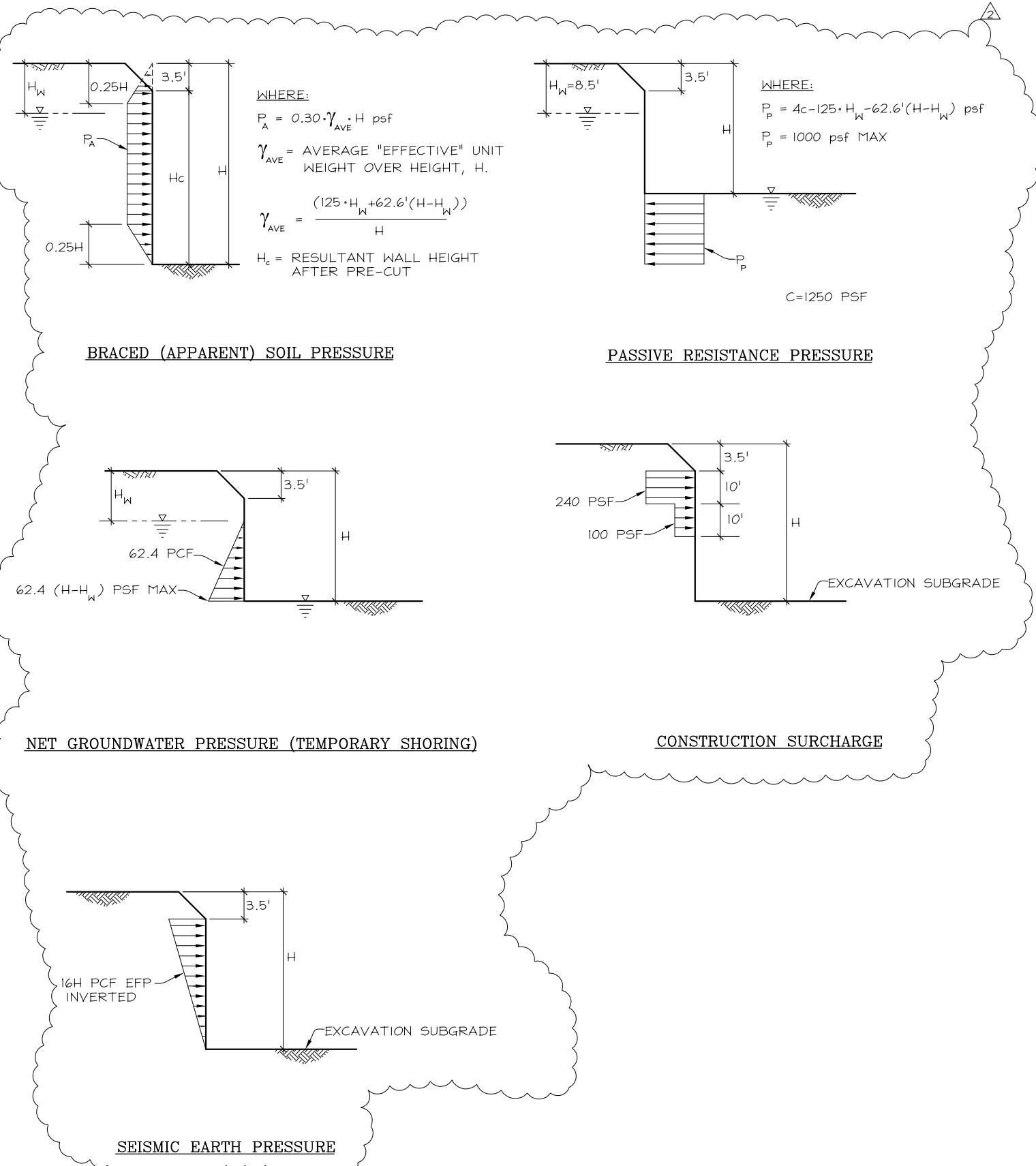


GENERAL NOTES:

1. GEOTECHNICAL CONDITIONS FOR THE SHORING DESIGN ARE BASED ON THE INTERPRETED INFORMATION CONTAINED IN THE GEOTECHNICAL REPORT TITLED "NORTHERN AREA GUIDEWAY, 65% GEOTECHNICAL DESIGN REPORT-BELOW GRADE STRUCTURES-AREAS C202 AND C203" DATED JUNE 23, 2008 BY KLEINFELDER, INC AND "MILPITAS STATION FOUNDATION RECOMMENDATIONS" DATED MARCH 25, 2013 BY PARIKH CONSULTANTS, INC.
2. TEMPORARY EXCAVATION SUPPORT SYSTEM DESIGN LOADING: ALL LOADING CONDITIONS ARE AS SHOWN ON SHEET SH400 OF THIS DRAWING SET.
3. BLCE/BA WILL NOT SUPERVISE, DIRECT, CONTROL, OR HAVE AUTHORITY OVER OR BE RESPONSIBLE FOR CONTRACTOR'S MEANS, METHODS, TECHNIQUES, OR THE SAFETY PRECAUTIONS AND PROGRAMS INCIDENT TO THE WORK, OR WITH ANY FAILURE OF CONTRACTOR TO COMPLY WITH APPLICABLE LAWS AND REGULATIONS PERTAINING TO THE PERFORMANCE OF THE WORK. UNLESS NOTED OTHERWISE, BLCE/BA WILL NOT SUPERVISE, DIRECT, CONTROL, OR HAVE AUTHORITY OVER OR BE RESPONSIBLE FOR CONTRACTOR'S SEQUENCES OR PROCEDURES OF CONSTRUCTION.
4. VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN ON THESE DRAWINGS PRIOR TO INSTALLING THE TEMPORARY EXCAVATION SUPPORT SYSTEM. IF DISCREPANCIES ARE NOTED, NOTIFY BLCE/BA SO THAT APPROPRIATE REVISIONS CAN BE MADE TO THE DESIGN.
5. LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING INSTALLATION OF TEMPORARY EXCAVATION SUPPORT SYSTEM. IF UTILITIES WILL INTERFERE WITH INSTALLATION OF THE EXCAVATION SUPPORT SYSTEM AS SHOWN ON THESE PLANS, NOTIFY BLCE/BA SO THAT APPROPRIATE REVISIONS CAN BE MADE TO THE DESIGN.
6. PERFORM TEMPORARY EXCAVATION SUPPORT SYSTEM CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS AND CONFORM TO ALL APPLICABLE SAFETY REGULATIONS INCLUDING THE PROVISIONS OF CAL-OSHA AND FEDERAL OSHA.
7. PROVIDE PROTECTIVE BARRIERS AND/OR COVERS FOR EXCAVATIONS THAT CONFORM TO ALL APPLICABLE SAFETY REGULATIONS.
8. LAYOUT OF THE SHEET PILES AND SOLDIER PILES PROVIDES A THEORETICAL 3" CLEARANCE FROM FACE OF SHEET PILES TO NEAT LINE OF NEW TRENCH STRUCTURE. SSHJV MAY ELECT TO REDUCE THIS DISTANCE; HOWEVER, CAUTION SHOULD BE USED SO AS NOT TO ENCROACH ON THE PROPOSED CONSTRUCTION. INSTALLATION TOLERANCE FOR TOP OF SHEET PILES IS +/- 6-INCHES.
9. SECONDHAND MATERIALS MAY BE USED IF APPROVED BY THE ENGINEER. VERIFICATION THAT THE PROPOSED MATERIAL CONFORM WITH THE REQUIREMENTS OF THE DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
10. INSTALL BRACING MEMBERS SO THAT THEY ARE IN TIGHT BEARING CONTACT. PACK GAPS BETWEEN BRACING MEMBERS AND SHEET PILES TIGHT.
11. PRELOAD STRUTS TO 50% OF THEIR DESIGN LOAD. SEE PLANS FOR PRELOAD MAGNITUDES.
12. MATERIALS:
 - A. SHEET PILES: ASTM A572, GRADE 50.
 - B. WIDE FLANGES AND H-PILES: ASTM A992 OR A572, GRADE 50.
 - C. CHANNELS: ASTM A529, GRADE 50.
 - D. END PLATES AND STIFFENER PLATES: ASTM A572, GRADE 50.
 - E. PIPE STRUTS: ASTM A252, GRADE 3, Fy=70 ksi
 - F. OTHER MISCELLANEOUS STEEL: ASTM A36, GRADE 36
 - G. BOLTS: ASTM A325 U.O.N, BOLT HOLES SHALL BE DRILLED AND SHALL BE 1/16" LARGER THAN BOLT DIAMETER.
 - H. NON-SHRINK GROUT: GROUT SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF f'c=4000 psi, MINIMUM.
13. WELDING: COMPLY WITH AWS D1.1, LATEST EDITION.
14. CALL BEFORE YOU DIG CONTACT NUMBERS:
 - A. UNDERGROUND SERVICE ALERT (USA): 811.



DRAWING INDEX

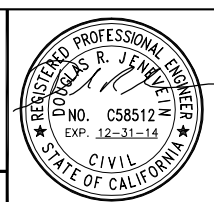
SH400	GENERAL NOTES, LOADING DIAGRAMS AND DRAWING INDEX
SH401	SOLDIER PILE TYPICAL DETAILS
SH402	SHEET PILE TYPICAL DETAILS
SH403	BRACING TYPICAL DETAILS
SH404	PIN PILE TYPICAL DETAILS
SH410	SHEET PILE LAYOUT AND LEVEL 1 BRACING PLAN (1 OF 5)
SH411	SHEET PILE LAYOUT AND LEVEL 1 BRACING PLAN (2 OF 5)
SH412	SHEET PILE LAYOUT AND LEVEL 1 BRACING PLAN (3 OF 5)
SH413	SHEET PILE LAYOUT AND LEVEL 1 BRACING PLAN (4 OF 5)
SH414	SHEET PILE LAYOUT AND LEVEL 1 BRACING PLAN (5 OF 5)
SH415	SHEET PILE CORNER CONNECTION PLAN
SH450	EAST ELEVATION (1 OF 3)
SH451	EAST ELEVATION (2 OF 3)
SH452	EAST ELEVATION (3 OF 3)
SH453	WEST ELEVATION (1 OF 3)
SH454	WEST ELEVATION (2 OF 3)
SH455	WEST ELEVATION (3 OF 3)
SH460	ONE LEVEL BRACING SECTION
SH461	PIN PILE TRANSVERSE SECTION
SH462	PIN PILE LONGITUDINAL SECTION
SH470	CONSTRUCTION SEQUENCE (1 OF 3)
SH471	CONSTRUCTION SEQUENCE (2 OF 3)
SH472	CONSTRUCTION SEQUENCE (3 OF 3)

NO.	DATE	REVISIONS	BY	CK
11-7-13		STATION DESIGN REVISED	HC	DJ
9-24-13		CHANGED TO BRACED DESIGN	HC	DJ

OWNER: **BART SILICON VALLEY**
 BART SILICON VALLEY BERRYESSA EXTENSION
 GRAPHIC SCALE: 0 1/4" 1" 1 1/2" 2" 2 1/2" 3"
 CADD FILE NAME: 212412_SH400.DWG
 PLOT DATE: _____

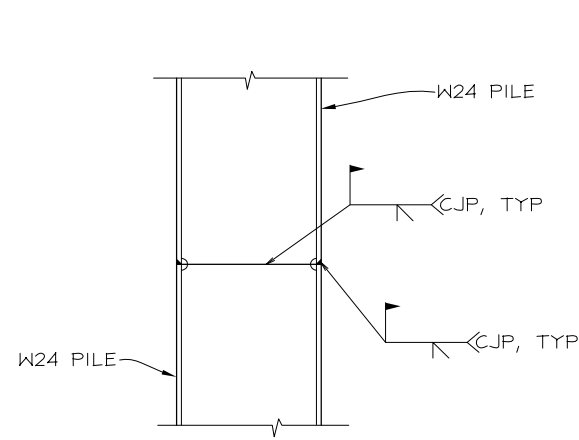
CLIENT: **Skanska Shimmick Herzog**
 1436 California Circle
 Milpitas, California 95035
 A Joint Venture

DESIGNED: REB
 CHECKED: DRJ
 DRAWN: HC
BLCE
 BERT-LINDQUIST CONSULTING ENGINEERS, INC.
 920 COUNTRY CLUB DRIVE, SUITE 2A, MORAGA CA, 94556
 (925) 247-9000 FAX (925) 247-9010
 a Division of Brierley Associates, Inc.

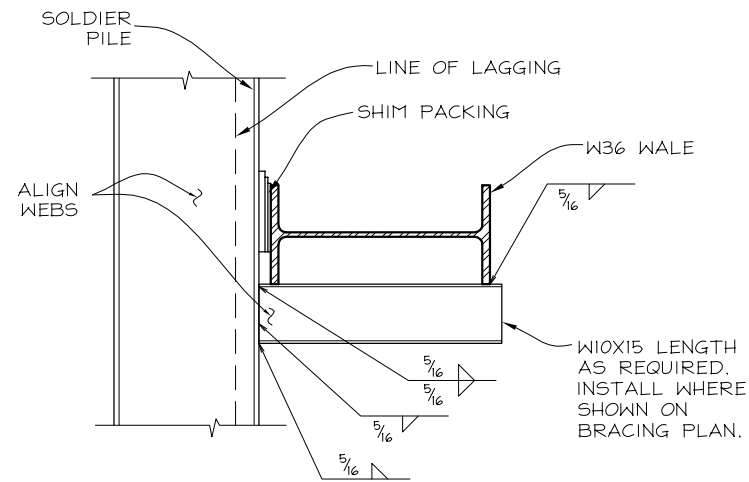


LINE, TRACK, STATIONS AND SYSTEM
 MILPITAS STATION
 EXCAVATION SHORING
 GENERAL NOTES, LOADING DIAGRAMS
 AND DRAWING INDEX
 CONTRACT: C700
 DATE: JUL. 30, 2013
 JOB: 212412MS

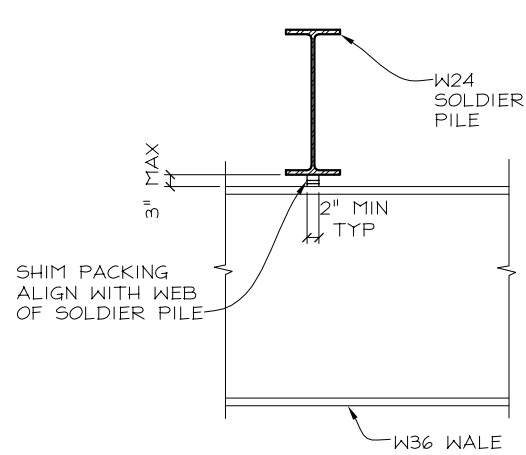
SHEET: **SH400**
 DRAWING NO. 1 OF 23
 REVISION: NOV. 7, 2013
 SCALE: NO SCALE



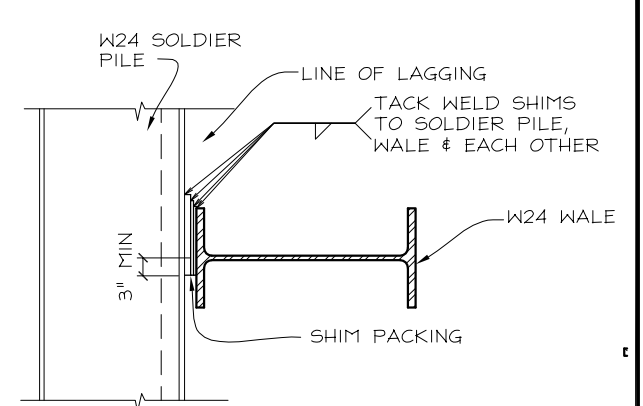
3 PILE SPLICE DETAIL
SH450 SCALE: 3/4" = 1'-0"



4 WALE SUPPORT BRACKET
SH410 SCALE: 3/4" = 1'-0"

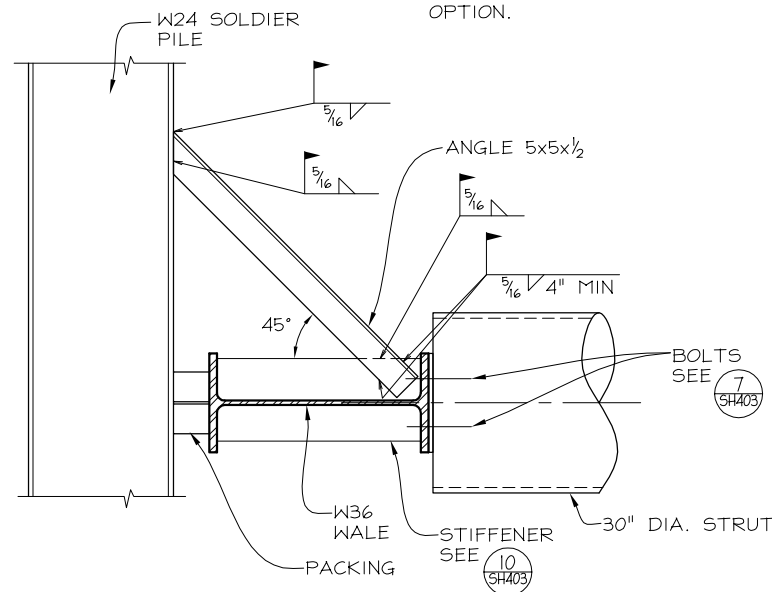


1 SHIM PACKING DETAIL
SH410 SCALE: 3/4" = 1'-0"

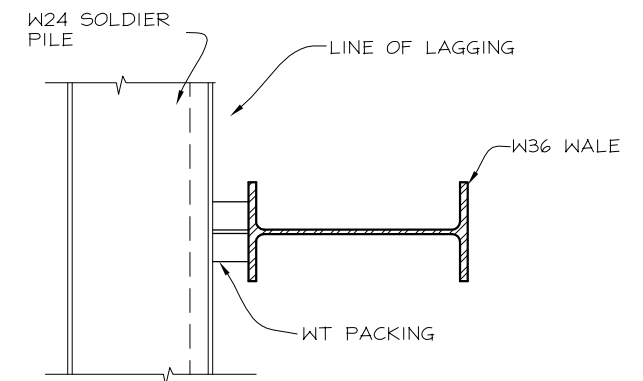
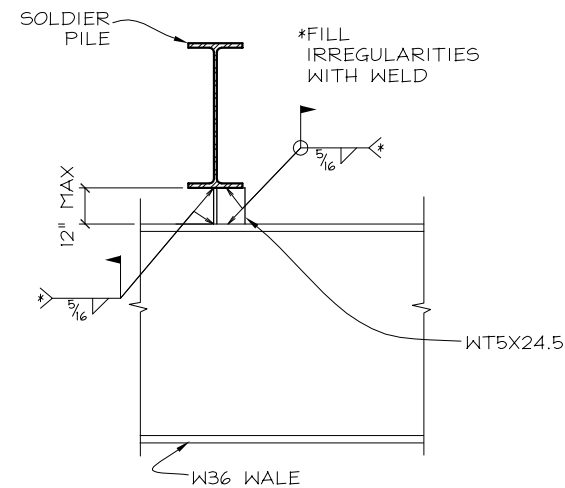


2 TEE PACKING DETAIL
SH410 SCALE: 3/4" = 1'-0"

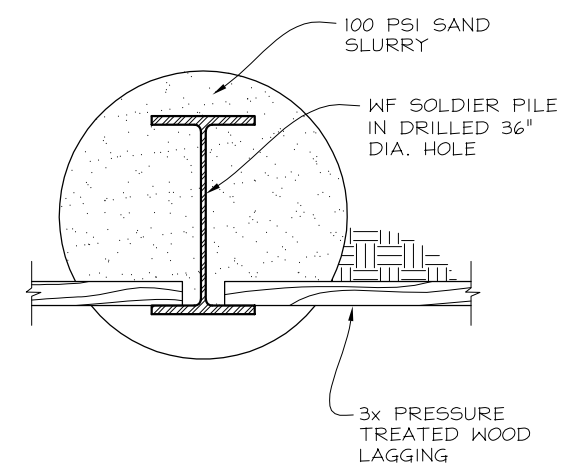
- NOTES:
1. INSTALL ONE KNEE BRACE AT EACH STRUT END.
 2. KNEE BRACE MAY BE INSTALLED BELOW WALE AT CONTRACTOR'S OPTION.



5 KNEE BRACE DETAIL
SH410 SCALE: 3/4" = 1'-0"



- NOTES:
1. WT TO BE CUT FOR FULL BEARING AT SHEET PILE AND WALE.
 2. ALIGN WT STEM WITH WEB OF WALE.



6 SOLDIER PILE
SH410 SCALE: 1" = 1'-0"

SOLDIER PILE SCHEDULE						
SOLDIER PILE NUMBER	NUMBER OF PILES	SHAFT DIAMETER IN	BEAM TOP ELEVATION FT	BEAM TIP ELEVATION FT	BEAM LENGTH FT	BEAM SIZE
1-4	4	36	50.7	5.7	45	W24x146

NO.	DATE	REVISIONS	BY	CK
2	11-7-13	STATION DESIGN REVISED	HC	DJ
1	9-24-13	CHANGE TO BRACED DESIGN	HC	DJ

OWNER/GC
BART
SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

GRAPHIC SCALE
0 1/2" 1" 1 1/2" 2" 2 1/2" 3"

CADD FILE NAME
212412_SH401.DWG

PLOT DATE

CLIENT
Skanska Shimmick Herzog

1436 California Circle
Milpitas, California 95035

A Joint Venture

BLCE

BERT-LINDQUIST CONSULTING ENGINEERS, INC.
920 COUNTRY CLUB DRIVE, SUITE 2A, MORAGA CA, 94556
(925) 247-9000 FAX (925) 247-9010

a Division of Brierley Associates, Inc.

DESIGNED REB CHECKED DRJ DRAWN HC

REGISTERED PROFESSIONAL ENGINEER
DUGLAS R. JENSEN
NO. C58512
EXP. 12-31-14
CIVIL
STATE OF CALIFORNIA

LINE, TRACK, STATIONS AND SYSTEM
MILPITAS STATION
EXCAVATION SHORING
SOLDIER PILE
TYPICAL DETAILS

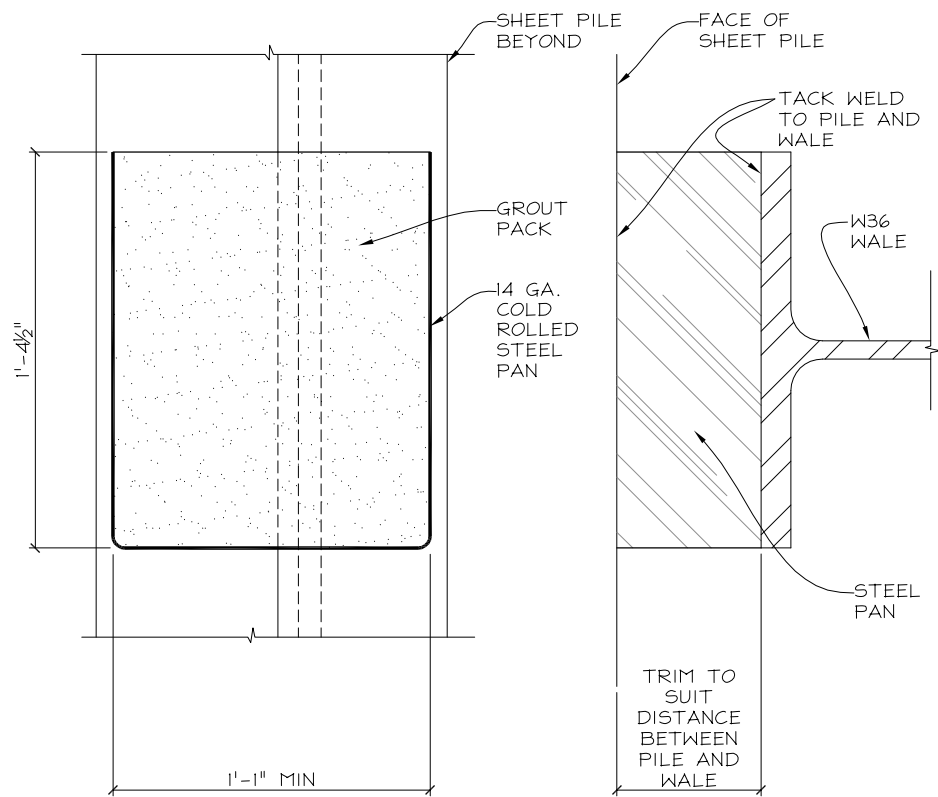
CONTRACT C700 DATE SEP. 30, 2013 JOB 212412HTr

SHEET
SH401

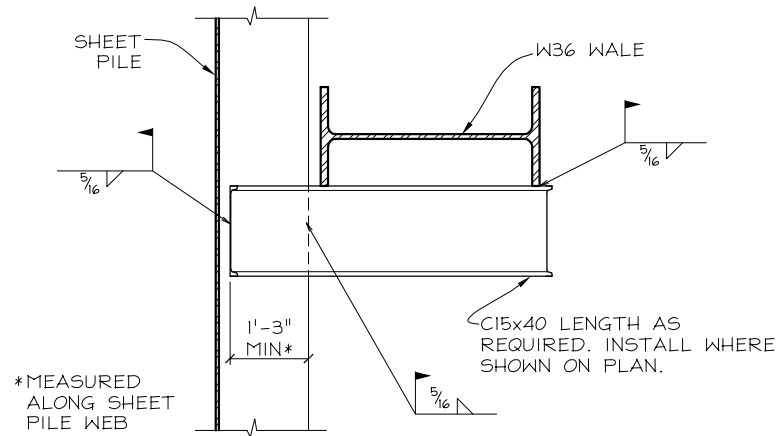
DRAWING NO.
2 OF 23

REVISION
NOV. 7, 2013

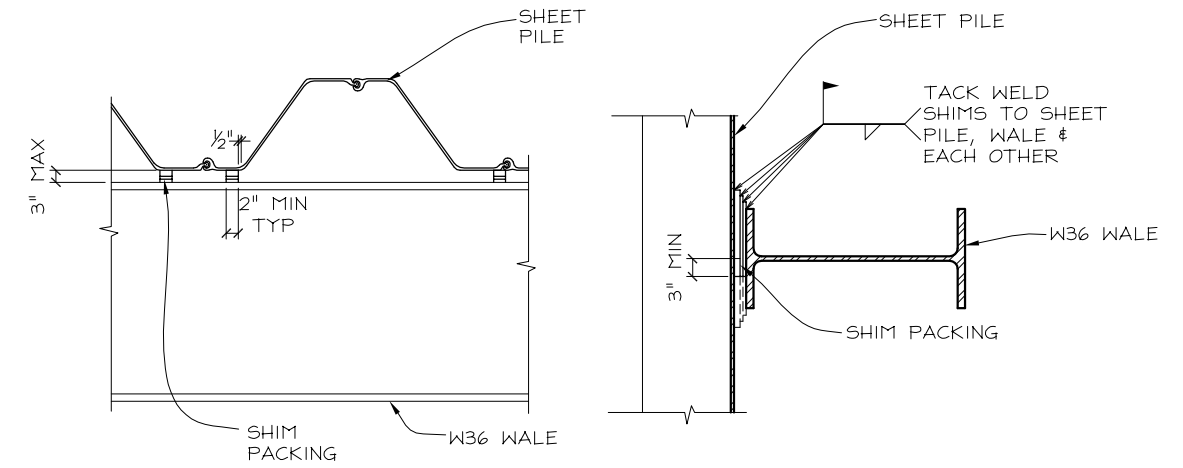
SCALE
AS SHOWN



6 SHEET METAL GROUT PAN
SCALE: 3" = 1'-0"



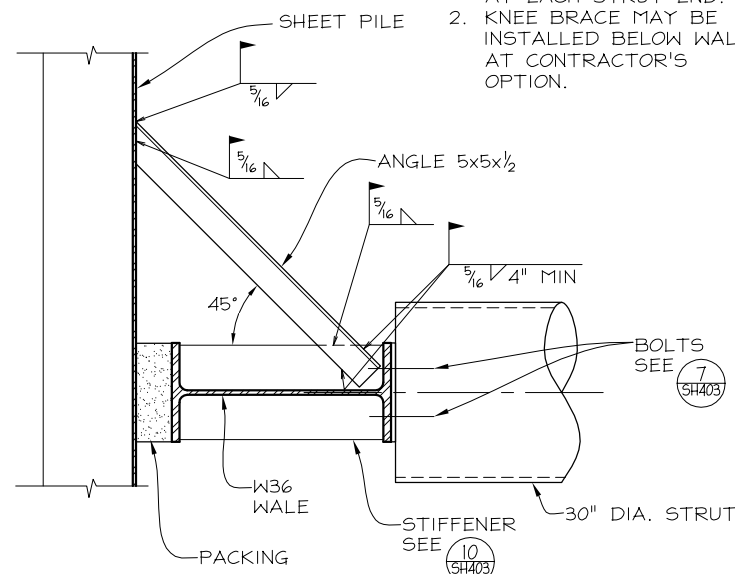
4 WALE SUPPORT BRACKET
SCALE: 3/4" = 1'-0"



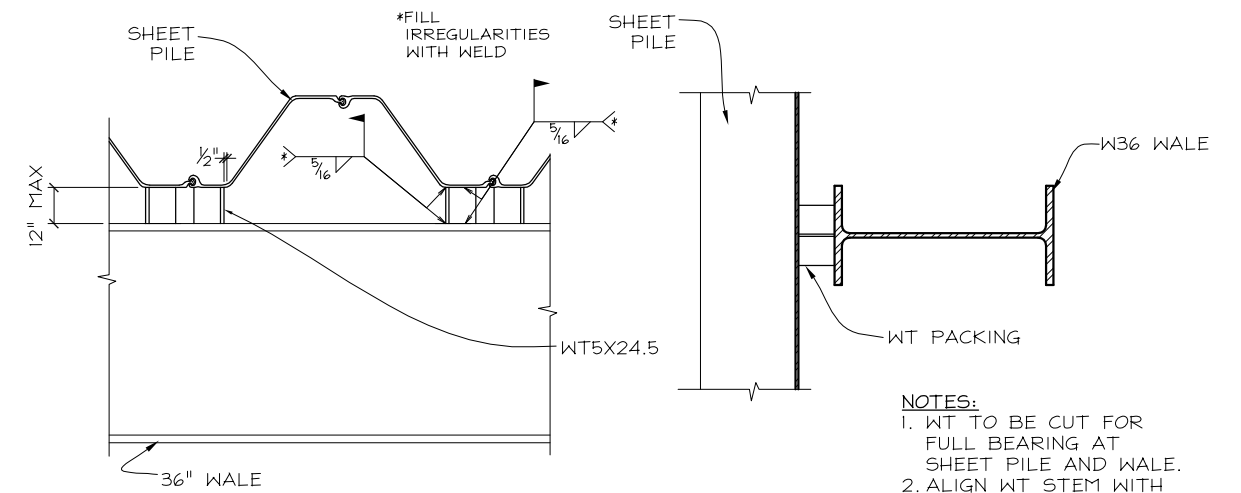
1 SHIM PACKING DETAIL
SCALE: 3/4" = 1'-0"

NOTES:

1. INSTALL ONE KNEE BRACE AT EACH STRUT END.
2. KNEE BRACE MAY BE INSTALLED BELOW WALE AT CONTRACTOR'S OPTION.



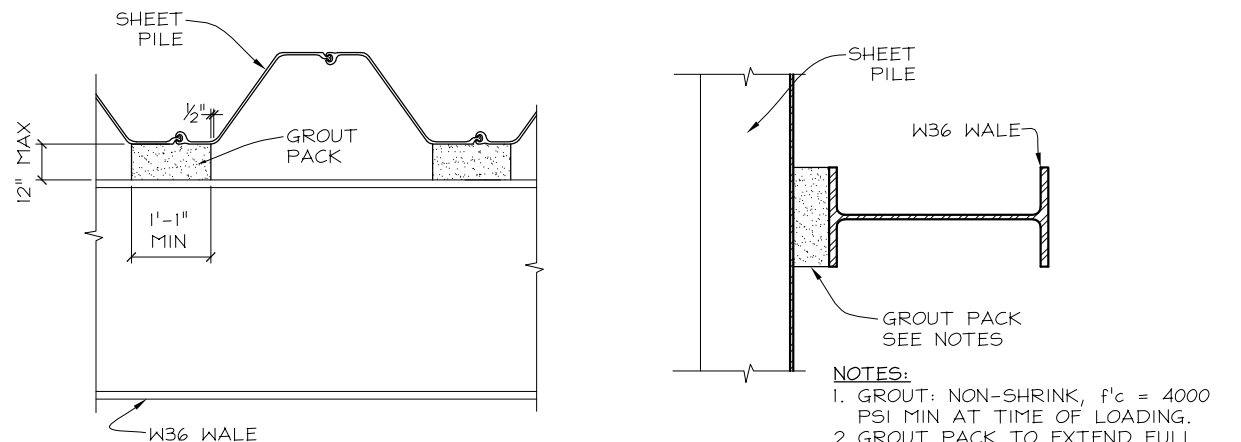
5 KNEE BRACE DETAIL
SCALE: 3/4" = 1'-0"



2 TEE PACKING DETAIL
SCALE: 3/4" = 1'-0"

NOTES:

1. WT TO BE CUT FOR FULL BEARING AT SHEET PILE AND WALE.
2. ALIGN WT STEM WITH WEB OF WALE.



3 GROUT PACKING DETAIL
SCALE: 3/4" = 1'-0"

NOTES:

1. GROUT: NON-SHRINK, f'c = 4000 PSI MIN AT TIME OF LOADING.
2. GROUT PACK TO EXTEND FULL HEIGHT OF WALE FLANGE.
3. PROVIDE SHEET METAL PAN TO CONTAIN GROUT DURING PLACEMENT SEE 6.

NO.	DATE	REVISIONS	BY	CK
2	11-7-13	STATION DESIGN REVISED	HC	DJ
1	9-24-13	CHANGE TO BRACED DESIGN	HC	DJ

OWNER/GC
BART
SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

GRAPHIC SCALE
0 1/2" 1" 1 1/2" 2" 2 1/2" 3"

CADD FILE NAME
212412_SH402.DWG

PLOT DATE

CLIENT
Skanska Shimmick Herzog

1436 California Circle
Milpitas, California 95035

A Joint Venture

APPROVED

DATE

BLCE

BERT-LINDQUIST CONSULTING ENGINEERS, INC.
920 COUNTRY CLUB DRIVE, SUITE 2A, MORAGA CA, 94556
(925) 247-9000 FAX (925) 247-9010

a Division of Brierley Associates, Inc.

DESIGNED REB CHECKED DRJ DRAWN HC

REGISTERED PROFESSIONAL ENGINEER
DOUGLAS R. JENSEN
NO. C58512
EXP. 12-31-14
CIVIL
STATE OF CALIFORNIA

LINE, TRACK, STATIONS AND SYSTEM
MILPITAS STATION
EXCAVATION SHORING
SHEET PILE
TYPICAL DETAILS

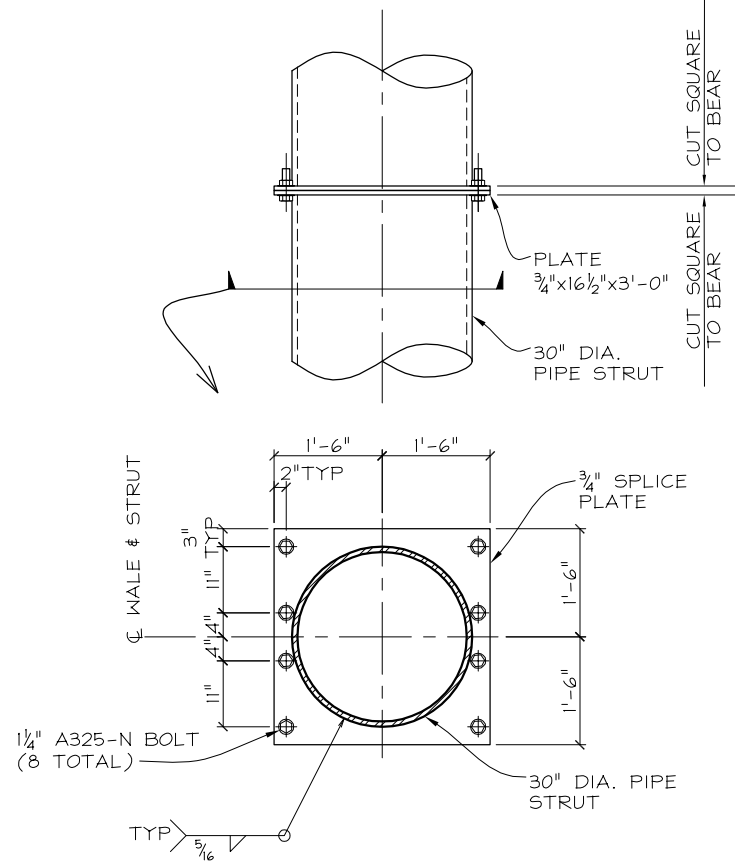
CONTRACT C700 DATE JUL. 30, 2013 JOB 212412MS

SHEET
SH402

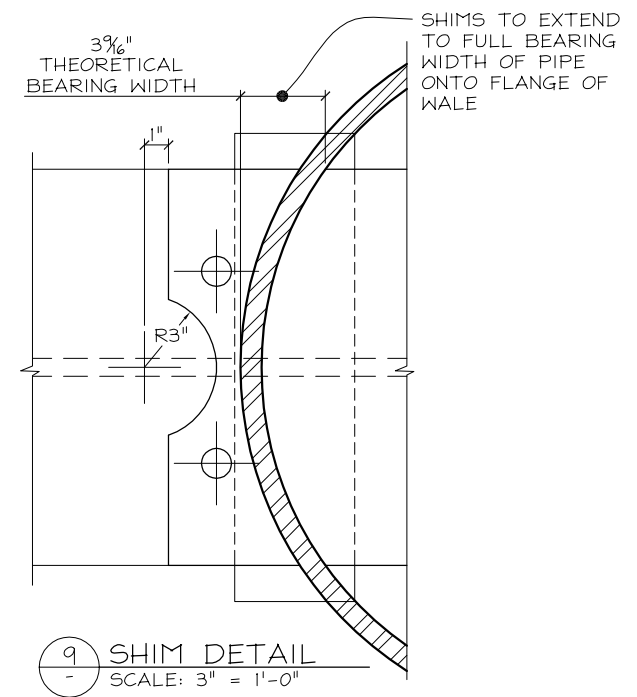
DRAWING NO.
3 OF 23

REVISION
NOV. 7, 2013

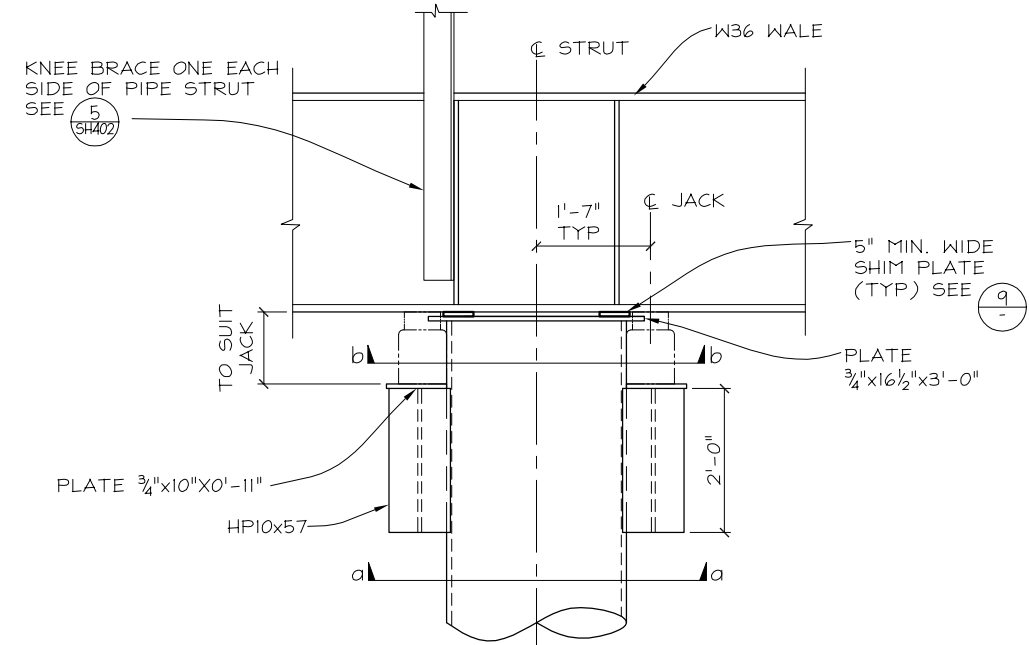
SCALE AS SHOWN



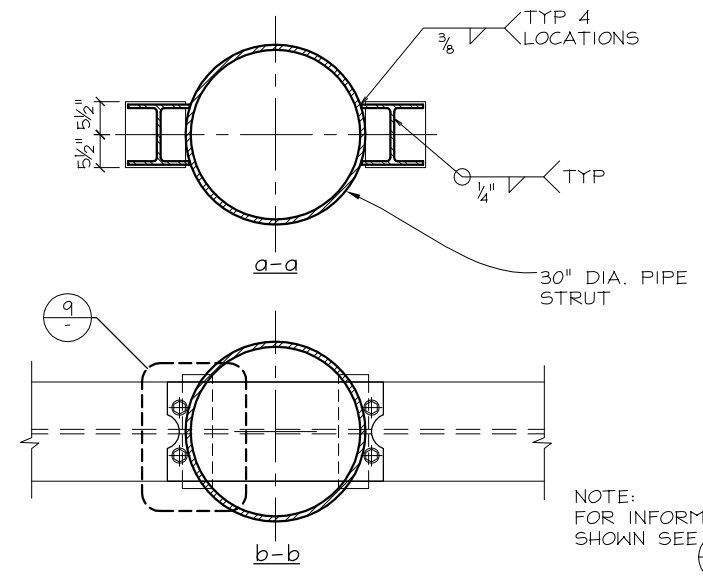
II PIPE STRUT SPLICE
SCALE: 3/4" = 1'-0"



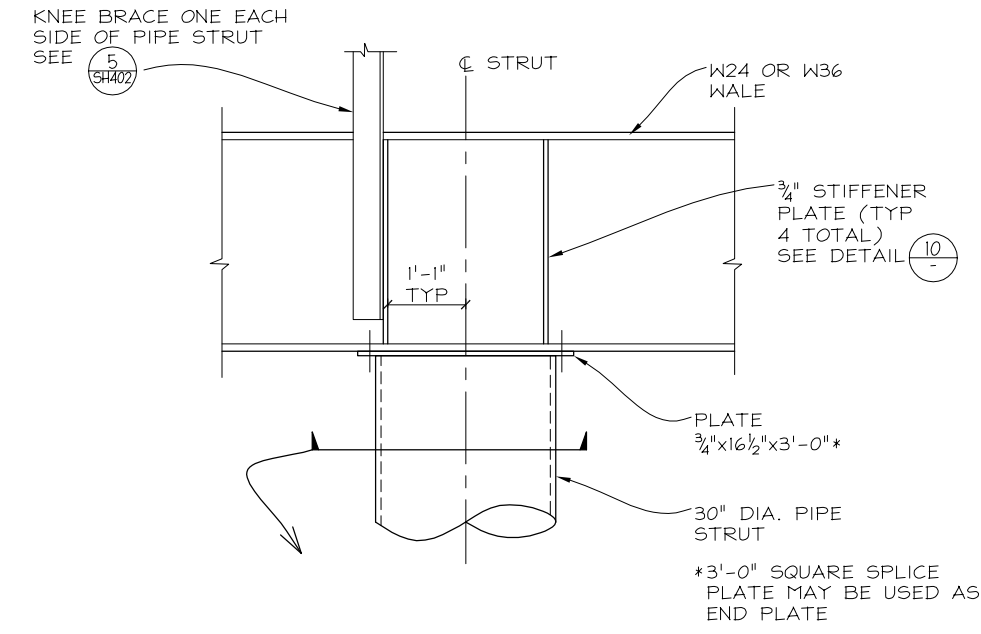
9 SHIM DETAIL
SCALE: 3" = 1'-0"



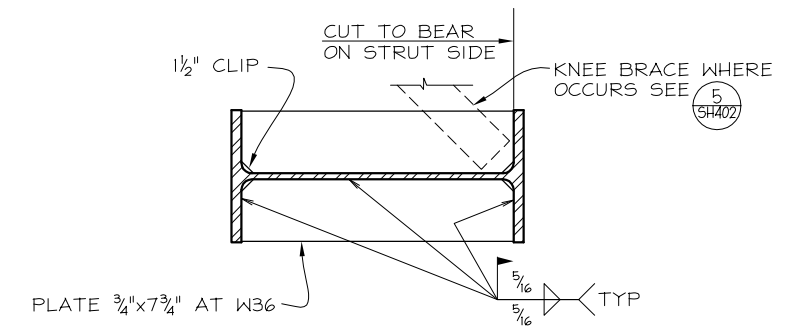
8 TYPICAL PIPE STRUT CONNECTION - JACKING END
SCALE: 3/4" = 1'-0"



7 TYPICAL PIPE STRUT CONNECTION - NON-JACKING END
SCALE: 3/4" = 1'-0"



10 STIFFENER DETAIL
SCALE: 1" = 1'-0"



NO.	DATE	REVISIONS	BY	CK
2	11-7-13	STATION DESIGN REVISED	HC	DJ
1	9-24-13	CHANGE TO BRACED DESIGN	HC	DJ

OWNER/GC
BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

CLIENT
Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

GRAPHIC SCALE
0 1/2" 1" 1 1/2" 2" 2 1/2" 3"

CADD FILE NAME: 212412_SH403.DWG
PLOT DATE: _____
APPROVED: _____ DATE: _____

DESIGNED: REB
CHECKED: DRJ
DRAWN: HC

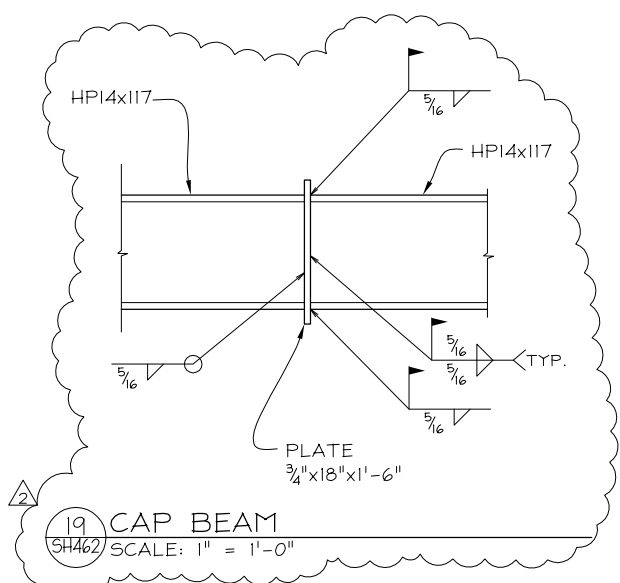
BLCE
BERT LINDQUIST CONSULTING ENGINEERS, INC.
920 COUNTRY CLUB DRIVE, SUITE 2A, MORAGA CA, 94556
(925) 247-9000 FAX (925) 247-9010
a Division of Brierley Associates, Inc.

REGISTERED PROFESSIONAL ENGINEER
DOUGLAS R. JENSEN
NO. C58512
EXP. 12-31-14
CIVIL
STATE OF CALIFORNIA

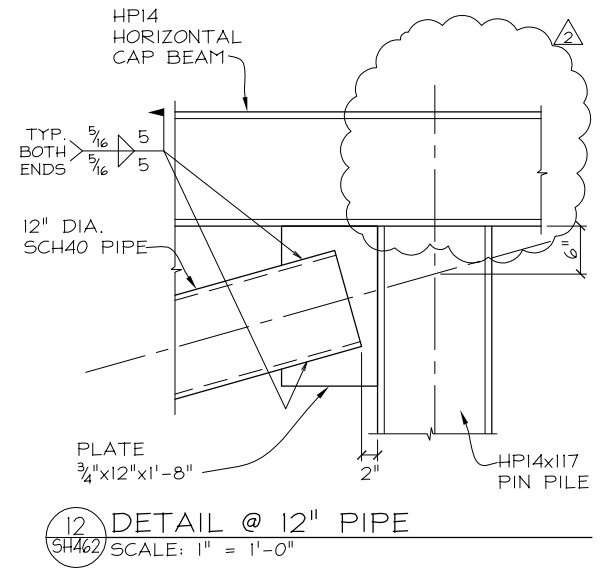
LINE, TRACK, STATIONS AND SYSTEM
MILPITAS STATION
EXCAVATION SHORING
BRACING
TYPICAL DETAILS

CONTRACT: C700
DATE: JUL. 30, 2013
JOB: 212412MS

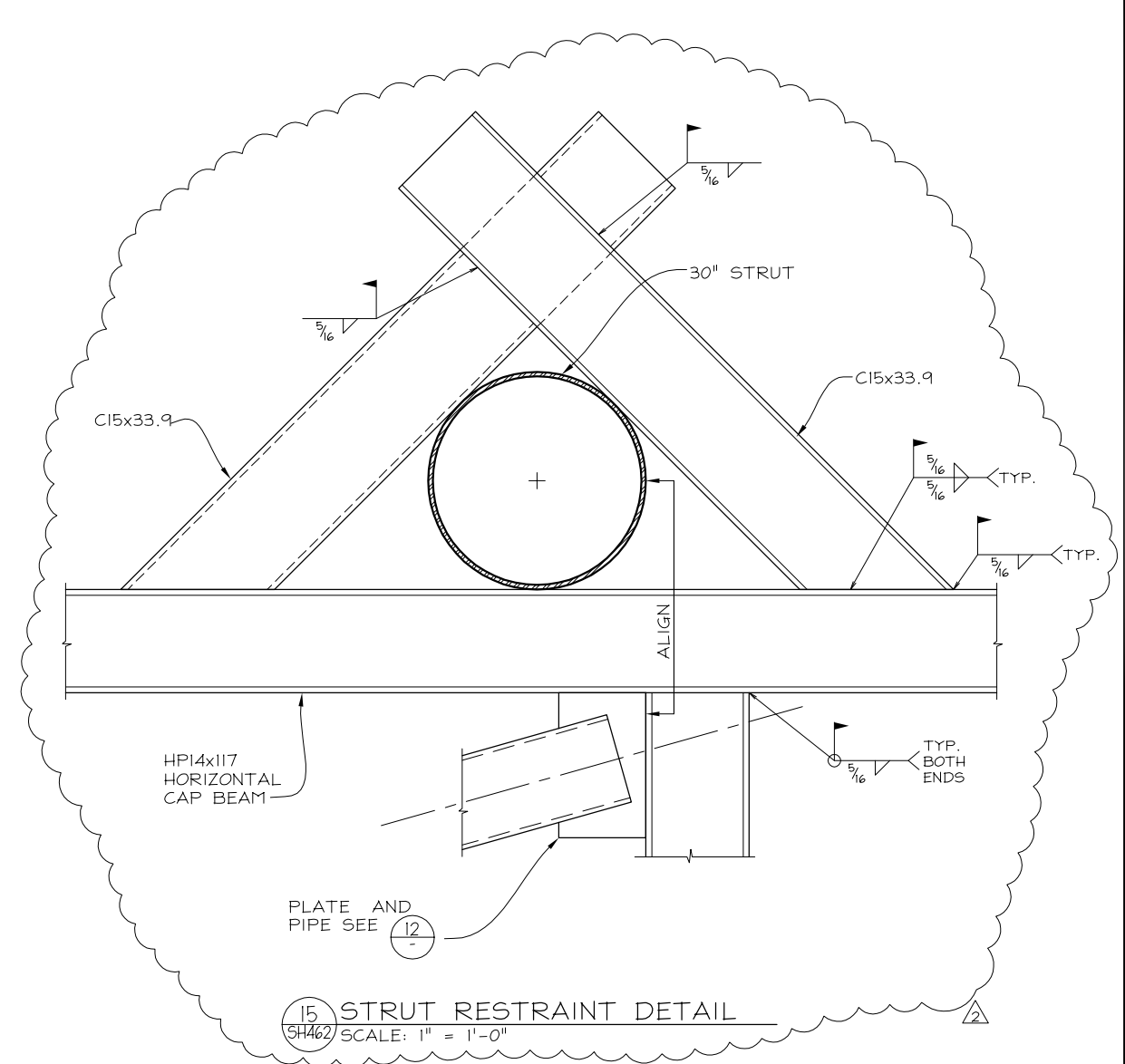
SHEET
SH403
DRAWING NO. 4 OF 23
REVISION
NOV. 7, 2013
SCALE: AS SHOWN



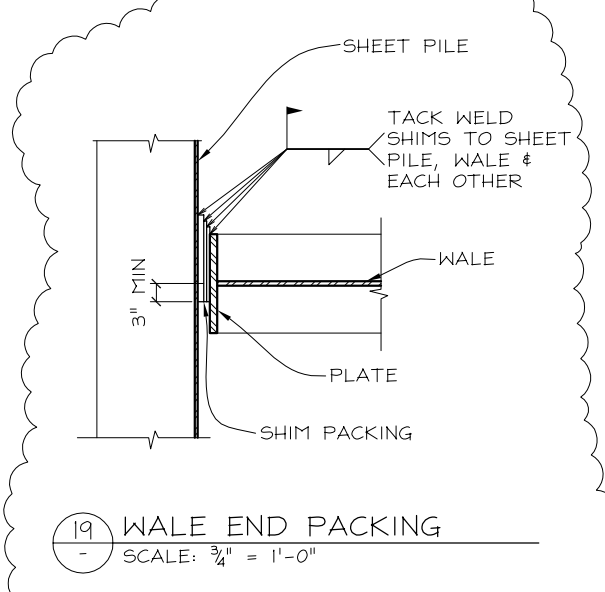
19 CAP BEAM
SH462 SCALE: 1" = 1'-0"



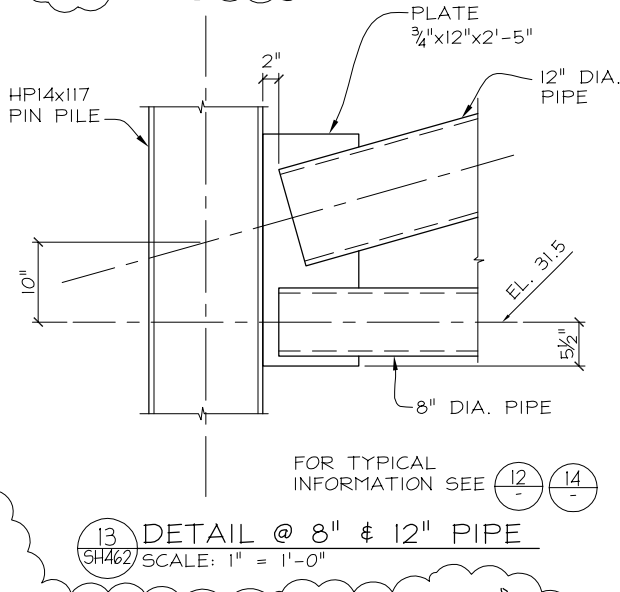
12 DETAIL @ 12" PIPE
SH462 SCALE: 1" = 1'-0"



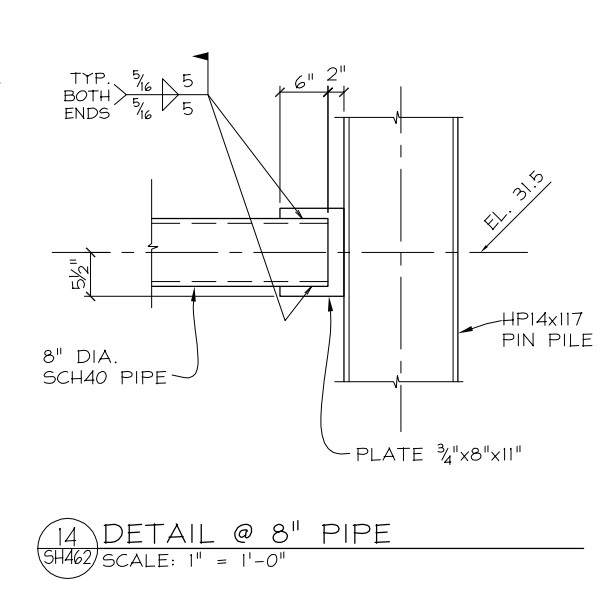
15 STRUT RESTRAINT DETAIL
SH462 SCALE: 1" = 1'-0"



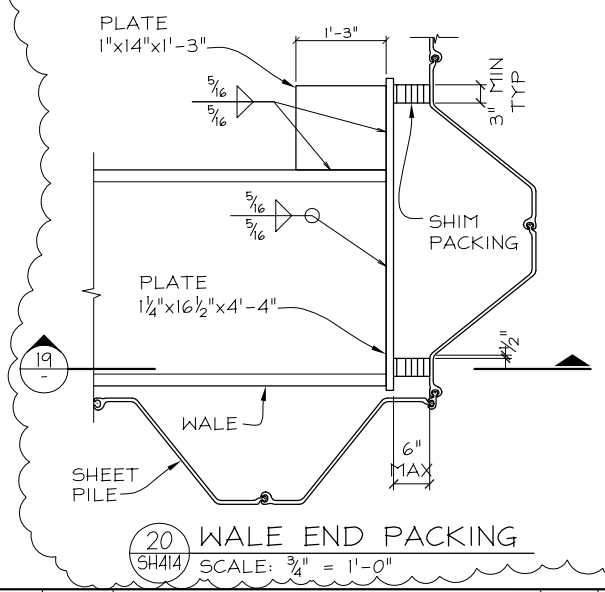
19 WALE END PACKING
SCALE: 3/4" = 1'-0"



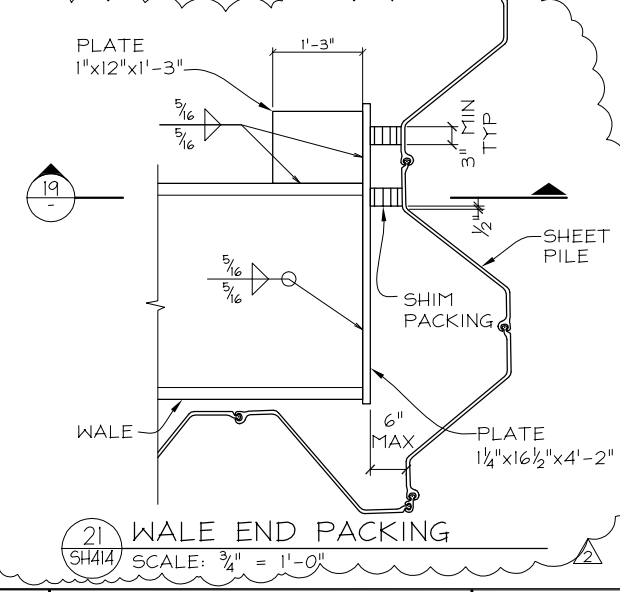
13 DETAIL @ 8" & 12" PIPE
SH462 SCALE: 1" = 1'-0"



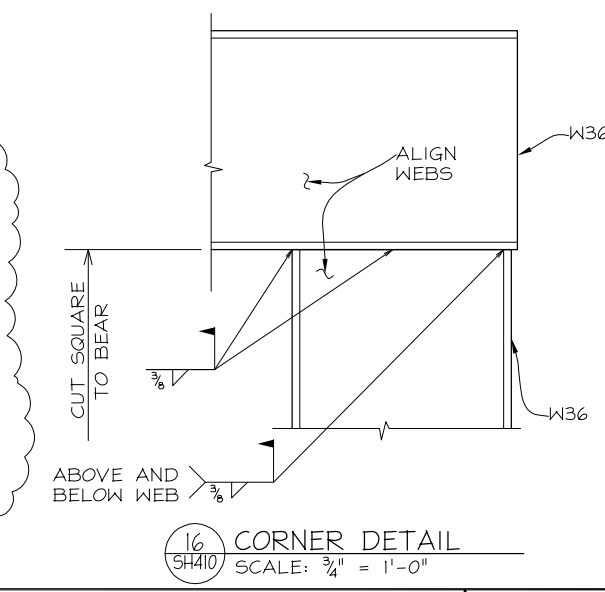
14 DETAIL @ 8" PIPE
SH462 SCALE: 1" = 1'-0"



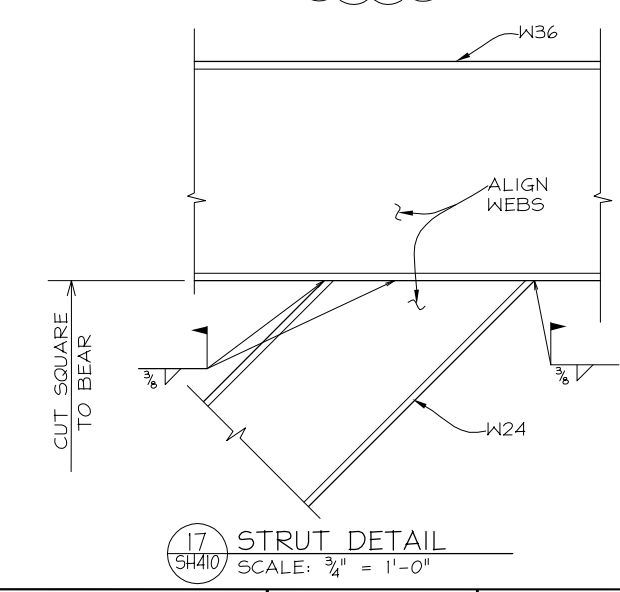
20 WALE END PACKING
SH414 SCALE: 3/4" = 1'-0"



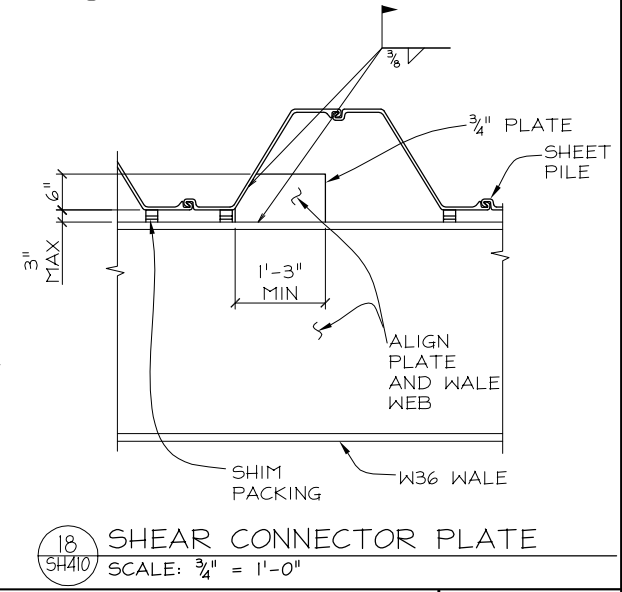
21 WALE END PACKING
SH414 SCALE: 3/4" = 1'-0"



16 CORNER DETAIL
SH410 SCALE: 3/4" = 1'-0"



17 STRUT DETAIL
SH410 SCALE: 3/4" = 1'-0"



18 SHEAR CONNECTOR PLATE
SH410 SCALE: 3/4" = 1'-0"

NO.	DATE	REVISIONS	BY	CK
11-7-13		STATION DESIGN REVISED	HC	DJ
9-24-13		CHANGED TO BRACED DESIGN	HC	DJ

OWNER/GC
BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

GRAPHIC SCALE
0 1/2" 1" 1 1/2" 2" 2 1/2" 3"

CADD FILE NAME: 212412_SH404.DWG

CLIENT
Skanska Shimmick Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

BLCE
BERT LINDQUIST CONSULTING ENGINEERS, INC.
920 COUNTRY CLUB DRIVE, SUITE 2A, MORAGA CA, 94556
(925) 247-9000 FAX (925) 247-9010
a Division of Brierley Associates, Inc.

DESIGNED: REB CHECKED: DRJ DRAWN: HC

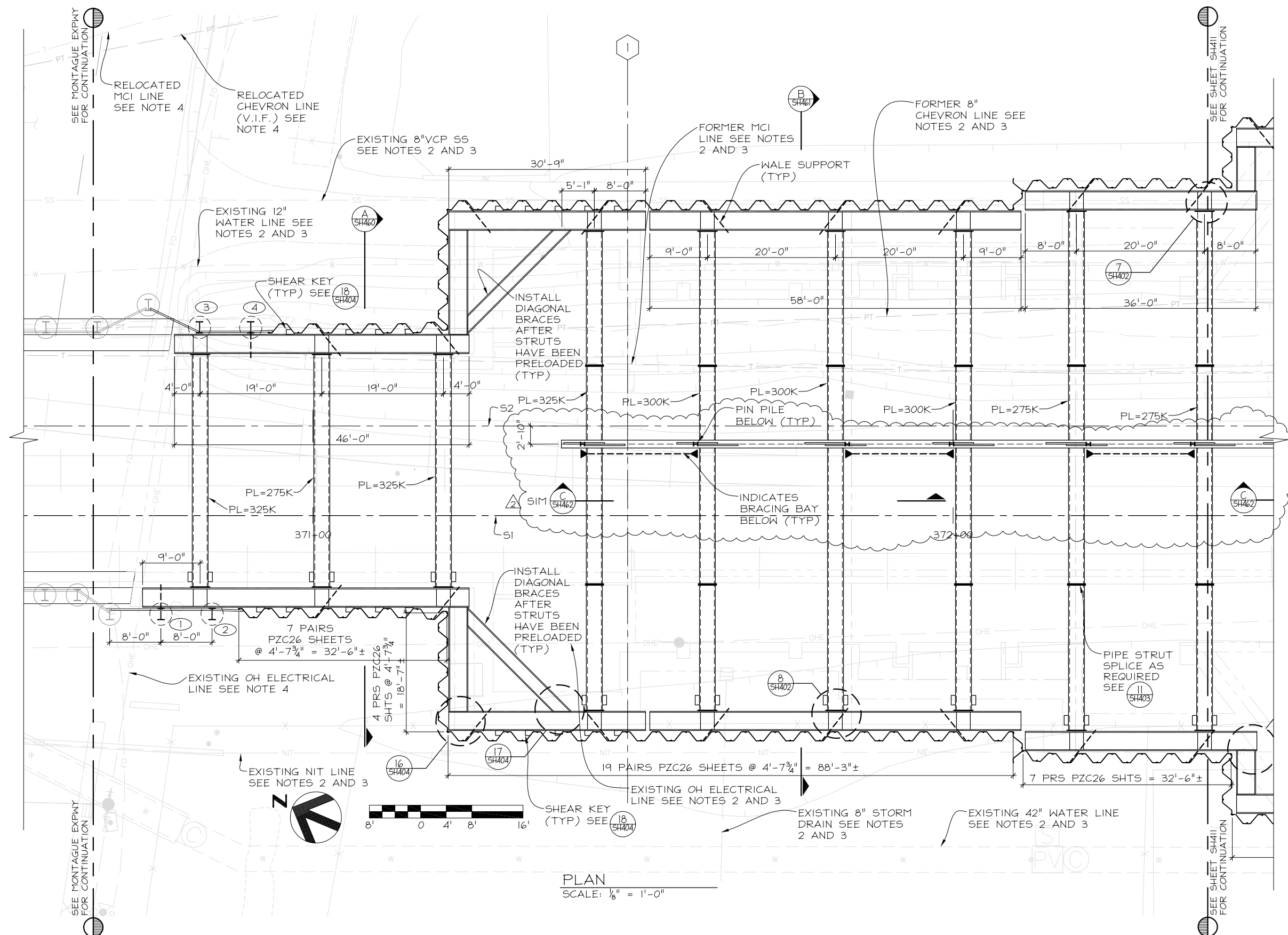


LINE, TRACK, STATIONS AND SYSTEM
MILPITAS STATION
EXCAVATION SHORING
PIN PILE
TYPICAL DETAILS

CONTRACT: C700 DATE: JUL. 30, 2013 JOB: 212412MS

SHEET
SH404

DRAWING NO. 5 OF 23
REVISION NOV. 7, 2013
SCALE: AS SHOWN



- NOTES:**
1. ALL UTILITY INFORMATION SHOWN HAS BEEN PROVIDED BY SSHJV AND IS BASED ON THE AVAILABLE INFORMATION TO DATE. SSHJV MUST VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO SOLDIER BEAM AND SHEET PILE INSTALLATION TO ENSURE THE ADEQUATE PROTECTION.
 2. UTILITY TO BE RELOCATED PRIOR TO SOLDIER BEAM AND SHEET PILE INSTALLATION.
 3. OBSTRUCTION TO BE REMOVED AS REQUIRED.
 4. UTILITY TO BE RELOCATED OR PROTECTED IN PLACE AS REQUIRED FOR SHEET PILE INSTALLATION.
 5. SEE SHEETS SH402 THRU SH404 FOR TYPICAL SHEET PILE AND BRACING CONNECTION DETAILS.
 6. SEE ELEVATIONS ON SHEETS SH450 THRU SH455 FOR TOP OF SHEET, BOTTOM OF SHEET AND BRACING ELEVATIONS.
 7. WALES: W36x231 (TYP).
 8. STRUTS: 30" DIA. x 5/8" WALL PIPE (TYP., U.O.N.)
 9. PL = STRUT PRE-LOAD
 10. SOLDIER BEAMS: W24x146 (TYP)

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

NO.	DATE	REVISIONS	BY	CK
2	11-7-13	STATION DESIGN REVISED	HC	DJ
1	9-24-13	CHANGED TO BRACED DESIGN	HC	DJ

BART
SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

GRAPHIC SCALE: 0 1/2" 1" 1 1/2" 2" 2 1/2" 3"

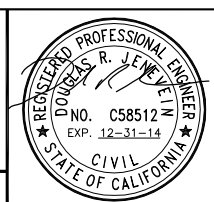
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Skanska Shimmick Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

BLCE
BERT LINDQUIST CONSULTING ENGINEERS, INC.
920 COUNTRY CLUB DRIVE, SUITE 2A, MORAGA CA, 94556
(925) 247-9000 FAX (925) 247-9010
a Division of Brierley Associates, Inc.

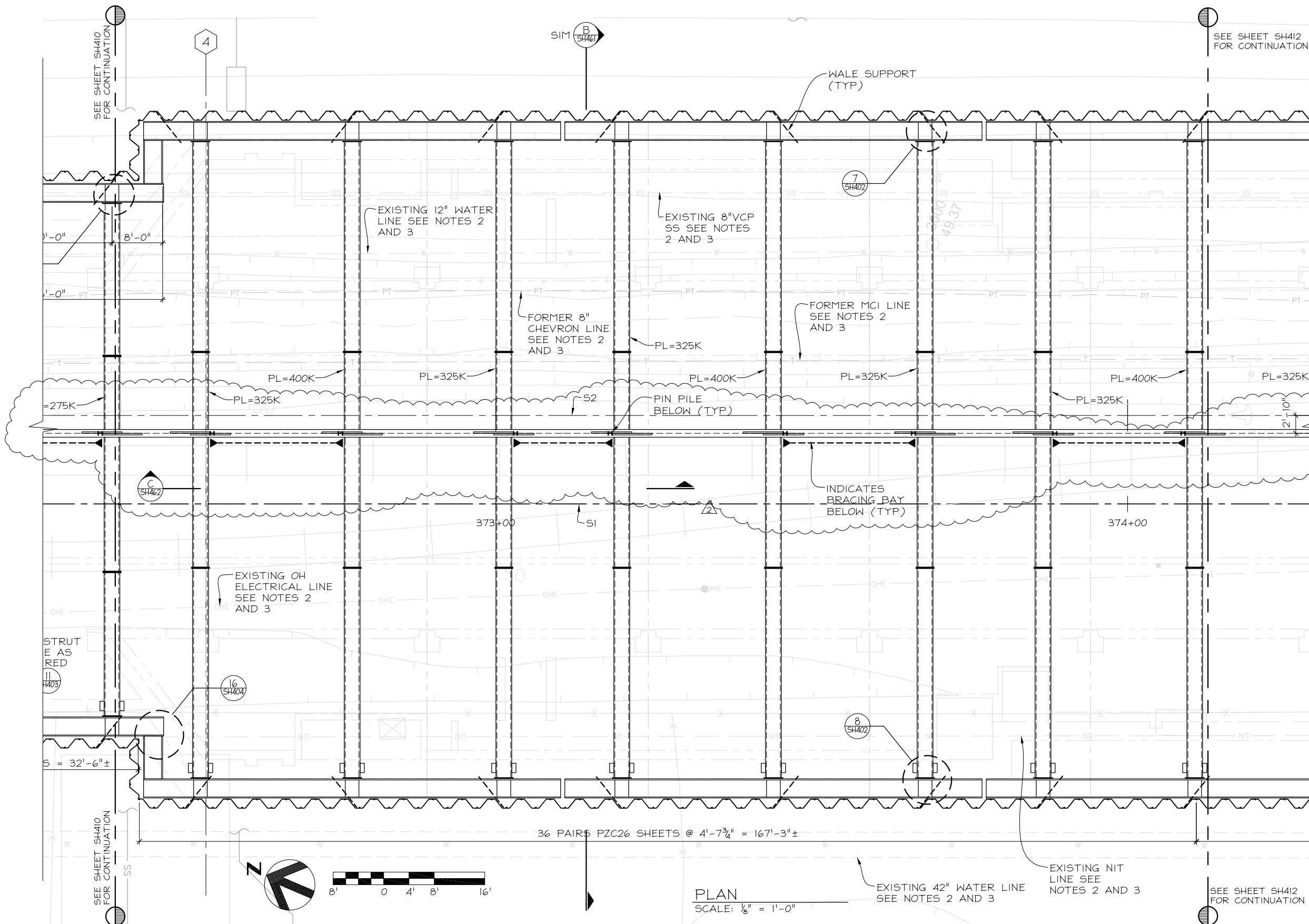
DESIGNED: REB CHECKED: DRJ DRAWN: HC



LINE, TRACK, STATIONS AND SYSTEM
MILPITAS STATION
EXCAVATION SHORING
SHEET PILE LAYOUT AND
LEVEL 1 BRACING PLAN (1 OF 5)

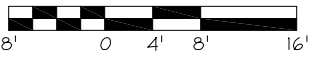
CONTRACT: C700 DATE: JUL. 30, 2013 JOB: 212412MS

SHEET **SH410**
DRAWING NO. 6 OF 23
REVISION NOV. 7, 2013
SCALE 1/8" = 1'-0"



- NOTES:**
1. ALL UTILITY INFORMATION SHOWN HAS BEEN PROVIDED BY SSHJV AND IS BASED ON THE AVAILABLE INFORMATION TO DATE. SSHJV MUST VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO SHEET PILE INSTALLATION TO ENSURE THE ADEQUATE PROTECTION.
 2. UTILITY TO BE RELOCATED PRIOR TO SHEET PILE INSTALLATION.
 3. OBSTRUCTION TO BE REMOVED AS REQUIRED.
 4. UTILITY TO BE RELOCATED OR PROTECTED IN PLACE AS REQUIRED FOR SHEET PILE INSTALLATION.
 5. SEE SHEETS SH402 THRU SH404 FOR TYPICAL SHEET PILE AND BRACING CONNECTION DETAILS.
 6. SEE ELEVATIONS ON SHEETS SH450 THRU SH455 FOR TOP OF SHEET, BOTTOM OF SHEET AND BRACING ELEVATIONS.
 7. WALES: W36x231 (TYP).
 8. STRUTS: 30" DIA. x 5/8" WALL PIPE (TYP., U.O.N.)
 9. PL = STRUT PRE-LOAD

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



NO.	DATE	REVISIONS	BY	CK
11-7-13		STATION DESIGN REVISED	HC	DJ
9-24-13		CHANGED TO BRACED DESIGN	HC	DJ

OWNER
BART
SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

CLIENT
Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95055
A Joint Venture

GRAPHIC SCALE: 0 1/2" 1" 1 1/2" 2" 2 1/2" 3"

CADD FILE NAME: 212412_SH411.DWG

DESIGNED: REB
CHECKED: DRJ
DRAWN: HC

DATE: _____

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LINE, TRACK, STATIONS AND SYSTEM
MILPITAS STATION
EXCAVATION SHORING
SHEET PILE LAYOUT AND
LEVEL 1 BRACING PLAN (2 OF 5)

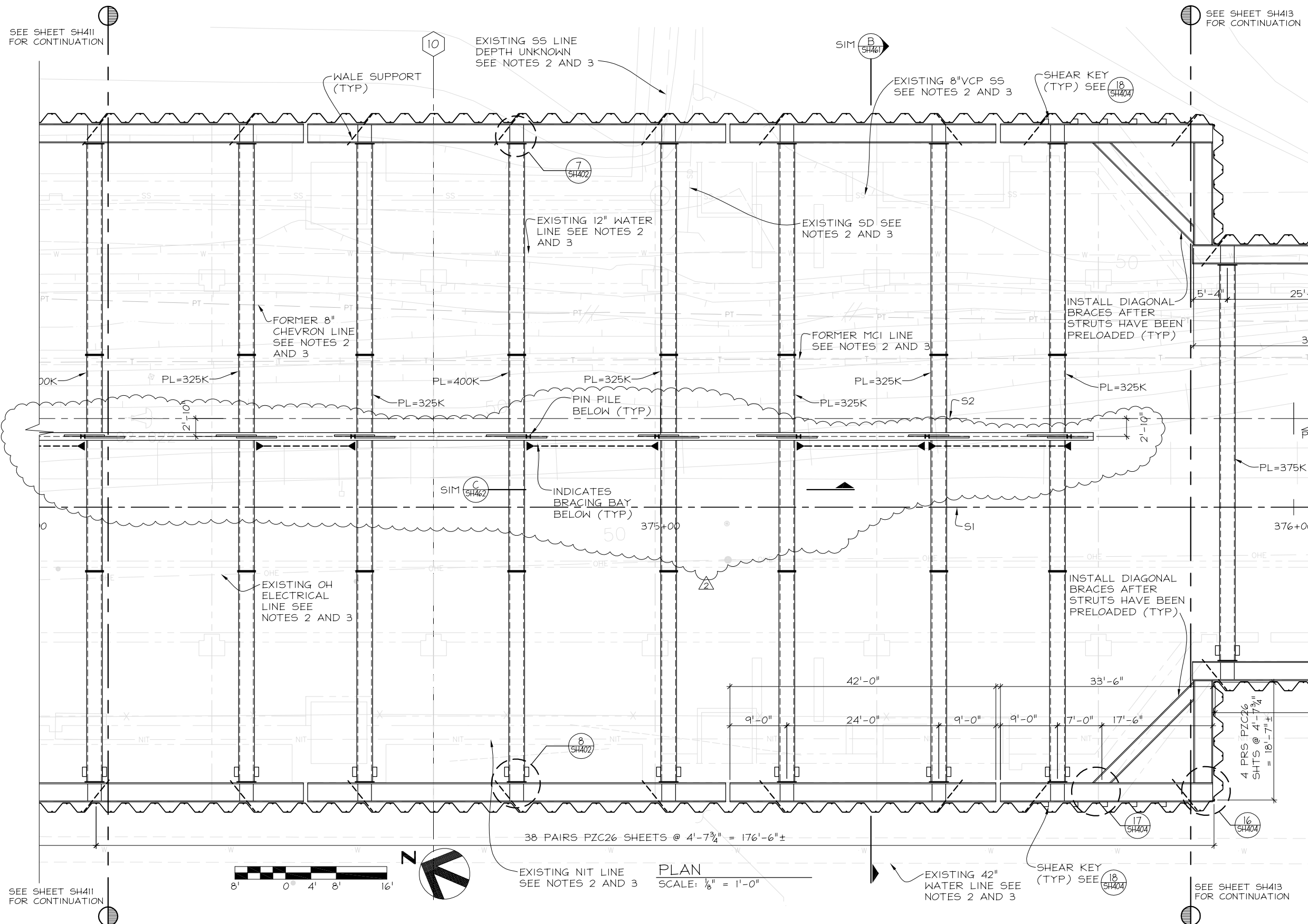
CONTRACT: C700
DATE: JUL. 30, 2013
JOB: 212412MS

SHEET
SH411

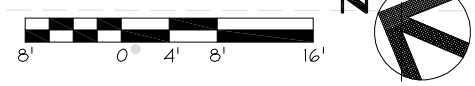
DRAWING NO. 7 OF 23

REVISION
NOV. 7, 2013

SCALE 1/8" = 1'-0"



- NOTES:**
1. ALL UTILITY INFORMATION SHOWN HAS BEEN PROVIDED BY SSHJV AND IS BASED ON THE AVAILABLE INFORMATION TO DATE. SSHJV MUST VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO SHEET PILE INSTALLATION TO ENSURE THE ADEQUATE PROTECTION.
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 3. OBSTRUCTION TO BE REMOVED AS REQUIRED.
 4. UTILITY TO BE RELOCATED OR PROTECTED IN PLACE AS REQUIRED FOR SHEET PILE INSTALLATION.
 5. SEE SHEETS SH402 THRU SH404 FOR TYPICAL SHEET PILE AND BRACING CONNECTION DETAILS.
 6. SEE ELEVATIONS ON SHEETS SH450 THRU SH455 FOR TOP OF SHEET, BOTTOM OF SHEET AND BRACING ELEVATIONS.
 7. WALES: W36x231 (TYP).
 8. STRUTS: 30" DIA. x 5/8" WALL PIPE (TYP., U.O.N.)
 9. PL = STRUT PRE-LOAD



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

NO.	DATE	REVISIONS	BY	CK
2	11-7-13	STATION DESIGN REVISED	HC	DJ
1	9-24-13	CHANGED TO BRACED DESIGN	HC	DJ

BART
SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

GRAPHIC SCALE: 0 1/2" 1" 1 1/2" 2" 2 1/2" 3"

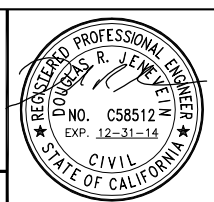
CADD FILE NAME: 212412_SH412.DWG

Skanska Shimmick Herzog

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Milpitas, California 95055
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DESIGNED: REB CHECKED: DRJ DRAWN: HC



LINE, TRACK, STATIONS AND SYSTEM
MILPITAS STATION
EXCAVATION SHORING
SHEET PILE LAYOUT AND
LEVEL 1 BRACING PLAN (3 OF 5)

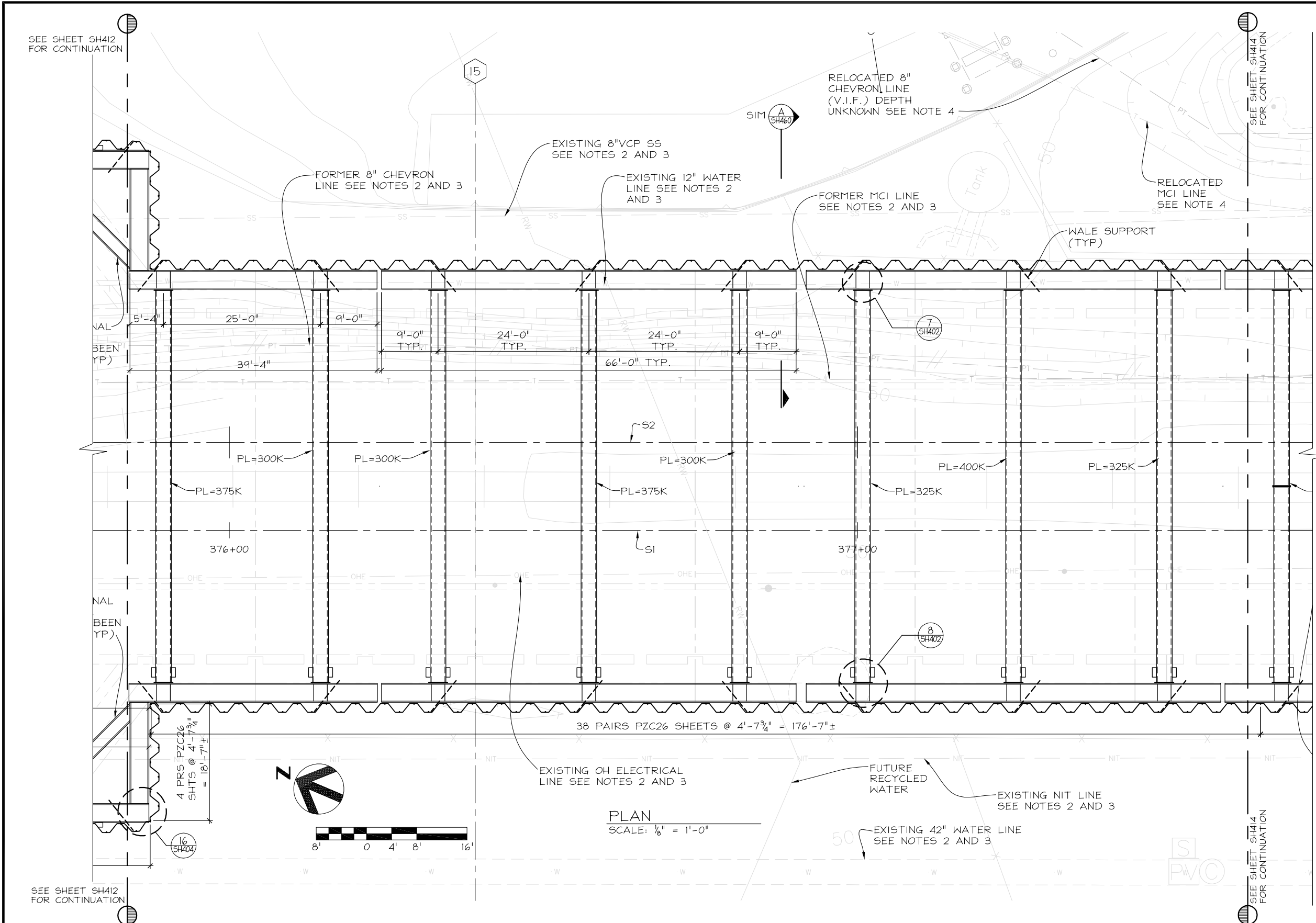
CONTRACT: C700 DATE: JUL 30, 2013 JOB: 212412MS

SHEET **SH412**

DRAWING NO. 8 OF 23

REVISION NOV. 7, 2013

SCALE 1/8" = 1'-0"



- NOTES:**
1. ALL UTILITY INFORMATION SHOWN HAS BEEN PROVIDED BY SSHJV AND IS BASED ON THE AVAILABLE INFORMATION TO DATE. SSHJV MUST VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO SHEET PILE INSTALLATION TO ENSURE THE ADEQUATE PROTECTION.
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 6. SEE ELEVATIONS ON SHEETS SH450 THRU SH455 FOR TOP OF SHEET, BOTTOM OF SHEET AND BRACING ELEVATIONS.
 7. WALES: W36x231 (TYP).
 8. STRUTS: 30" DIA. x 5/8" WALL PIPE (TYP., U.O.N.)
 9. PL = STRUT PRE-LOAD

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



NO.	DATE	REVISIONS	BY	CK
2	11-7-13	STATION DESIGN REVISED	HC	DJ
1	9-24-13	CHANGED TO BRACED DESIGN	HC	DJ

BART
SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

GRAPHIC SCALE: 0 1/2" 1" 1 1/2" 2" 2 1/2" 3"

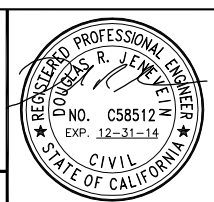
CADD FILE NAME: 212412_SH413.DWG

Skanska Shimmick Herzog

1436 California Circle
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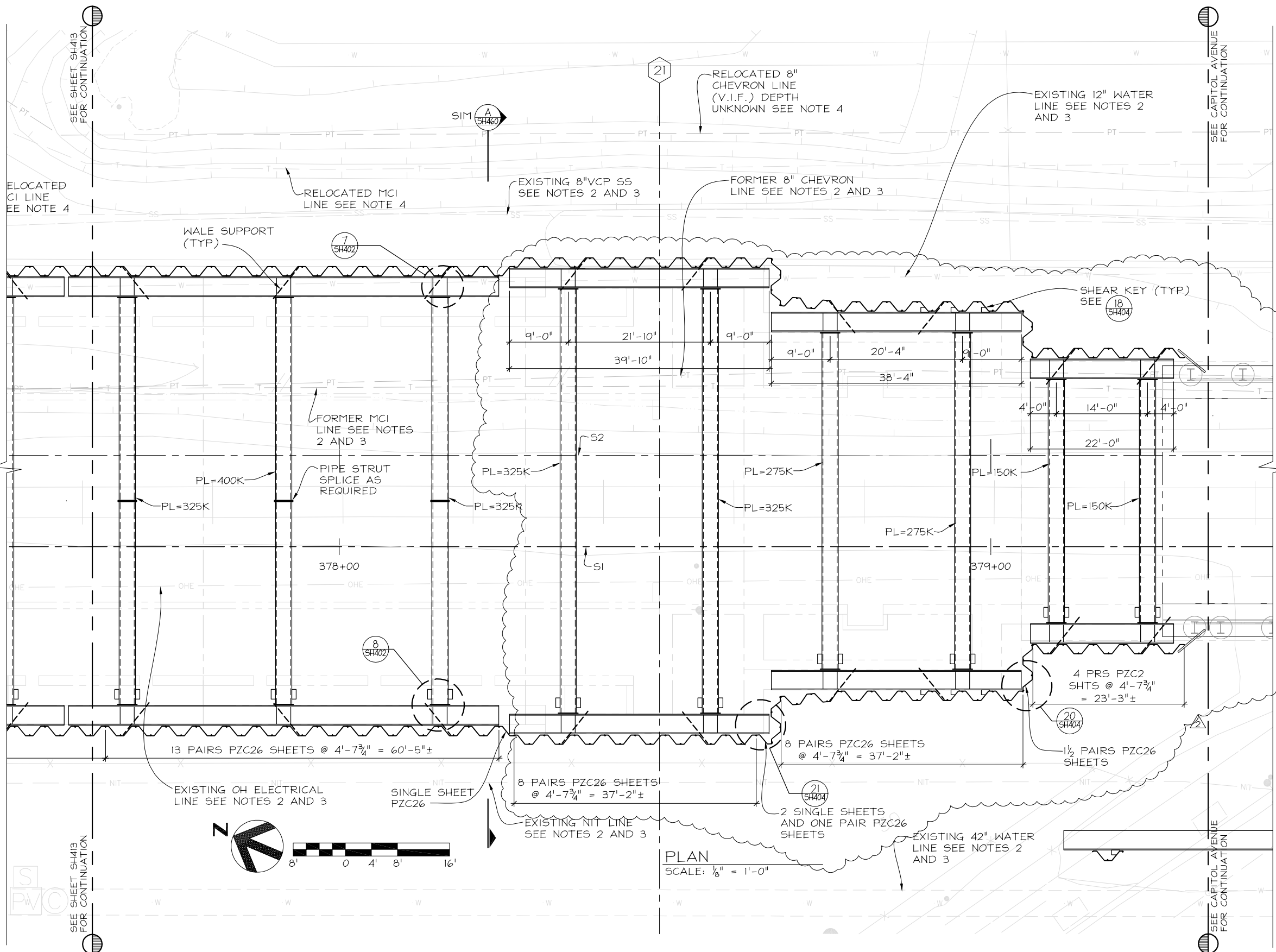


LINE, TRACK, STATIONS AND SYSTEM
MILPITAS STATION
EXCAVATION SHORING
SHEET PILE LAYOUT AND
LEVEL 1 BRACING PLAN (4 OF 5)

CONTRACT: C700 DATE: JUL 30, 2013 JOB: 212412MS

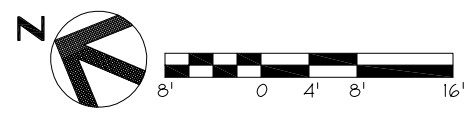
SH413

DRAWING NO. 9 OF 23
REVISION NOV. 7, 2013
SCALE 1/8" = 1'-0"



- NOTES:**
1. ALL UTILITY INFORMATION SHOWN HAS BEEN PROVIDED BY SSHJV AND IS BASED ON THE AVAILABLE INFORMATION TO DATE. SSHJV MUST VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO SOLDIER BEAM INSTALLATION TO ENSURE THE ADEQUATE PROTECTION.
 2. UTILITY TO BE RELOCATED PRIOR TO SHEET PILE INSTALLATION.
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 4. UTILITY TO BE RELOCATED OR PROTECTED IN PLACE AS REQUIRED FOR SHEET PILE INSTALLATION.
 5. SEE SHEETS SH402 THRU SH404 FOR TYPICAL SHEET PILE AND BRACING CONNECTION DETAILS.
 6. SEE ELEVATIONS ON SHEETS SH450 THRU SH455 FOR TOP OF SHEET, BOTTOM OF SHEET AND BRACING ELEVATIONS.
 7. WALES: W36x231 (TYP).
 8. STRUTS: 30" DIA. x 5/8" WALL PIPE (TYP., U.O.N.)
 9. PL = STRUT PRE-LOAD

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



NO.	DATE	REVISIONS	BY	CK
11-7-13		STATION DESIGN REVISED	HC	DJ
9-24-13		CHANGED TO BRACED DESIGN	HC	DJ

BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

GRAPHIC SCALE: 0 1/2" 1" 1 1/2" 2" 2 1/2" 3"

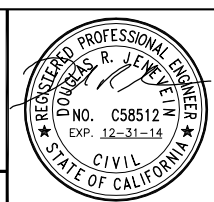
CADD FILE NAME: 212412_SH414.DWG

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Milpitas, California 95035
A Joint Venture

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DESIGNED: REB CHECKED: DRJ DRAWN: HC

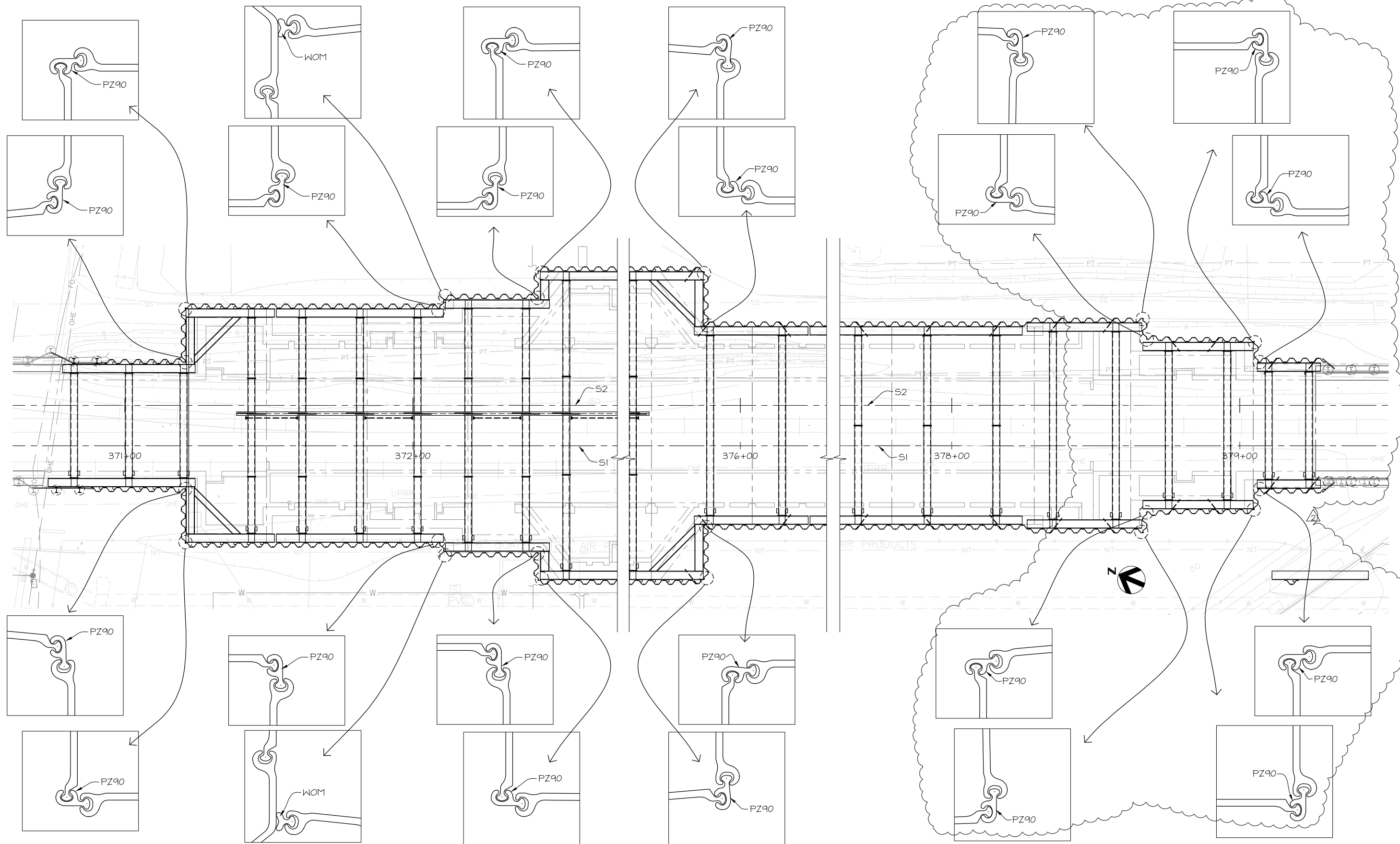


LINE, TRACK, STATIONS AND SYSTEM
MILPITAS STATION
EXCAVATION SHORING
SHEET PILE LAYOUT AND
LEVEL 1 BRACING PLAN (5 OF 5)

CONTRACT: C700 DATE: JUL. 30, 2013 JOB: 212412MS

SH414

DRAWING NO. 10 OF 23
REVISION NOV. 7, 2013
SCALE 1/8" = 1'-0"



NO.	DATE	REVISIONS	BY	CK
11-7-13		STATION DESIGN REVISED	HC	DJ
9-24-13		CHANGED TO BRACED DESIGN	HC	DJ

OWNER
BART
 SILICON VALLEY
 BART SILICON VALLEY BERRYESSA EXTENSION

GRAPHIC SCALE
 0 1/4" 1" 1 1/2" 2" 2 1/2" 3"

CADD FILE NAME
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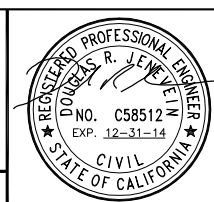
CLIENT
Skanska Shimmick Herzog
 1436 California Circle
 Milpitas, California 95035
 A Joint Venture

APPROVED _____ DATE _____

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 920 COUNTRY CLUB DRIVE, SUITE 2A, MORAGA CA, 94556
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 a Division of Brierley Associates, Inc.

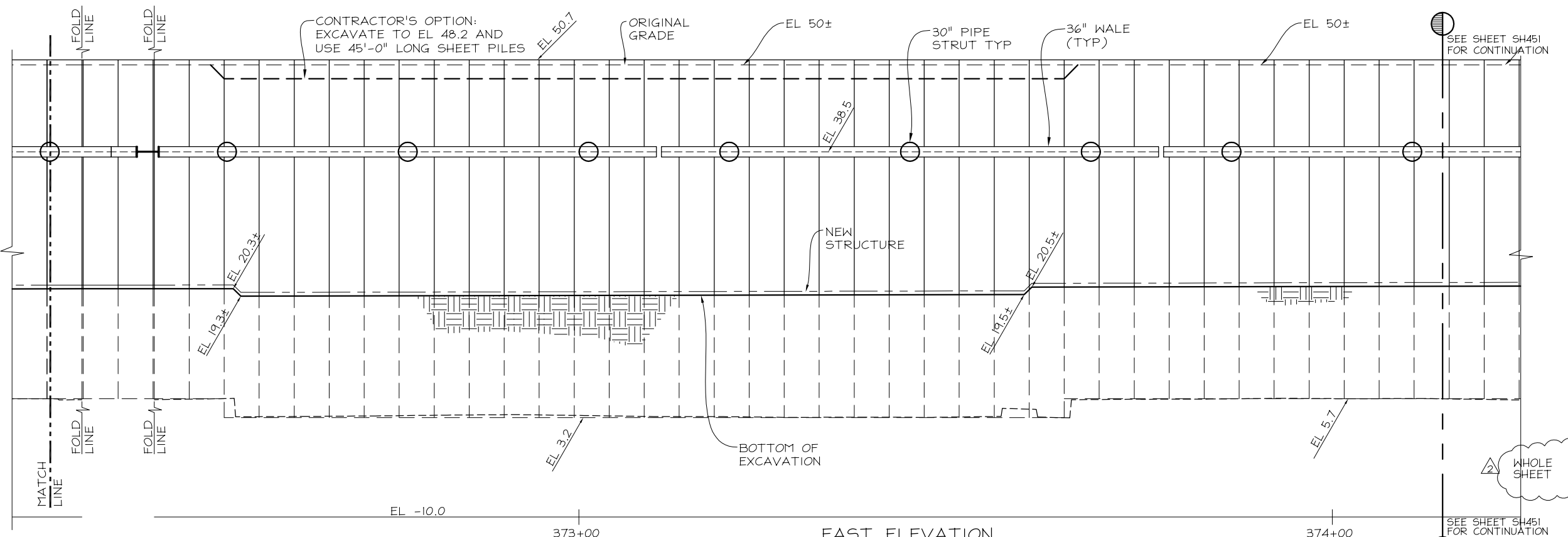
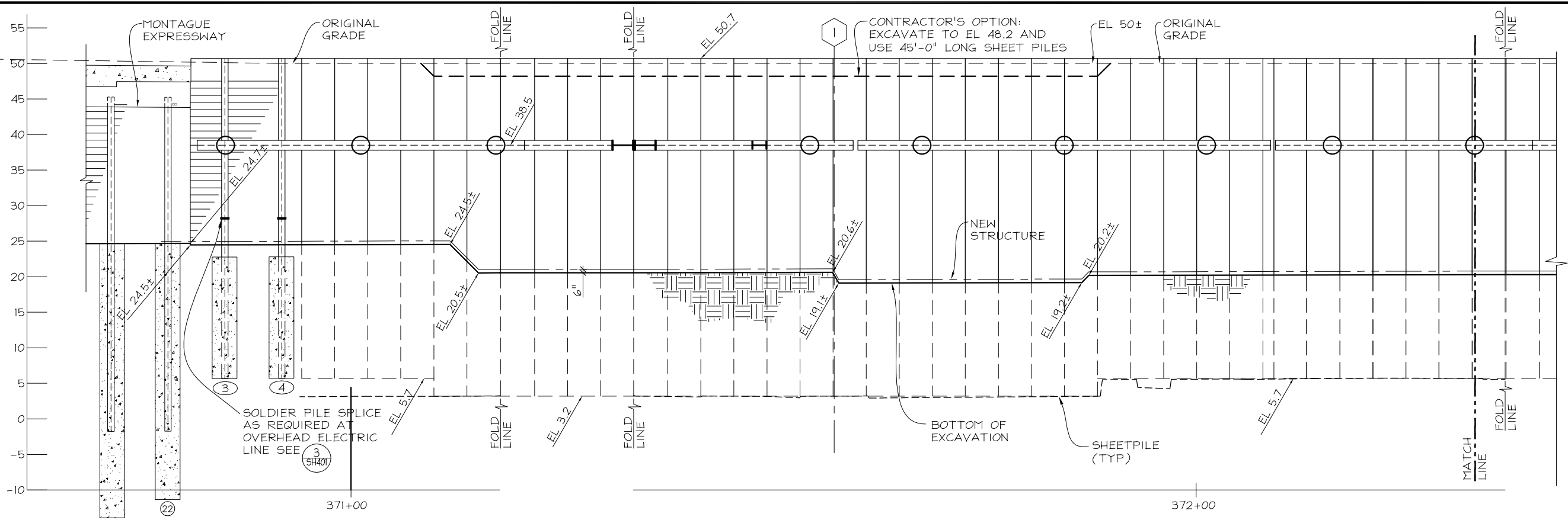
DESIGNED REB CHECKED DRJ DRAWN HC



LINE, TRACK, STATIONS AND SYSTEM
 MILPITAS STATION
 EXCAVATION SHORING
 SHEET PILE
 CORNER CONNECTION PLAN

CONTRACT C700 DATE JUL. 30, 2013 JOB 212412MS

SHEET
SH415
 DRAWING NO. 11 OF 23
 REVISION NOV. 7, 2013
 SCALE 1/16" = 1'-0"



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

NO.	DATE	REVISIONS	BY	CK
2	11-7-13	STATION DESIGN REVISED	HC	DJ
1	9-24-13	CHANGED TO BRACED DESIGN	HC	DJ

OWNER/GC
BART
SILICON VALLEY

GRAPHIC SCALE
0 1/4" 1" 1 1/2" 2" 2 1/2" 3"

CADD FILE NAME
212412_SH450.DWG

CLIENT
Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

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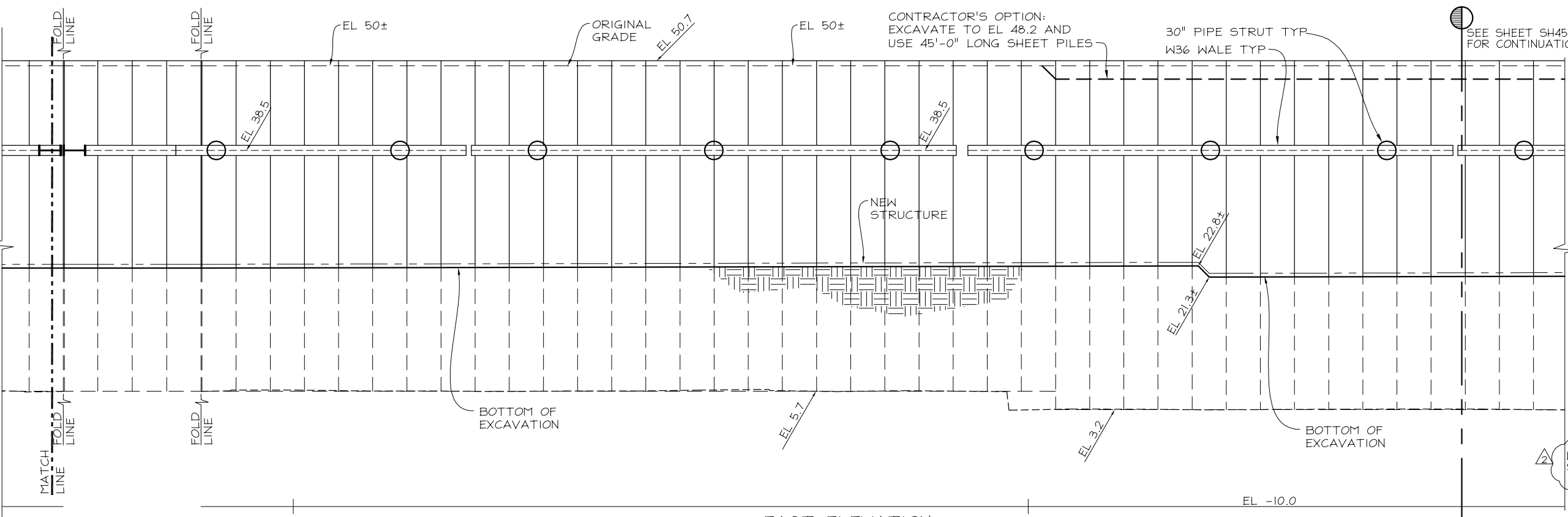
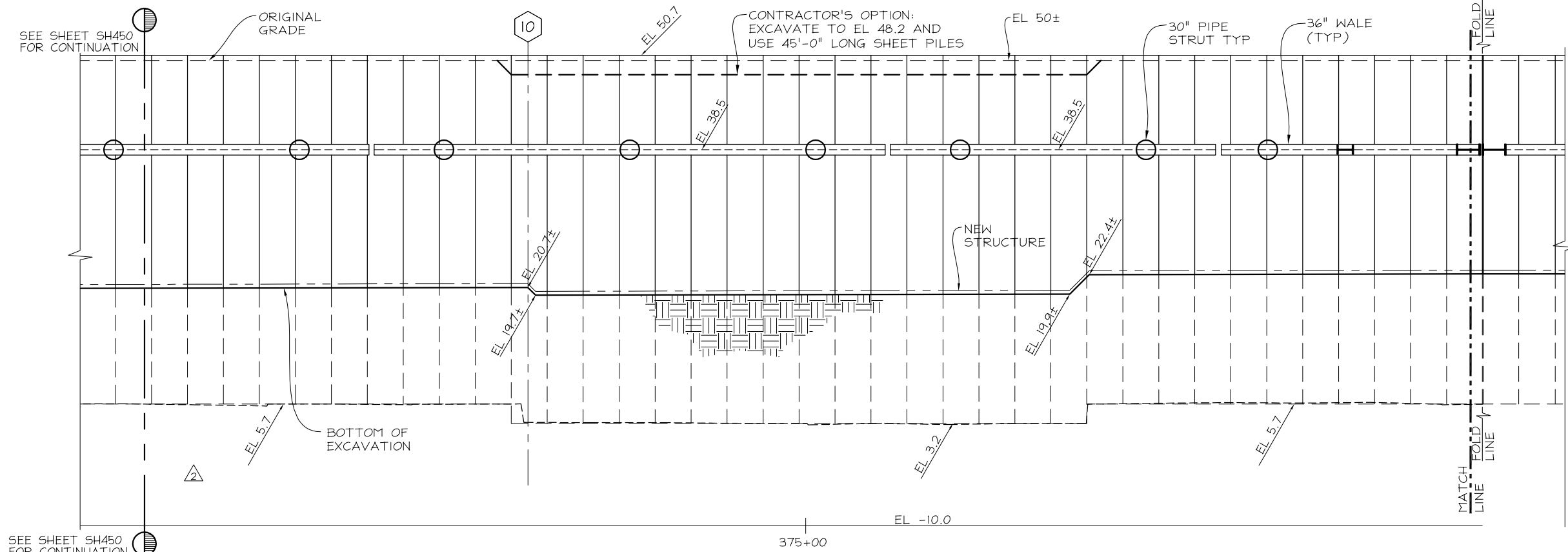
DESIGNED REB CHECKED DRJ DRAWN HC



LINE, TRACK, STATIONS AND SYSTEM
MILPITAS STATION
EXCAVATION SHORING
SHEET PILES
EAST ELEVATION (1 OF 3)

CONTRACT C700 DATE JUL. 30, 2013 JOB 212412MS

SHEET
SH450
DRAWING NO.
12 OF 23
REVISION
NOV. 7, 2013
SCALE 1/8" = 1'-0"



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

NO.	DATE	REVISIONS	BY	CK
11-7-13		STATION DESIGN REVISED	HC	DJ
9-24-13		CHANGED TO BRACED DESIGN	HC	DJ

OWNER
BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

GRAPHIC SCALE
0 1/4" 1" 1 1/2" 2" 2 1/2" 3"

CADD FILE NAME
212412_SH451.DWG

CLIENT
Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95055
A Joint Venture

APPROVED _____ DATE _____

BLCE
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920 COUNTRY CLUB DRIVE, SUITE 2A, MORAGA CA, 94556
(925) 247-9000 FAX (925) 247-9010
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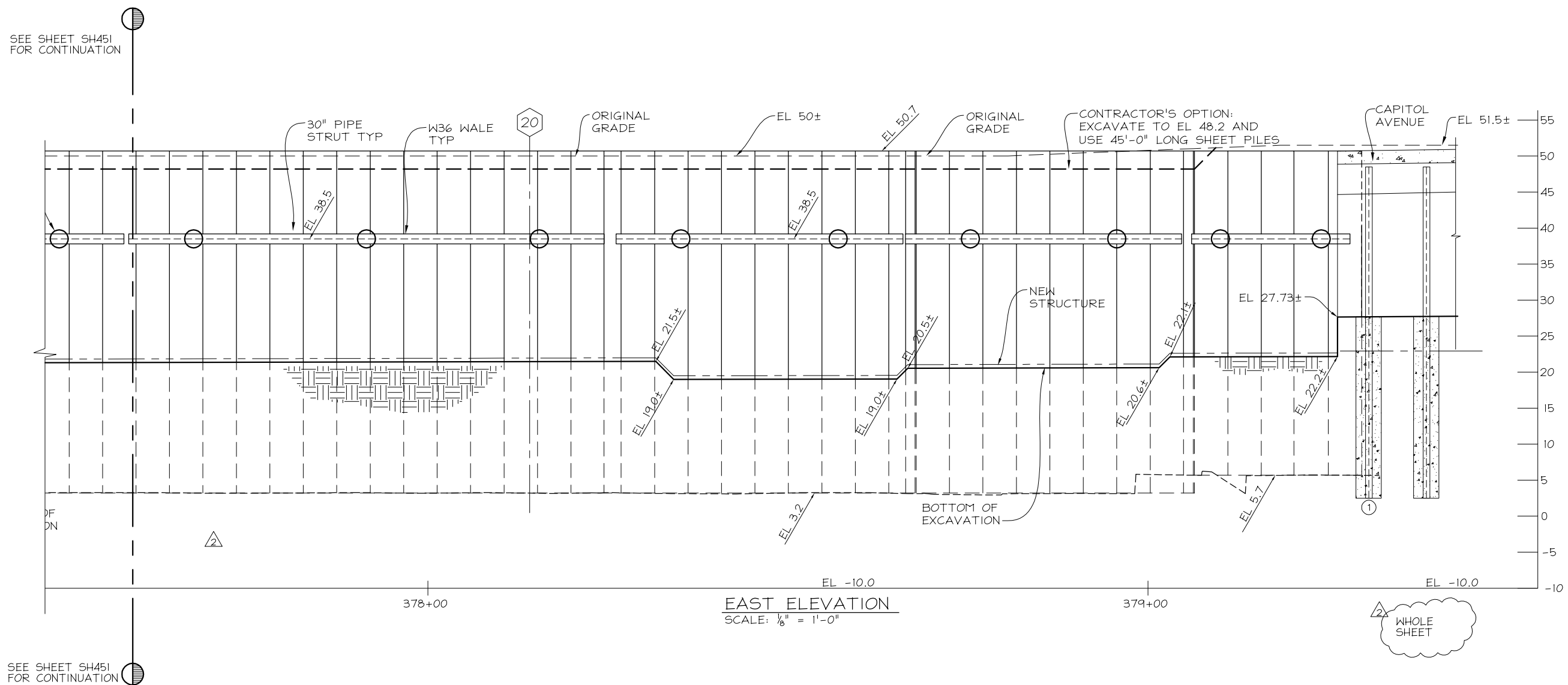
DESIGNED REB CHECKED DRJ DRAWN HC



LINE, TRACK, STATIONS AND SYSTEM
MILPITAS STATION
EXCAVATION SHORING
SHEET PILES
EAST ELEVATION (2 OF 3)

CONTRACT C700 DATE JUL. 30, 2013 JOB 212412MS

SHEET
SH451
DRAWING NO. 13 OF 23
REVISION NOV. 7, 2013
SCALE 1/8" = 1'-0"



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

NO.	DATE	REVISIONS	BY	CK
2	11-7-13	STATION DESIGN REVISED	HC	DJ
1	9-24-13	CHANGED TO BRACED DESIGN	HC	DJ

OWNER
BART
SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

GRAPHIC SCALE
0 1/2" 1" 1 1/2" 2" 2 1/2" 3"

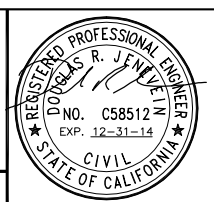
CADD FILE NAME
212412_SH452.DWG

CLIENT
Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

APPROVED _____ DATE _____

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920 COUNTRY CLUB DRIVE, SUITE 2A, MORAGA CA, 94556
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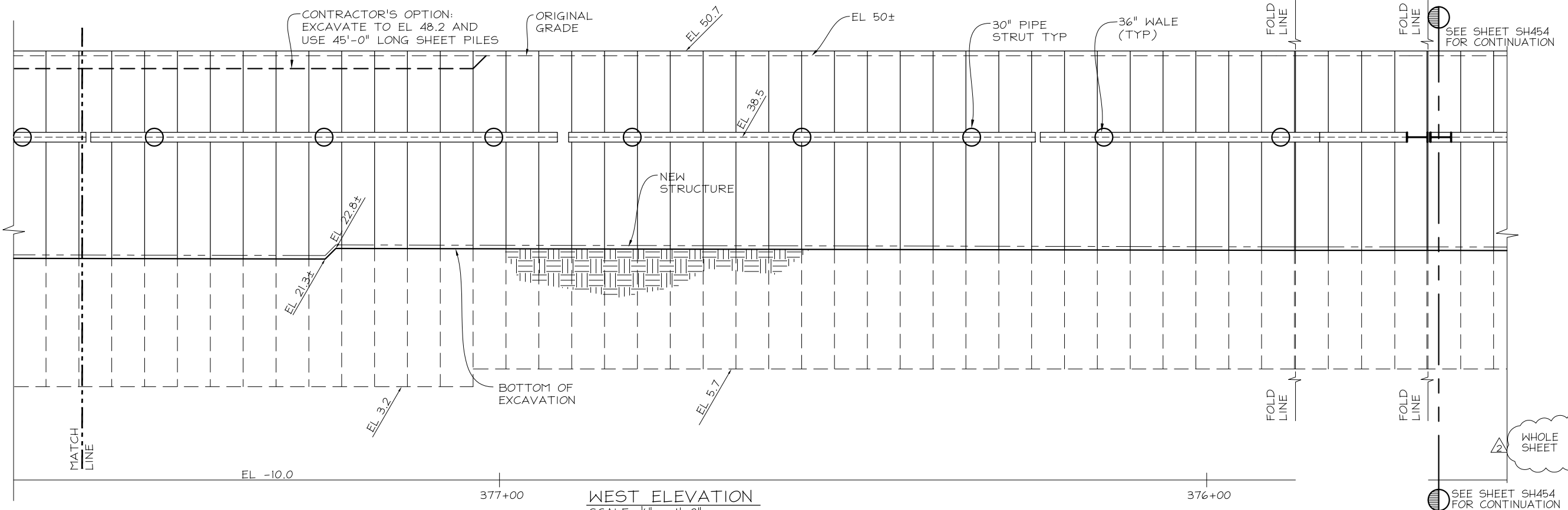
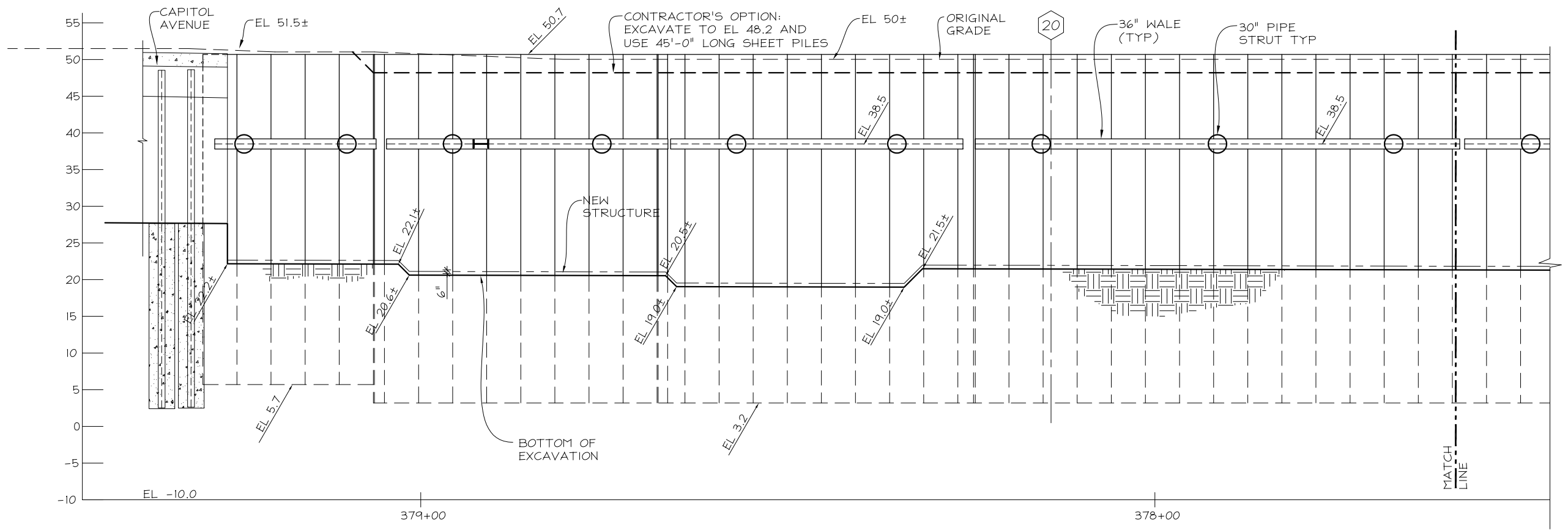
DESIGNED REB CHECKED DRJ DRAWN HC



LINE, TRACK, STATIONS AND SYSTEM
MILPITAS STATION
EXCAVATION SHORING
SHEET PILES
EAST ELEVATION (3 OF 3)

CONTRACT C700 DATE JUL. 30, 2013 JOB 212412MS

SHEET
SH452
DRAWING NO.
14 OF 23
REVISION
NOV. 7, 2013
SCALE 1/8" = 1'-0"



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

NO.	DATE	REVISIONS	BY	CK
2	11-7-13	STATION DESIGN REVISED	HC	DJ
1	9-24-13	CHANGED TO BRACED DESIGN	HC	DJ

OWNER
BART
SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

GRAPHIC SCALE
0 1/4" 1" 1 1/2" 2" 2 1/2" 3"

CADD FILE NAME: 212412_SH453.DWG
PLOT DATE

CLIENT
Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

APPROVED _____ DATE _____

BLCE
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DESIGNED: REB CHECKED: DRJ DRAWN: HC



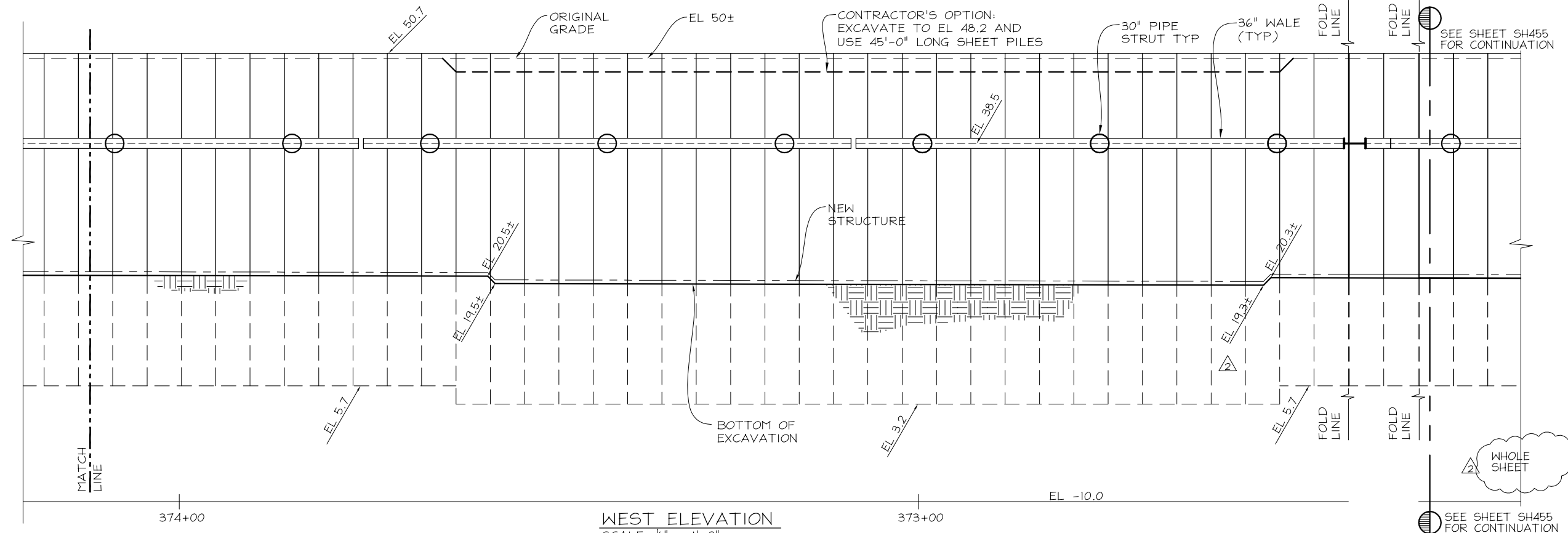
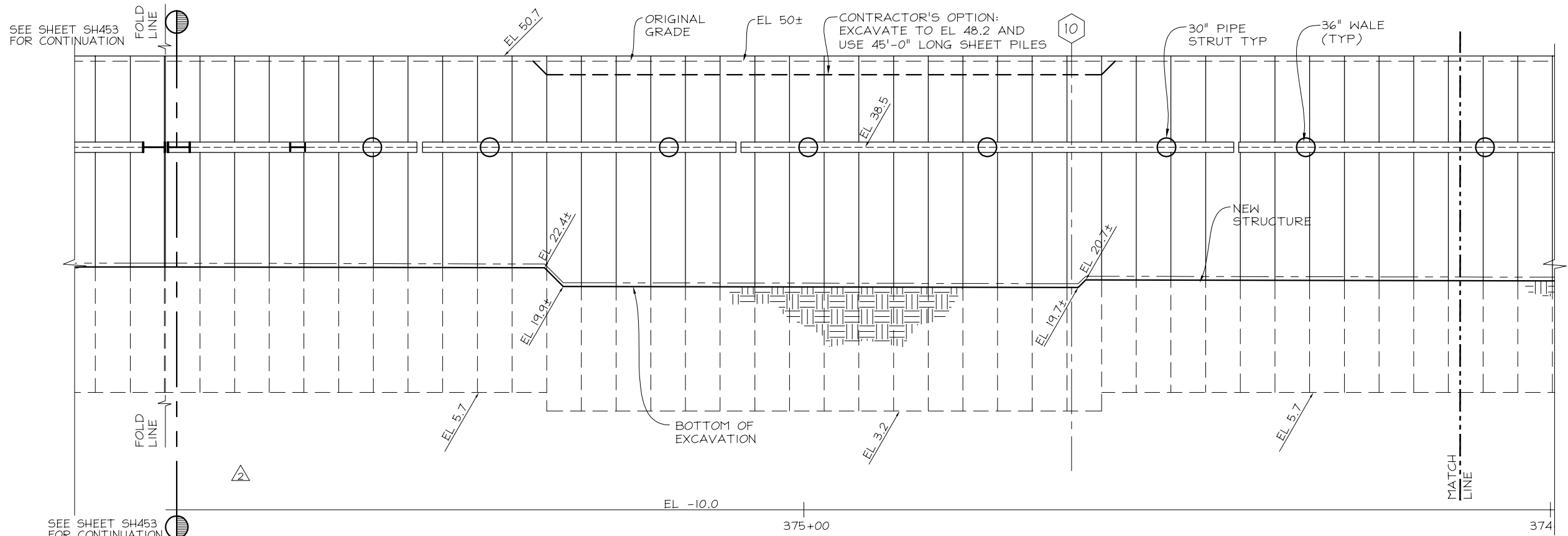
LINE, TRACK, STATIONS AND SYSTEM
MILPITAS STATION
EXCAVATION SHORING
SHEET PILES
WEST ELEVATION (1 OF 3)

CONTRACT: C700 DATE: JUL. 30, 2013 JOB: 212412MS

SHEET
SH453
DRAWING NO. 15 OF 23
REVISION NOV. 7, 2013
SCALE 1/8" = 1'-0"

WHOLE SHEET

SEE SHEET SH454 FOR CONTINUATION



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

NO.	DATE	REVISIONS	BY	CK
2	11-7-13	STATION DESIGN REVISED	HC	DJ
1	9-24-13	CHANGED TO BRACED DESIGN	HC	DJ

BART
SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

GRAPHIC SCALE: 0 1/4" 1" 1 1/2" 2" 2 1/2" 3"

CADD FILE NAME: 212412_SH454.DWG

CLIENT: **Skanska Shimmick Herzog**

1436 California Circle
Milpitas, California 95035
A Joint Venture

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DESIGNED: REB CHECKED: DRJ DRAWN: HC



LINE, TRACK, STATIONS AND SYSTEM
MILPITAS STATION
EXCAVATION SHORING
SHEET PILES
WEST ELEVATION (2 OF 3)

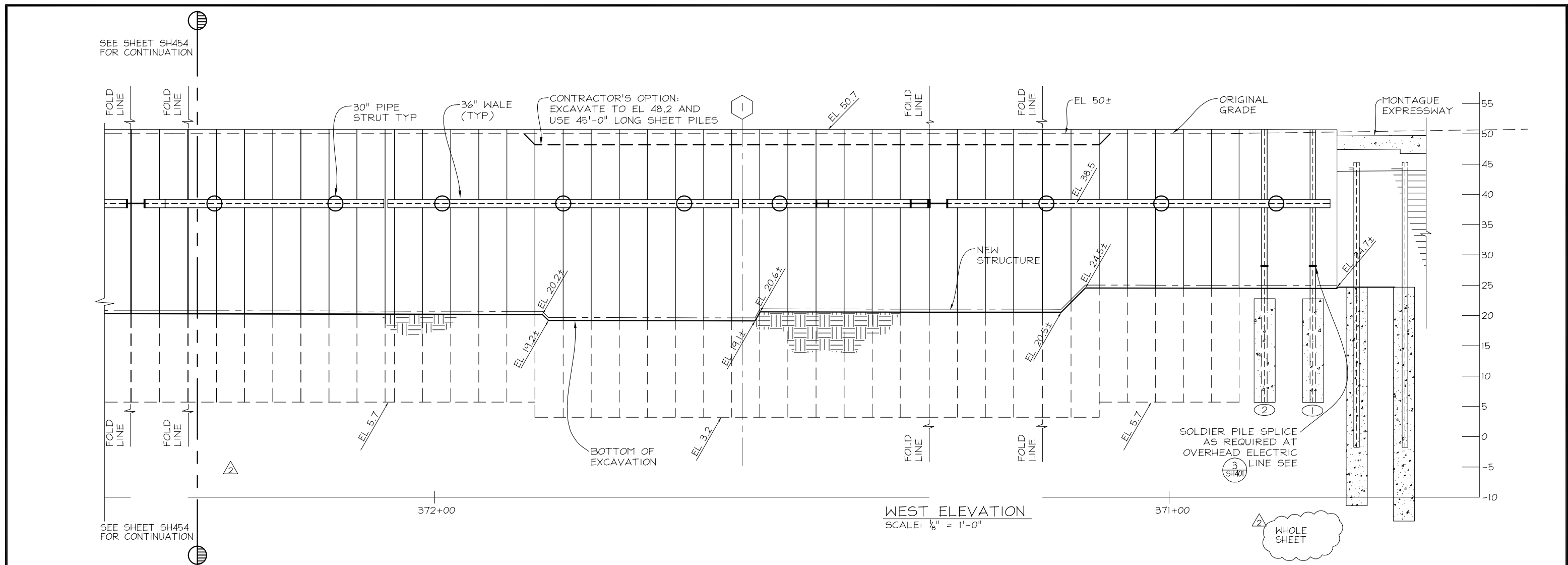
CONTRACT: C700 DATE: JUL. 30, 2013 JOB: 212412MS

SHEET: **SH454**

DRAWING NO. 16 OF 23

REVISION: NOV. 7, 2013

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



NO.	DATE	REVISIONS	BY	CK
2	11-7-13	STATION DESIGN REVISED	HC	DJ
1	9-24-13	CHANGED TO BRACED DESIGN	HC	DJ

OWNER

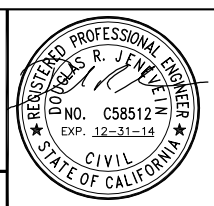
 BART SILICON VALLEY BERRYESSA EXTENSION
 GRAPHIC SCALE: 0 1/8" 1" 1 1/2" 2" 2 1/2" 3"

CLIENT

 1436 California Circle
 Milpitas, California 95035
 A Joint Venture

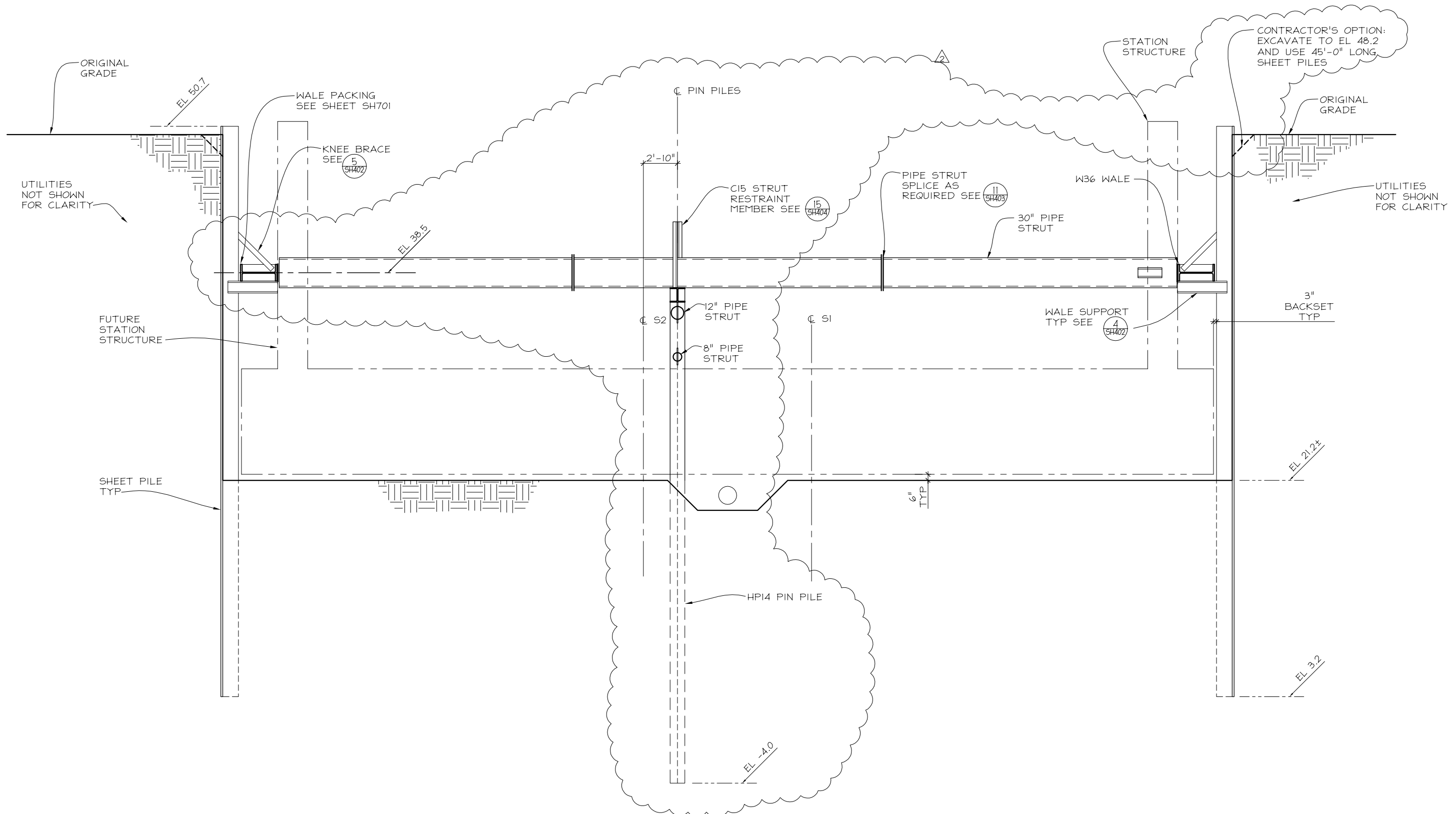
DESIGNED REB CHECKED DRJ DRAWN HC

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CONTRACT C700 DATE JUL. 30, 2013 JOB 212412MS
 LINE, TRACK, STATIONS AND SYSTEM
 MILPITAS STATION
 EXCAVATION SHORING
 SHEET PILES
 WEST ELEVATION (3 OF 3)

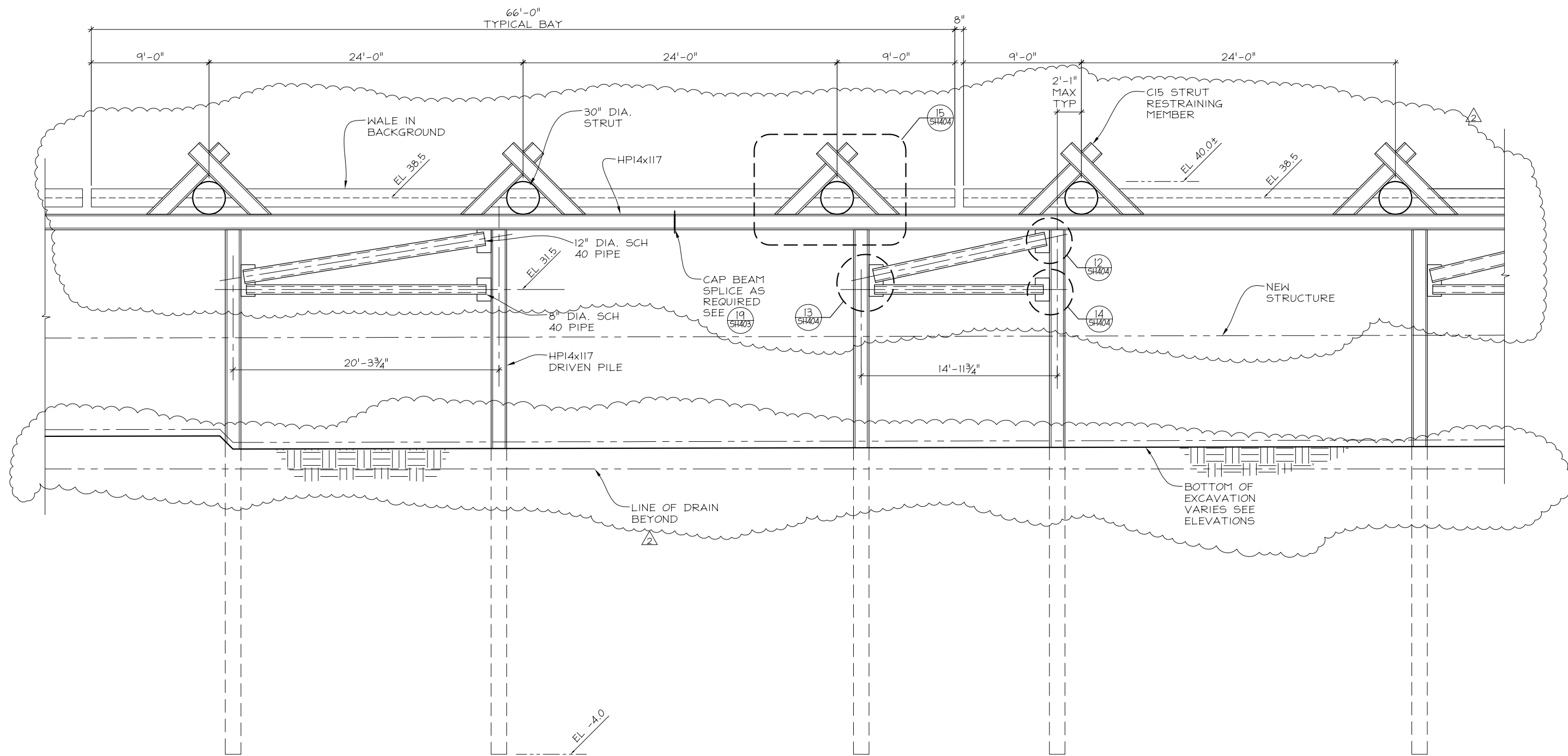
SHEET
SH455
 DRAWING NO. 17 OF 23
 REVISION
 NOV. 7, 2013
 SCALE 1/8" = 1'-0"



B TYPICAL SECTION
 (SH411) SCALE: 1/4" = 1'-0" (SHOWN AT 372+00)

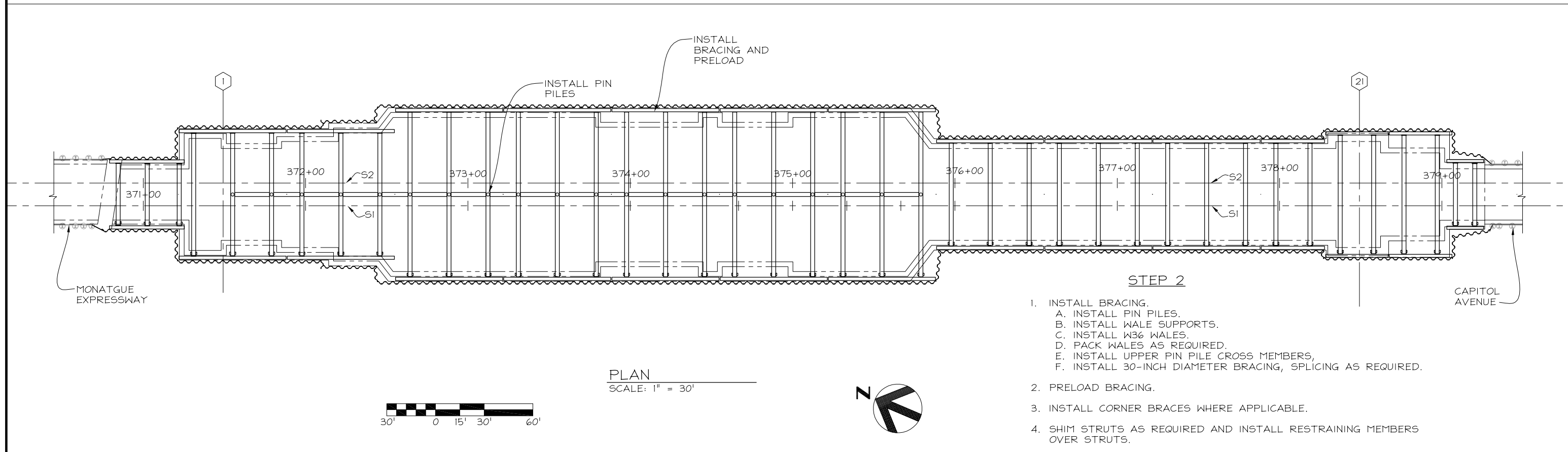
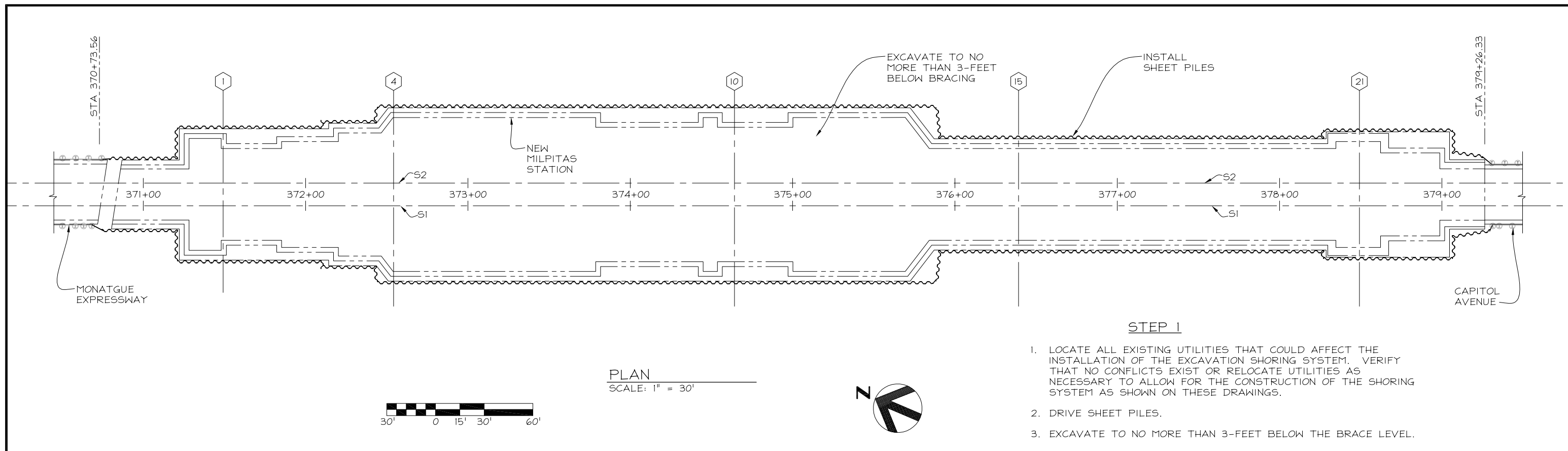
NO.		DATE		REVISIONS		BY		CK	
11-7-13				STATION DESIGN REVISED		HC		DJ	
9-24-13				CHANGED TO BRACED DESIGN		HC		DJ	

 BART SILICON VALLEY BERRYESSA EXTENSION		CLIENT Skanska Shimmick Herzog 1436 California Circle Milpitas, California 95055 A Joint Venture		 BERT-LINDQUIST CONSULTING ENGINEERS, INC. 920 COUNTRY CLUB DRIVE, SUITE 2A, MORAGA CA, 94556 (925) 247-9000 FAX (925) 247-9010 a Division of Brierley Associates, Inc.				LINE, TRACK, STATIONS AND SYSTEM MILPITAS STATION EXCAVATION SHORING PIN PILE TRANSVERSE SECTION		SHEET SH461 DRAWING NO. 19 OF 23 REVISION NOV. 7, 2013 SCALE 1/8" = 1'-0"									
CADD FILE NAME 212412_SH461.DWG		PLOT DATE		APPROVED		DATE		DESIGNED REB		CHECKED DRJ		DRAWN HC		CONTRACT C700		DATE JUL. 30, 2013		JOB 212412MS	

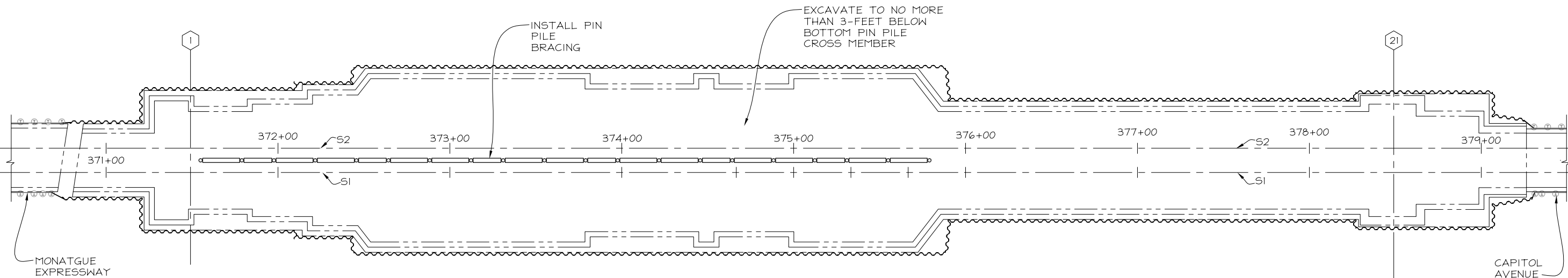


C TYPICAL SECTION
 SH411 SCALE: 1/4" = 1'-0" (SHOWN AT 372+00)

NO.		DATE		REVISIONS		BY		CK			
2	11-7-13			STATION DESIGN REVISED		HC	DJ				
1	9-24-13			CHANGED TO BRACED DESIGN		HC	DJ				
OWNER		CLIENT		DESIGNED		CHECKED		DRAWN			
 BART SILICON VALLEY BERRYESSA EXTENSION		 1436 California Circle Milpitas, California 95035 A Joint Venture		 BERT LINDQUIST CONSULTING ENGINEERS, INC. 920 COUNTRY CLUB DRIVE, SUITE 2A, MORAGA CA, 94556 (925) 247-9000 FAX (925) 247-9010 a Division of Brierley Associates, Inc.				LINE, TRACK, STATIONS AND SYSTEM MILPITAS STATION EXCAVATION SHORING PIN PILE LONGITUDINAL SECTION		SHEET SH462 DRAWING NO. 20 OF 23 REVISION NOV. 7, 2013 SCALE 1/8" = 1'-0"	
CADD FILE NAME		PLOT DATE		APPROVED		DATE		CONTRACT		JOB	
212412_SH462.DWG								C700		JUL. 30, 2013 212412MS	



								LINE, TRACK, STATIONS AND SYSTEM MILPITAS STATION EXCAVATION SHORING CONSTRUCTION SEQUENCE (1 OF 3)		SHEET SH470	
BART SILICON VALLEY BERRYESSA EXTENSION		1436 California Circle Milpitas, California 95035 A Joint Venture		BERTI-LINDQUIST CONSULTING ENGINEERS, INC. 920 COUNTRY CLUB DRIVE, SUITE 2A, MORAGA CA, 94556 (925) 247-9000 FAX (925) 247-9010 a Division of Brierley Associates, Inc.		REGISTERED PROFESSIONAL ENGINEER DOUGLAS R. JEWELL NO. C58512 EXP. 12-31-14 CIVIL STATE OF CALIFORNIA		CONTRACT C700 DATE SEP. 4, 2013 JOB 212412MS		DRAWING NO. 21 OF 23 REVISION NOV. 7, 2013 SCALE 1" = 30'	
NO.	DATE	BY	CK	APPROVED	DATE	DESIGNED	CHECKED	DRAWN			
2	11-7-13	HC	DJ			REB	DRJ	HC			
1	9-24-13	HC	DJ								
STATION DESIGN REVISED											
CHANGED TO BRACED DESIGN											
REVISIONS											

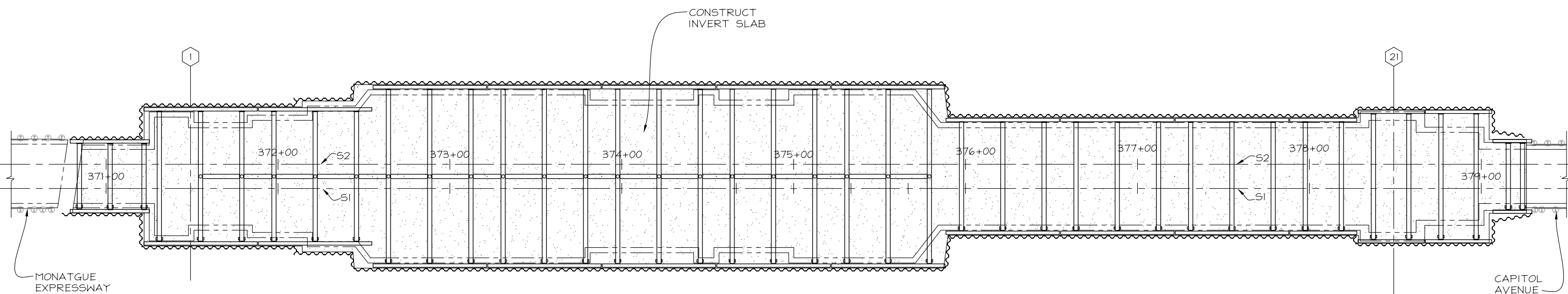


STEP 3

1. EXCAVATE TO NO MORE THAN 3- FEET BELOW THE BOTTOM PIN PILE CROSS MEMBER LEVEL.
2. CONSTRUCT BOTTOM CROSS MEMBER AND DIAGONAL STRUTS.

PLAN

SCALE: 1" = 30'



STEP 4

1. EXCAVATE TO 6- INCHES BELOW THE INVERT SLAB.
2. CONSTRUCT INVERT SLAB.

PLAN

SCALE: 1" = 30'



NO.	DATE	REVISIONS	BY	CK
2	11-7-13	STATION DESIGN REVISED	HC	DJ
1	9-24-13	CHANGED TO BRACED DESIGN	HC	DJ

OWNER
BART
 SILICON VALLEY
 BART SILICON VALLEY BERRYESSA EXTENSION

CLIENT
Skanska Shimmick Herzog
 1436 California Circle
 Milpitas, California 95035
 A Joint Venture

GRAPHIC SCALE
 0 1/2" 1" 1 1/2" 2" 2 1/2" 3"

CADD FILE NAME: 212412_SH471.DWG
 PLOT DATE: _____
 APPROVED: _____ DATE: _____

BLCE
 BERTI-LINDQUIST CONSULTING ENGINEERS, INC.
 920 COUNTRY CLUB DRIVE, SUITE 2A, MORAGA CA, 94556
 (925) 247-9000 FAX (925) 247-9010
 a Division of Brierley Associates, Inc.

DESIGNED: REB
 CHECKED: DRJ
 DRAWN: HC

REGISTERED PROFESSIONAL ENGINEER
 DONALD R. JENNEY
 NO. C58512
 EXP. 12-31-14
 CIVIL
 STATE OF CALIFORNIA

LINE, TRACK, STATIONS AND SYSTEM
 MILPITAS STATION
 EXCAVATION SHORING
 CONSTRUCTION
 SEQUENCE (2 OF 3)

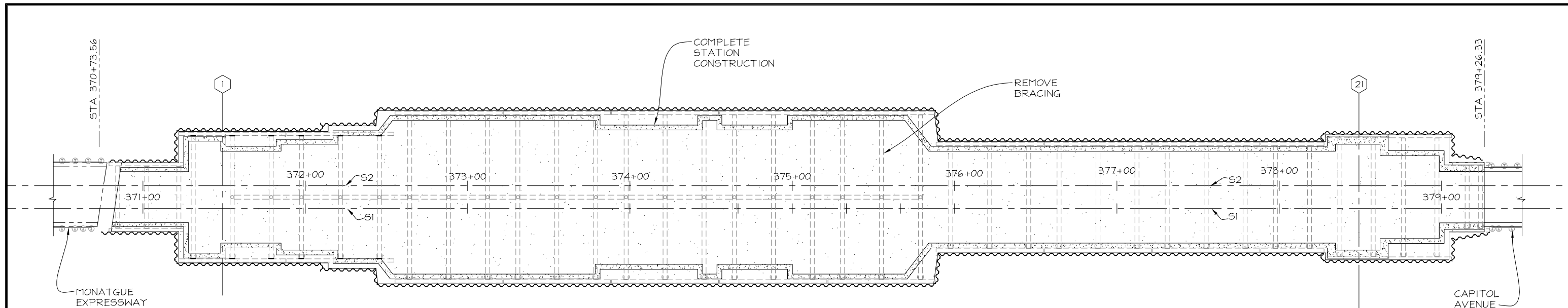
CONTRACT: C700
 DATE: SEP. 23, 2013
 JOB: 212412MS

SHEET **SH471**

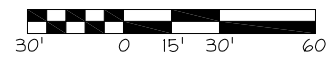
DRAWING NO. 22 OF 23

REVISION NOV. 7, 2013

SCALE 1" = 30'



PLAN
SCALE: 1" = 30'



STEP 5

1. ONCE INVERT SLAB HAS REACHED ADEQUATE STRENGTH, REMOVE BRACING, WALES, AND PIN PILES.
2. COMPLETE STATION CONSTRUCTION.

STEP 7 (NOT SHOWN)

1. BACKFILL BETWEEN STATION WALLS AND SHEET PILES TO EXISTING GRADE.
2. REMOVE SHEET PILES.

NO.	DATE	REVISIONS	BY	CK
2	11-7-13	STATION DESIGN REVISED	HC	DJ
1	9-24-13	CHANGED TO BRACED DESIGN	HC	DJ

OWNER
BART
VTA SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

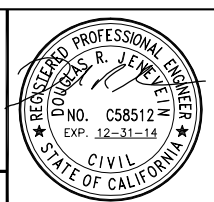
GRAPHIC SCALE
0 1/2" 1" 1 1/2" 2" 2 1/2" 3"

CADD FILE NAME
212412_SH472.DWG

CLIENT
Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

BLCE
BERT-LINDQUIST CONSULTING ENGINEERS, INC.
920 COUNTRY CLUB DRIVE, SUITE 2A, MORAGA CA, 94556
(925) 247-9000 FAX (925) 247-9010
a Division of Brierley Associates, Inc.

DESIGNED REB CHECKED DRJ DRAWN HC



LINE, TRACK, STATIONS AND SYSTEM
MILPITAS STATION
EXCAVATION SHORING
CONSTRUCTION
SEQUENCE (3 OF 3)

CONTRACT C700 DATE SEP. 4, 2013 JOB 212412MS

SHEET
SH472
DRAWING NO. 23 OF 23
REVISION NOV. 7, 2013
SCALE 1" = 30'