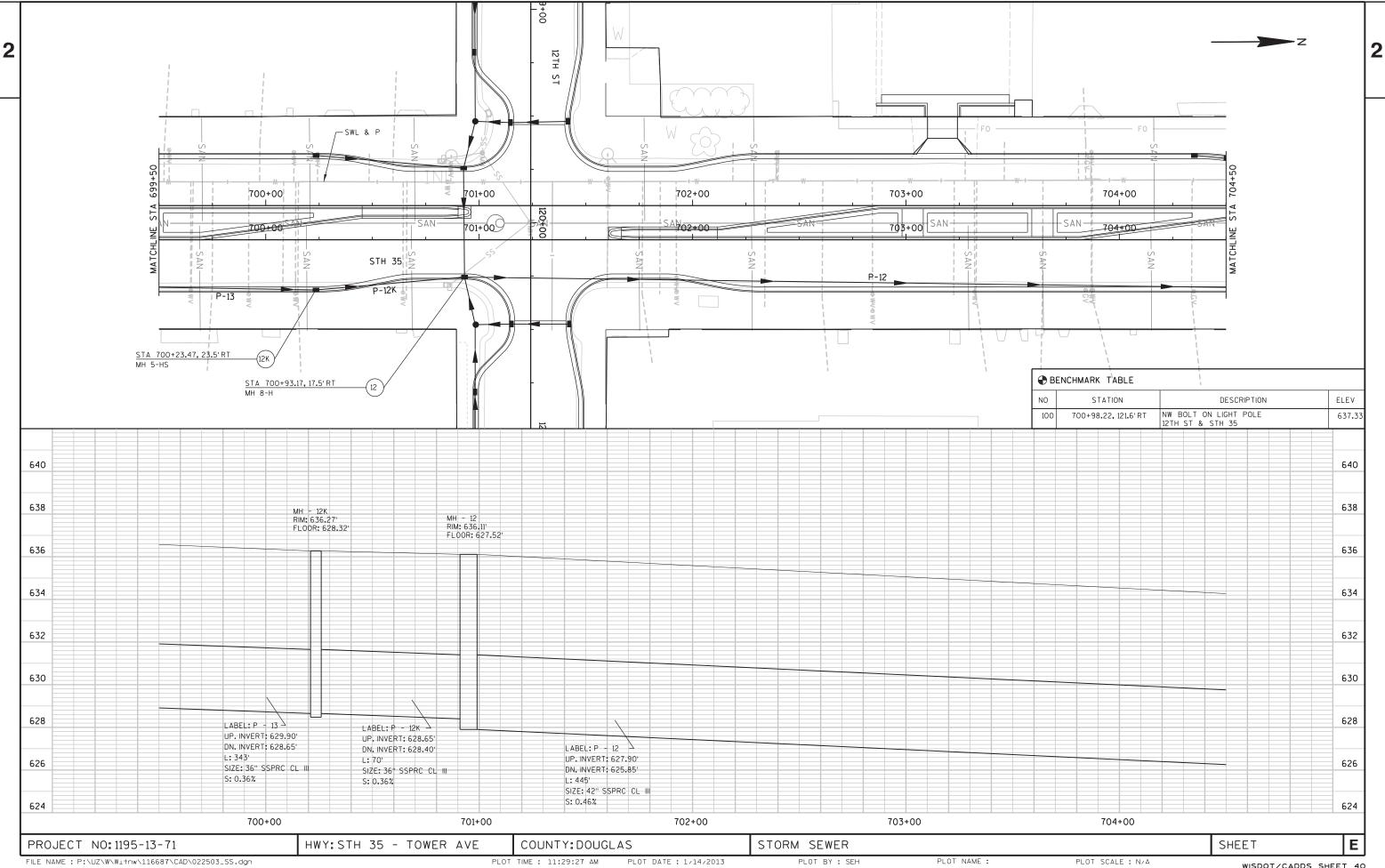


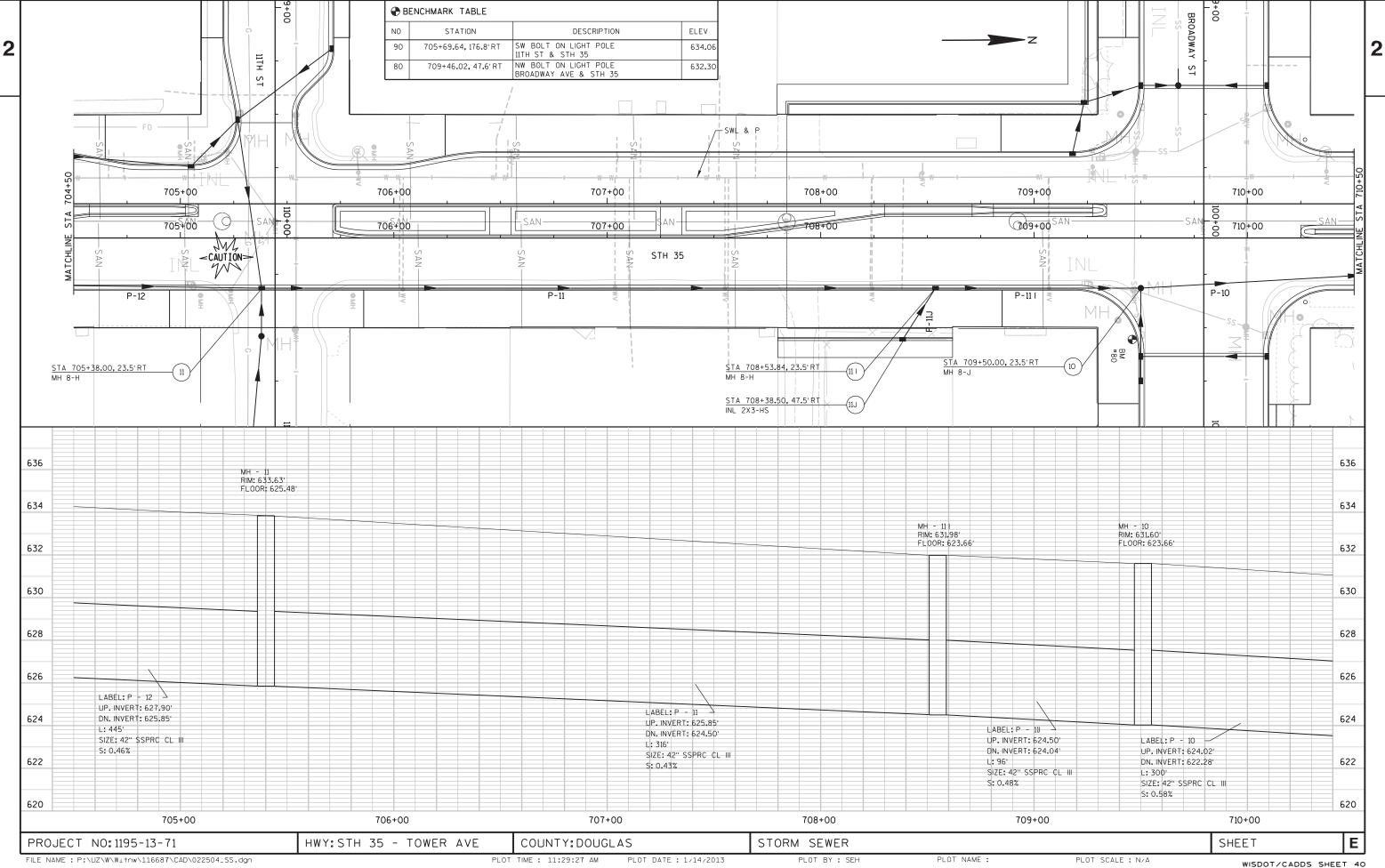




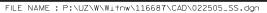
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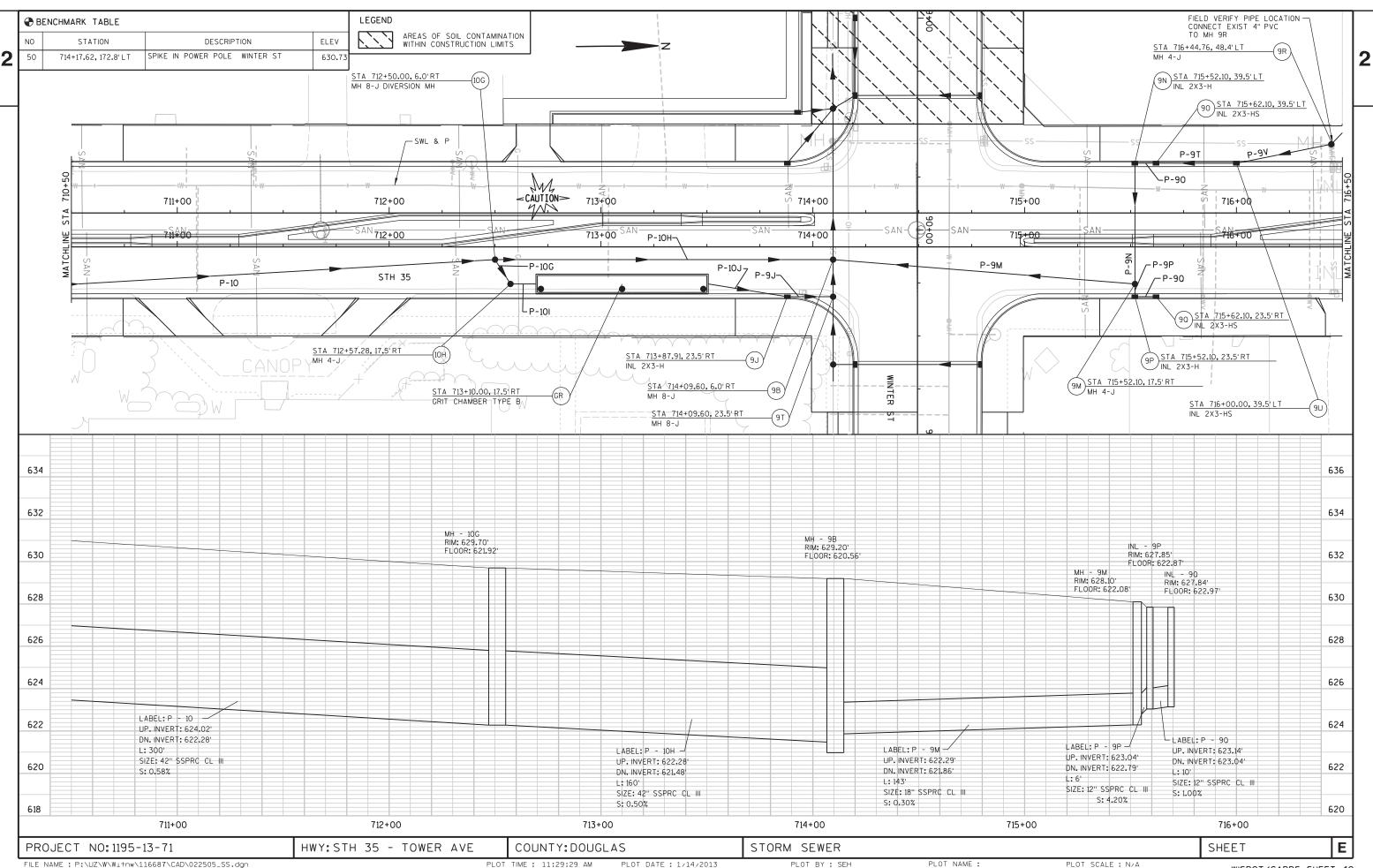


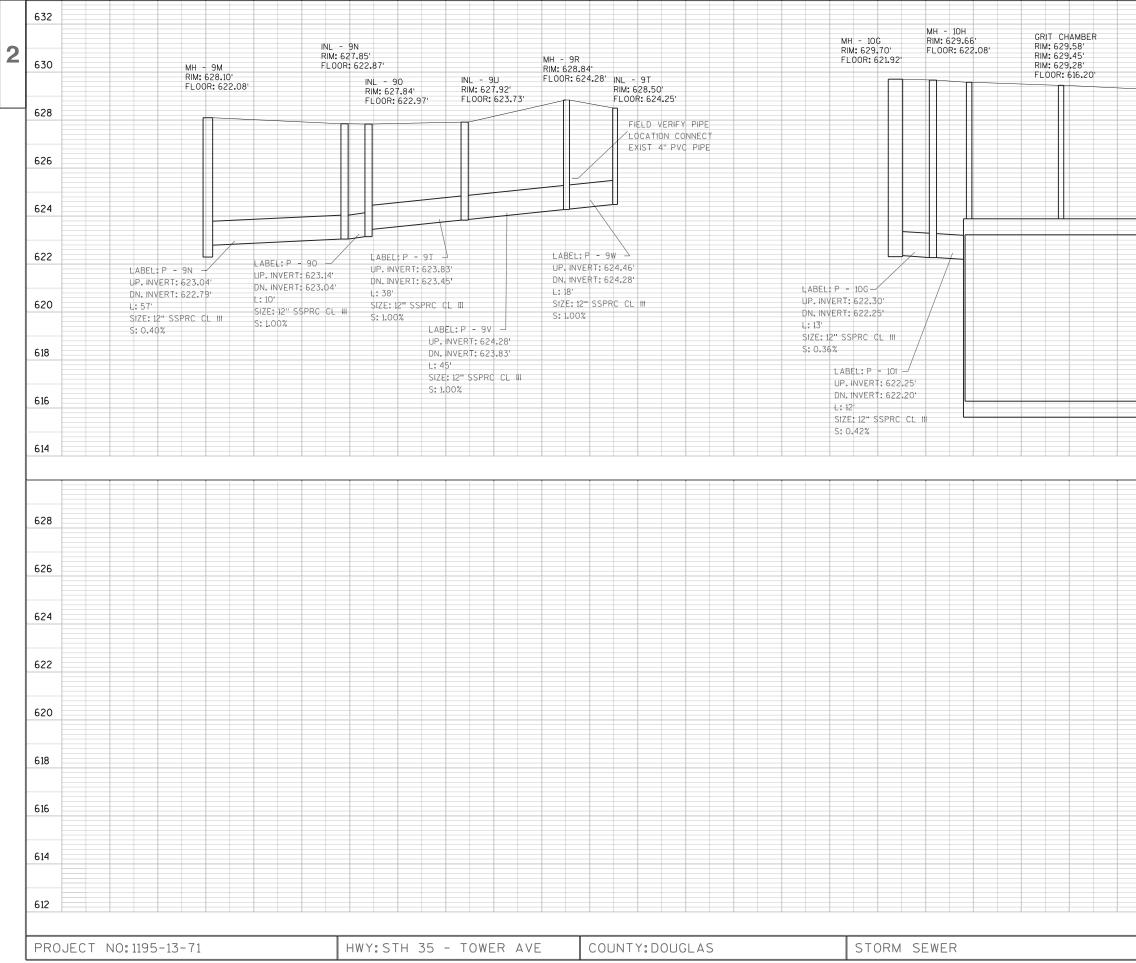
636				636
634				634
	INL - 11J RIM: 632.75' FLOOR: 627.30' MH - 111 RIM: 631.98' FLOOR: 623.66'			
632				632
630				630
628				628
626	LABEL: P - 11J UP. INVERT: 627.47'			626
624	DN. INVERT: 627.04'			624
622				622
620				620
618				618
628				628
626				626
624				624
622				622
620				620
518				618
516				616
614				614
612				612
PROJECT NO:1195-13	-71 HWY:STH 35 - TOWER AV	E COUNTY:DOUGLAS	STORM SEWER	SHEET



PLOT TIME : 11:29:29 AM

PLOT BY : SEH

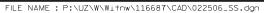




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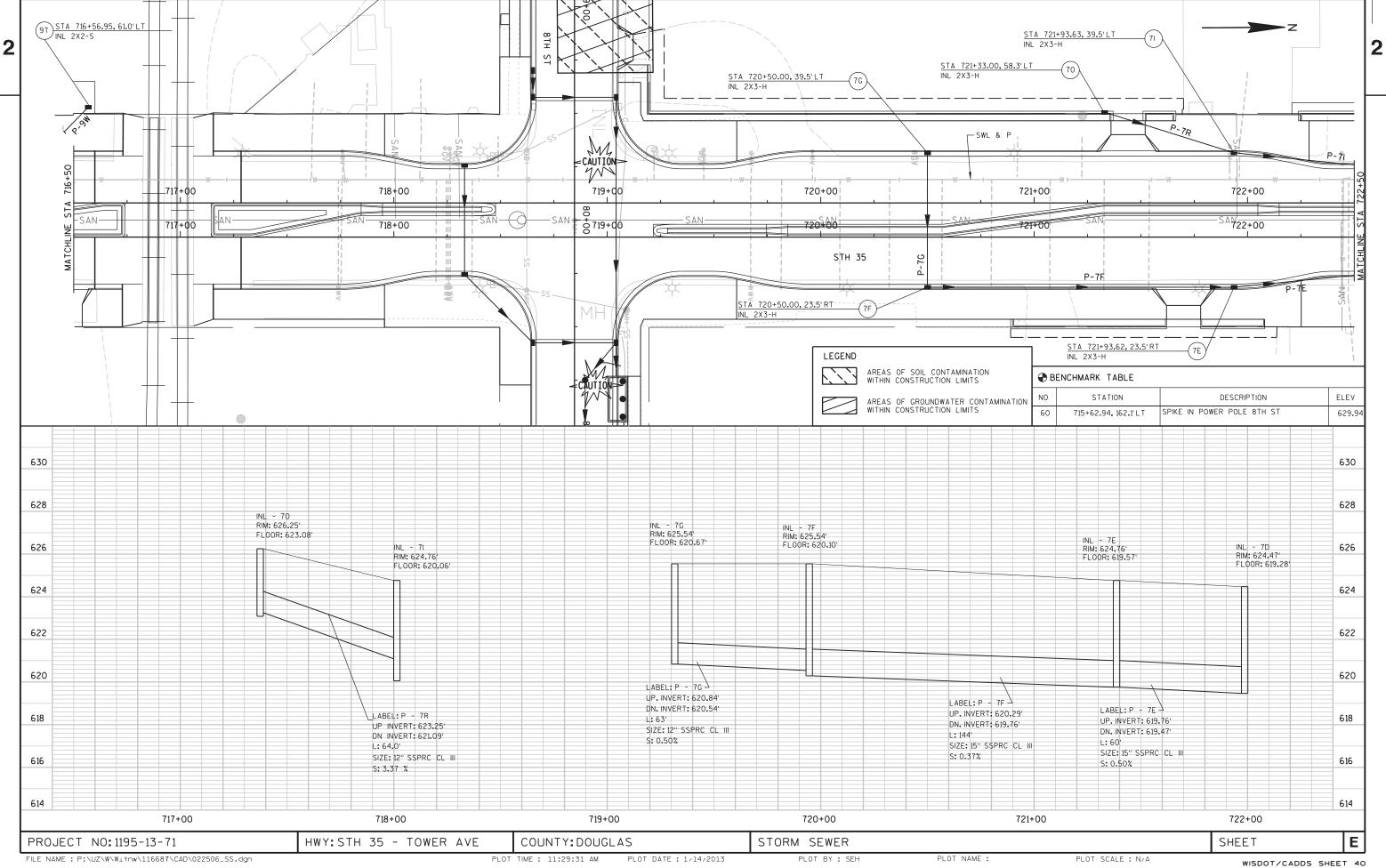
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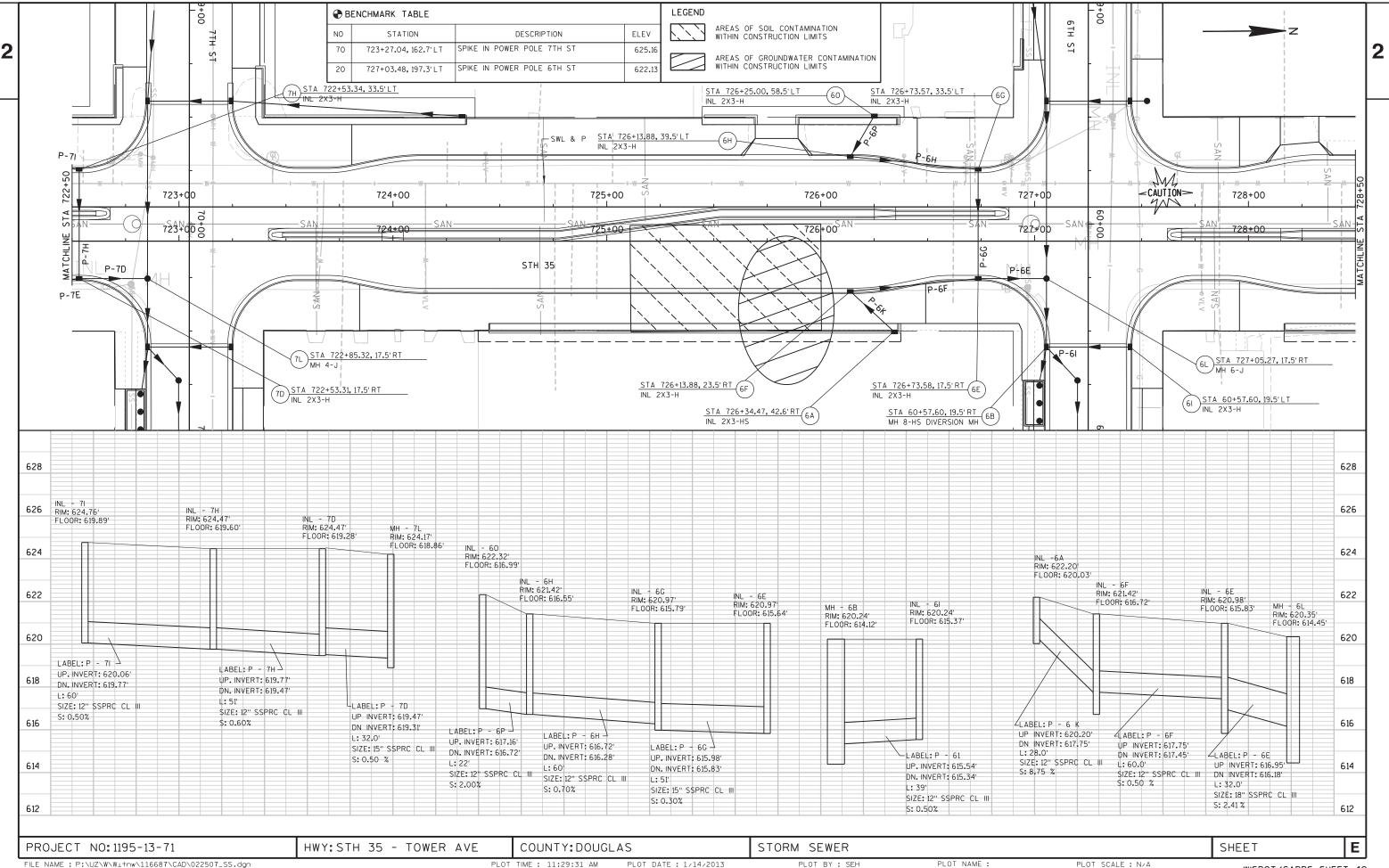
	632	
мн - 9т		
MH - 9T RIM: 629.12' INL - 9J FLOOR: 620.98' RIM: 628.86 FLOOP: 621.83'	630	2
FLOOR: 621.83'		
	628	
	626	
	624	
	622	
LABEL: P - 10J UP. INVERT: 622.20' UP. INVERT: 622.00'	620	
DN. INVERT: 622.00' DN. INVERT: 621.48' L: 40' L: 28'		
SIZE: 12" SSPRC CL III SIZE: 12" SSPRC CL III	618	
S: 0.50% S: 1.85%		
	616	
	614	
	628	
	626	
	624	
	622	
	620	
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	614	
	<b>C12</b>	
	612	



PLOT TIME : 11:29:31 AM

PLOT BY : SEH

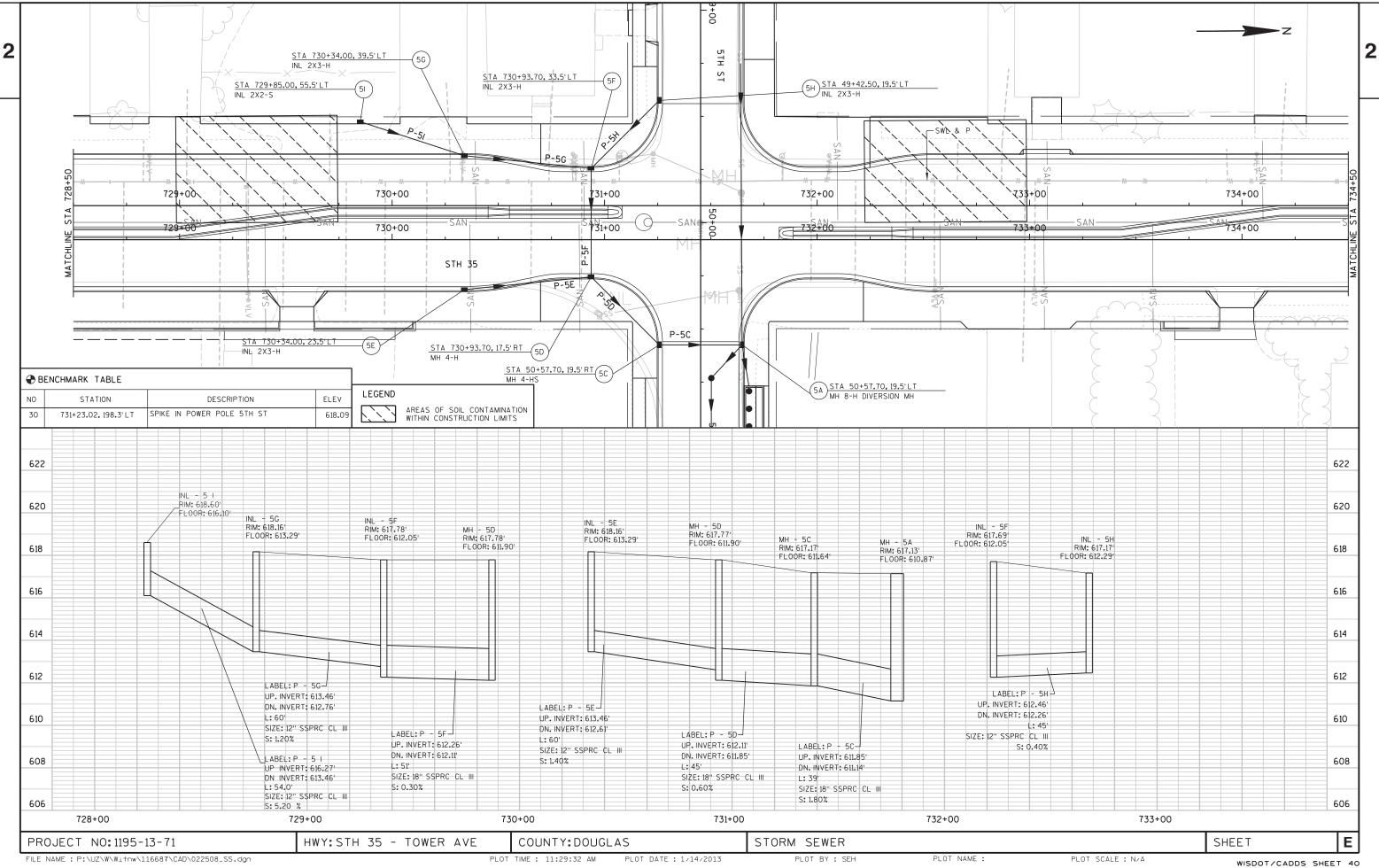




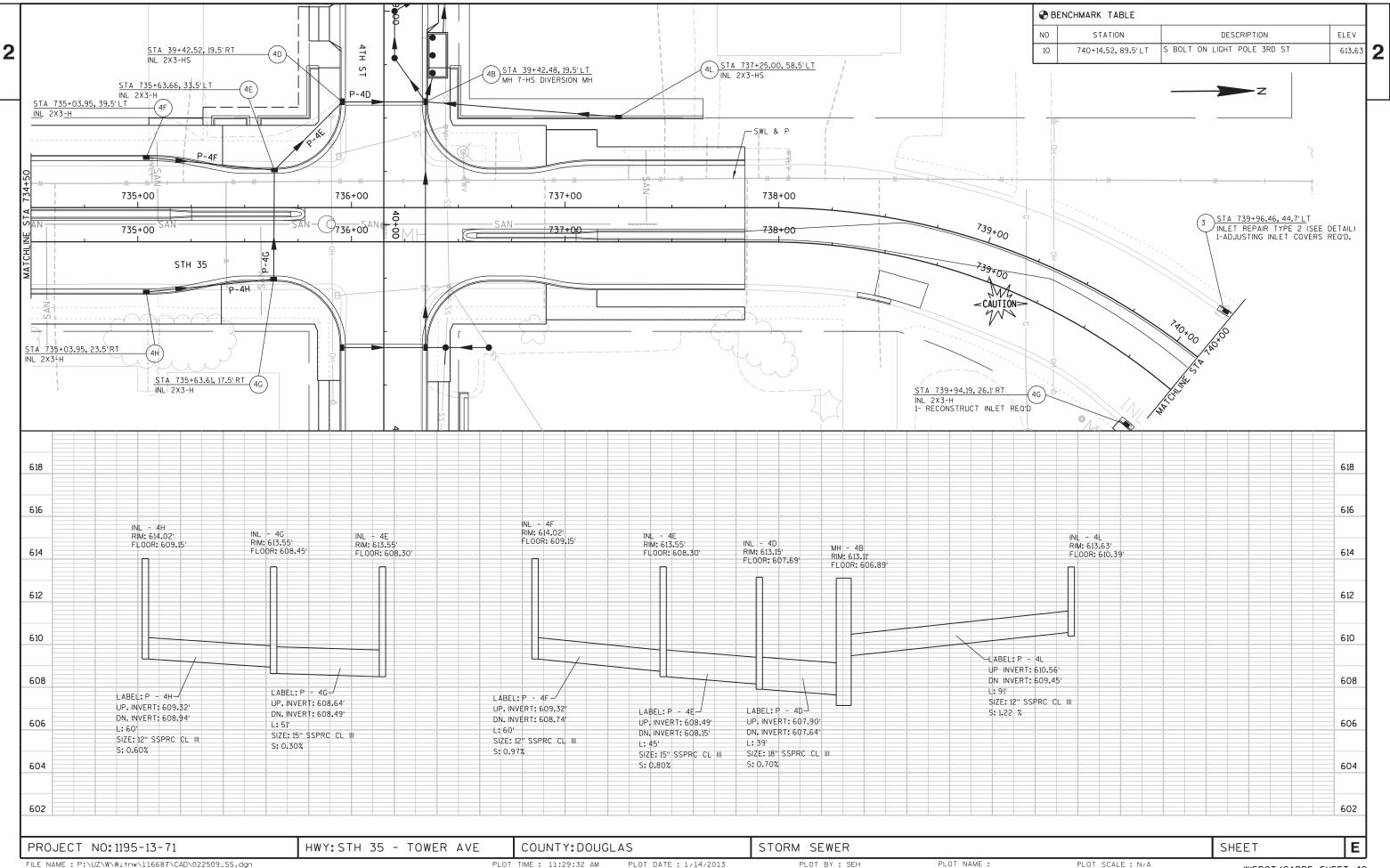
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PLOT BY : SEH

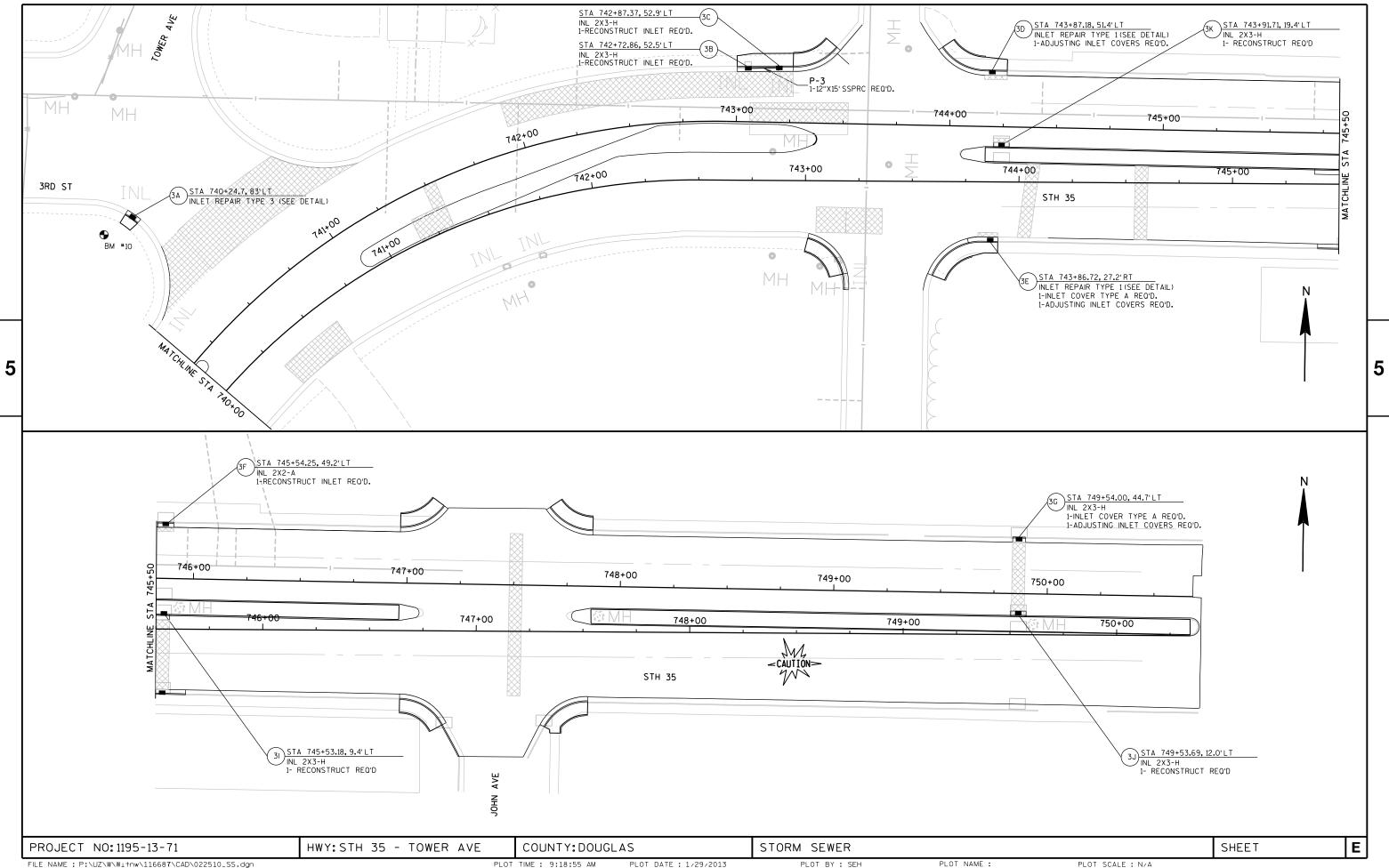


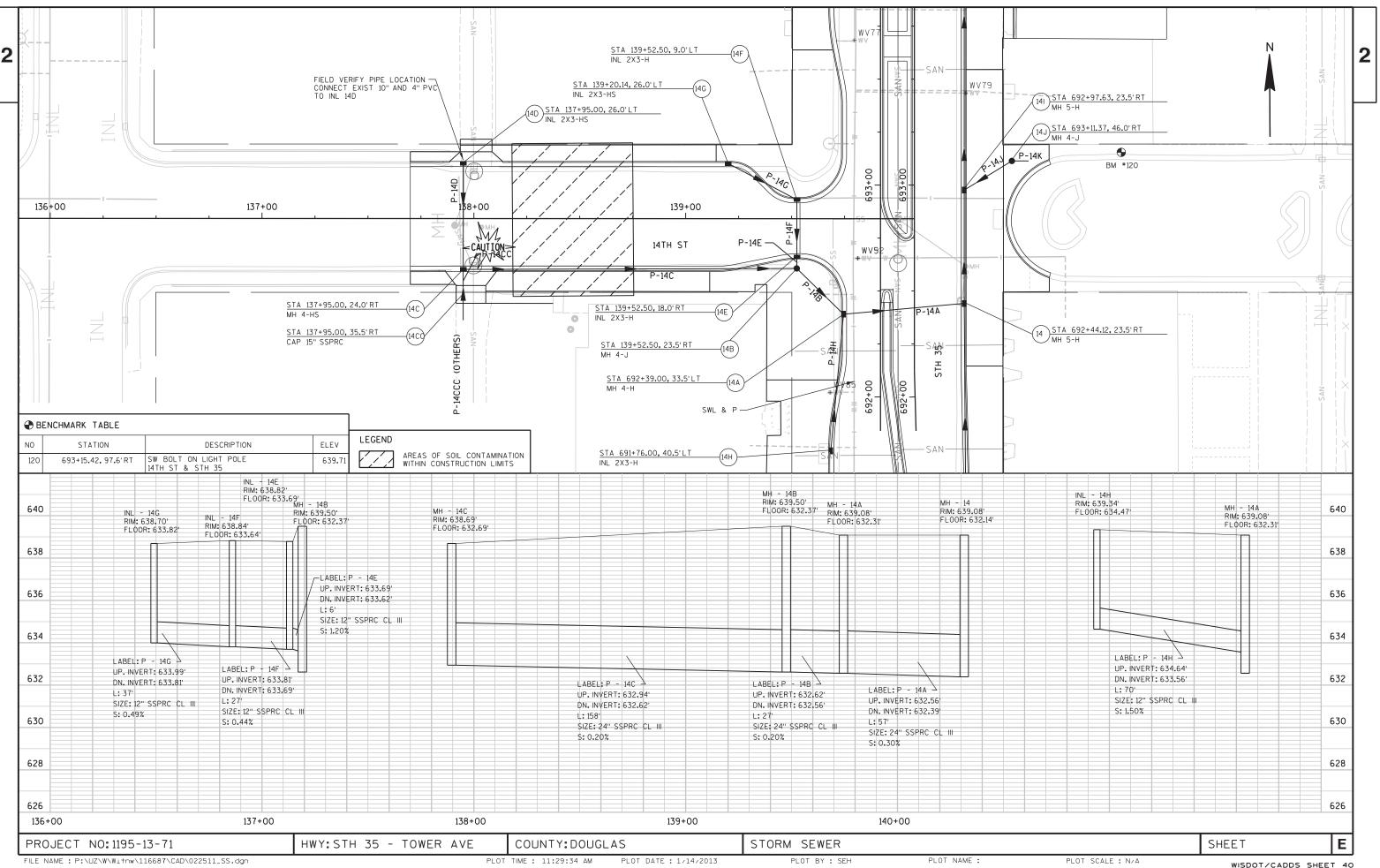
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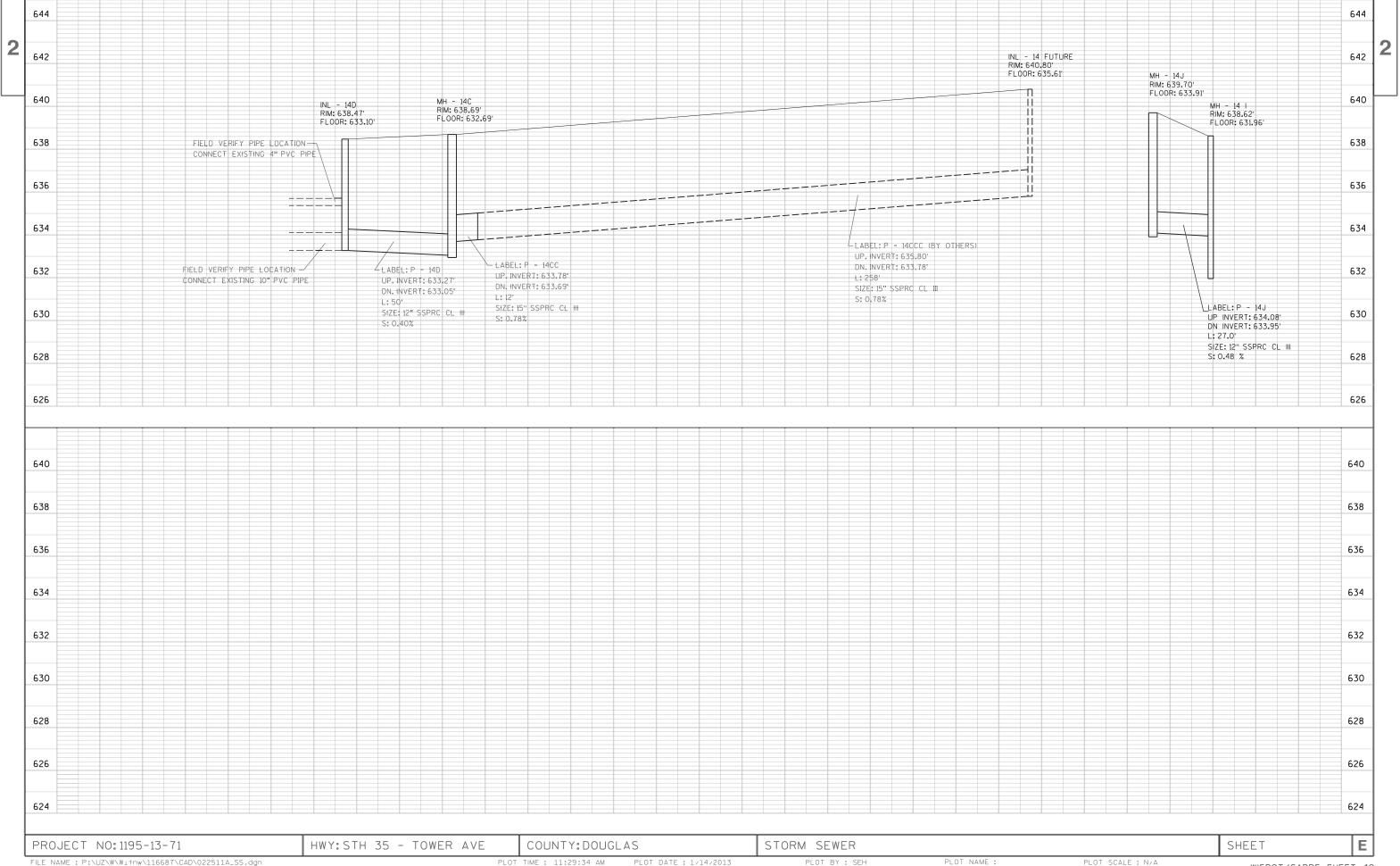


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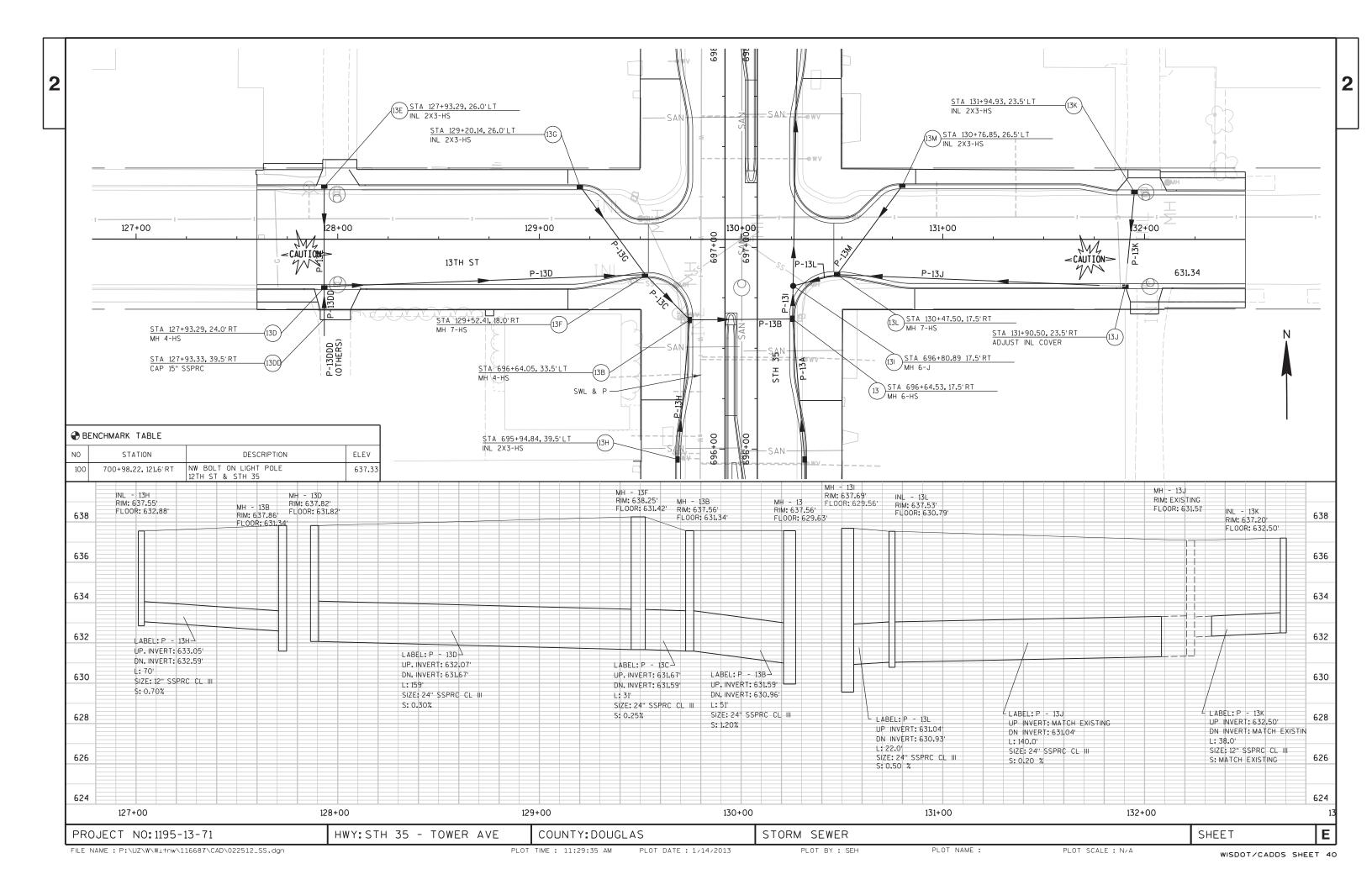


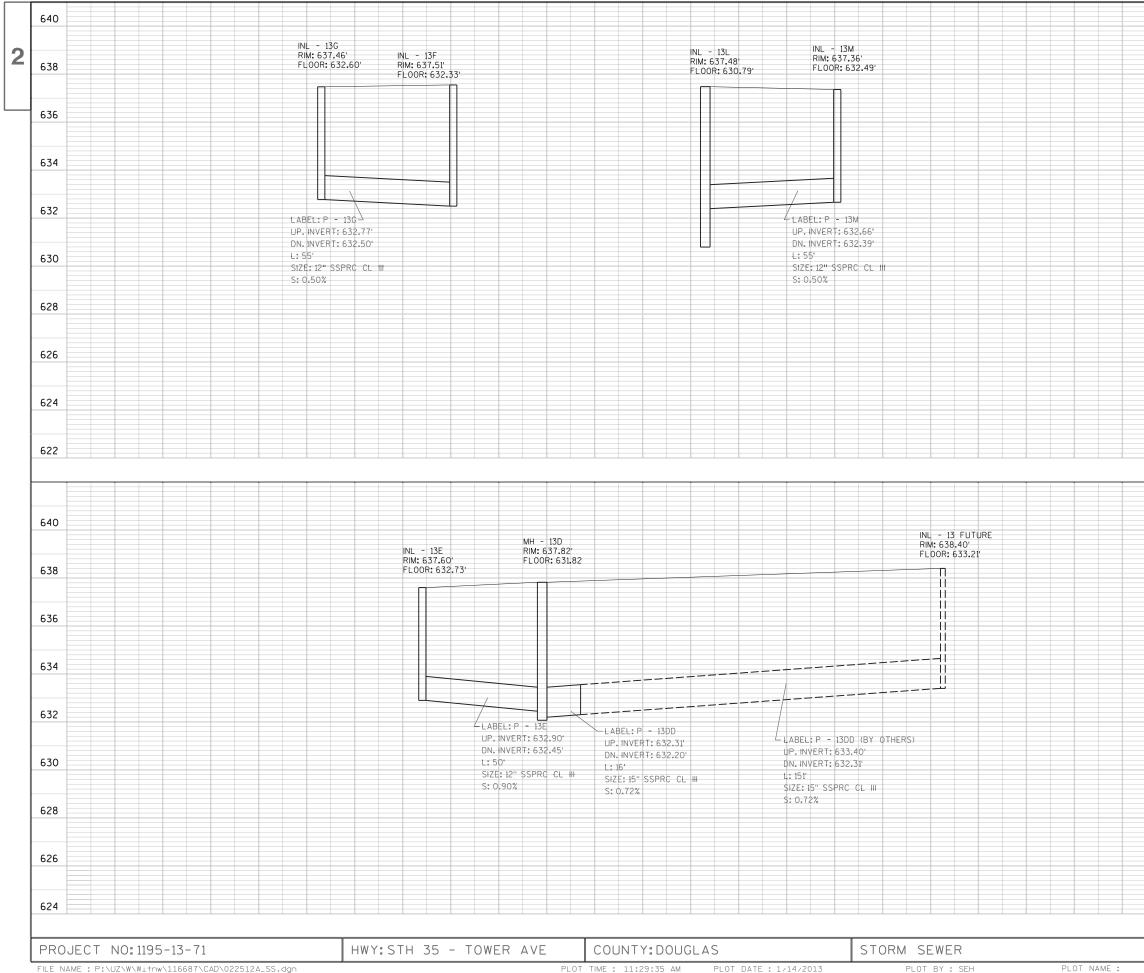




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PLOT TIME : 11:29:34 AM PLOT DATE : 1/14/2013

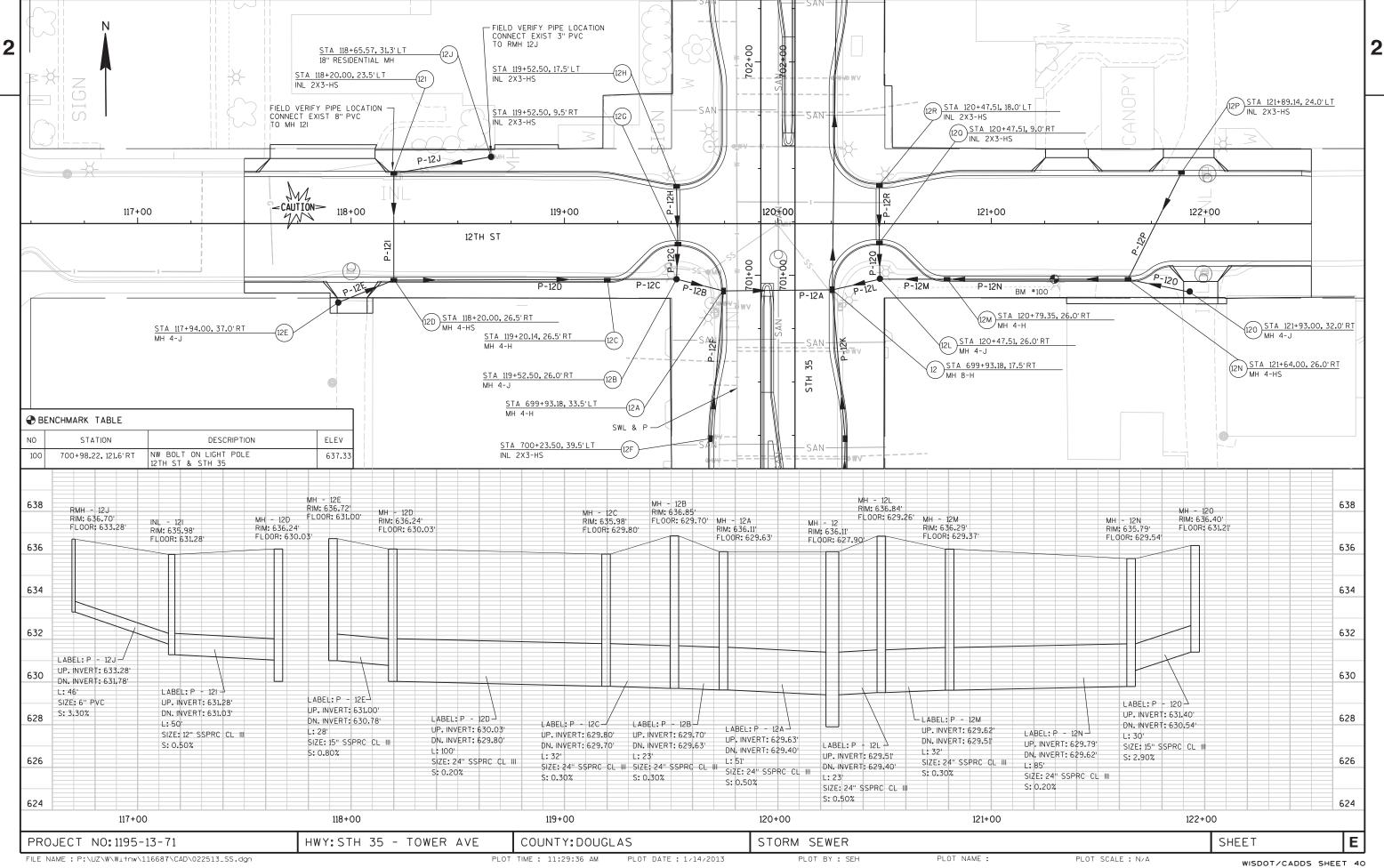


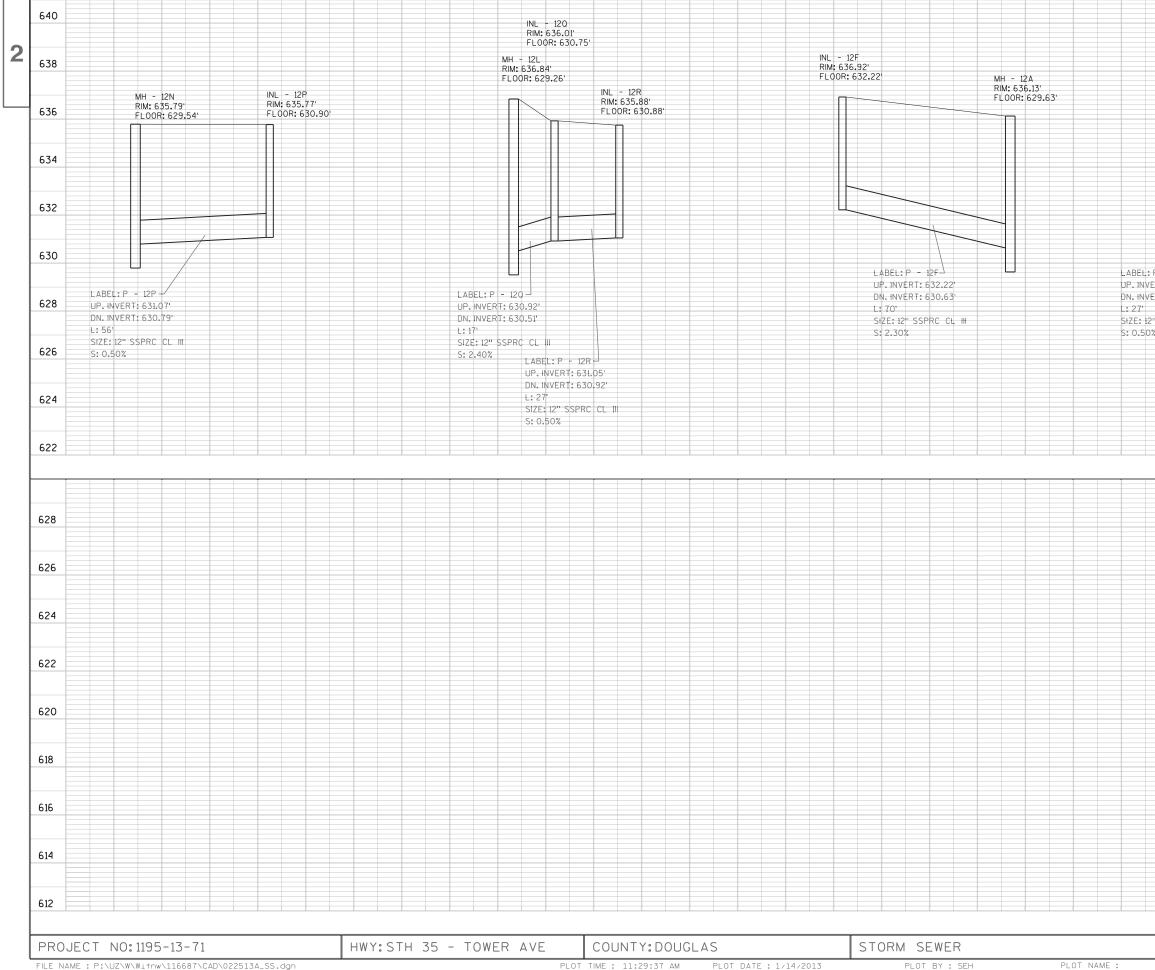


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PLOT TIME : 11:29:35 AM PLOT DATE : 1/14/2013

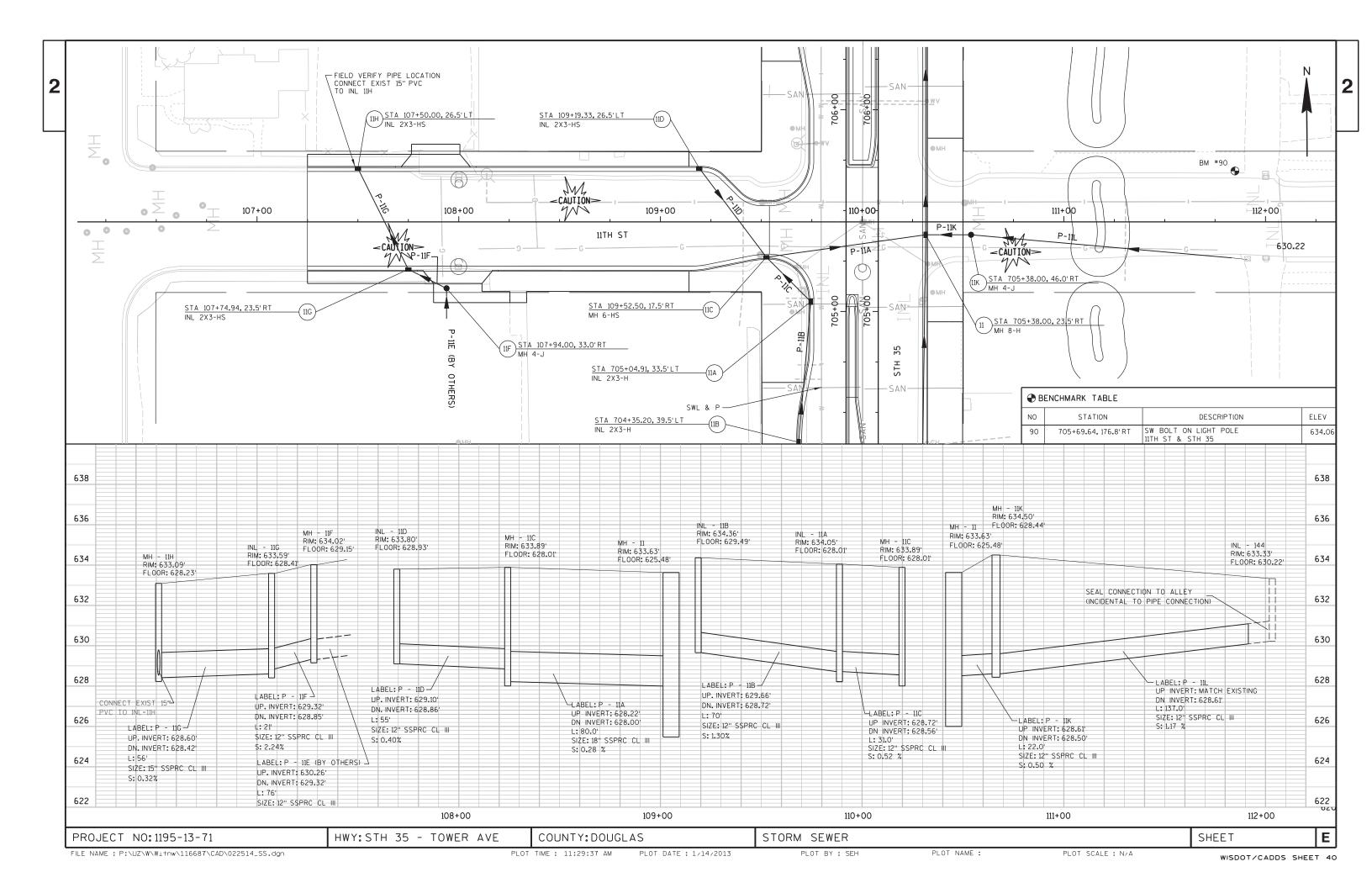


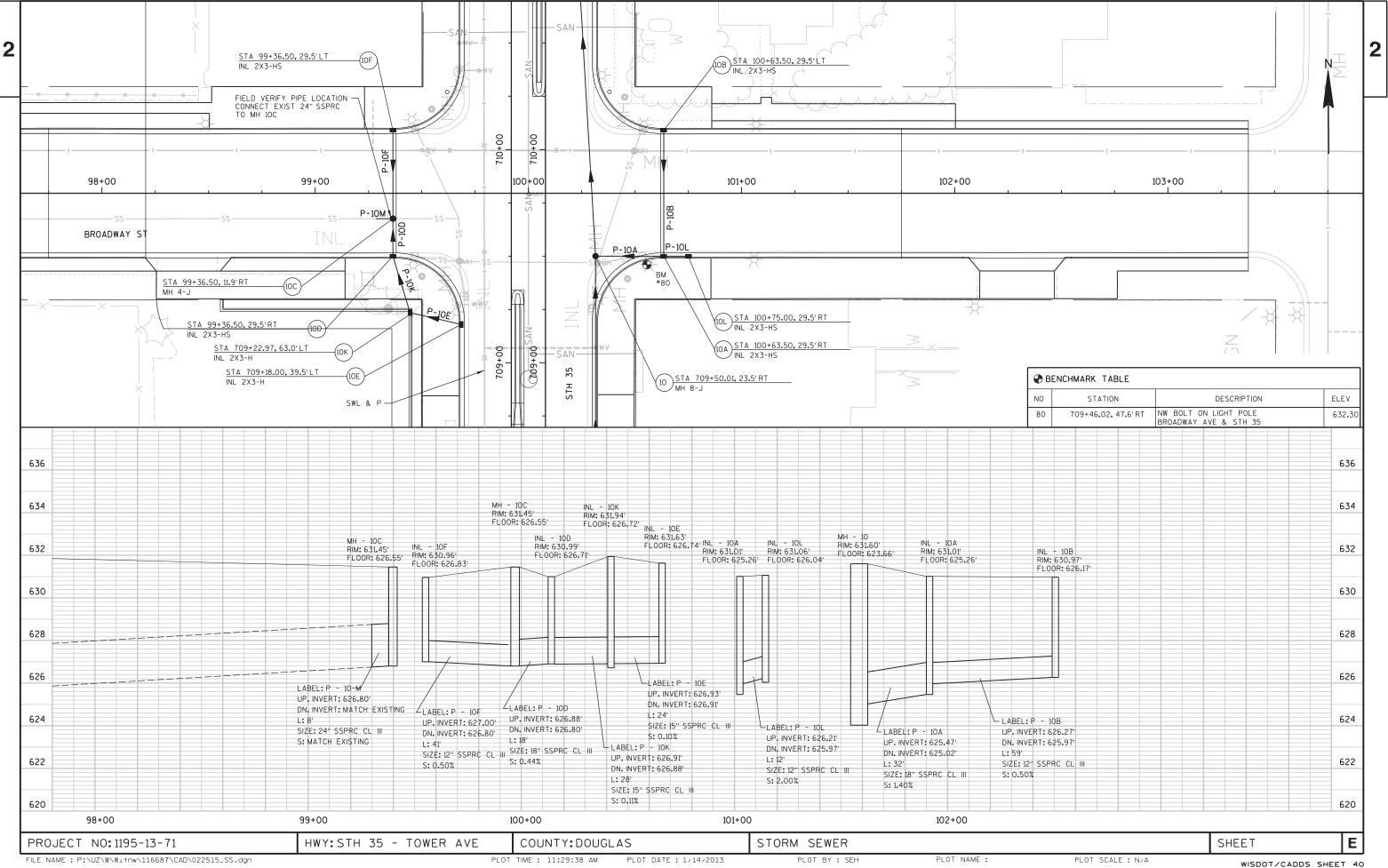


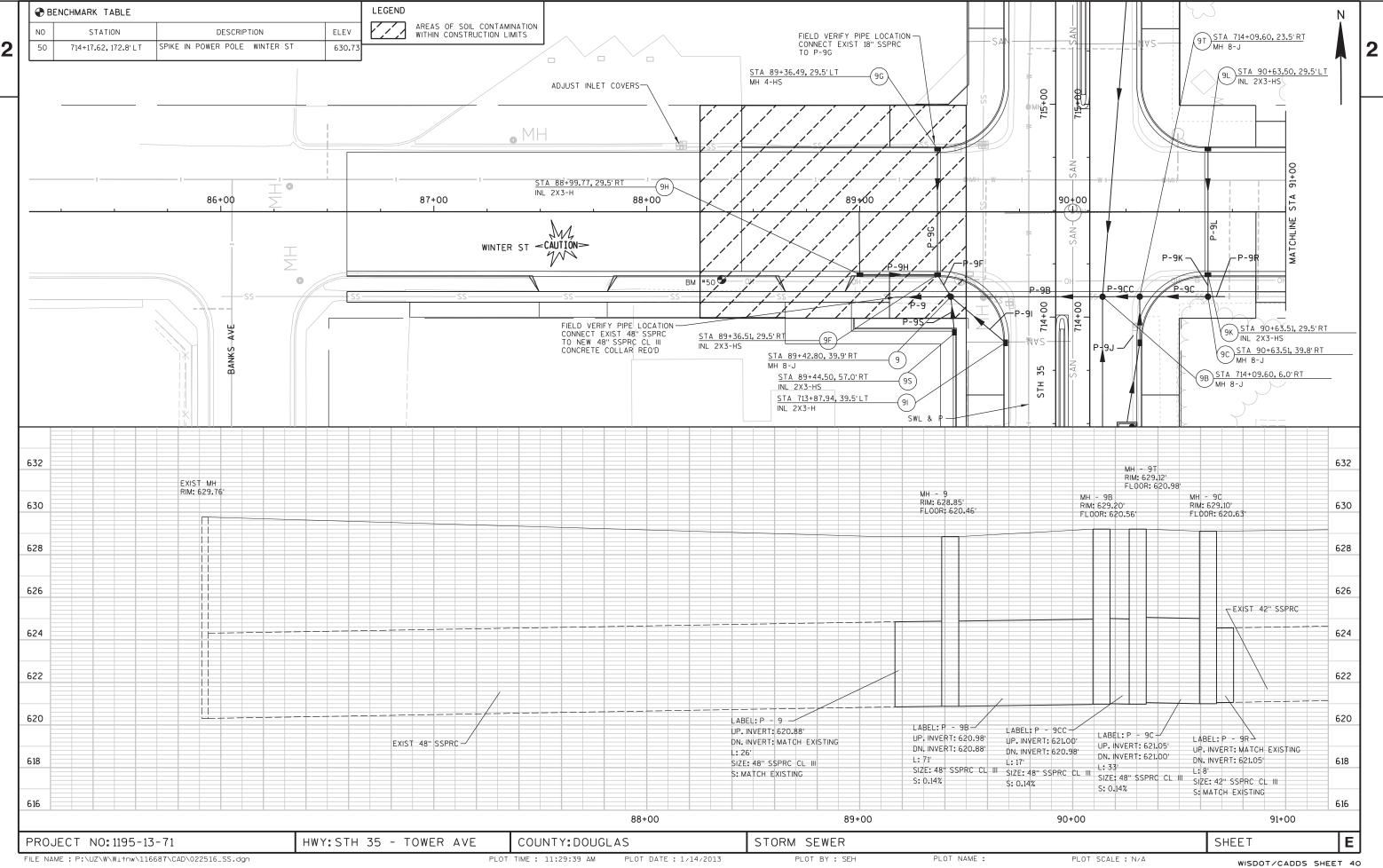
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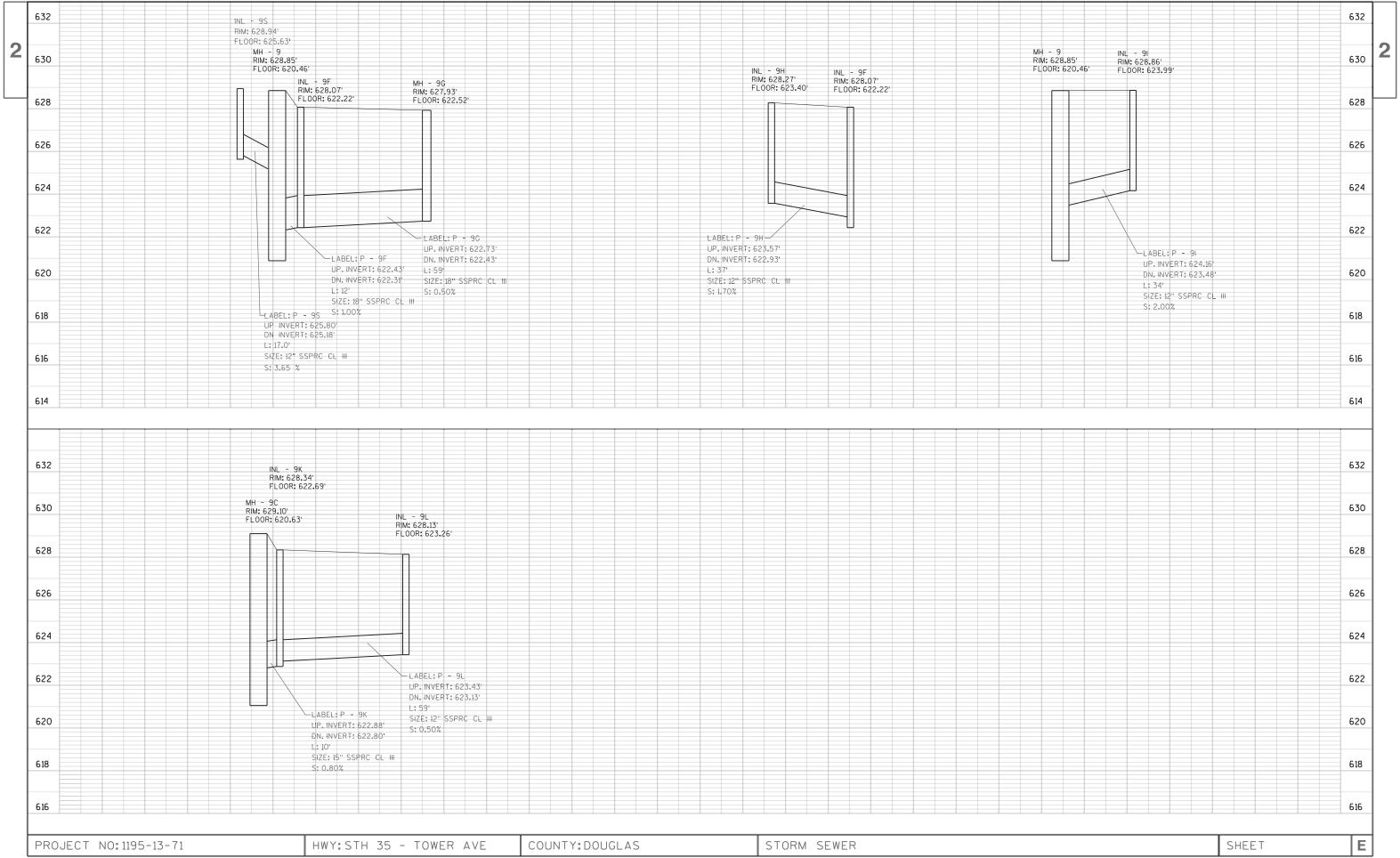
PLOT TIME : 11:29:37 AM PLOT DATE : 1/14/2013

		640
	RIM: 636.01' FLOOR: 630.94' MH - 12B	638
INL - 12H	RIM: 636.85'	
RIM: 635.8 FLOOR: 63	8'	
		636
		634
		632
,		630
12н		630
: 631.07'	LABEL: P - 12G	
630.94'	UP. INVERT: 630.94' DN. INVERT: 630,70'	628
SPRC CL III	L: 17'	
	SIZE: 12" SSPRC CL III S: 1.40%	coc
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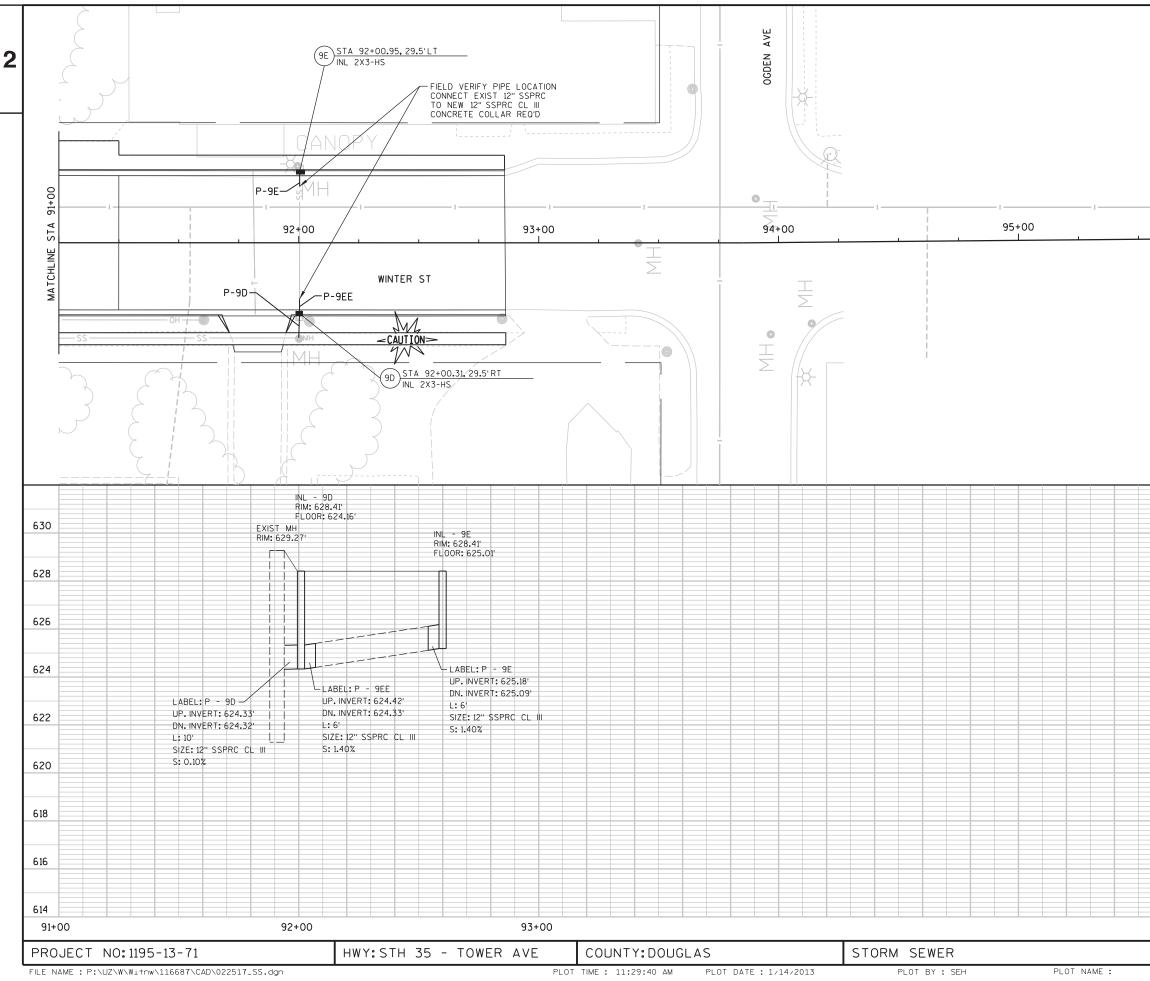




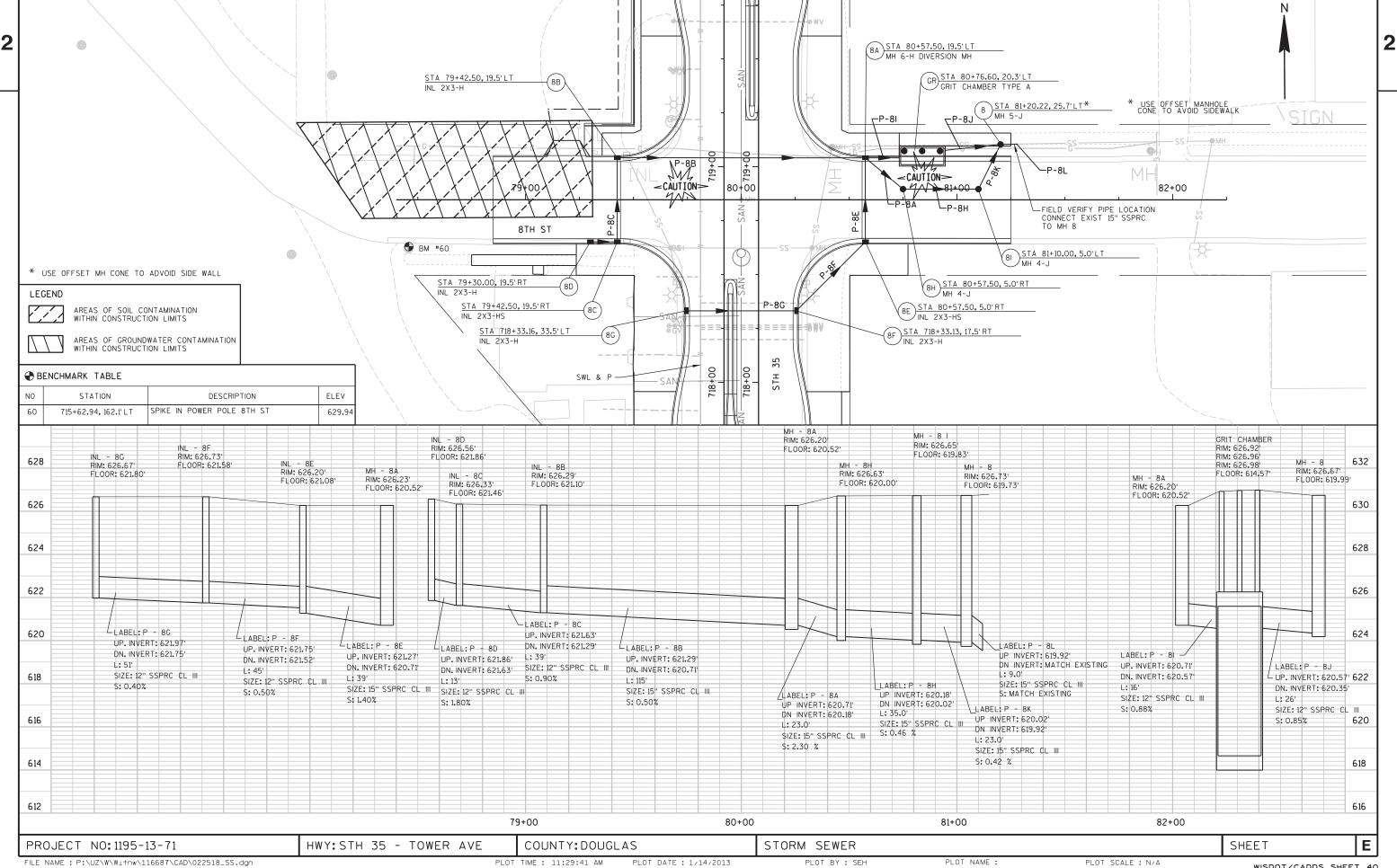


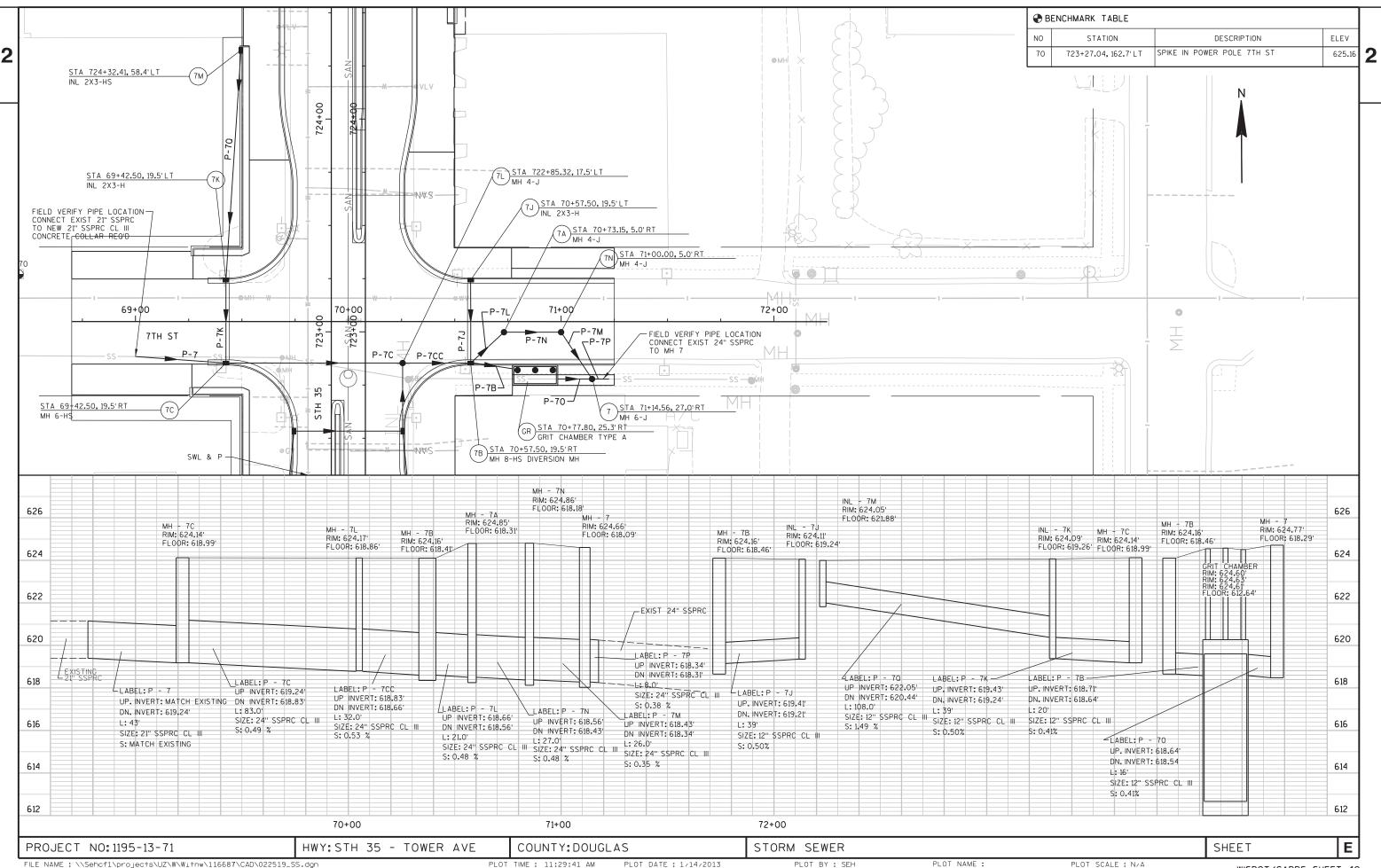
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PLOT TIME : 11:29:39 AM PLOT DATE : 1/14/2013 PLOT BY : SEH



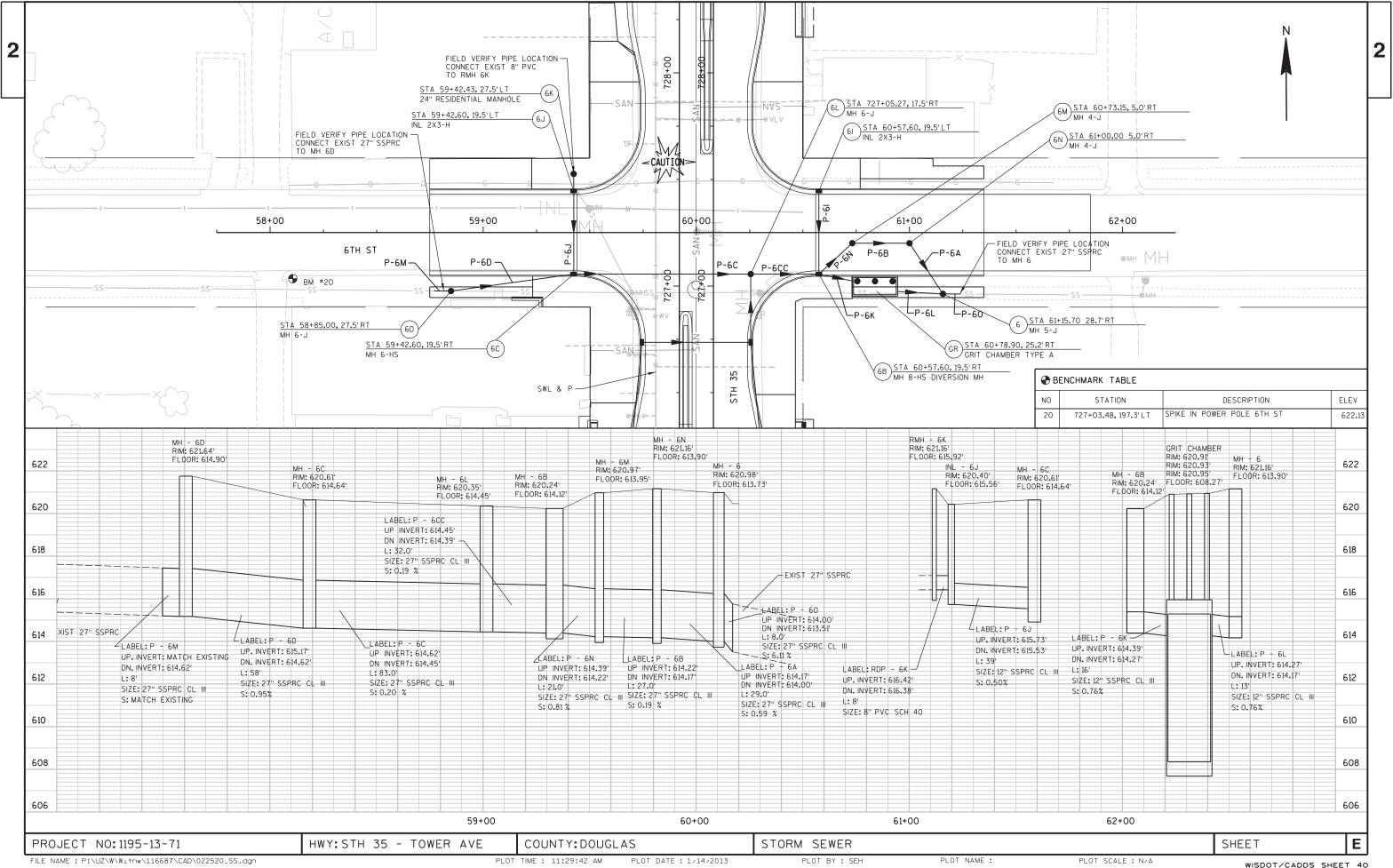
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B NO	ENCHMARK	<b>TABLE</b>	E				ESCRIF			ELE	
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		Image: Section of the sectio								62	26
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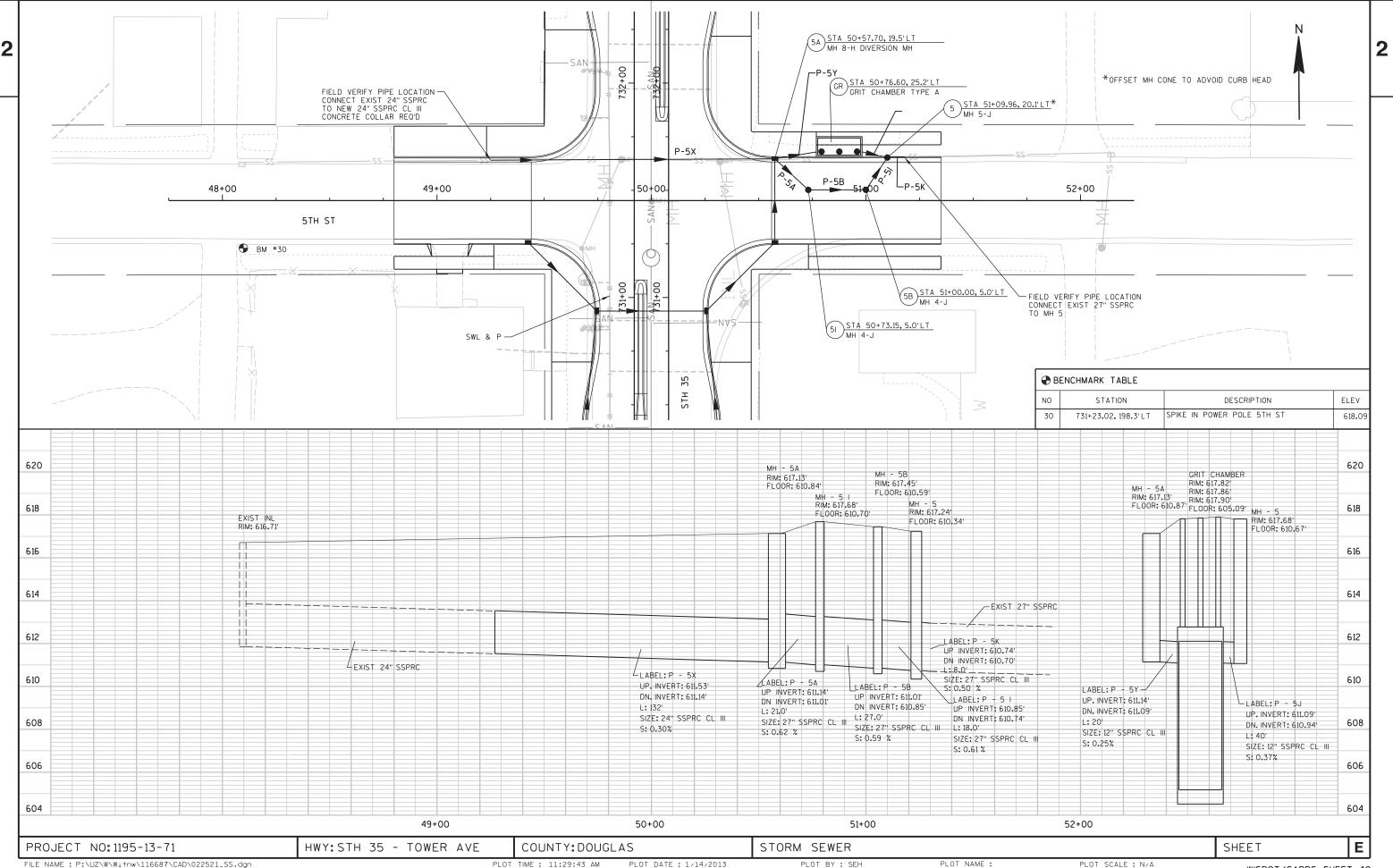




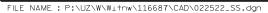
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PLOT TIME : 11:29:41 AM



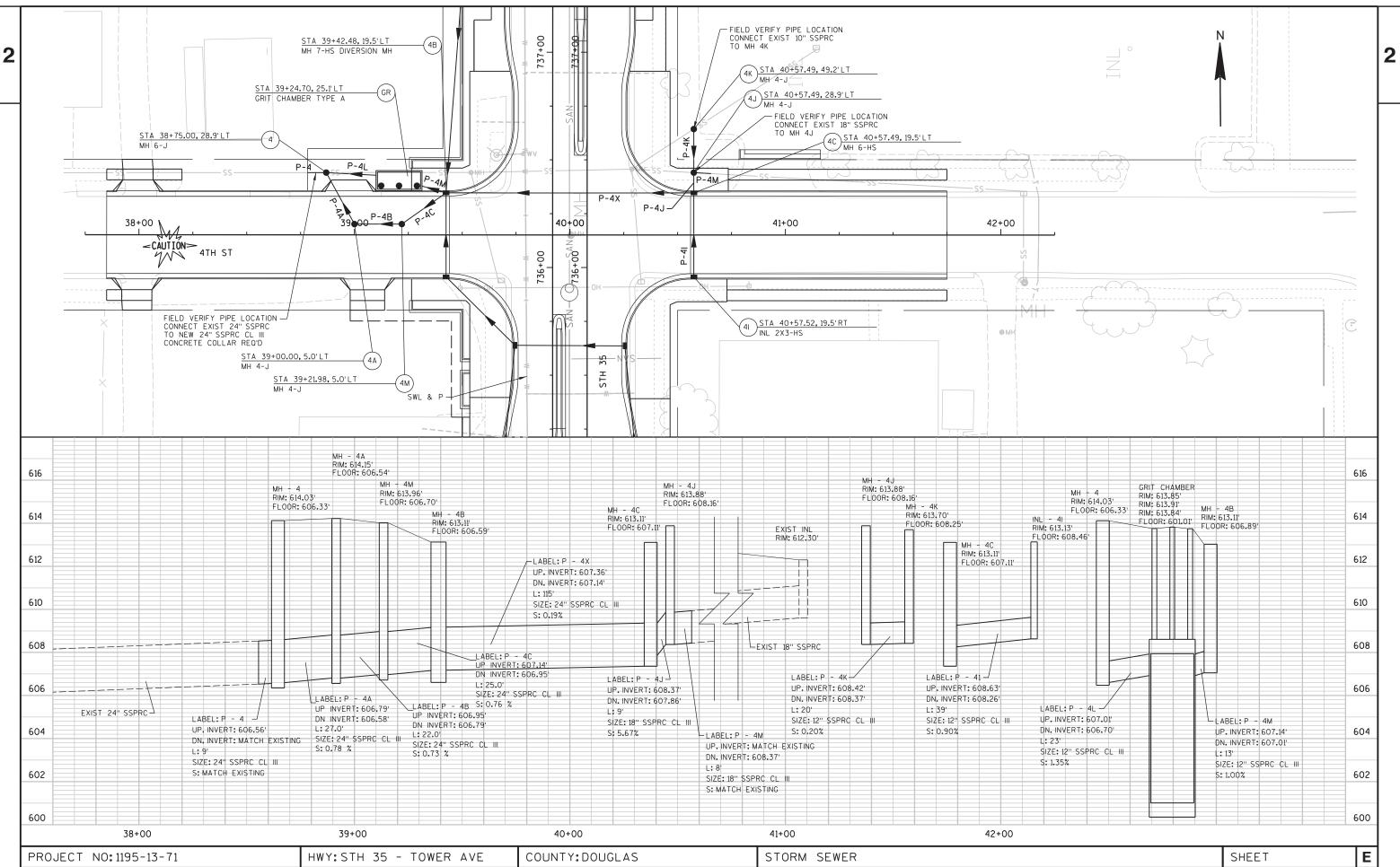


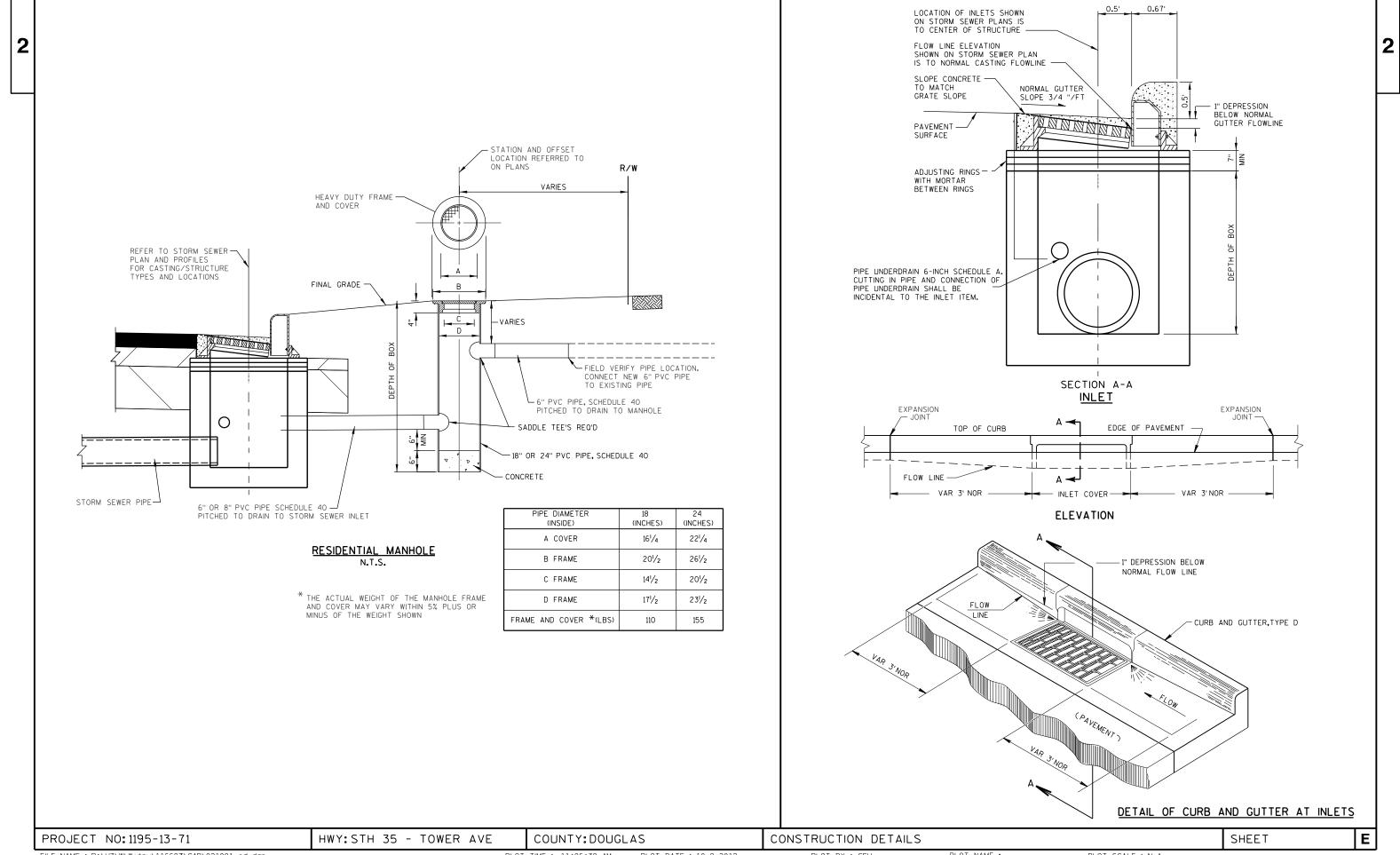
PLOT TIME : 11:29:43 AM



PLOT TIME : 11:29:44 AM PLOT DATE : 1/14/2013

PLOT BY : SEH

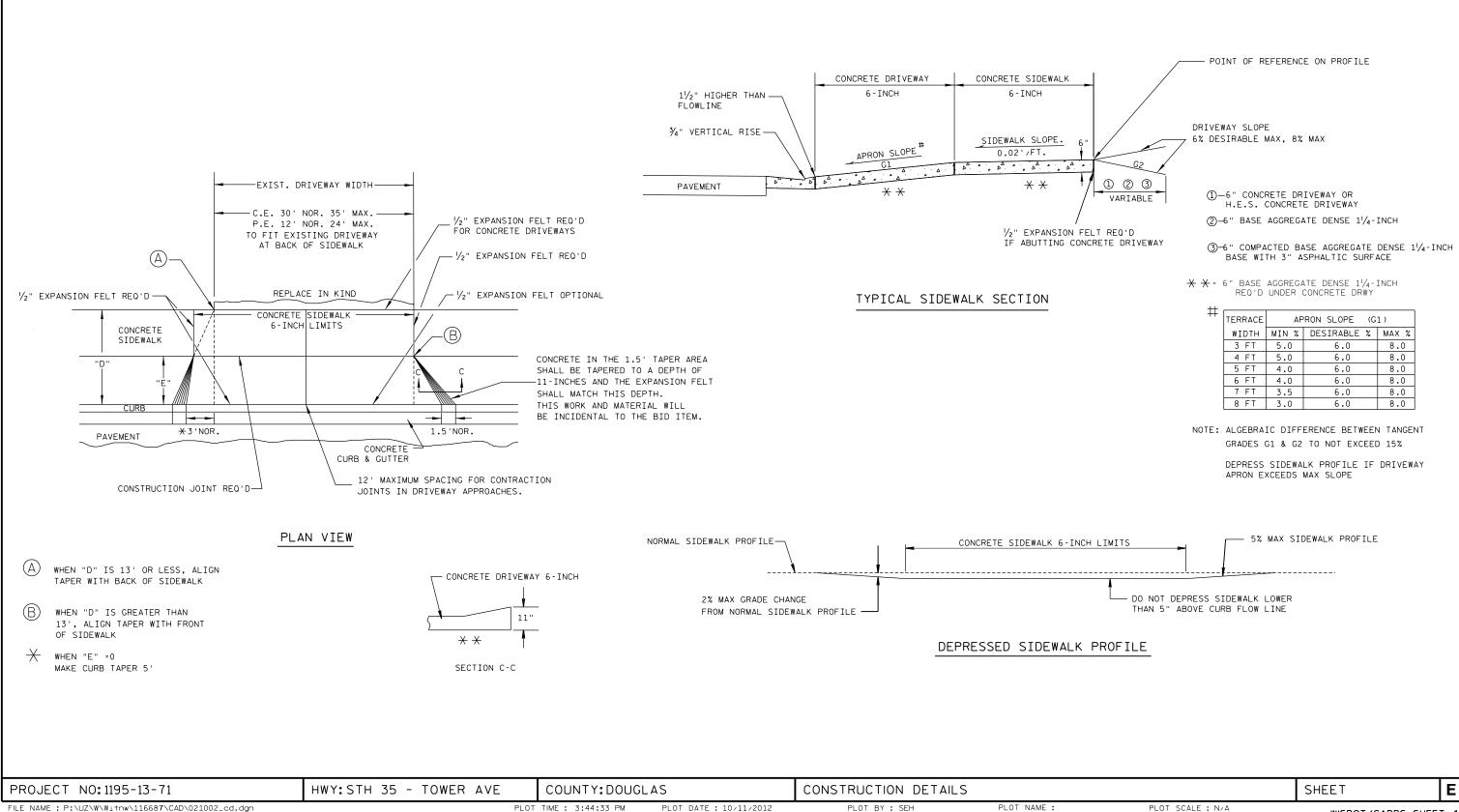




FILE NAME : P:\UZ\W\Witnw\116687\CAD\021001\_cd.dgn

PLOT TIME : 11:06:38 AM PLOT DATE : 10/8/2012 PLOT BY : SEH

### DRIVEWAY ENTRANCE DETAIL WITH SIDEWALK. CURB & GUTTER



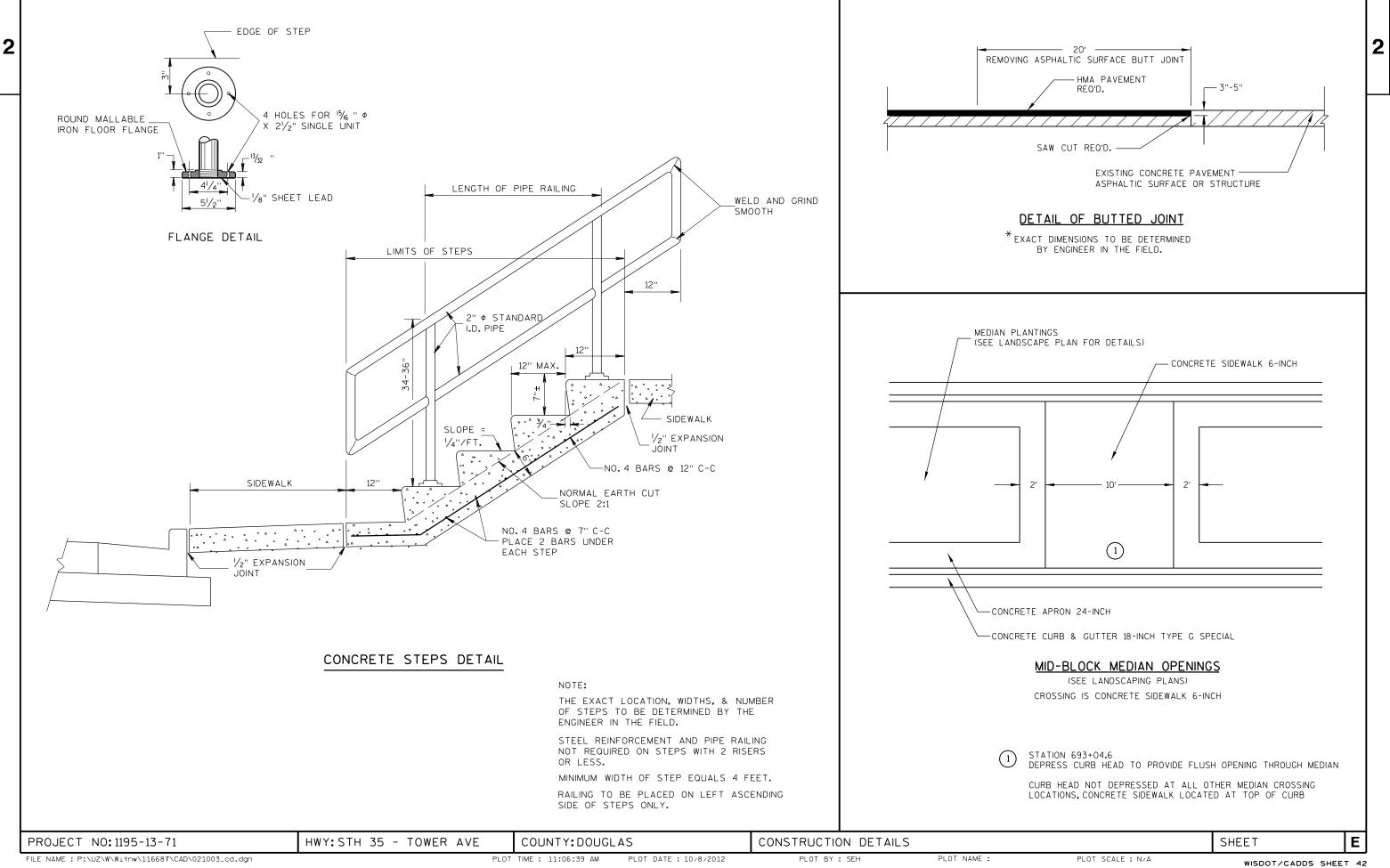
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PLOT TIME : 3:44:33 PM PLOT DATE : 10/11/2012

PLOT NAME :

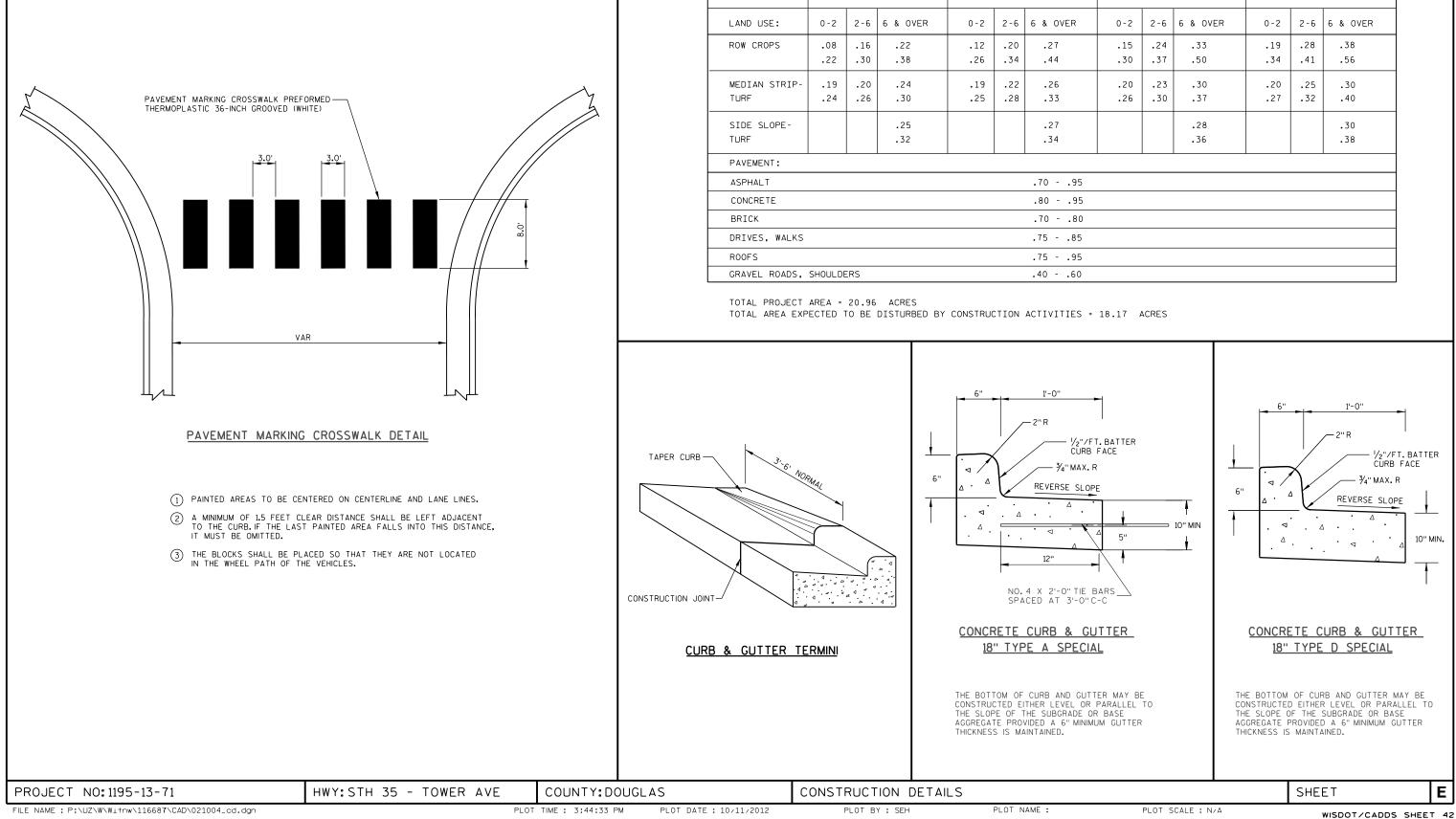
2

+					
ł	TERRACE	APRON SLOPE (G1)			
	WIDTH	MIN %	DESIRABLE %	MAX %	
	3 FT	5.0	6.0	8.0	
	4 FT	5.0	6.0	8.0	
	5 FT	4.0	6.0	8.0	
	6 FT	4.0	6.0	8.0	
	7 FT	3.5	6.0	8.0	
	8 FT	3.0	6.0	8.0	



FILE NAME : P:\UZ\W\Witnw\116687\CAD\021003\_cd.dgn

PLOT TIME : 11:06:39 AM



# RUNOFF COEFFICIENT TABLE

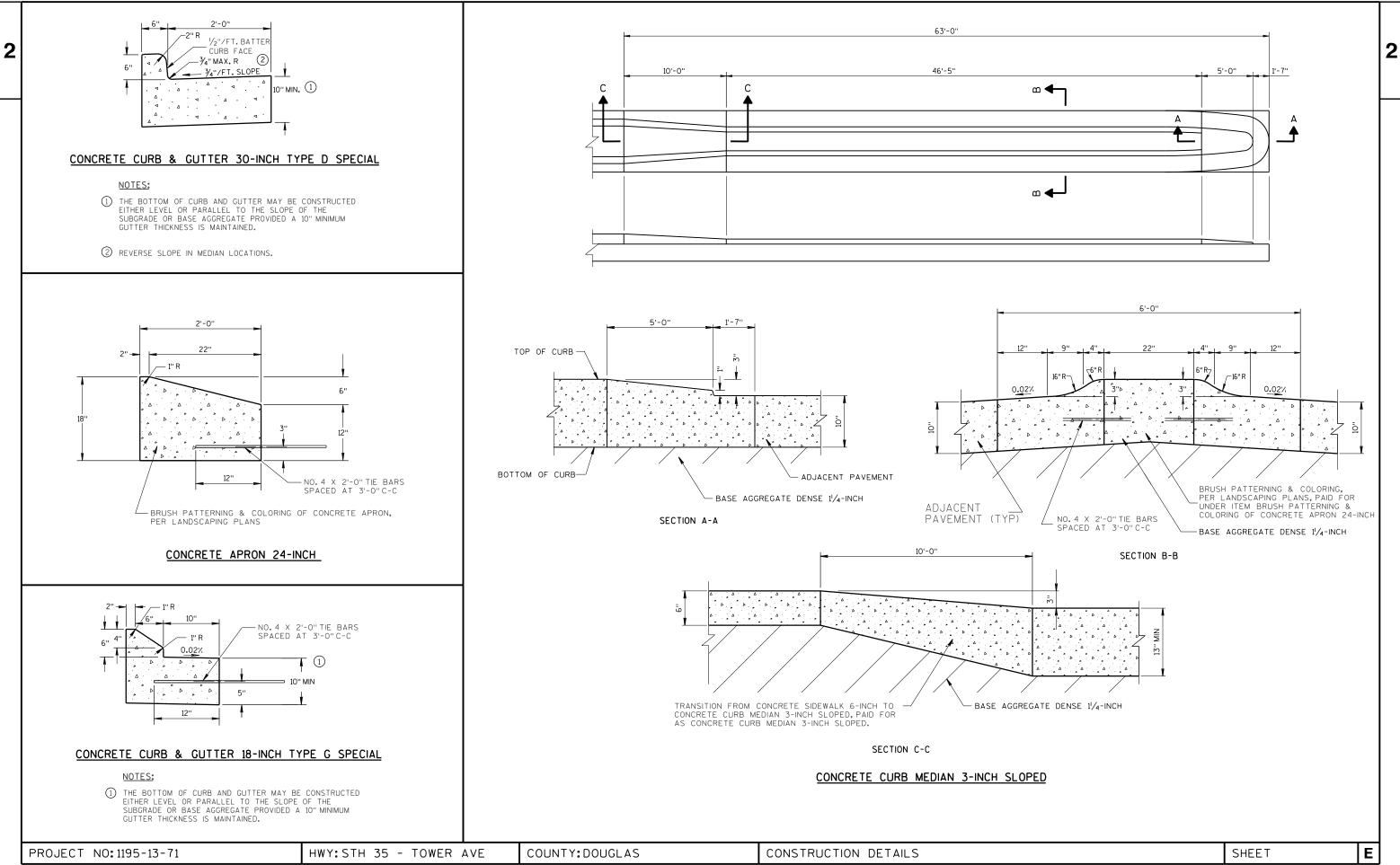
А SLOPE RANGE (PERCENT) В

SLOPE RANGE (PERCENT

HYDROLOGIC SOIL GROUP						
3	С			D		
E (PERCENT)	SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)			
6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
.27 .34			.28 .36			.30 .38
70 05						

95	
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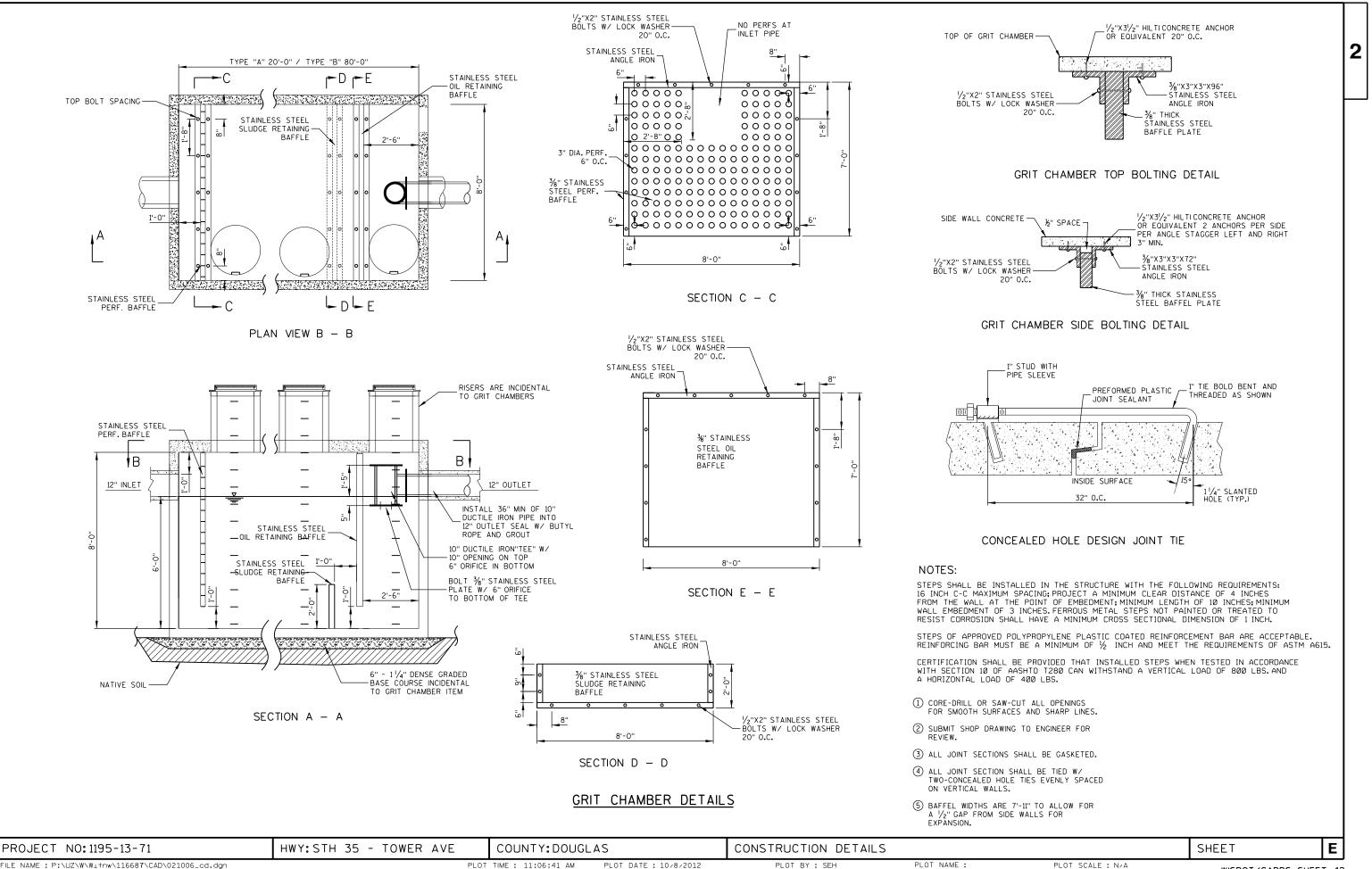
WISDOT/CADDS SHEET 42



FILE NAME : P:\UZ\W\Witnw\116687\CAD\021005\_cd.dgn

PLOT BY : SEH

PLOT TIME : 11:06:40 AM PLOT DATE : 10/8/2012

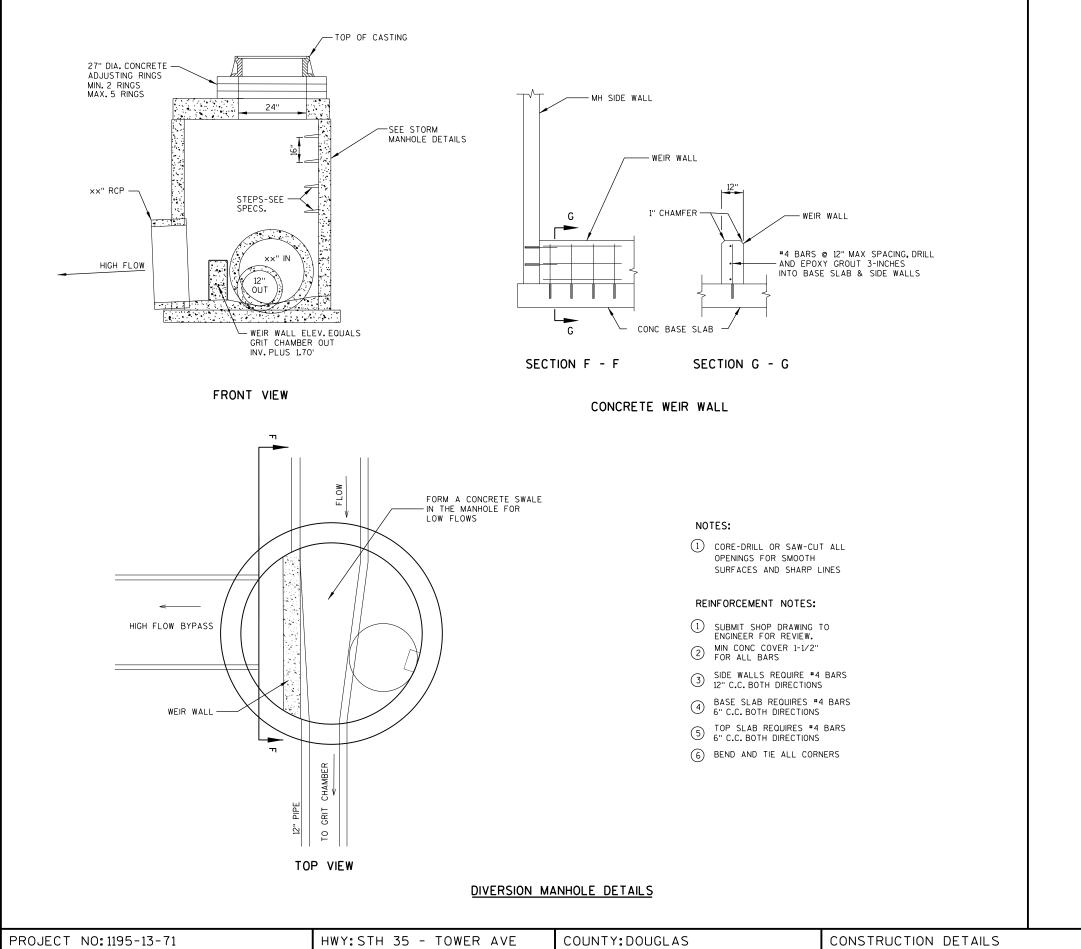


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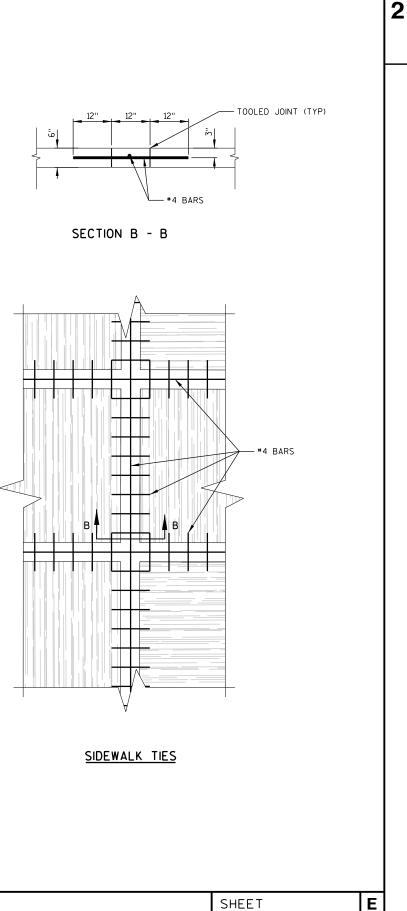
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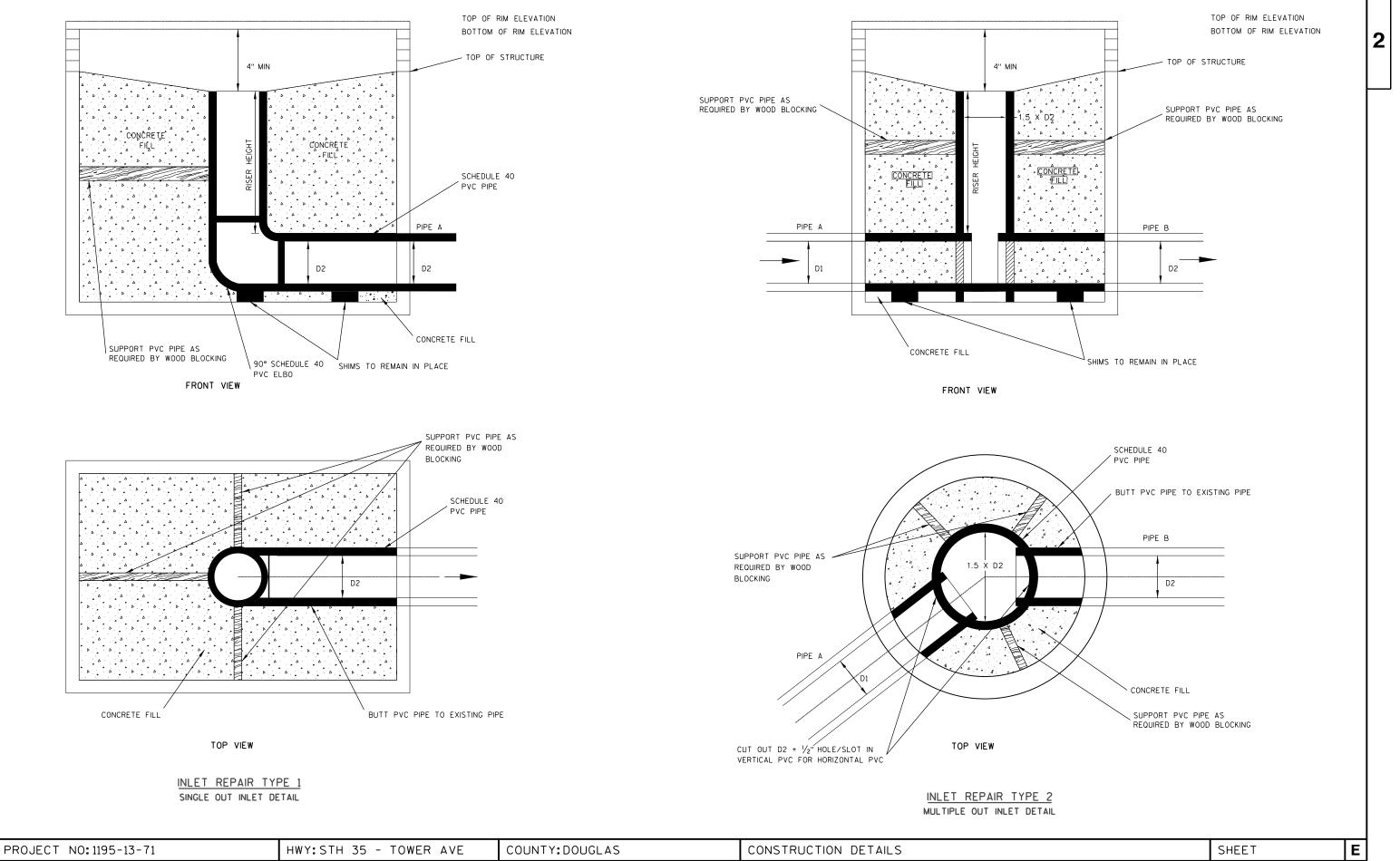


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PLOT TIME : 3:39:34 PM PLOT DATE : 1/29/2013 PLOT BY : SEH

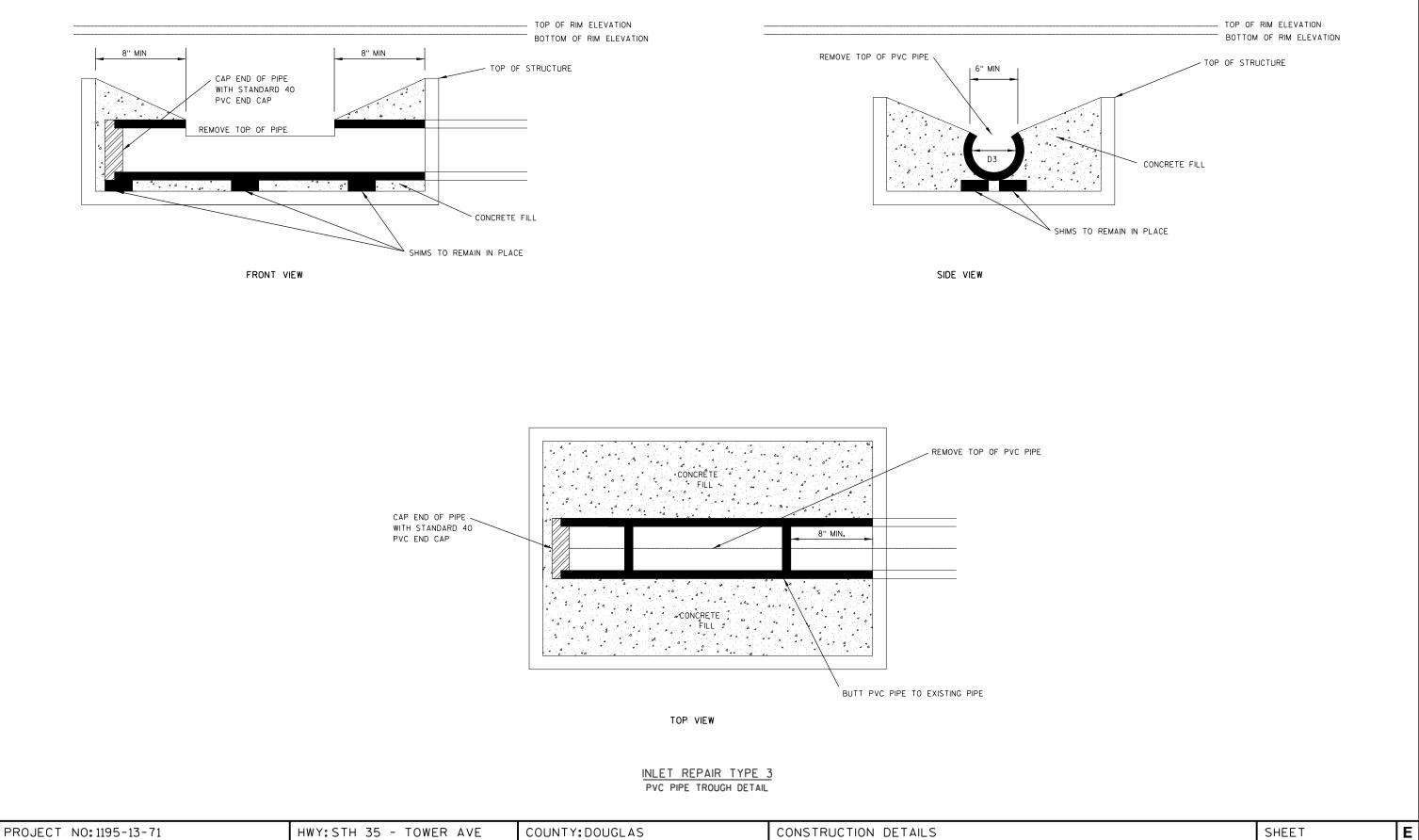




PLOT TIME : 11:06:42 AM PLOT DATE : 10/8/2012

PLOT BY : SEH

PLOT NAME :



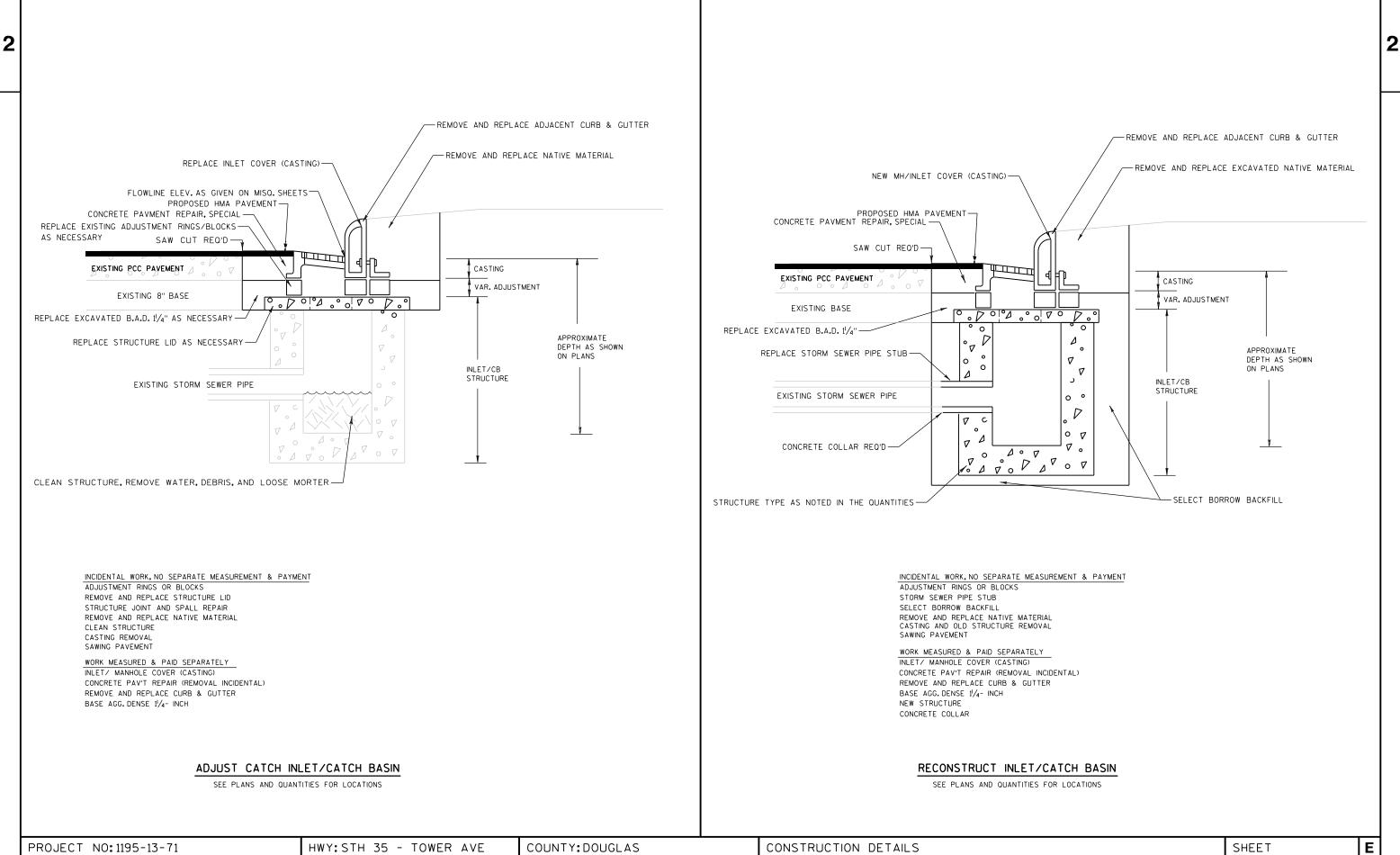
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PLOT NAME :

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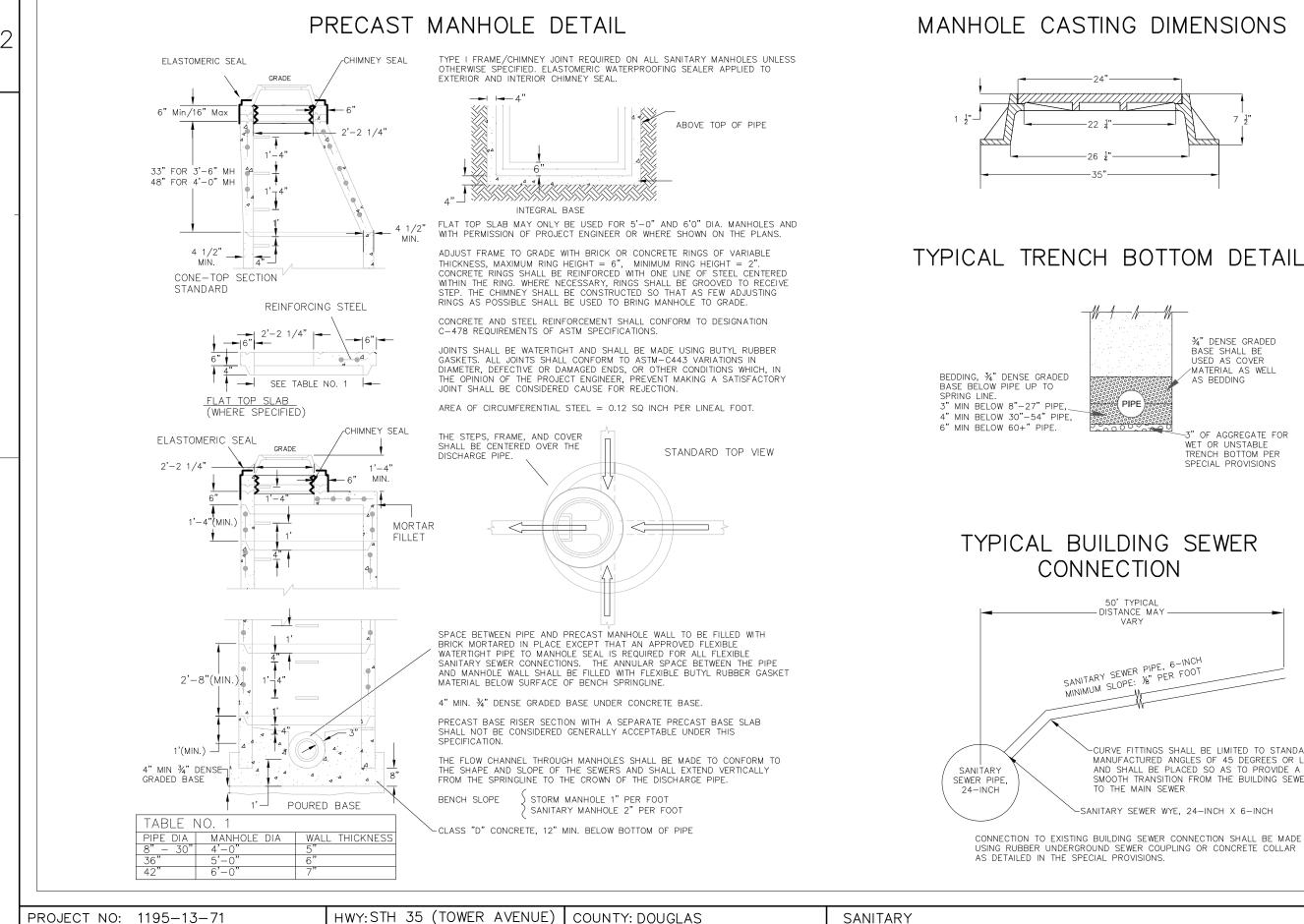
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FILE NAME : P:\UZ\W\Witnw\116687\CAD\021010\_CD.dgn

PLOT TIME : 11:06:43 AM PLOT DATE : 10/8/2012

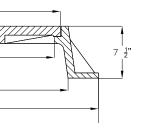
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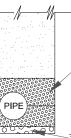


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9/21/2012 3:27 PM

PLOT BY : AL-QUDAH, ABE PLOT NAME : \_\_\_\_\_





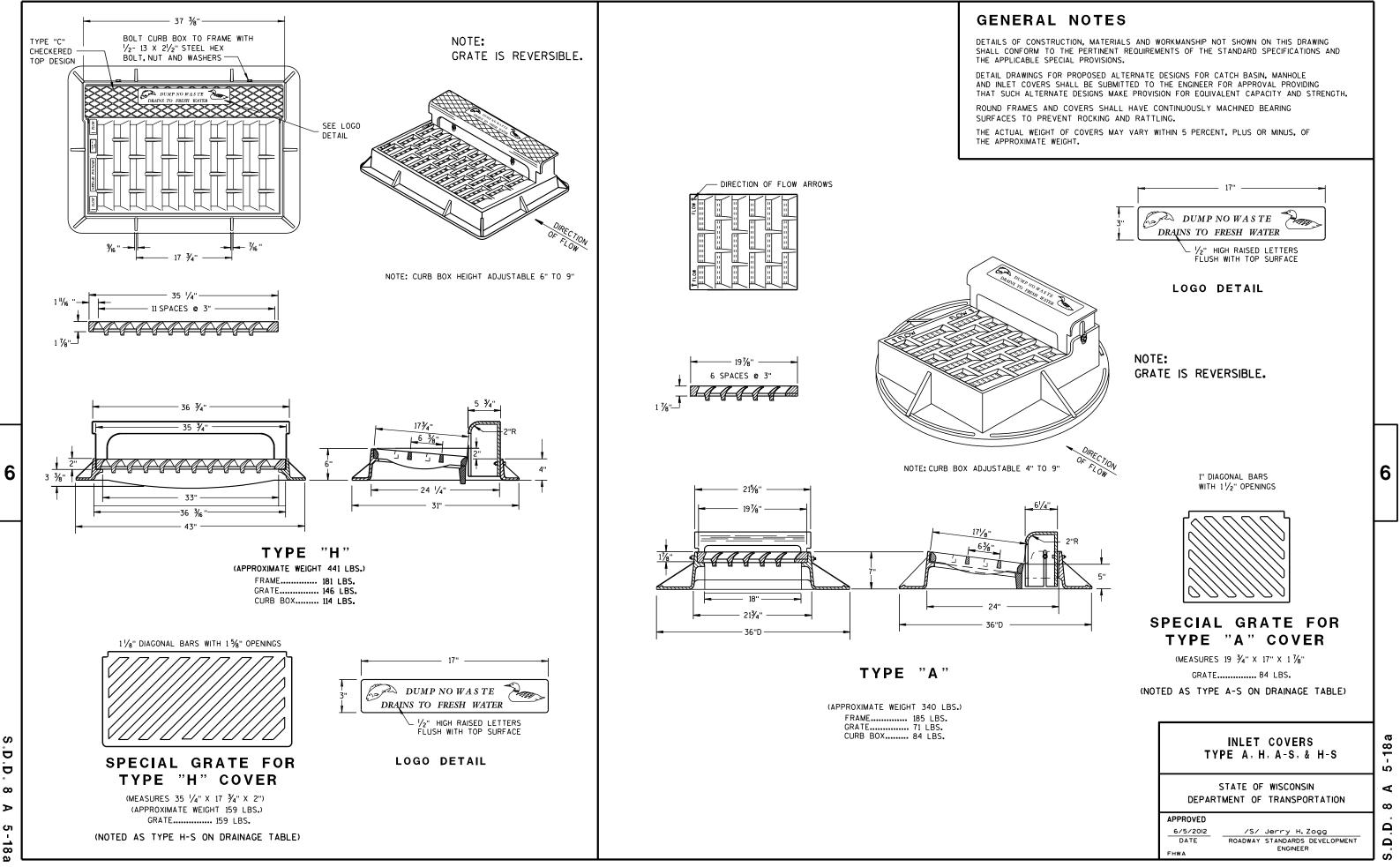
¾" DENSE GRADED BASE SHALL BE USED AS COVER MATERIAL AS WELL AS BEDDING

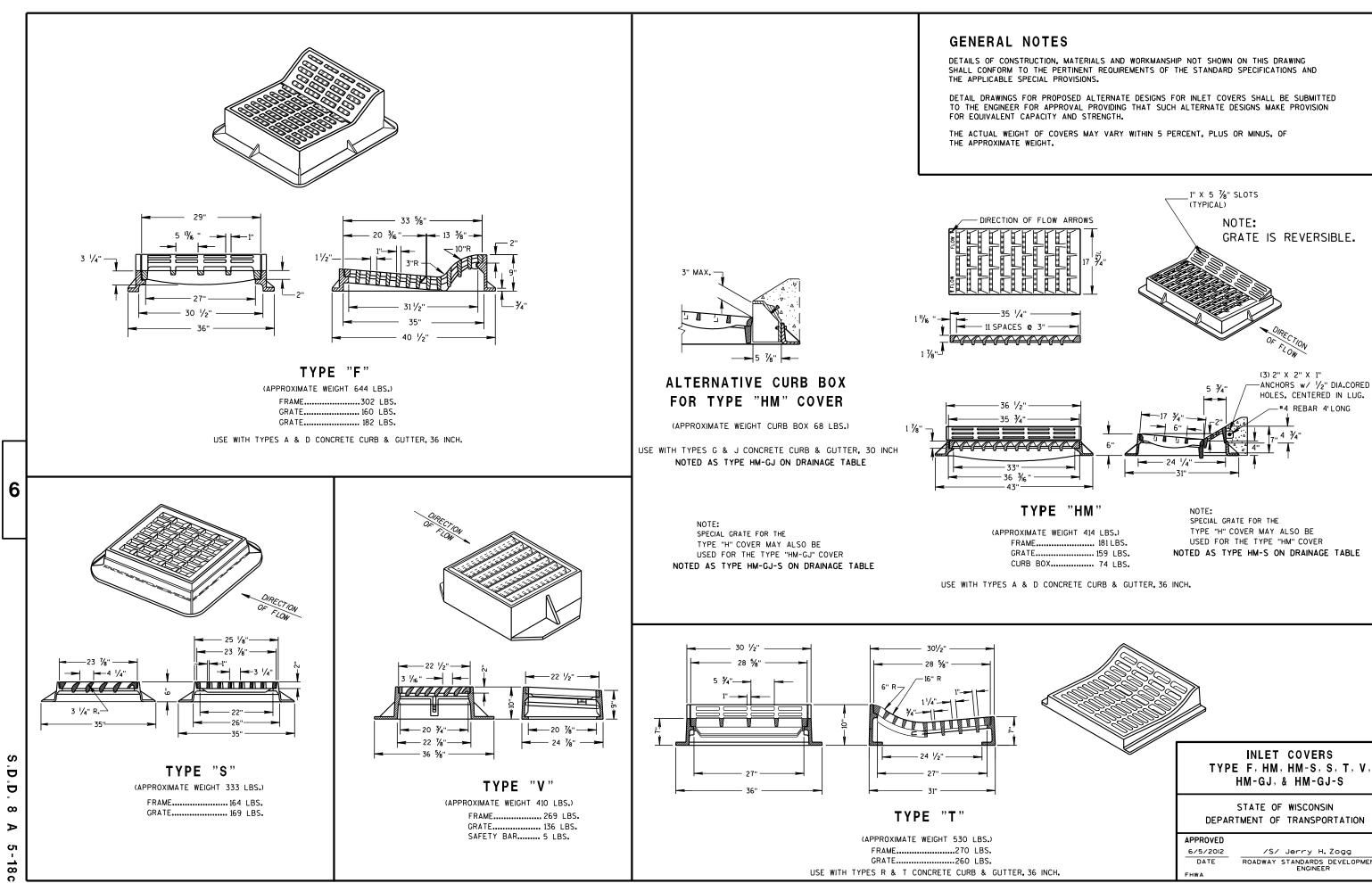
3" OF AGGREGATE FOR WET OR UNSTABLE TRENCH BOTTOM PER SPECIAL PROVISIONS

50' TYPICAL DISTANCE MAY VARY SANITARY SEWER PIPE, 6-INCH MINIMUM SLOPE: 18" PER FOOT CURVE FITTINGS SHALL BE LIMITED TO STANDARD MANUFACTURED ANGLES OF 45 DEGREES OR LESS AND SHALL BE PLACED SO AS TO PROVIDE A SMOOTH TRANSITION FROM THE BUILDING SEWER TO THE MAIN SEWER -SANITARY SEWER WYE, 24-INCH X 6-INCH CONNECTION TO EXISTING BUILDING SEWER CONNECTION SHALL BE MADE

SHEET

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INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION /S/ Jerry H.Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER

#4 REBAR 4'LONG

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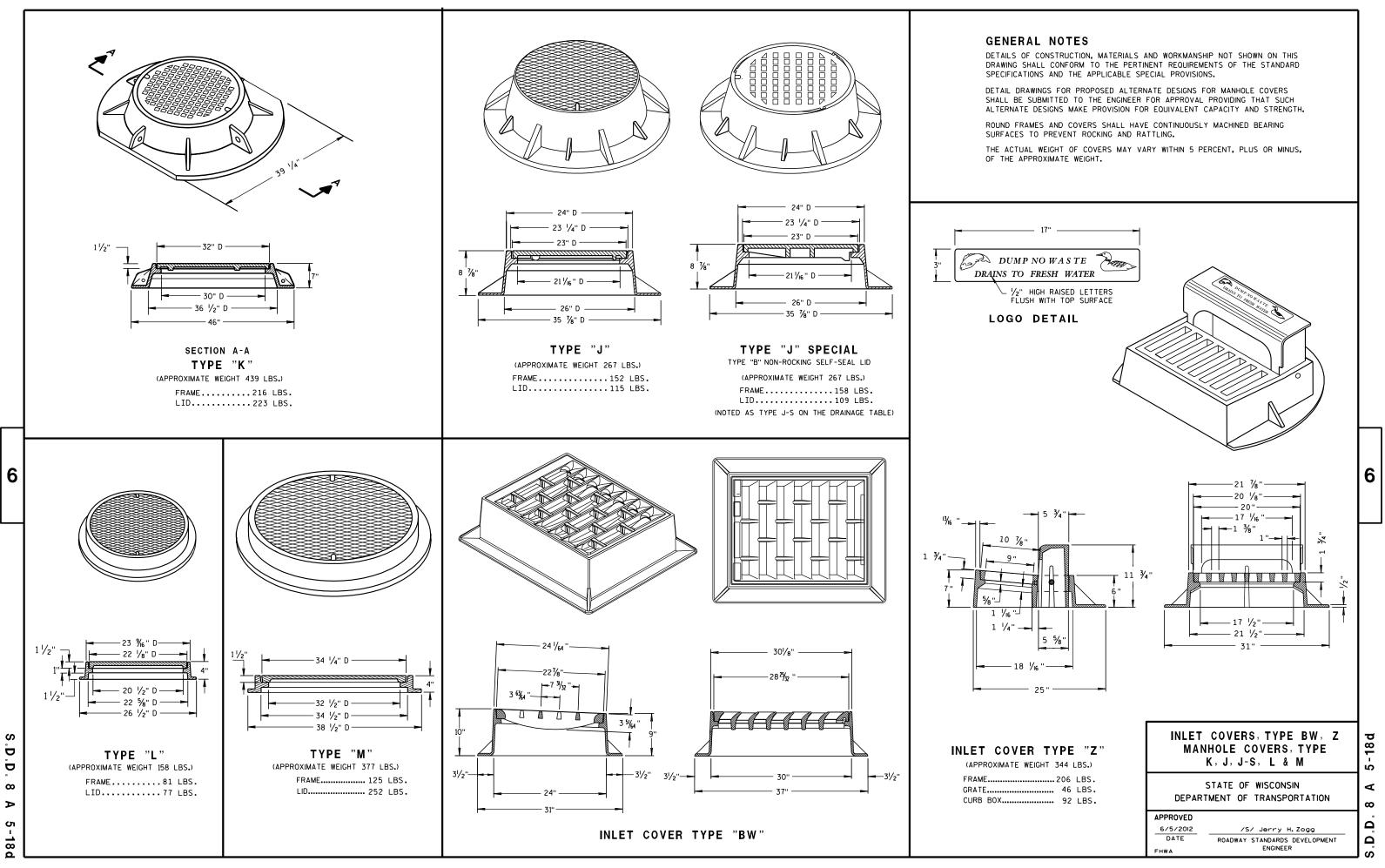
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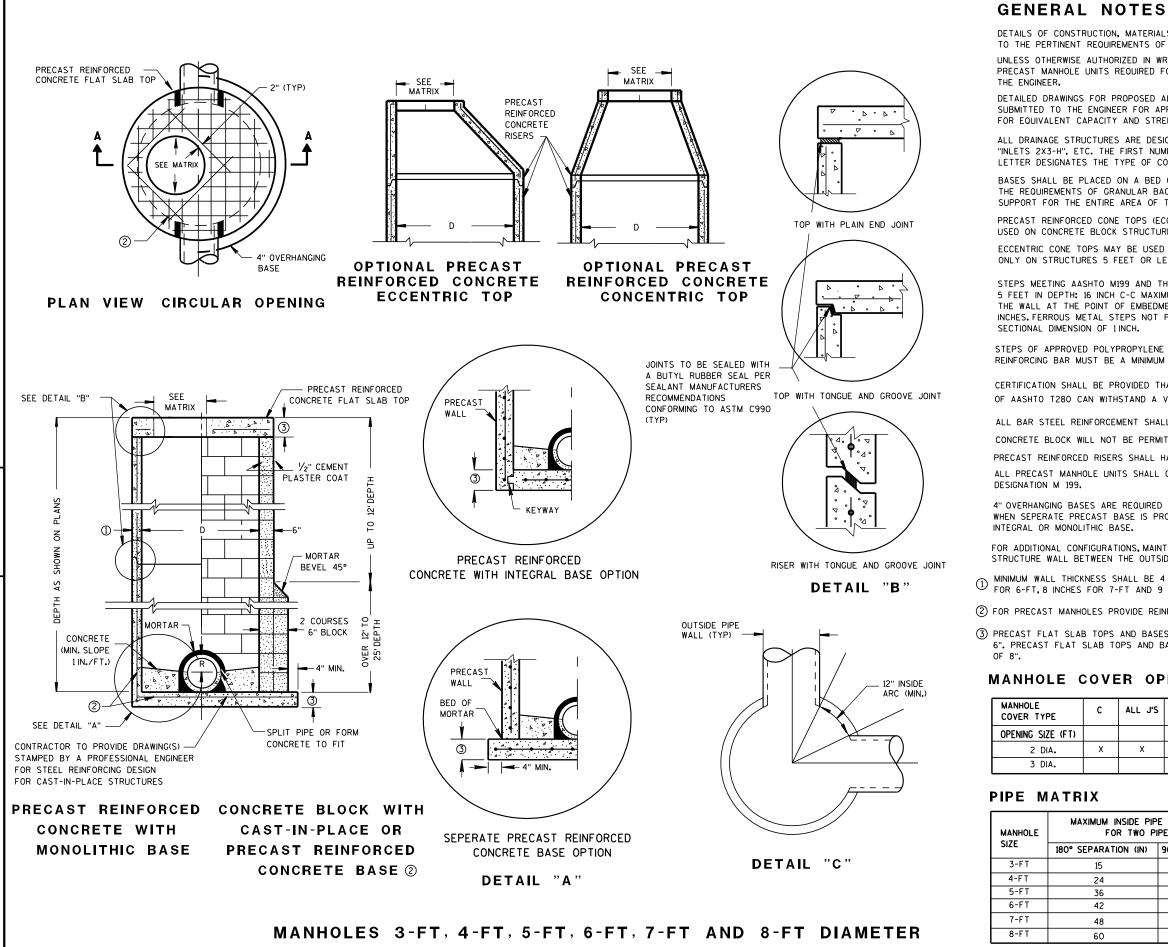
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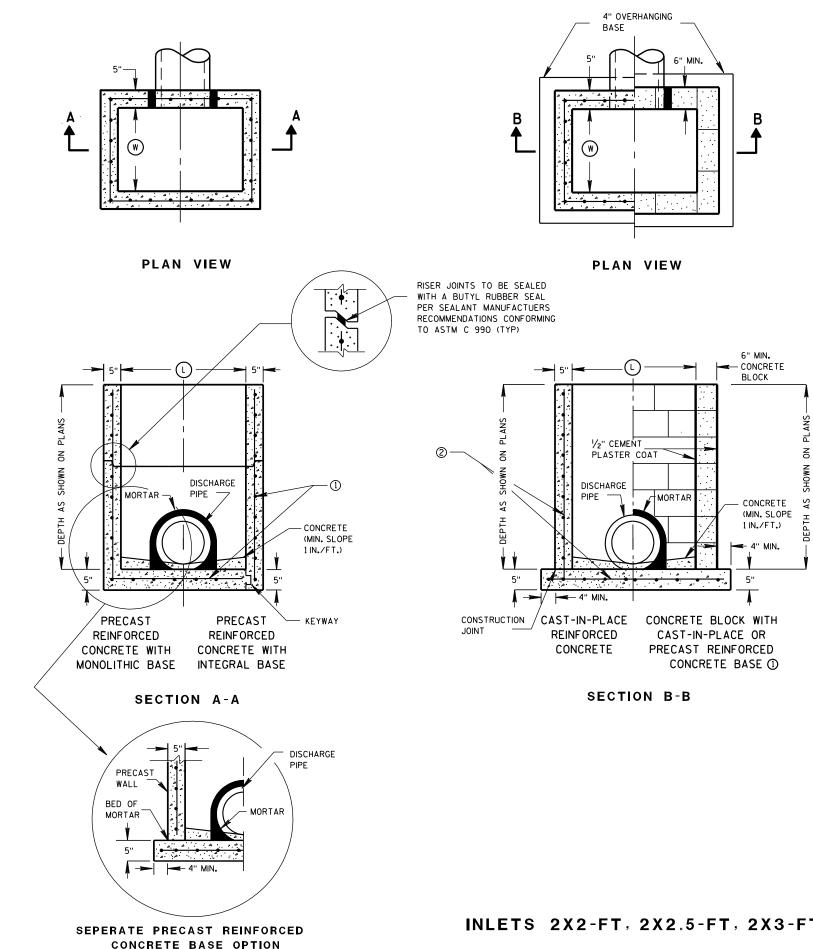
6

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36	
24 DEPARTMENT OF TRANSPORTATION	ω
12 18 STATE OF WISCONSIN	8
In the Distance FerMANHOLES3-FT, 4-FT, 5-FT, 6-FT,90° SEPARATION (IN)7-FT AND 8-FT DIAMETER	9 - 1
J'S K L M	
OPENING MATRIX	
ND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS	
BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF	
ND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES. REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.	
UTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C". BE 4 INCHES FOR 3-FT,5 INCHES FOR 4-FT.6 INCHES FOR 5-FT,7 INCHES	
VAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE	6
IRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED S PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN	
LL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN. ALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO	
ERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.	
SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.	
D THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.	
LENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. IMUM OF $\frac{1}{2}$ " AND MEET THE REQUIREMENTS OF ASTM A615.	
ID THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM BEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS	
USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED R LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.	
5 (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE CTURES. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.	
BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS R BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM OF THE BASE.	
DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.	
ED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE R APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION STRENGTH.	
ERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM S OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS. IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER ED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY	

FHWA

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## **GENERAL NOTES**

ENGINEER.

FOUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

"INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

4" OVERHANG IS REQUIRED WHEN SEPERATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

(1) FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

CAST-IN-PLACE STRUCTURES.

### INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALI
	WIDTH (W)(FT)	LENGTH 🛈 (FT)		
2X2-FT	2	2	Х	
2X2.5-FT	2	2.5		
2X3-FT	2	3		
2.5X3-FT	2.5	3		

### PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER			
INLET SIZE	WIDTH (IN)	LENGTH (IN)		
2X2-FT	12	12		
2X2.5-FT	12	18		
2X3-FT	12	24		
2 <b>.</b> 5X3-FT	18	24		

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

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